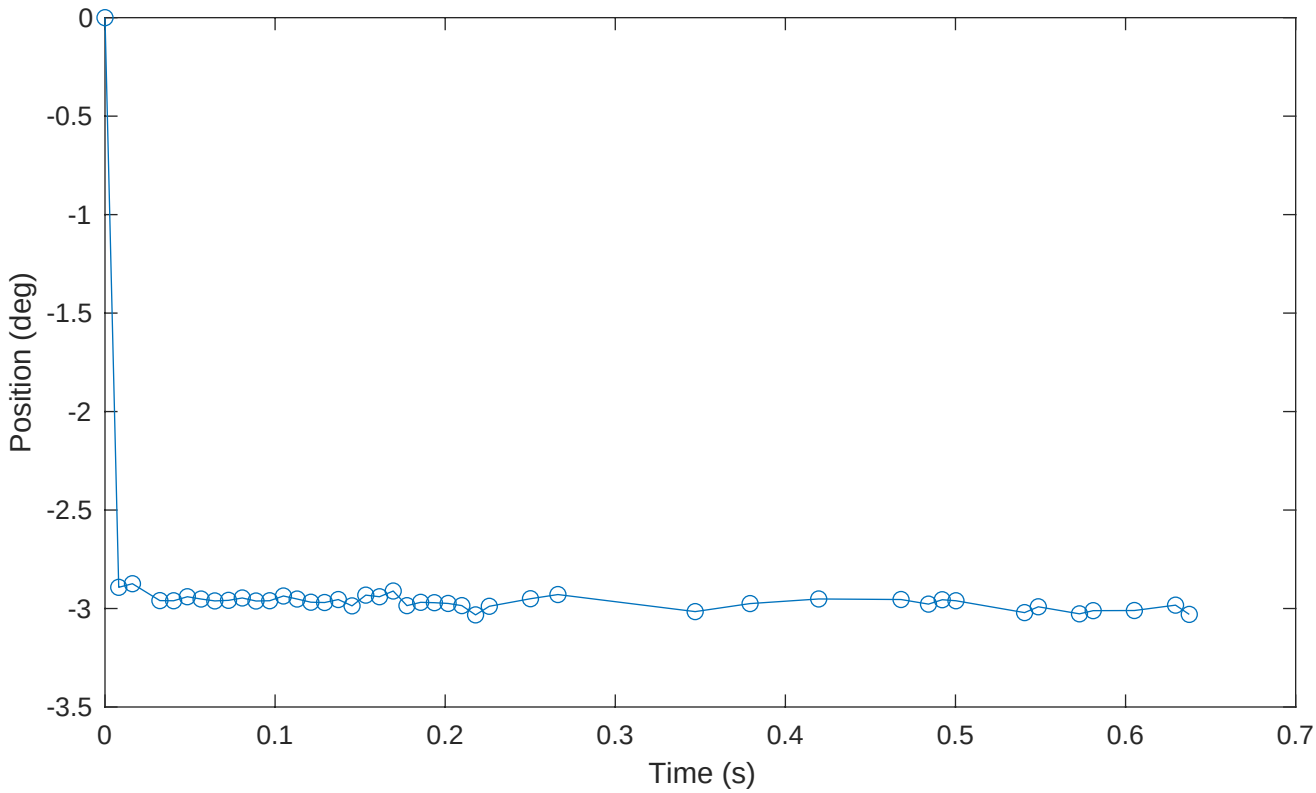
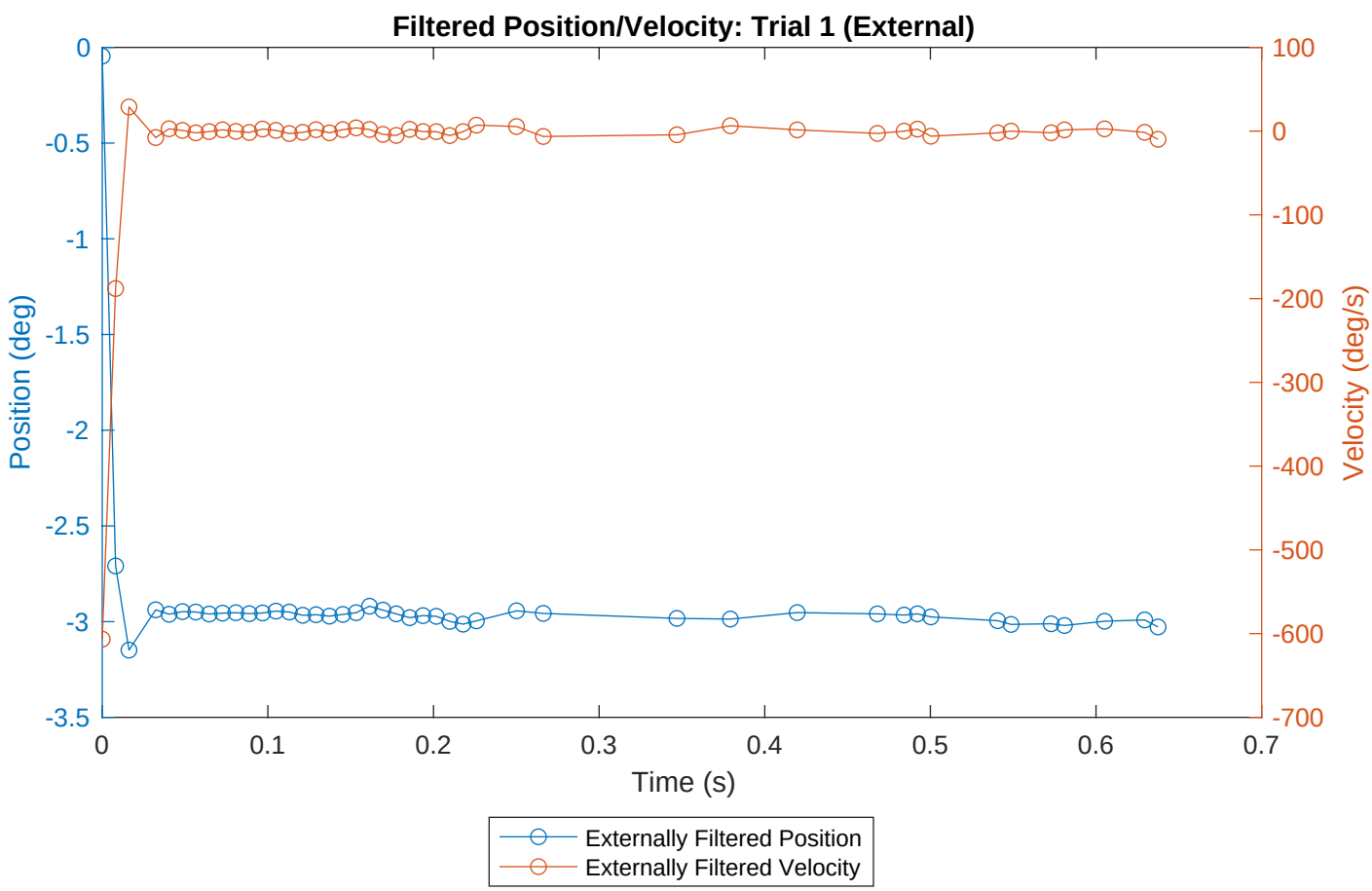
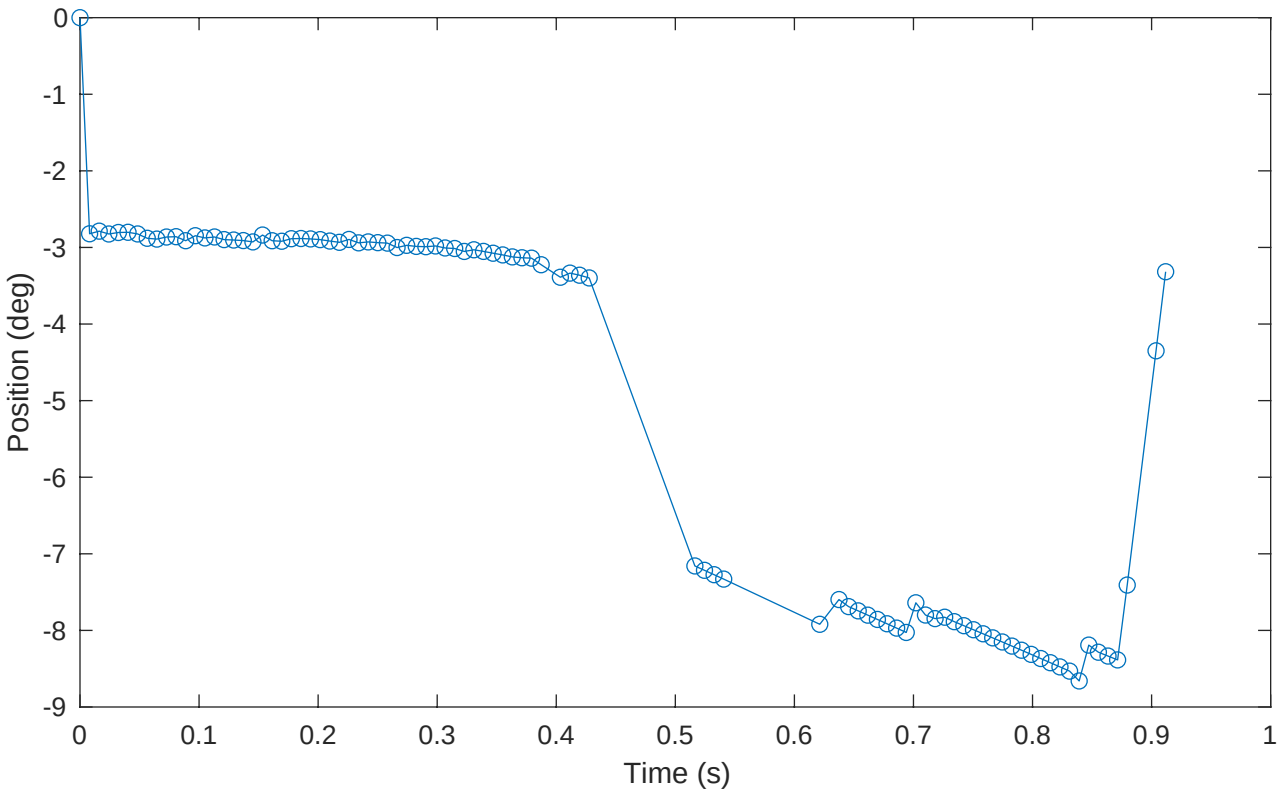
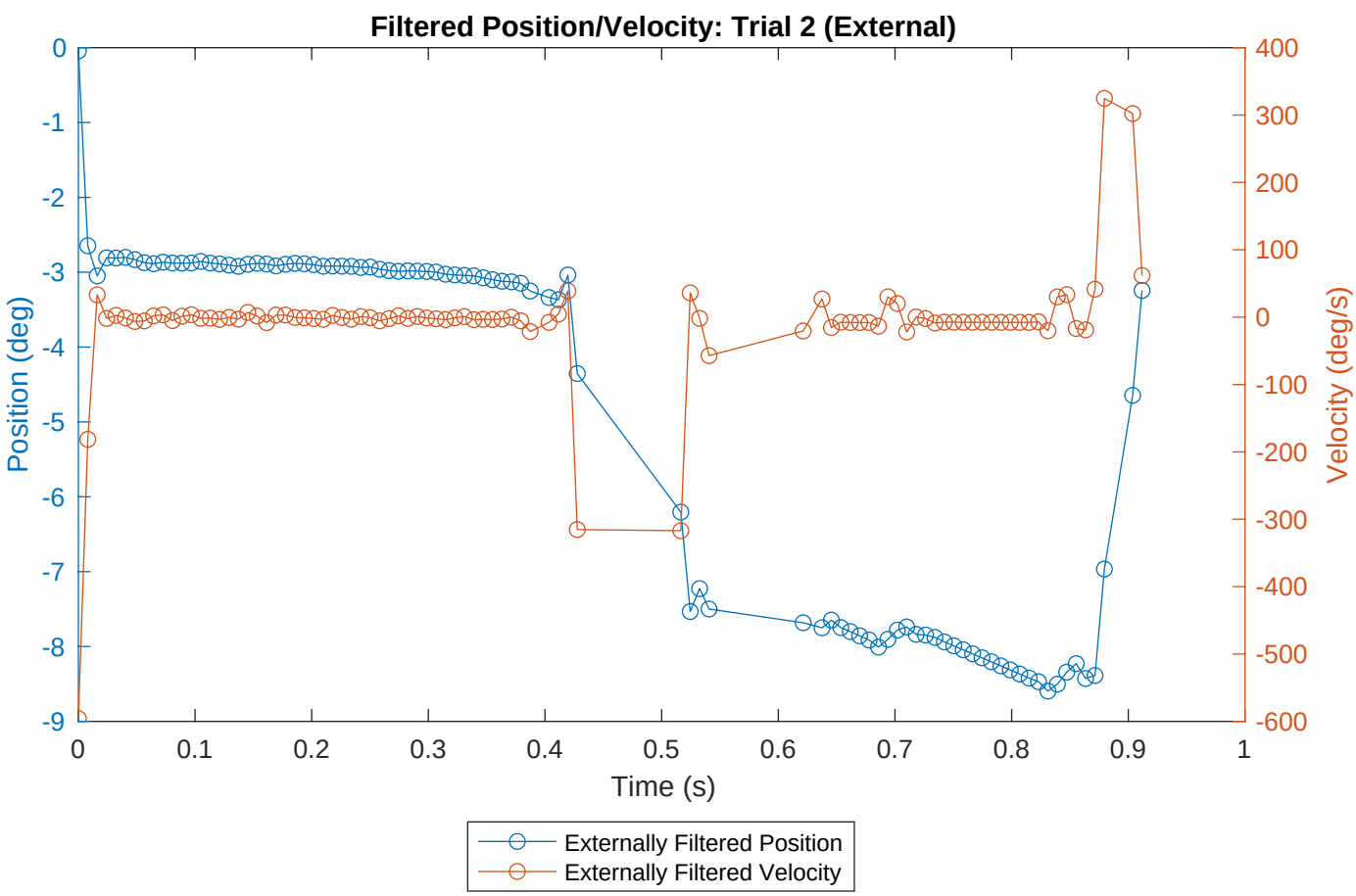
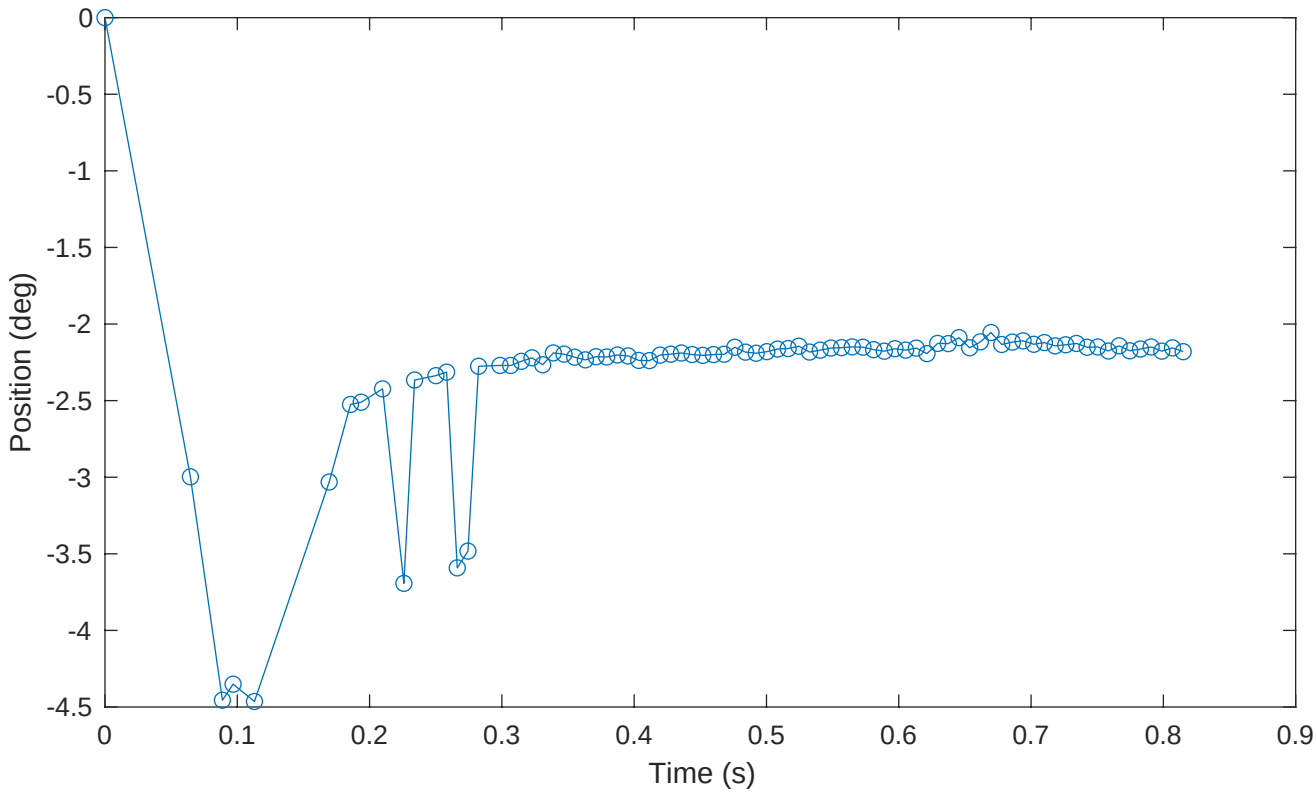
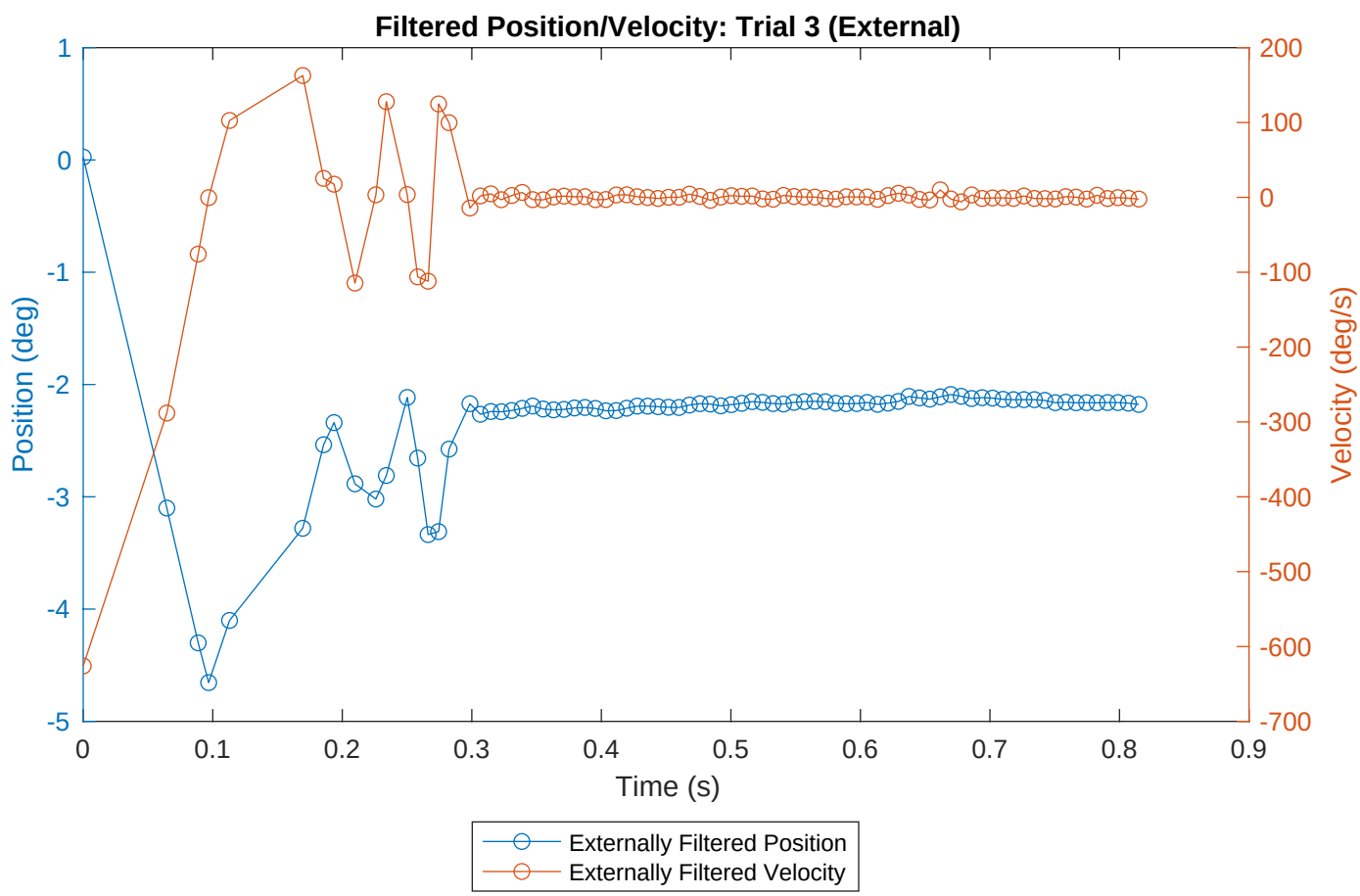

0
-0.5
-1
-1.5
-2
-2.5
-3
-3.5
Position (deg)
0
0.1
0.2
0.3
0.4
0.5
0.6
0.7
Time (s)

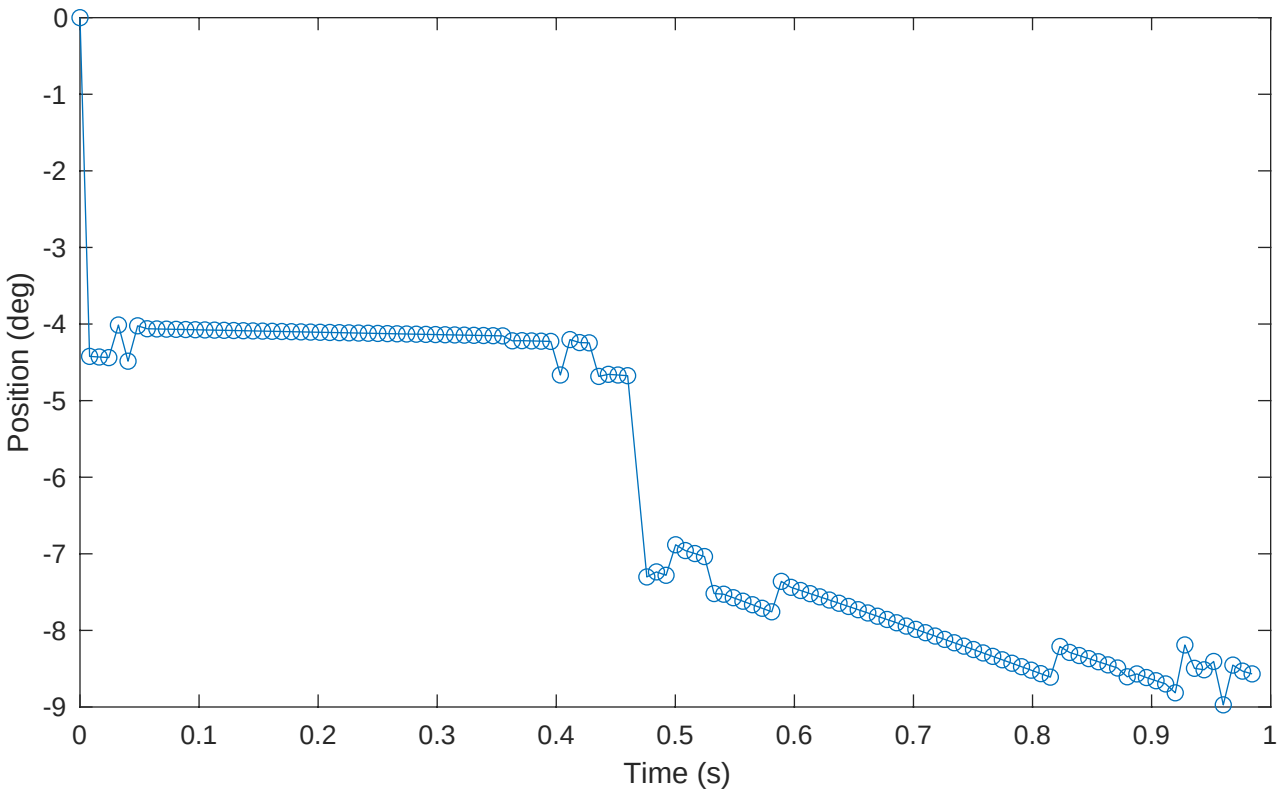

Filtered Position/Velocity: Trial 1 (External)
0
-0.5
-1
-1.5
-2
-2.5
-3
-3.5
Position (deg)
100
0
-100
-200
-300
-400
-500
-600
-700
Velocity (deg/s)
0
0.1
0.2
0.3
0.4
0.5
0.6
0.7
Time (s)
Externally Filtered Position
Externally Filtered Velocity

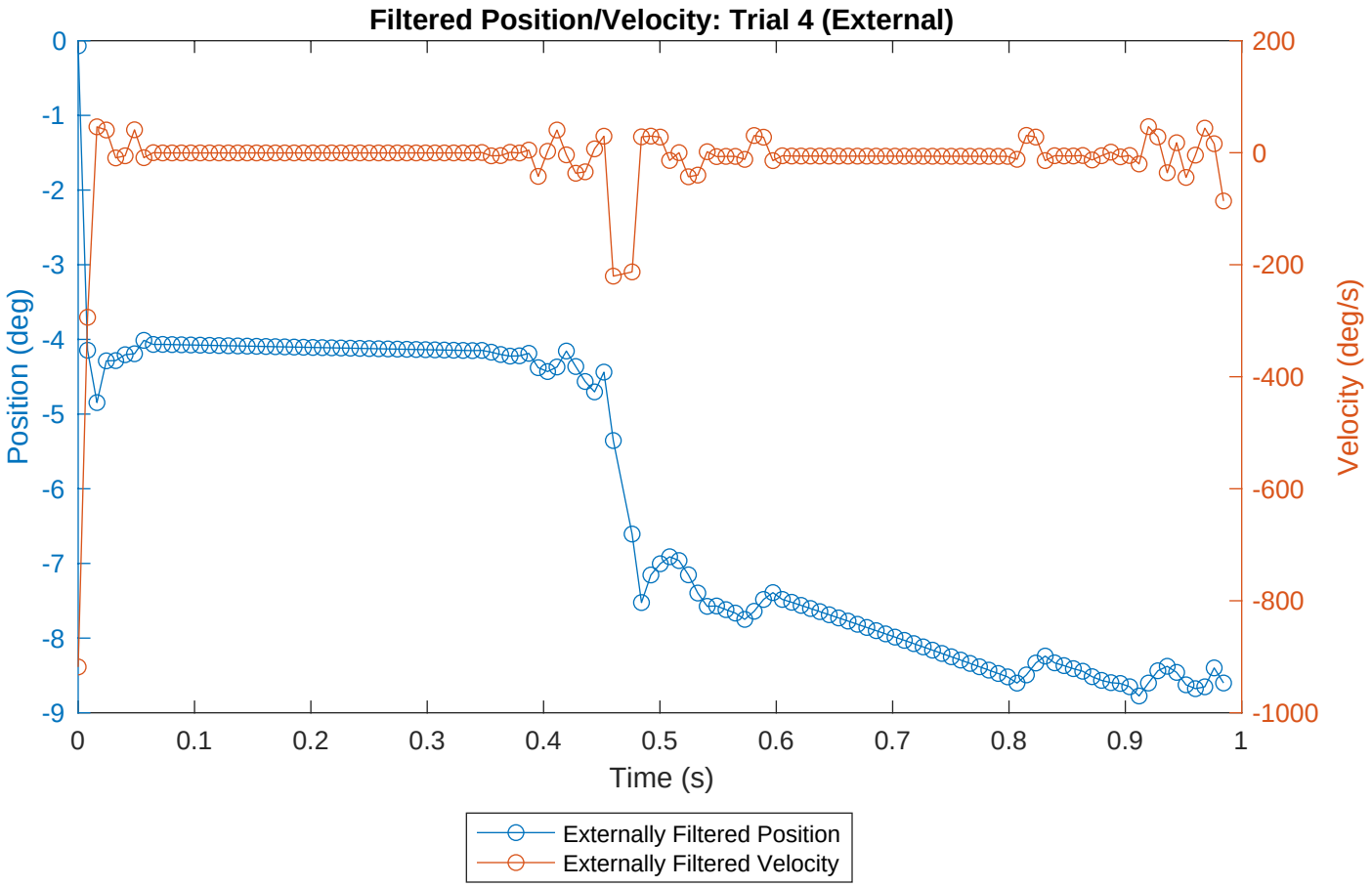

Position (deg)
Time (s)
0
-1
-2
-3
-4
-5
-6
-7
-8
-9
0
0.1
0.2
0.3
0.4
0.5
0.6
0.7
0.8
0.9
1

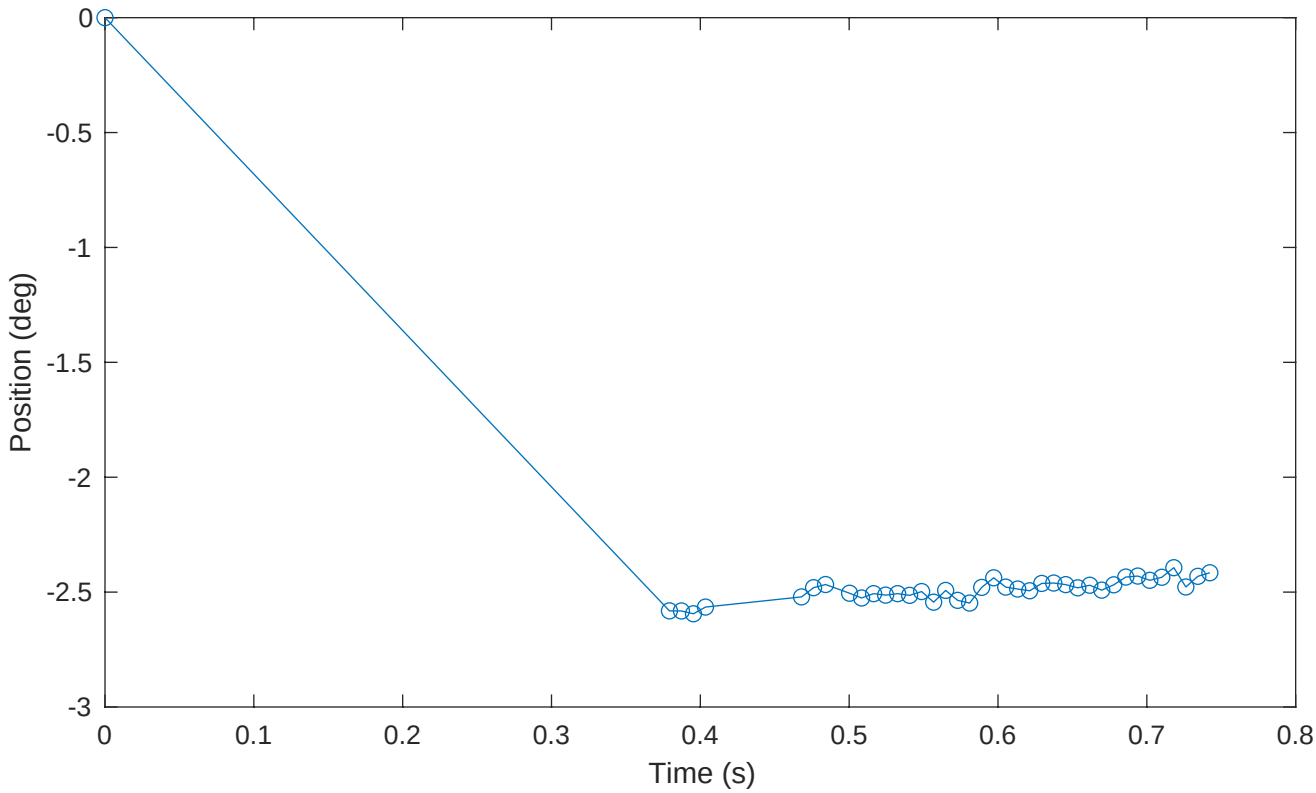

Filtered Position/Velocity: Trial 2 (External)
Position (deg)
Velocity (deg/s)
Time (s)
0
-1
-2
-3
-4
-5
-6
-7
-8
-9
400
300
200
100
0
-100
-200
-300
-400
-500
-600
0
0.1
0.2
0.3
0.4
0.5
0.6
0.7
0.8
0.9
1
Externally Filtered Position
Externally Filtered Velocity

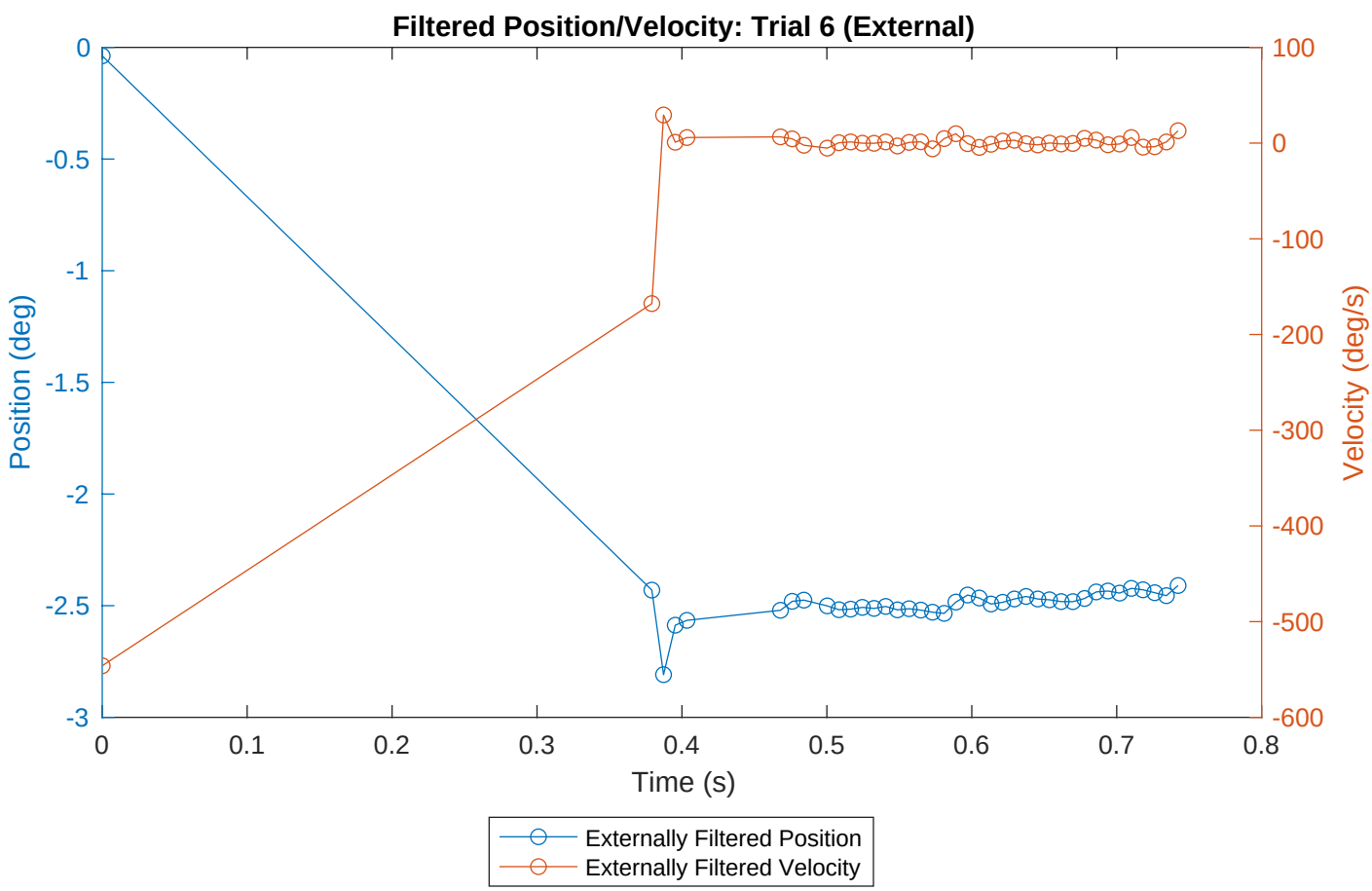

Position (deg)
Time (s)
0
-0.5
-1
-1.5
-2
-2.5
-3
-3.5
-4
-4.5
0
0.1
0.2
0.3
0.4
0.5
0.6
0.7
0.8
0.9

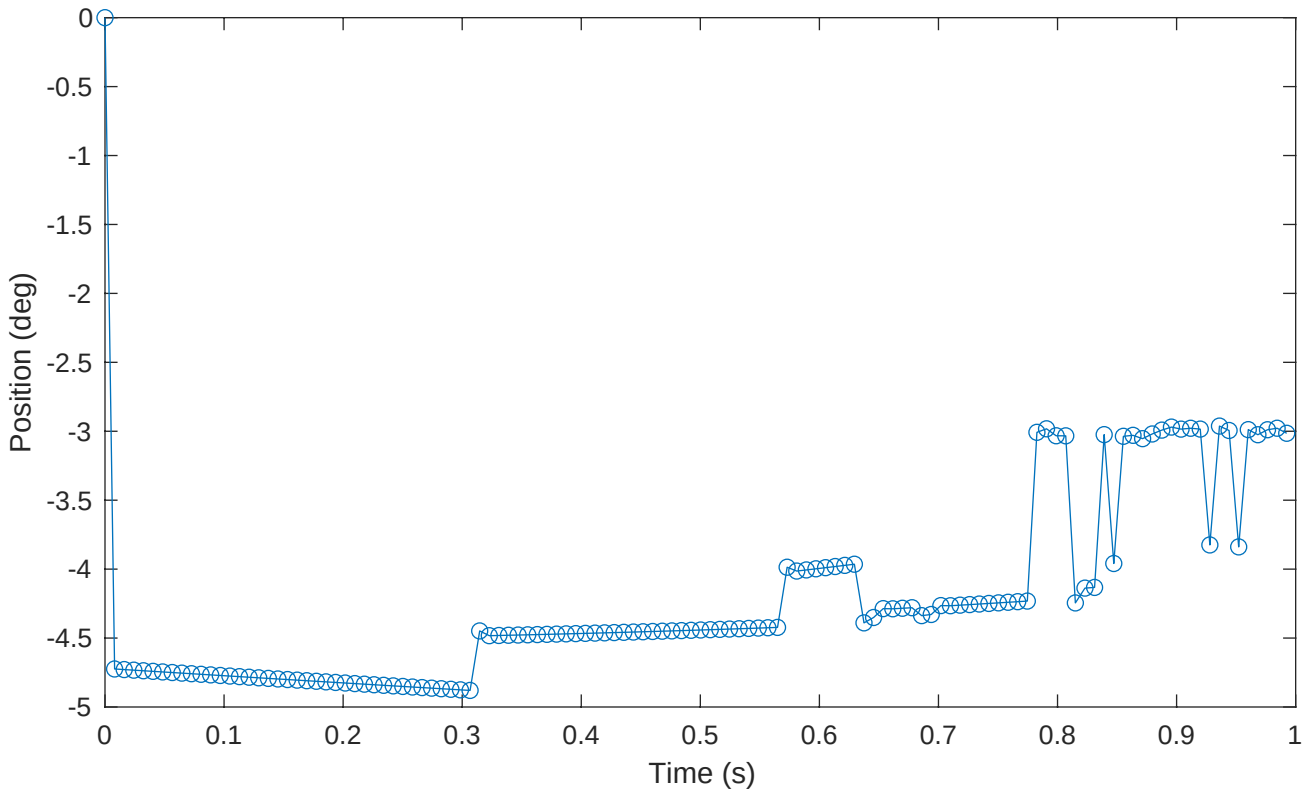

Filtered Position/Velocity: Trial 3 (External)
Position (deg)
Velocity (deg/s)
Time (s)
1
0
-1
-2
-3
-4
-5
200
100
0
-100
-200
-300
-400
-500
-600
-700
0
0.1
0.2
0.3
0.4
0.5
0.6
0.7
0.8
0.9
Externally Filtered Position
Externally Filtered Velocity

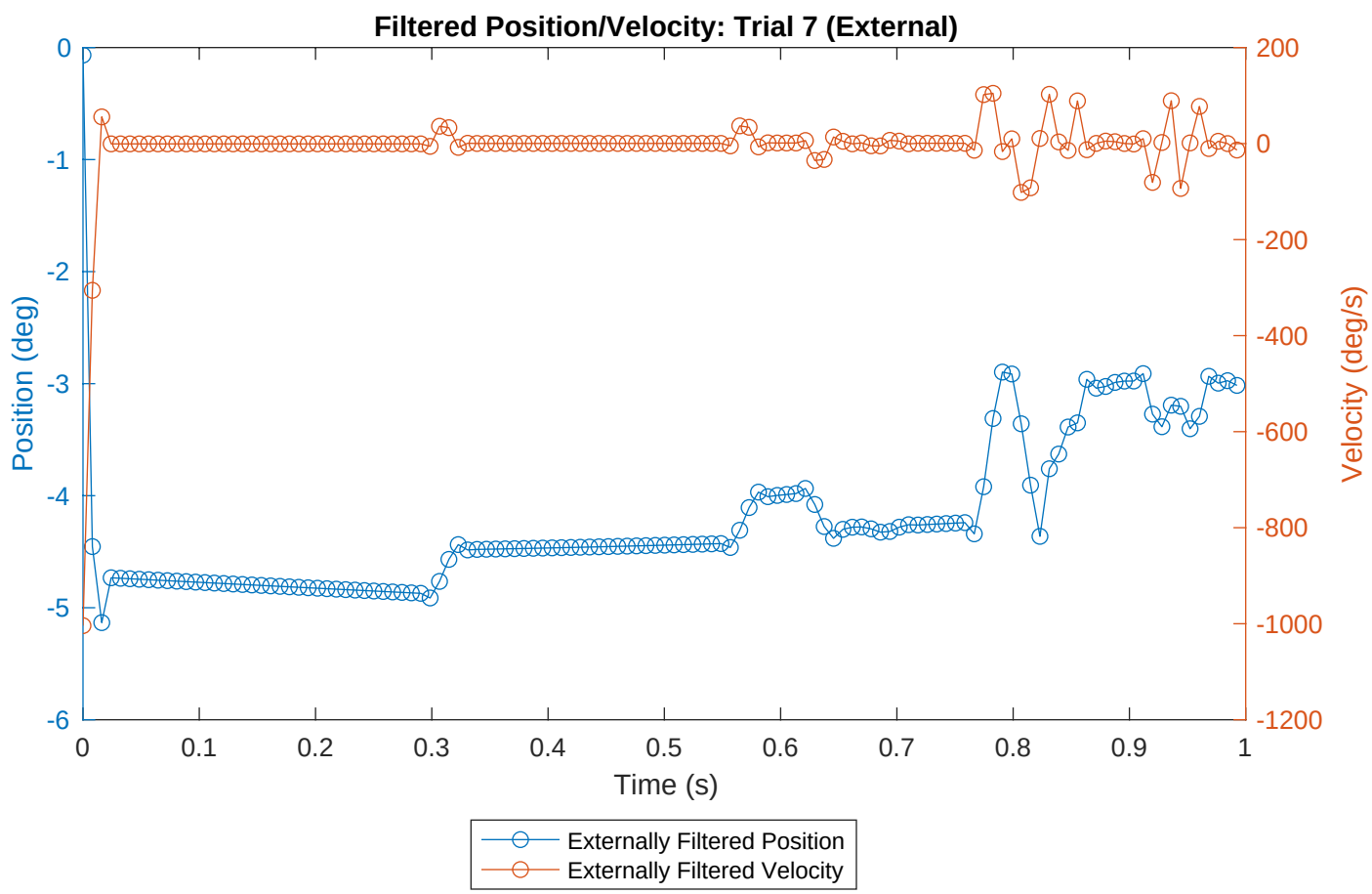

Position (deg)
Time (s)

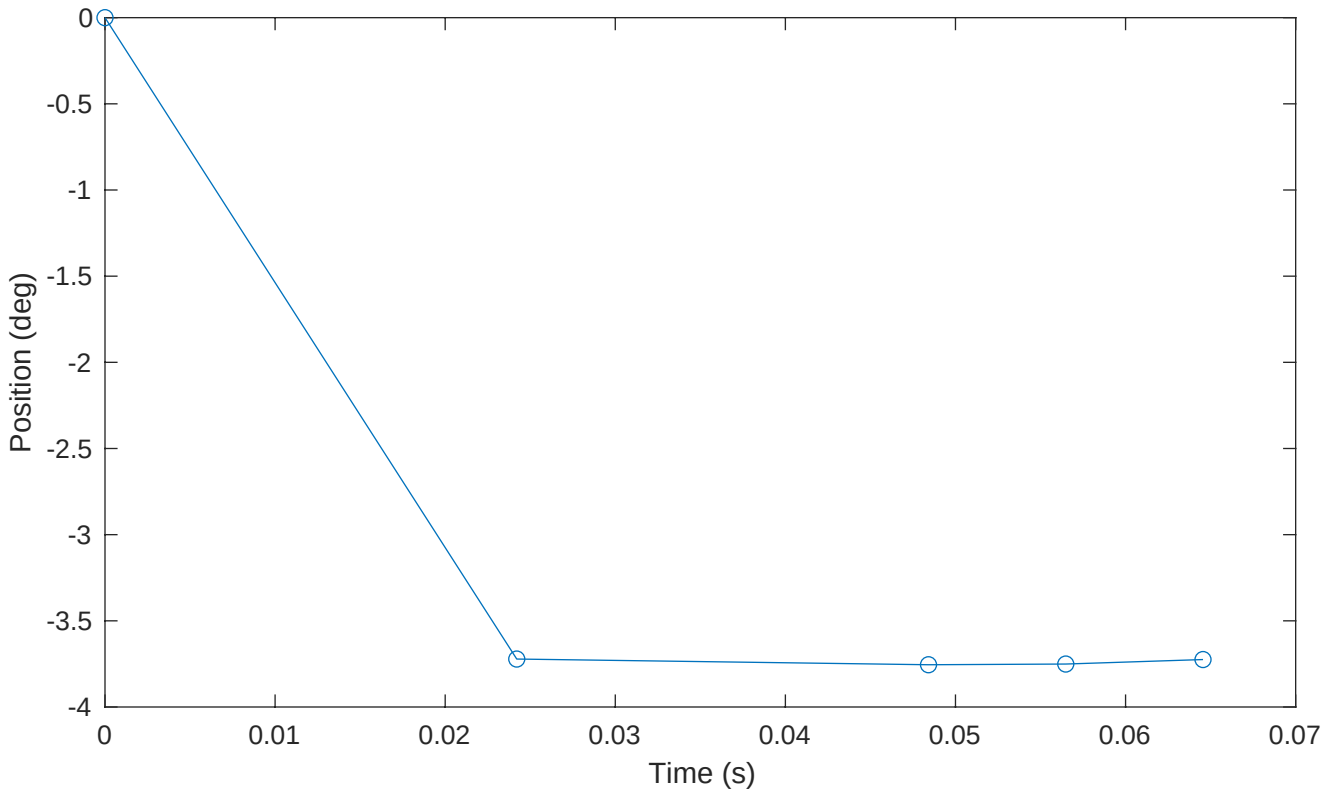

Filtered Position/Velocity: Trial 4 (External)
Position (deg)
Velocity (deg/s)
Time (s)
Externally Filtered Position
Externally Filtered Velocity

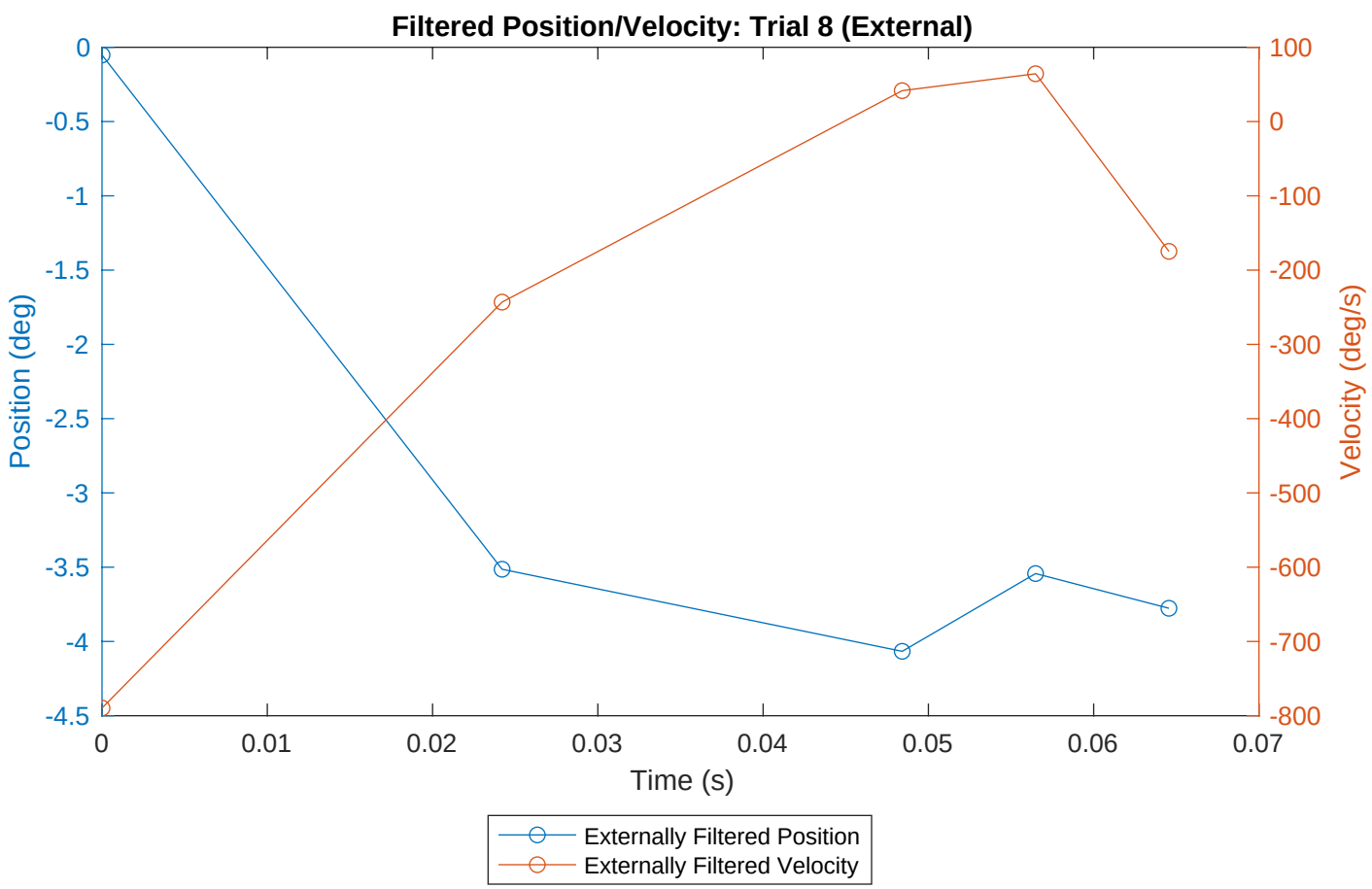

Position (deg)
Time (s)
0
-0.5
-1
-1.5
-2
-2.5
-3
0
0.1
0.2
0.3
0.4
0.5
0.6
0.7
0.8

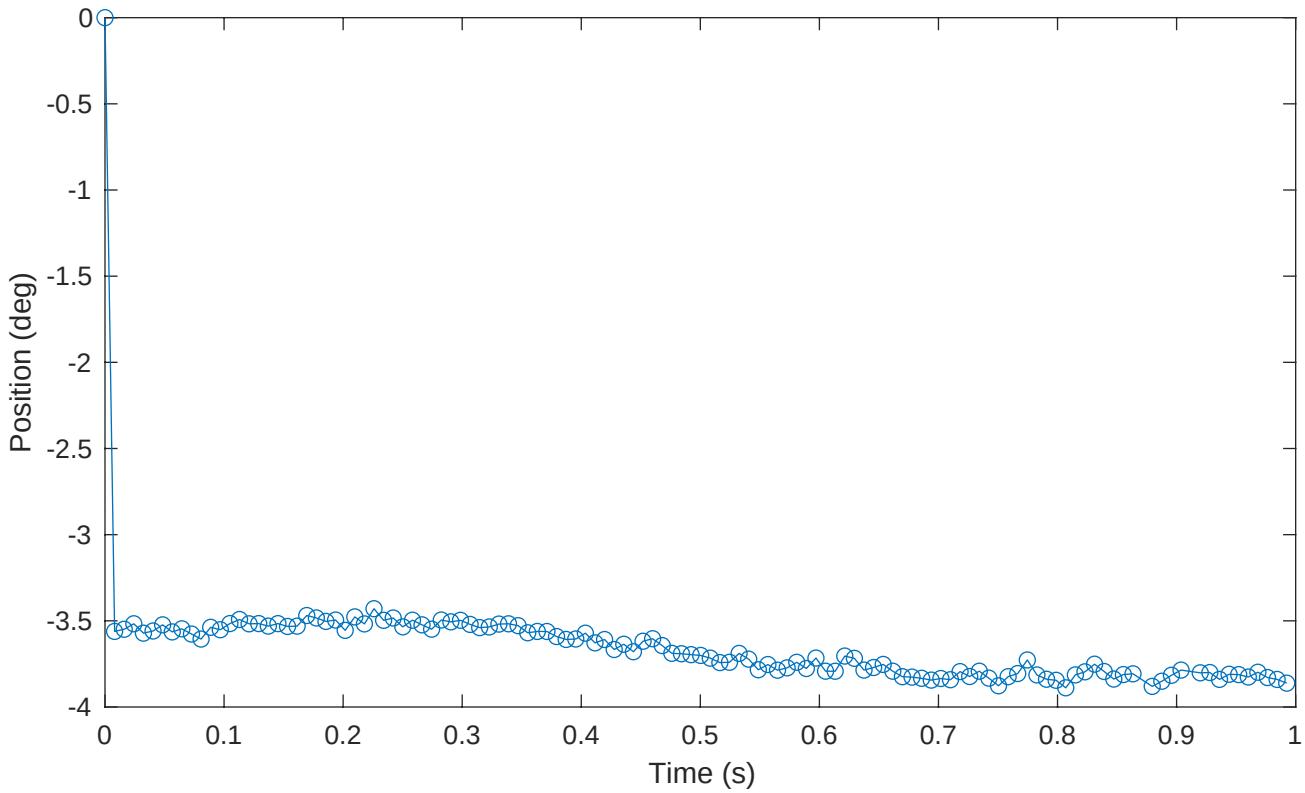

Filtered Position/Velocity: Trial 6 (External)
Position (deg)
Velocity (deg/s)
Time (s)
0
-0.5
-1
-1.5
-2
-2.5
-3
100
0
-100
-200
-300
-400
-500
-600
0
0.1
0.2
0.3
0.4
0.5
0.6
0.7
0.8
Externally Filtered Position
Externally Filtered Velocity

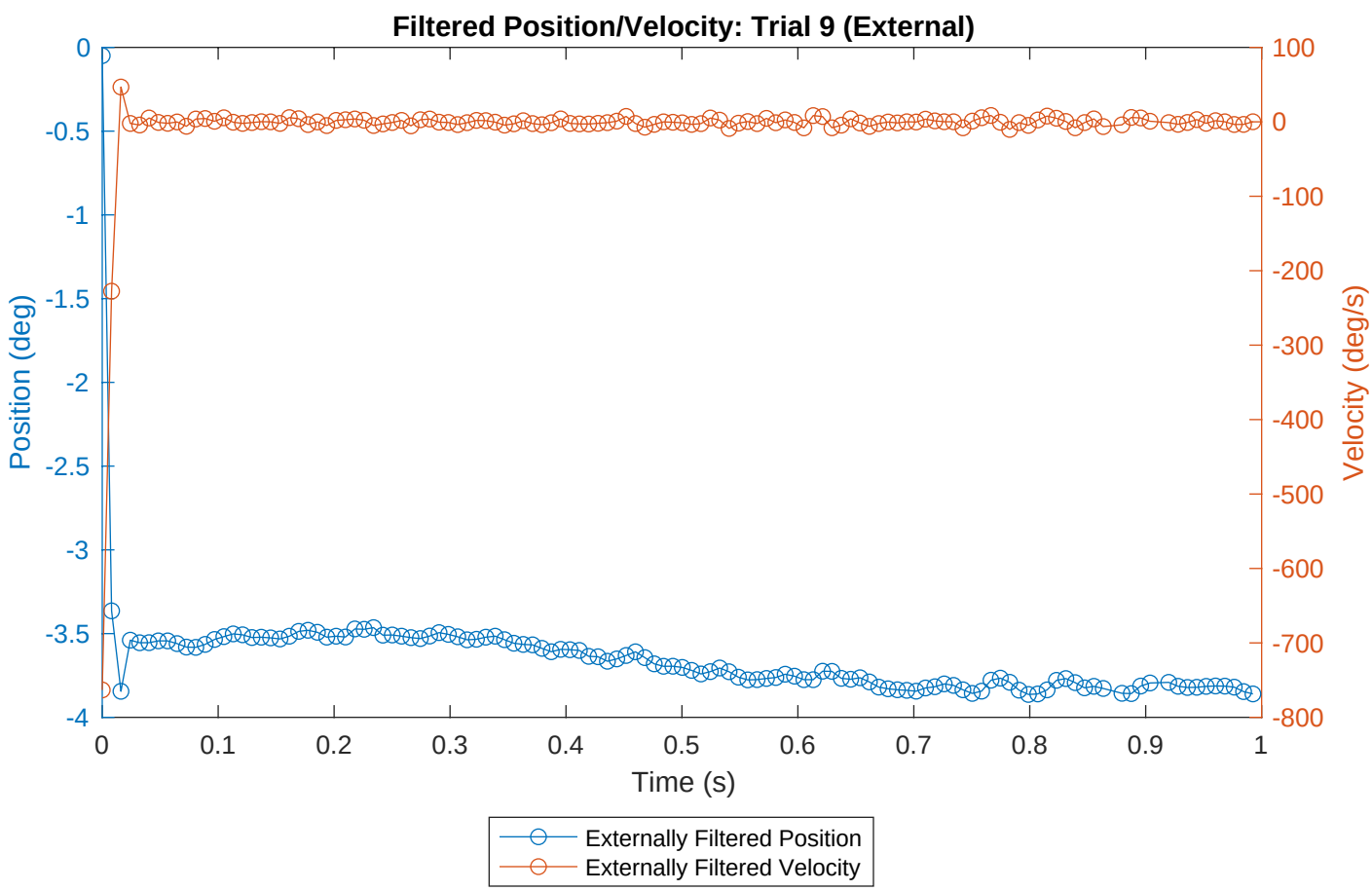

Position (deg)
Time (s)

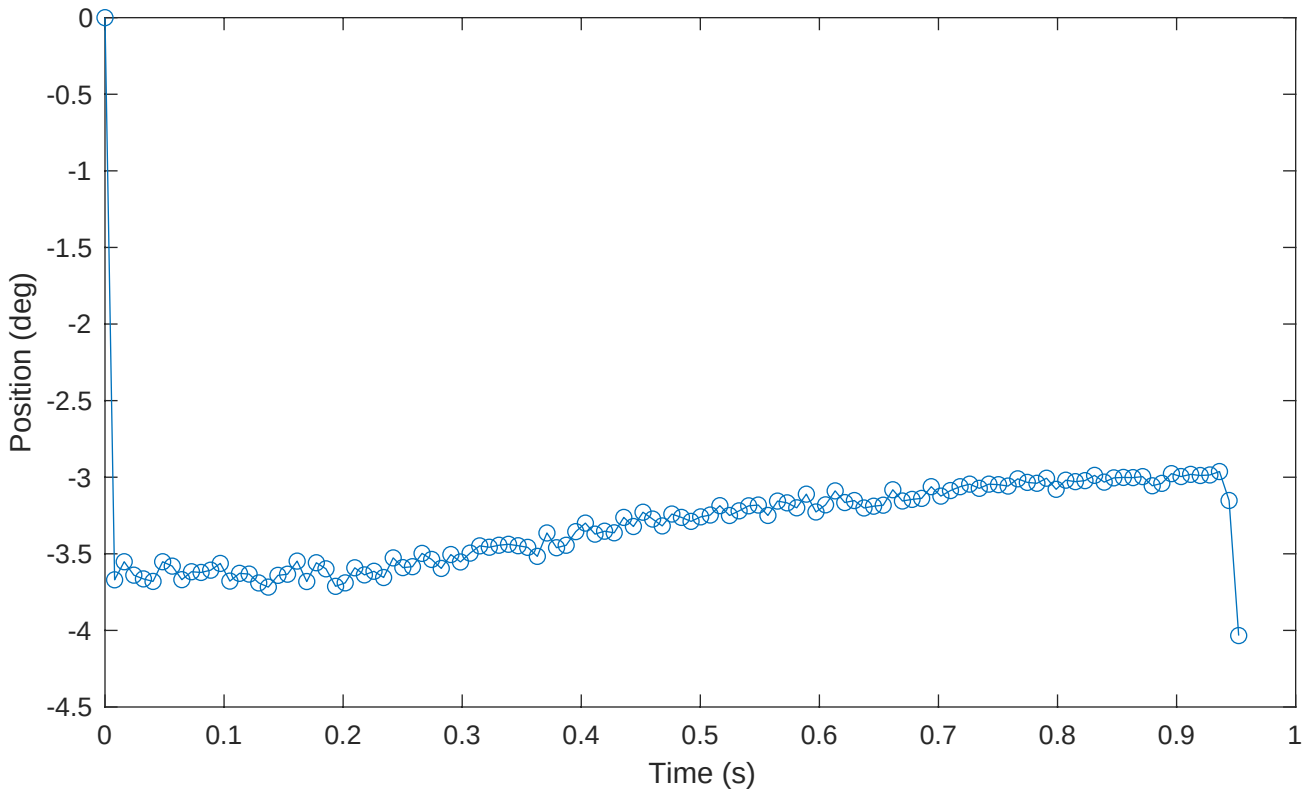

Filtered Position/Velocity: Trial 7 (External)
Position (deg)
Velocity (deg/s)
Time (s)
Externally Filtered Position
Externally Filtered Velocity

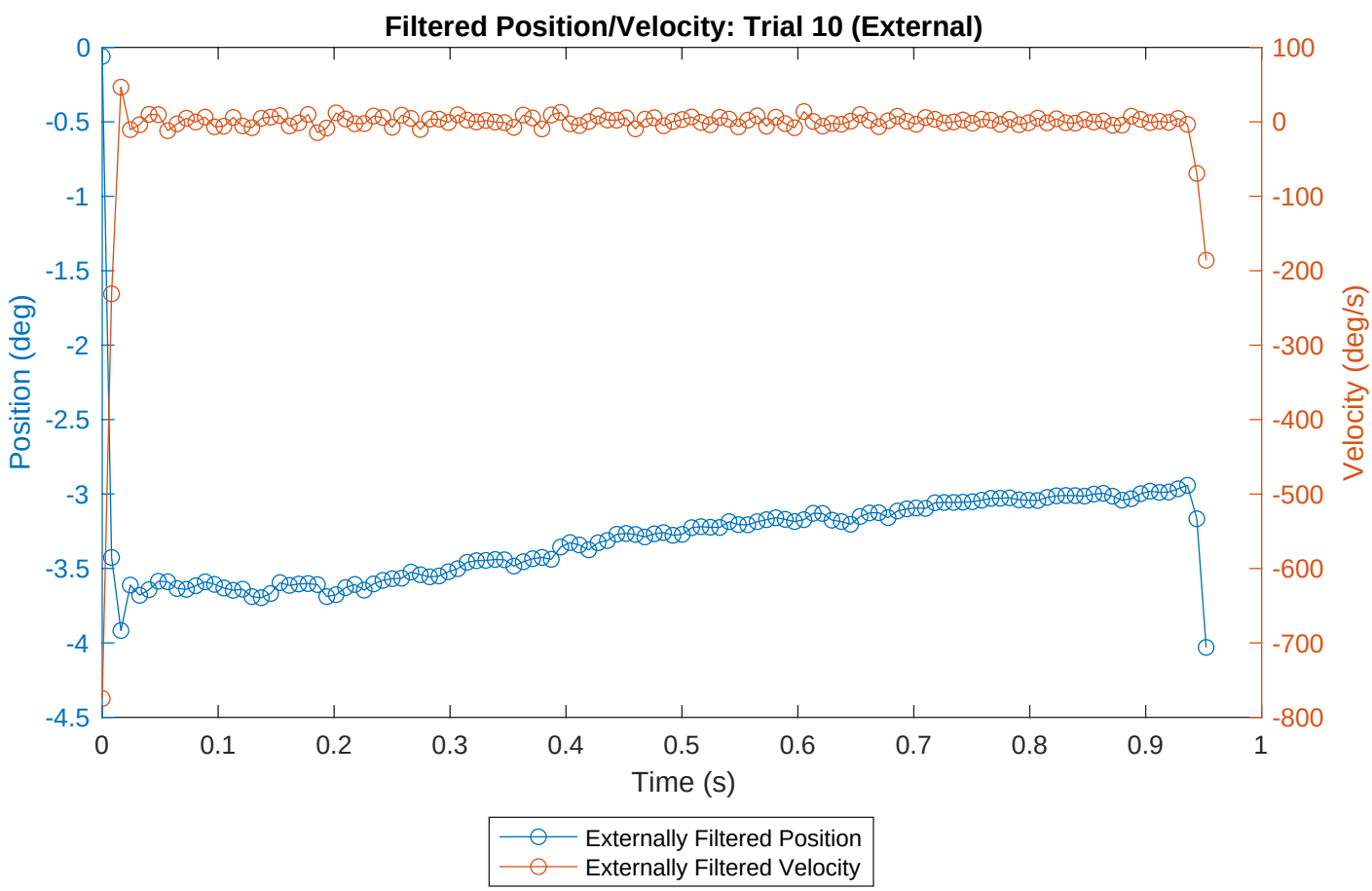

0
-0.5
-1
-1.5
-2
-2.5
-3
-3.5
-4
Position (deg)
0
0.01
0.02
0.03
0.04
0.05
0.06
0.07
Time (s)

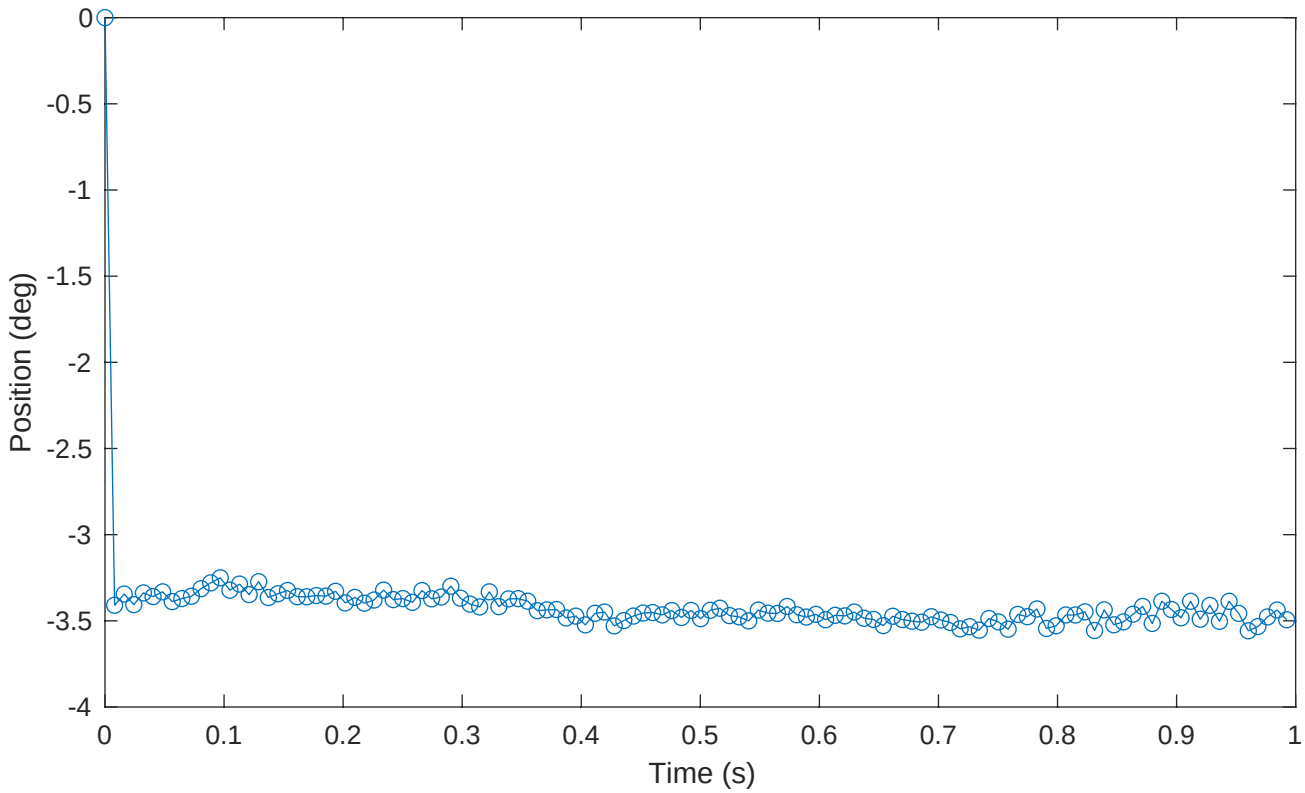

Filtered Position/Velocity: Trial 8 (External)
0
-0.5
-1
-1.5
-2
-2.5
-3
-3.5
-4
-4.5
Position (deg)
100
0
-100
-200
-300
-400
-500
-600
-700
-800
Velocity (deg/s)
0
0.01
0.02
0.03
0.04
0.05
0.06
0.07
Time (s)
Externally Filtered Position
Externally Filtered Velocity

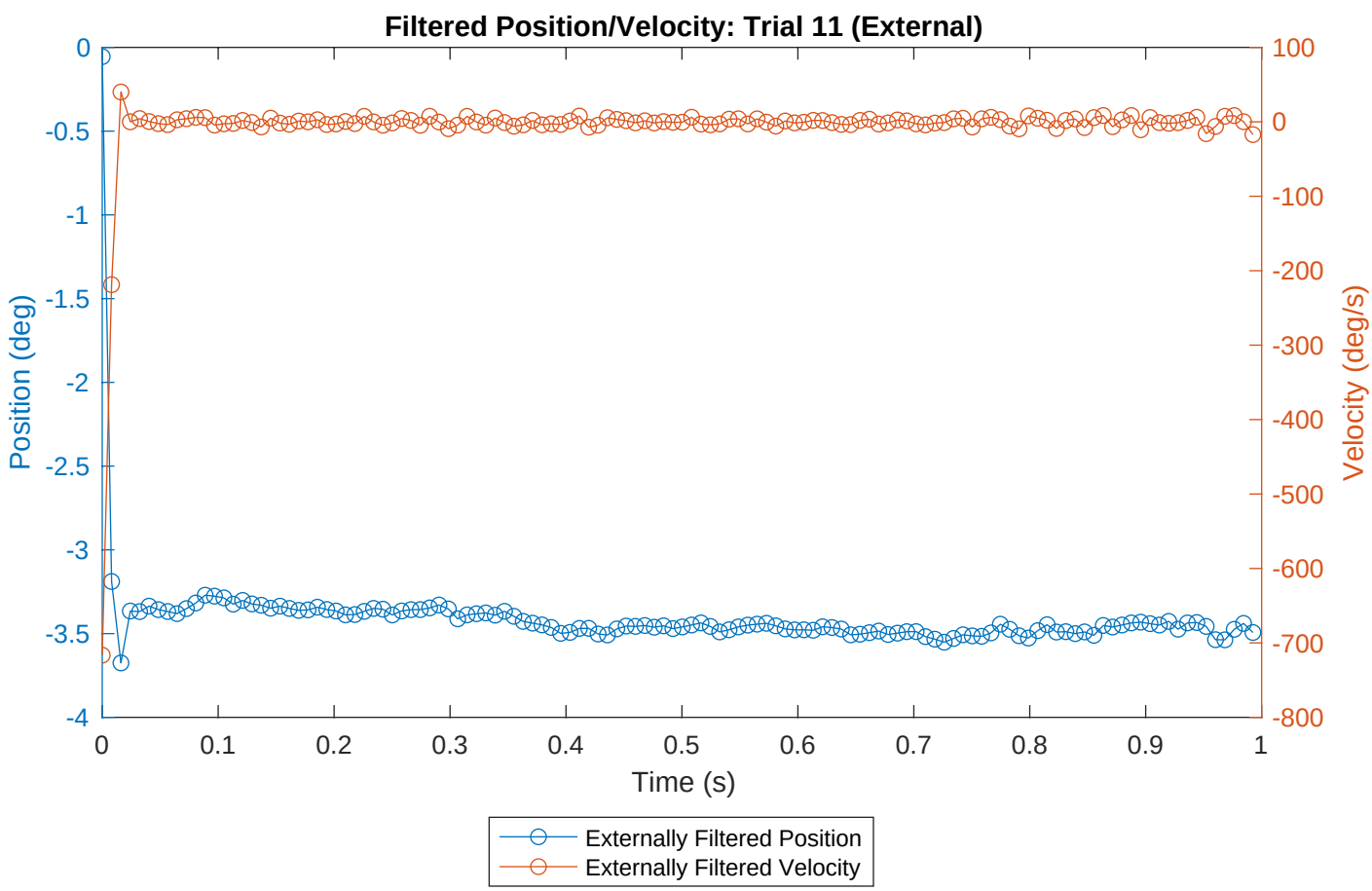

Position (deg)
Time (s)
0
-0.5
-1
-1.5
-2
-2.5
-3
-3.5
-4
0
0.1
0.2
0.3
0.4
0.5
0.6
0.7
0.8
0.9
1

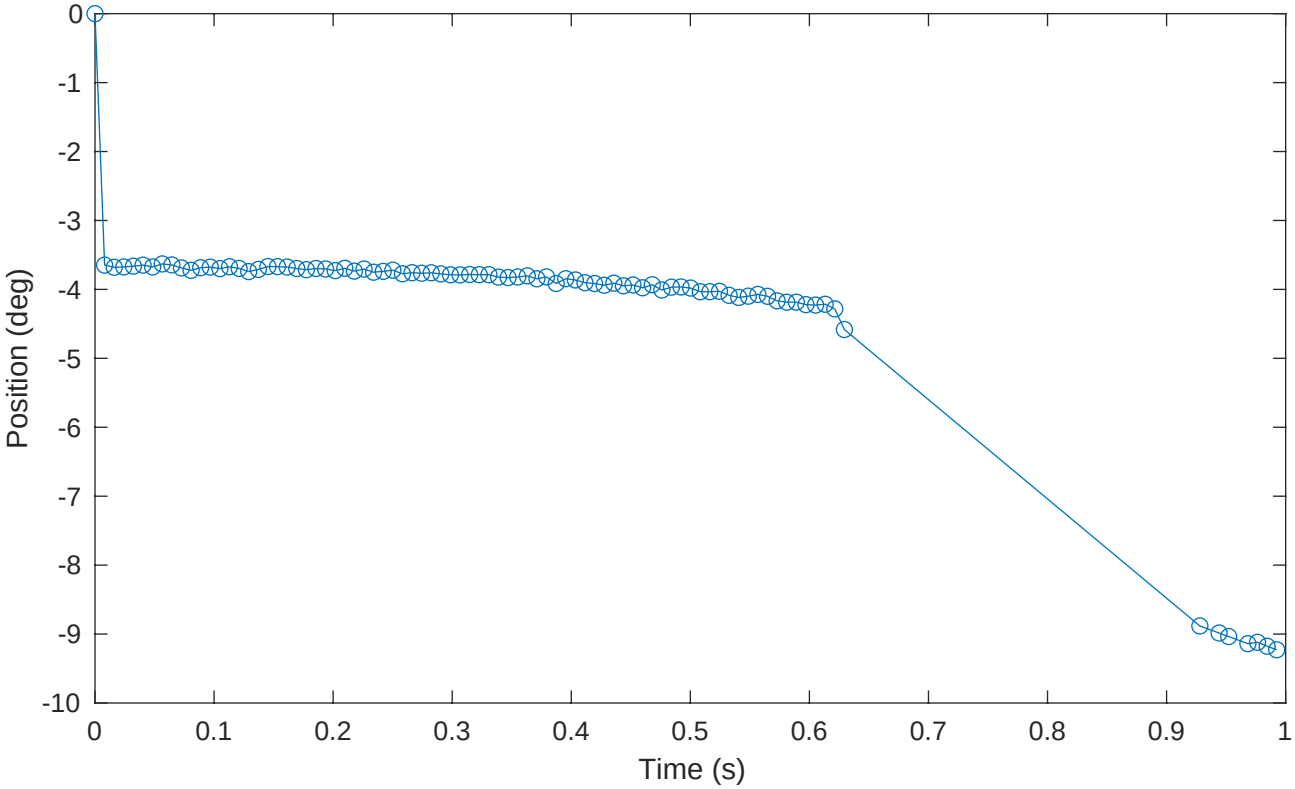

Filtered Position/Velocity: Trial 9 (External)
Position (deg)
Velocity (deg/s)
Time (s)
0
-0.5
-1
-1.5
-2
-2.5
-3
-3.5
-4
100
0
-100
-200
-300
-400
-500
-600
-700
-800
0
0.1
0.2
0.3
0.4
0.5
0.6
0.7
0.8
0.9
1
Externally Filtered Position
Externally Filtered Velocity

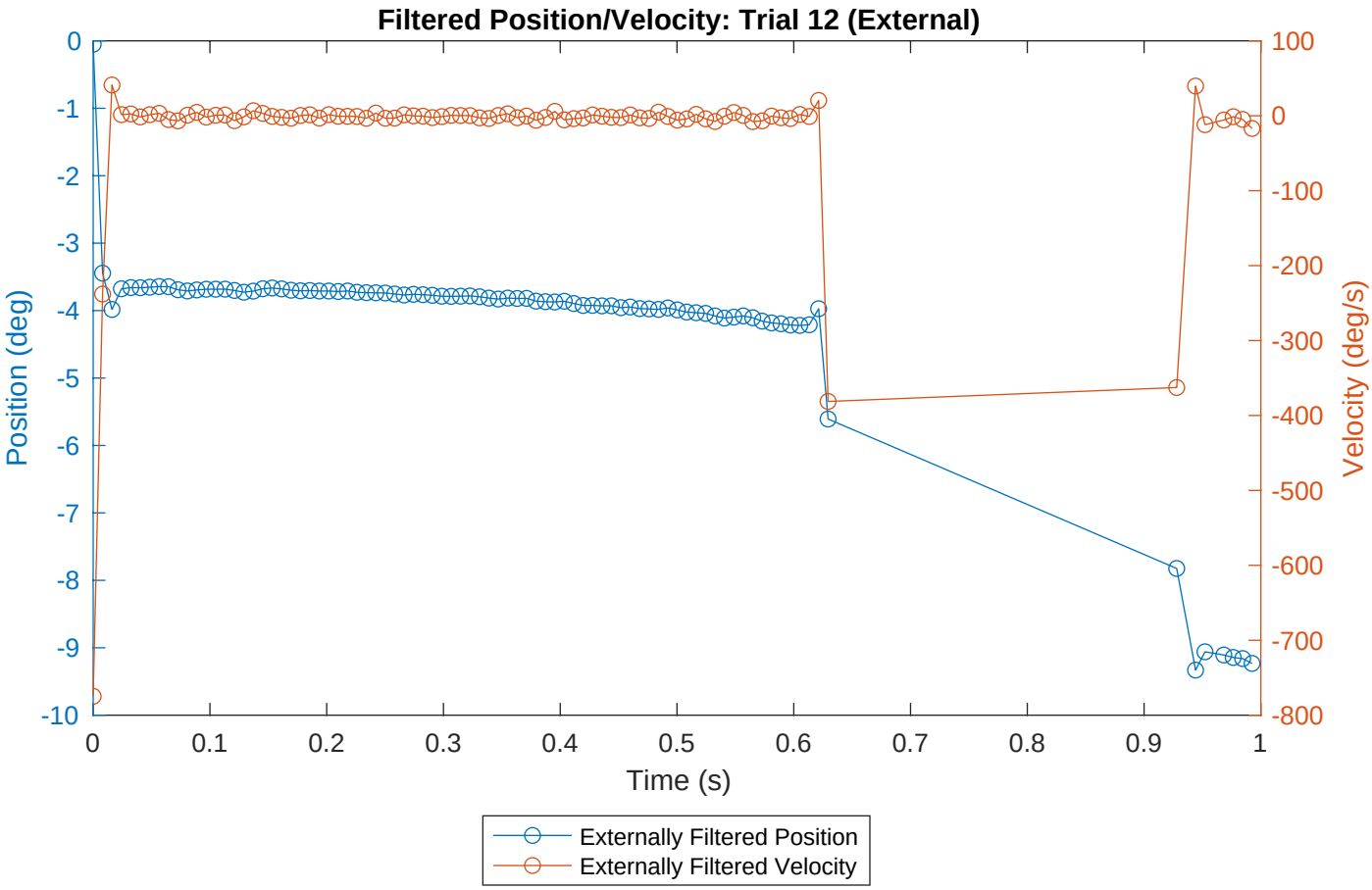

Position (deg)
Time (s)
0
-0.5
-1
-1.5
-2
-2.5
-3
-3.5
-4
-4.5
0
0.1
0.2
0.3
0.4
0.5
0.6
0.7
0.8
0.9
1

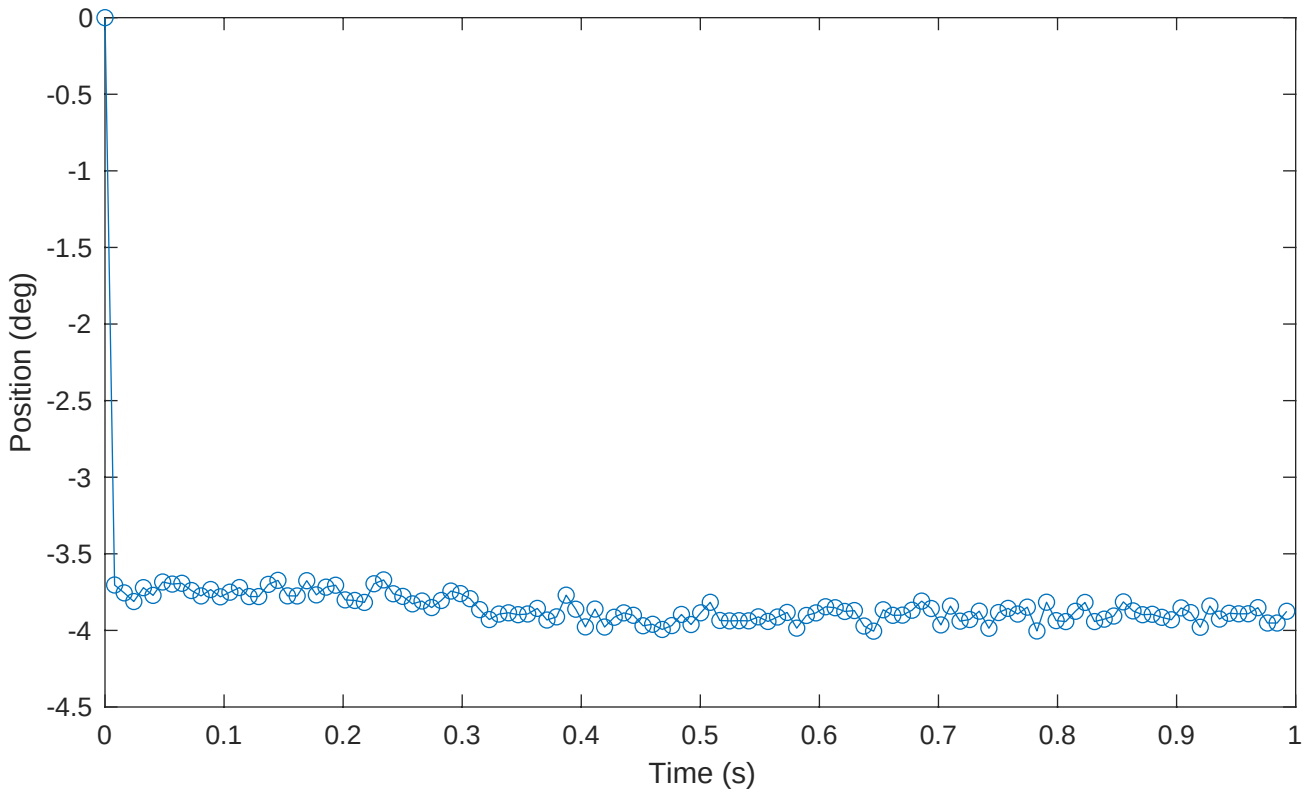

Filtered Position/Velocity: Trial 10 (External)
Position (deg)
Velocity (deg/s)
Time (s)
0
-0.5
-1
-1.5
-2
-2.5
-3
-3.5
-4
-4.5
100
0
-100
-200
-300
-400
-500
-600
-700
-800
0
0.1
0.2
0.3
0.4
0.5
0.6
0.7
0.8
0.9
1
Externally Filtered Position
Externally Filtered Velocity

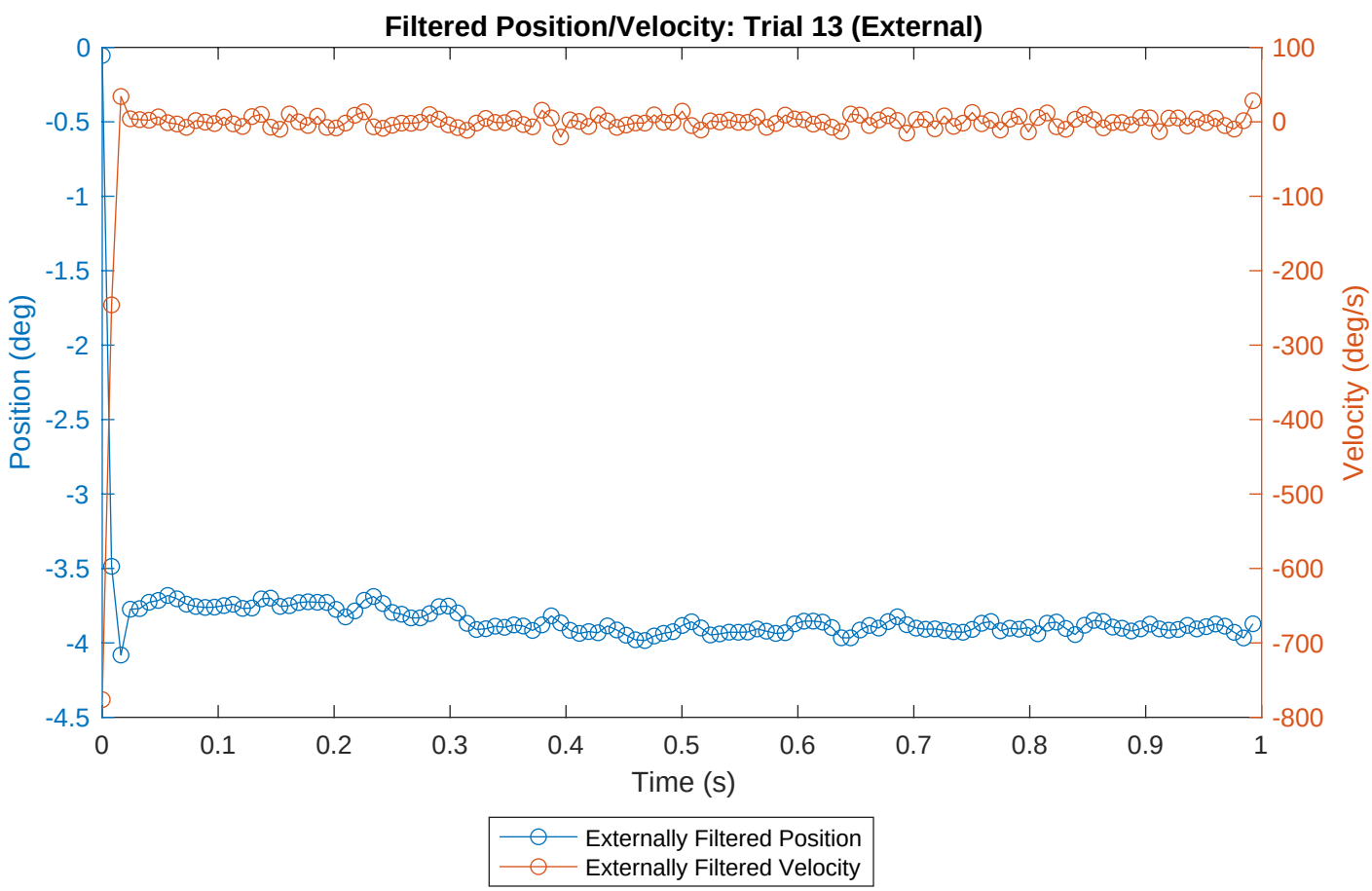

0
-0.5
-1
-1.5
-2
-2.5
-3
-3.5
-4
Position (deg)
0
0.1
0.2
0.3
0.4
0.5
0.6
0.7
0.8
0.9
1
Time (s)

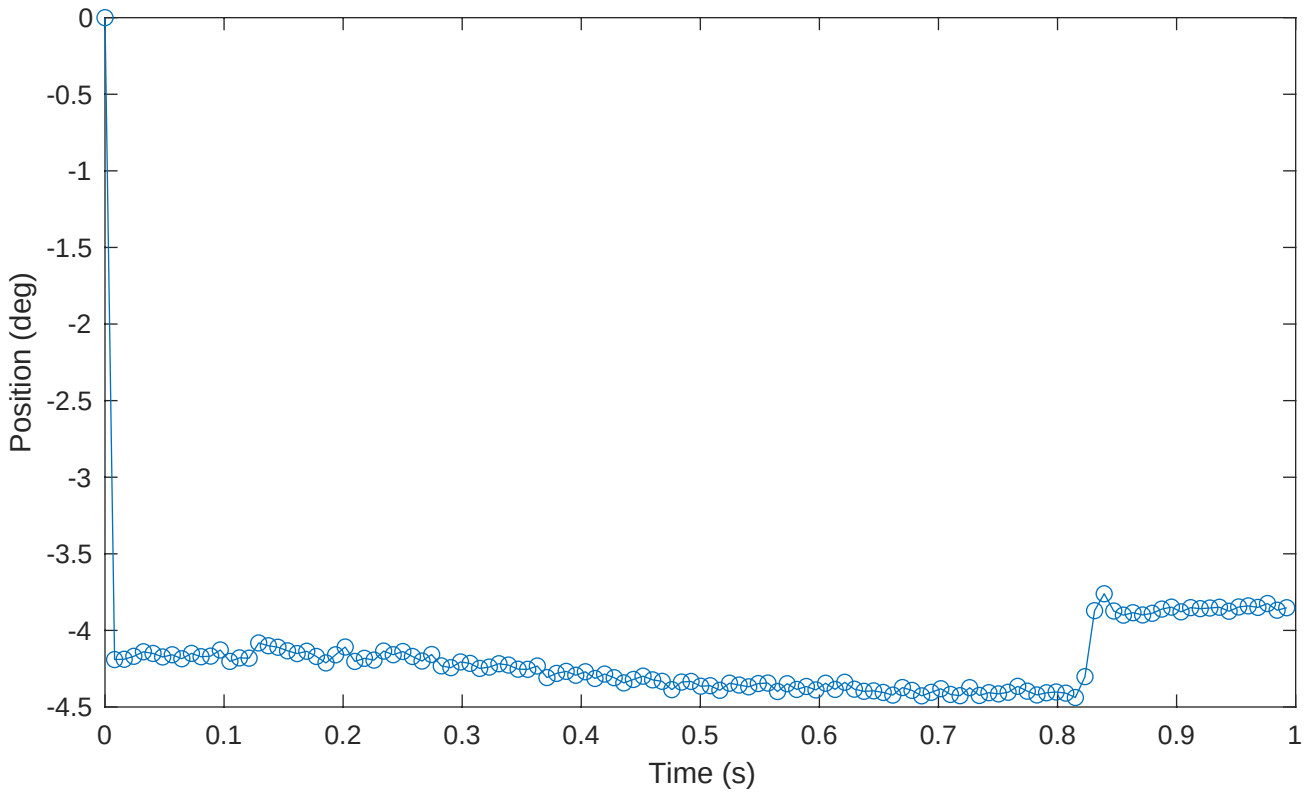

Filtered Position/Velocity: Trial 11 (External)
0
-0.5
-1
-1.5
-2
-2.5
-3
-3.5
-4
Position (deg)
100
0
-100
-200
-300
-400
-500
-600
-700
-800
Velocity (deg/s)
0
0.1
0.2
0.3
0.4
0.5
0.6
0.7
0.8
0.9
1
Time (s)
Externally Filtered Position
Externally Filtered Velocity

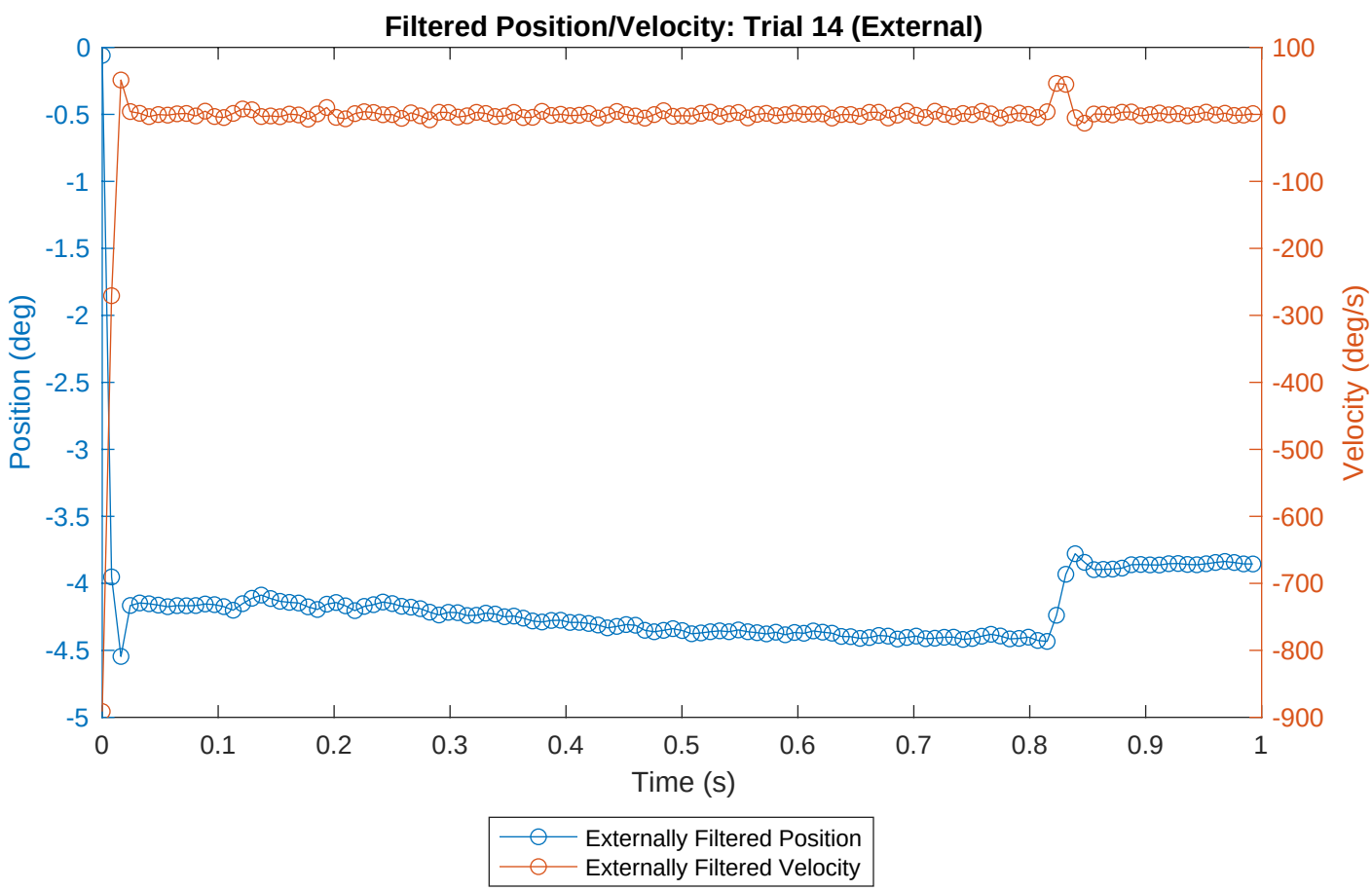

Position (deg)
Time (s)

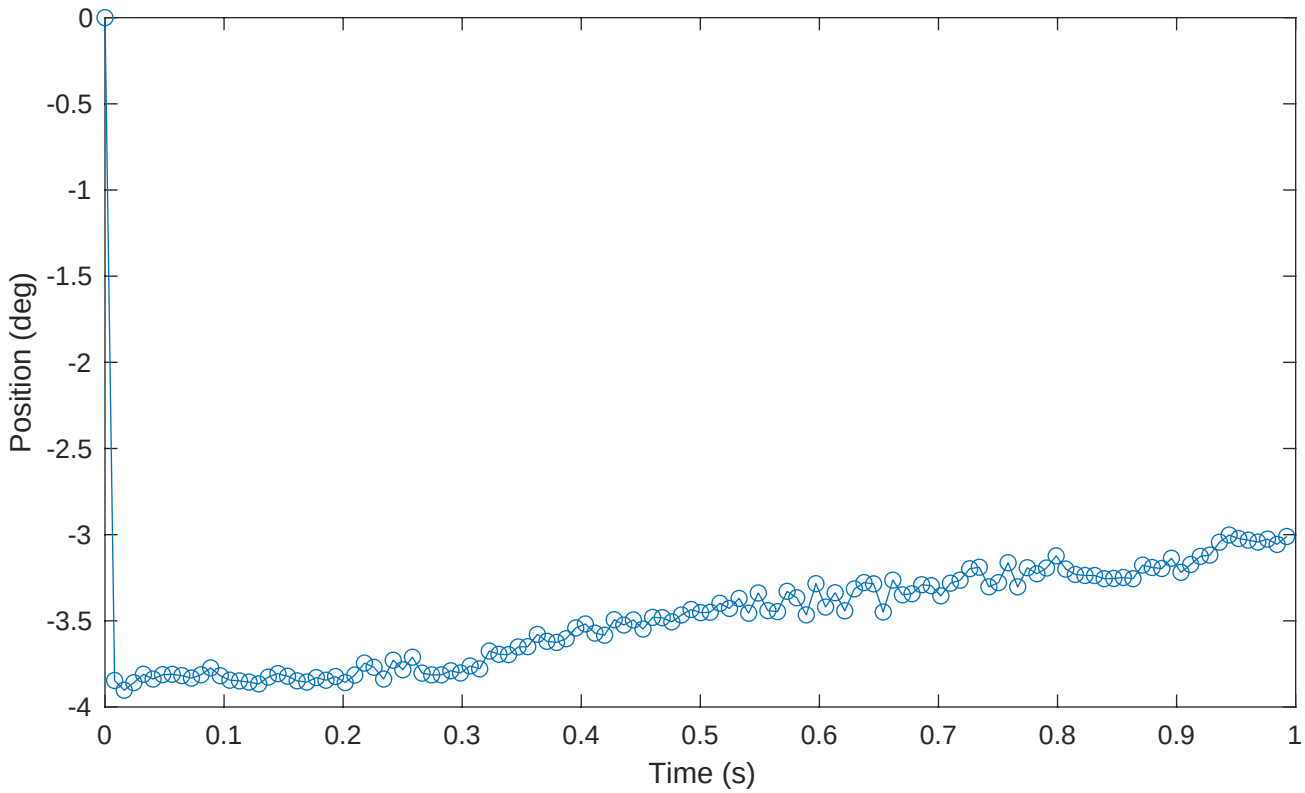

Filtered Position/Velocity: Trial 12 (External)
Position (deg)
Velocity (deg/s)
Time (s)
Externally Filtered Position
Externally Filtered Velocity

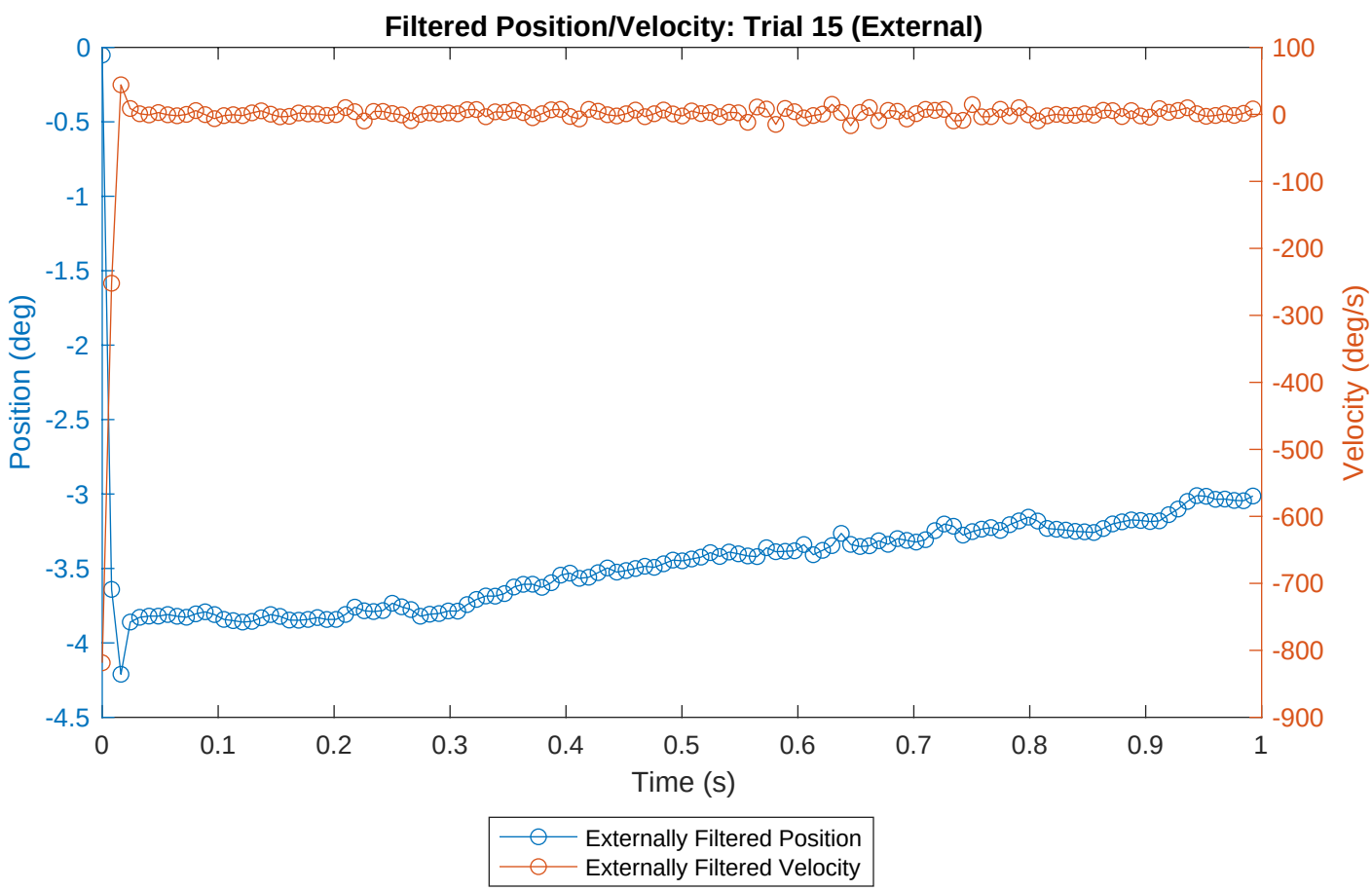

Position (deg)
Time (s)

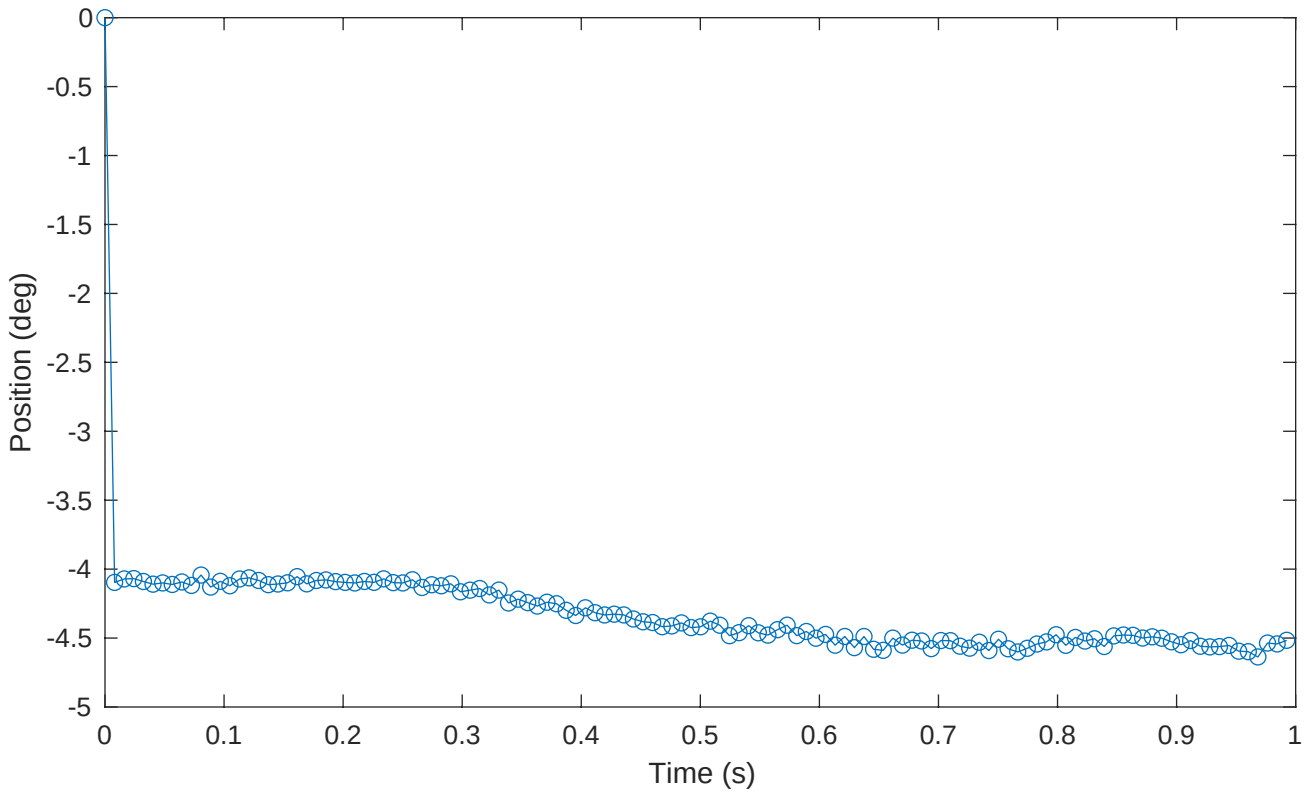

Filtered Position/Velocity: Trial 13 (External)
Position (deg)
Velocity (deg/s)
Time (s)
Externally Filtered Position
Externally Filtered Velocity

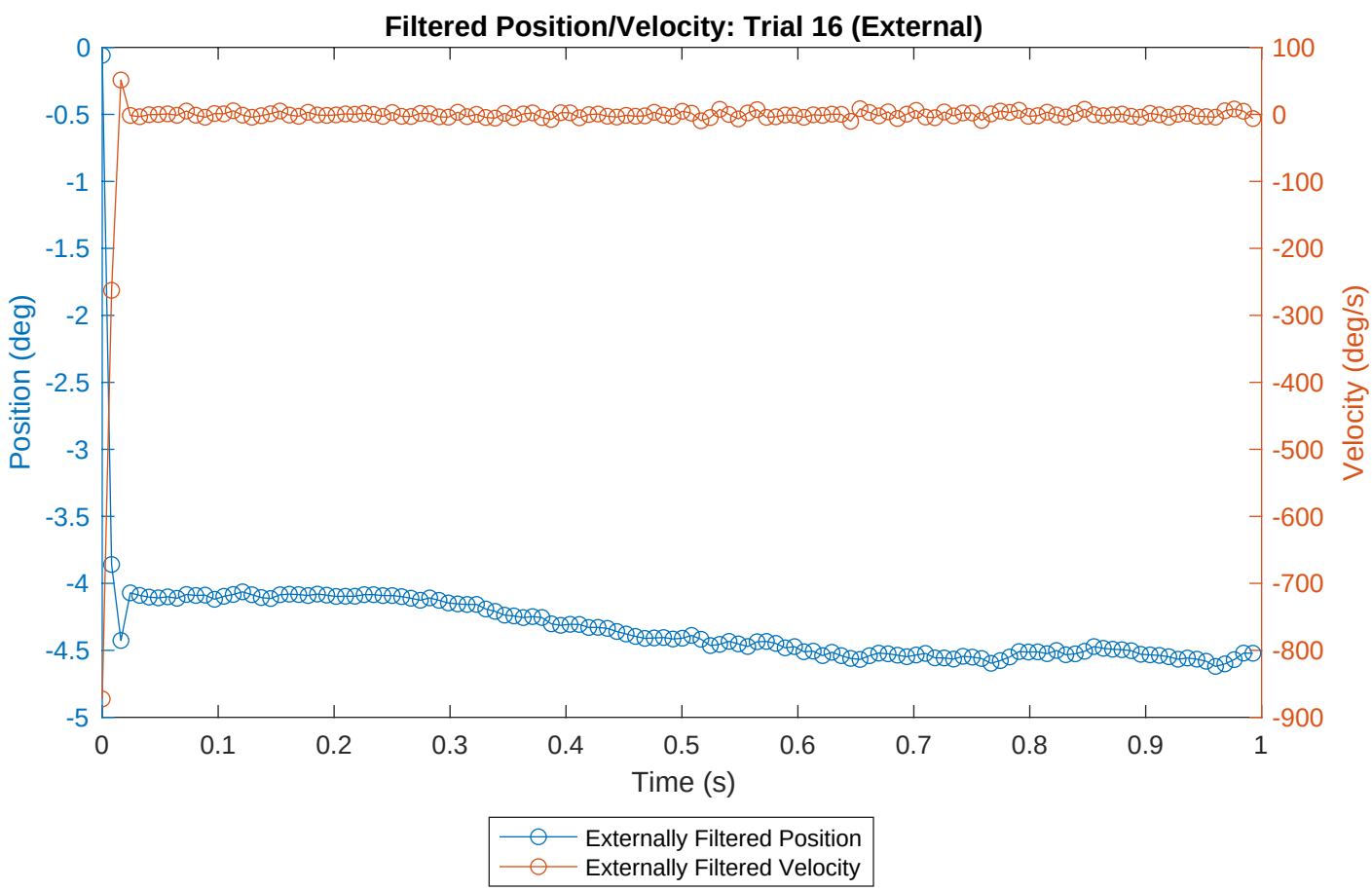

Position (deg)
Time (s)

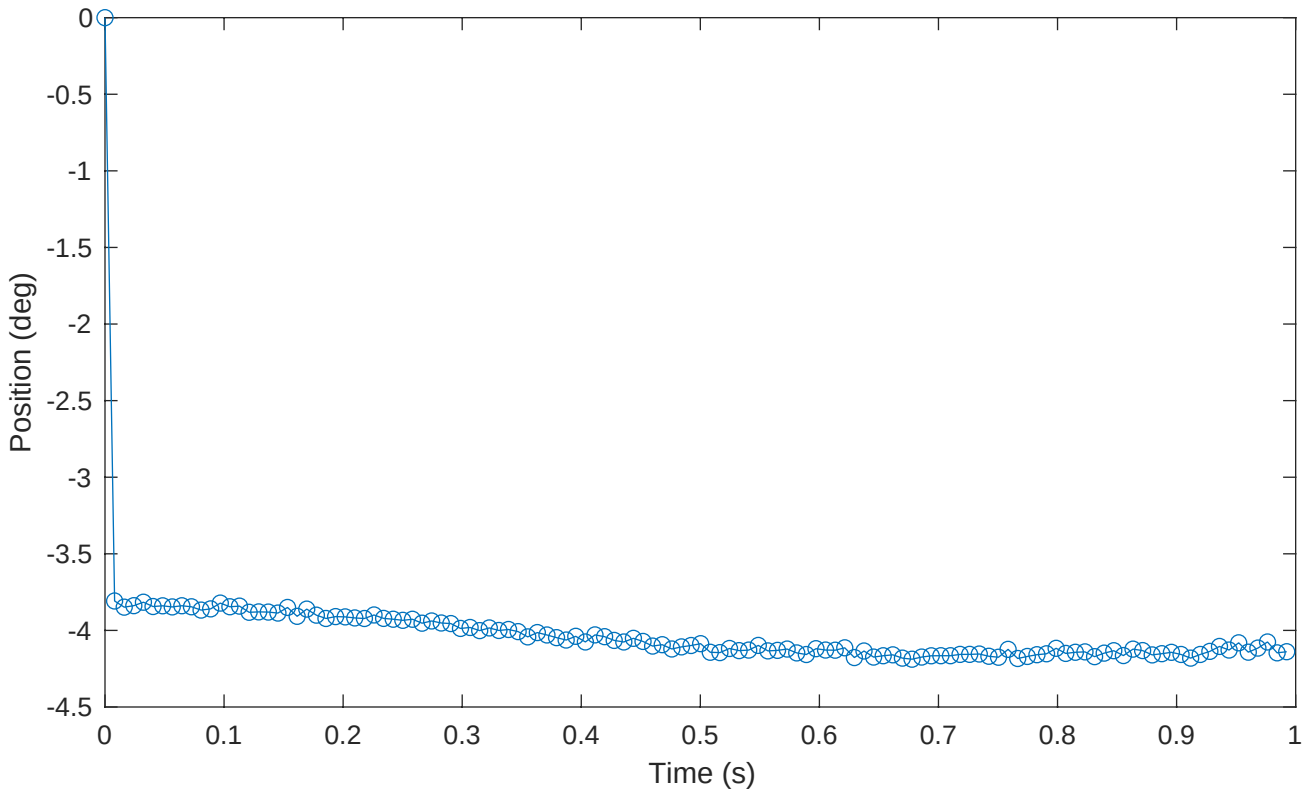

Filtered Position/Velocity: Trial 14 (External)
Position (deg)
Velocity (deg/s)
Time (s)
Externally Filtered Position
Externally Filtered Velocity

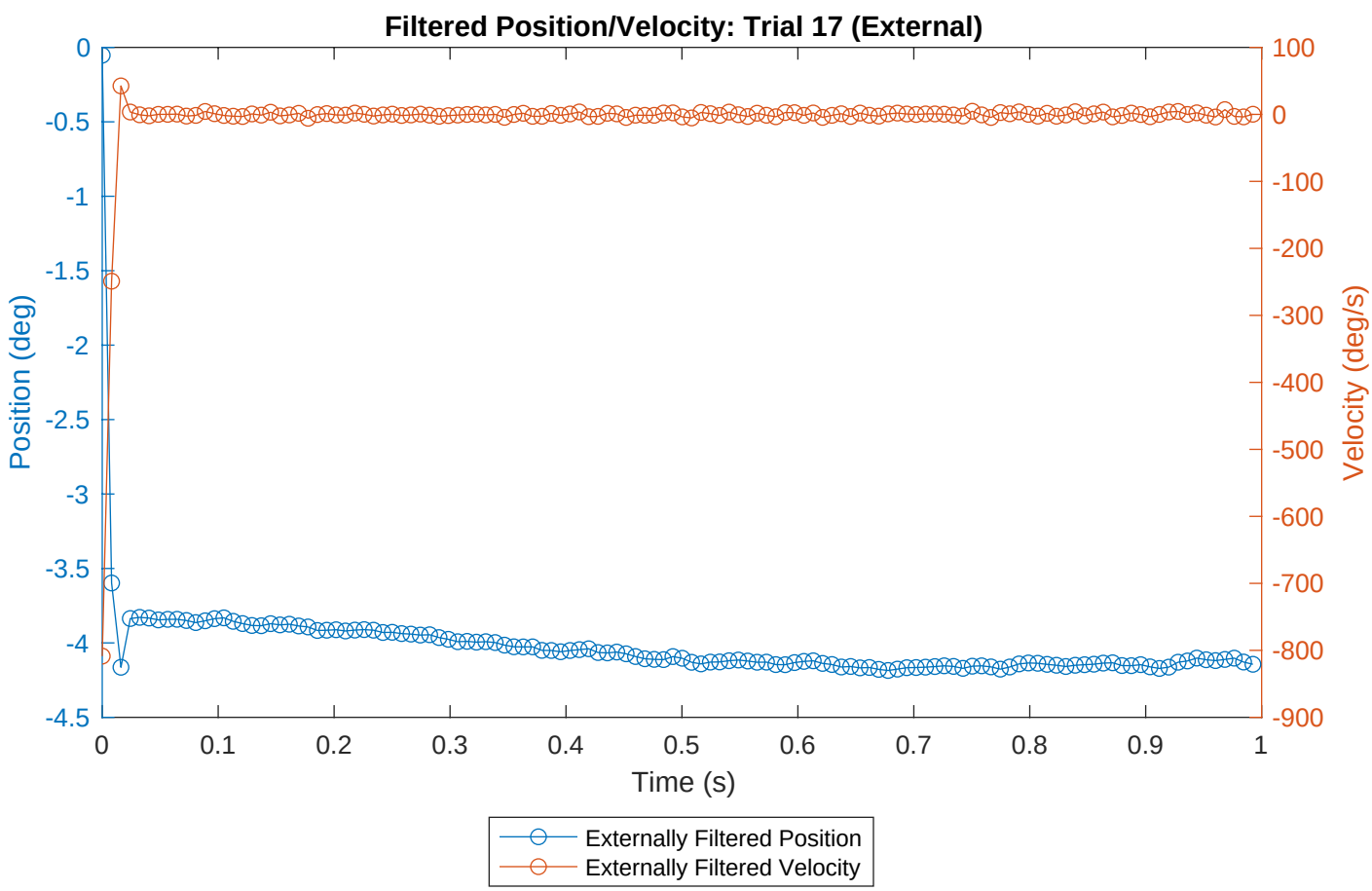

Position (deg)
Time (s)

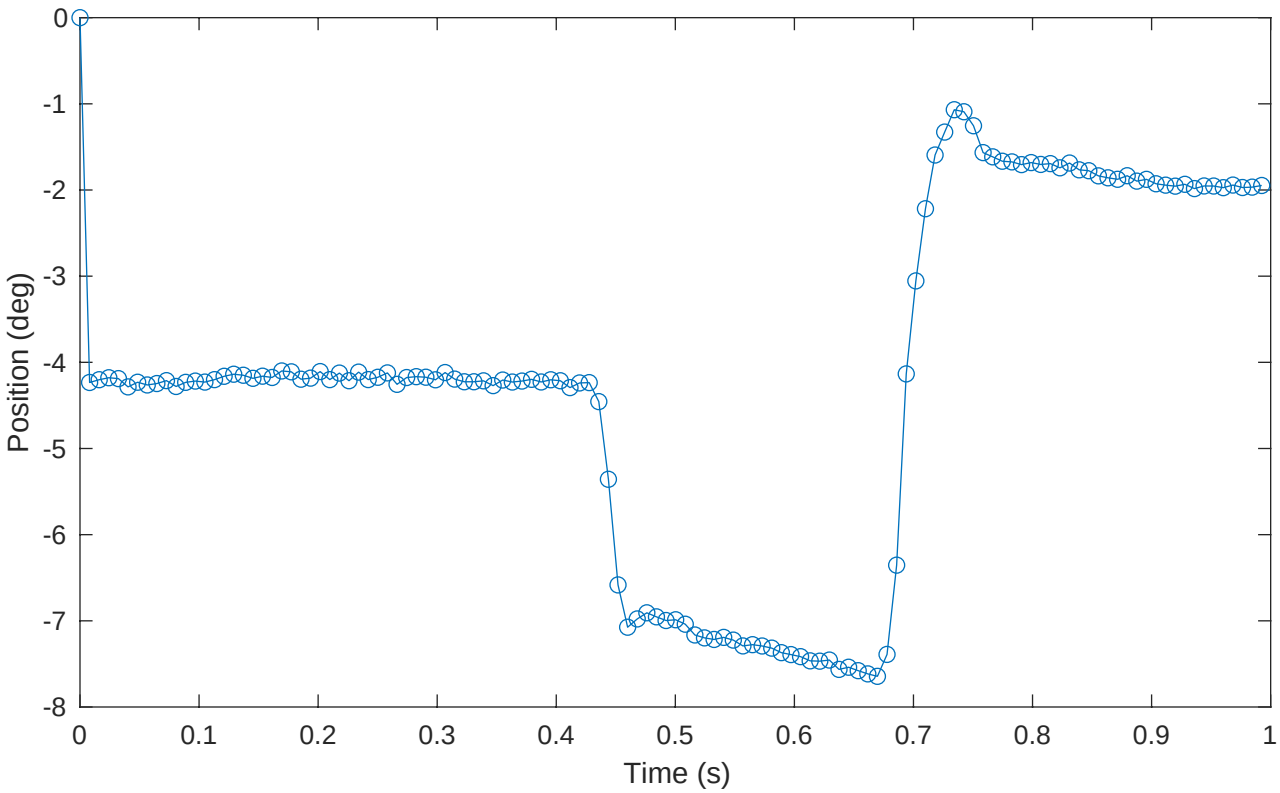

Filtered Position/Velocity: Trial 15 (External)
Position (deg)
Velocity (deg/s)
Time (s)
Externally Filtered Position
Externally Filtered Velocity

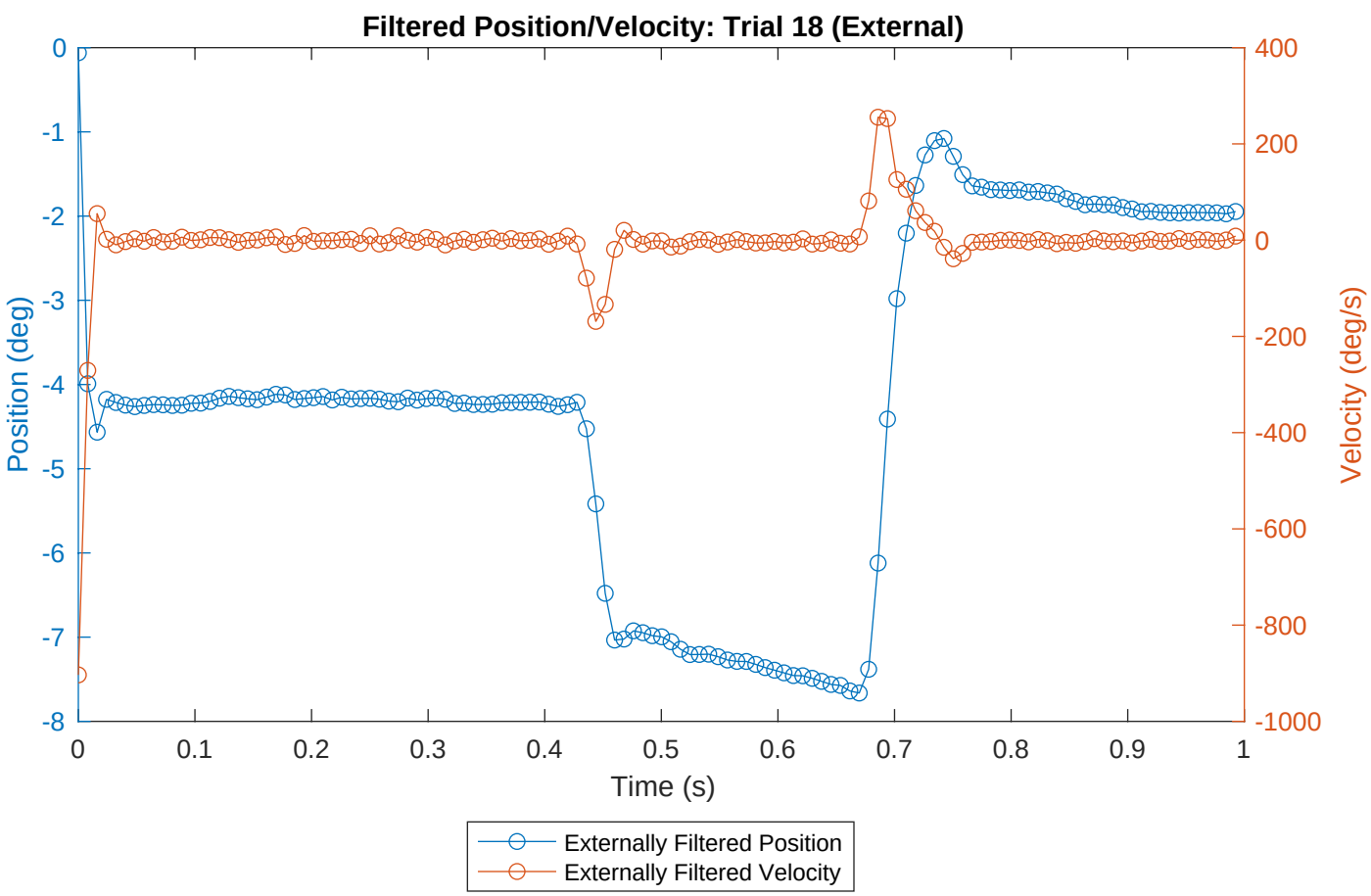

Position (deg)
Time (s)

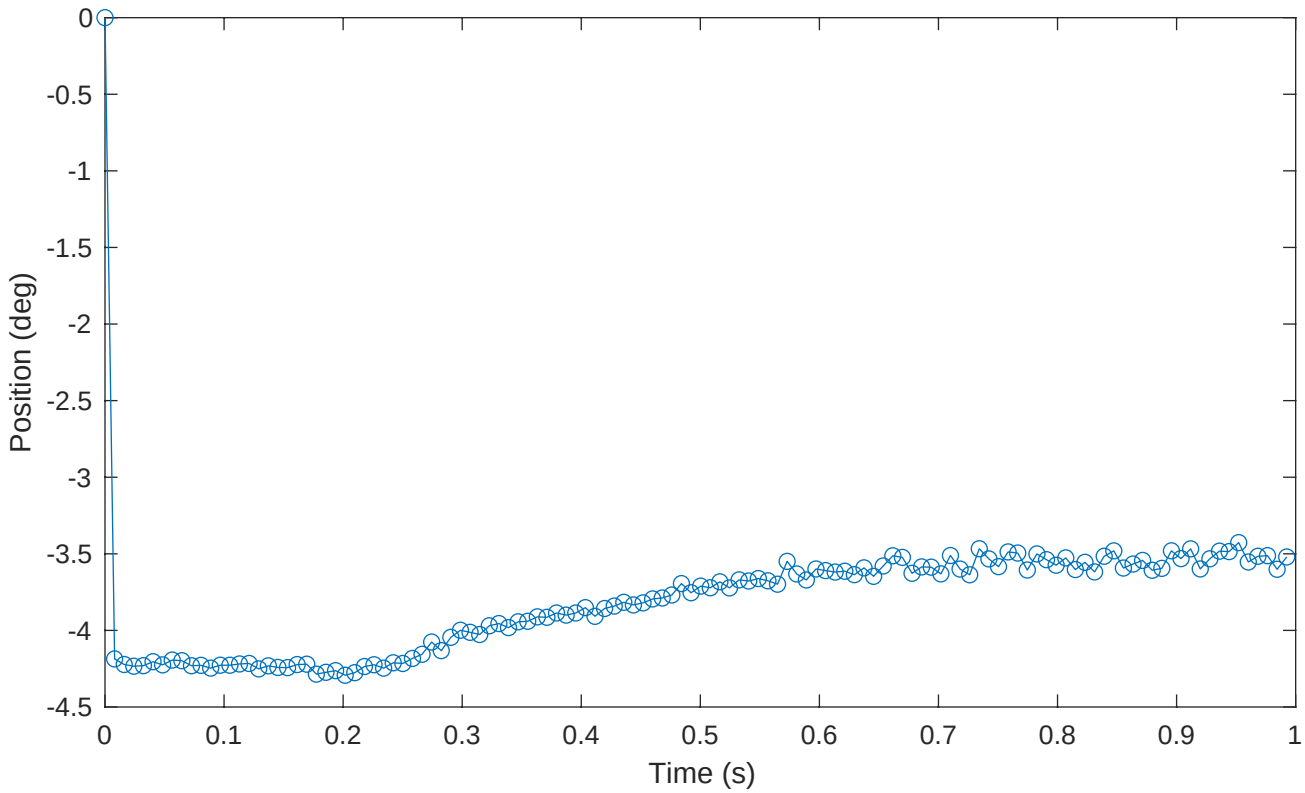

Filtered Position/Velocity: Trial 16 (External)
Position (deg)
Velocity (deg/s)
Time (s)
Externally Filtered Position
Externally Filtered Velocity

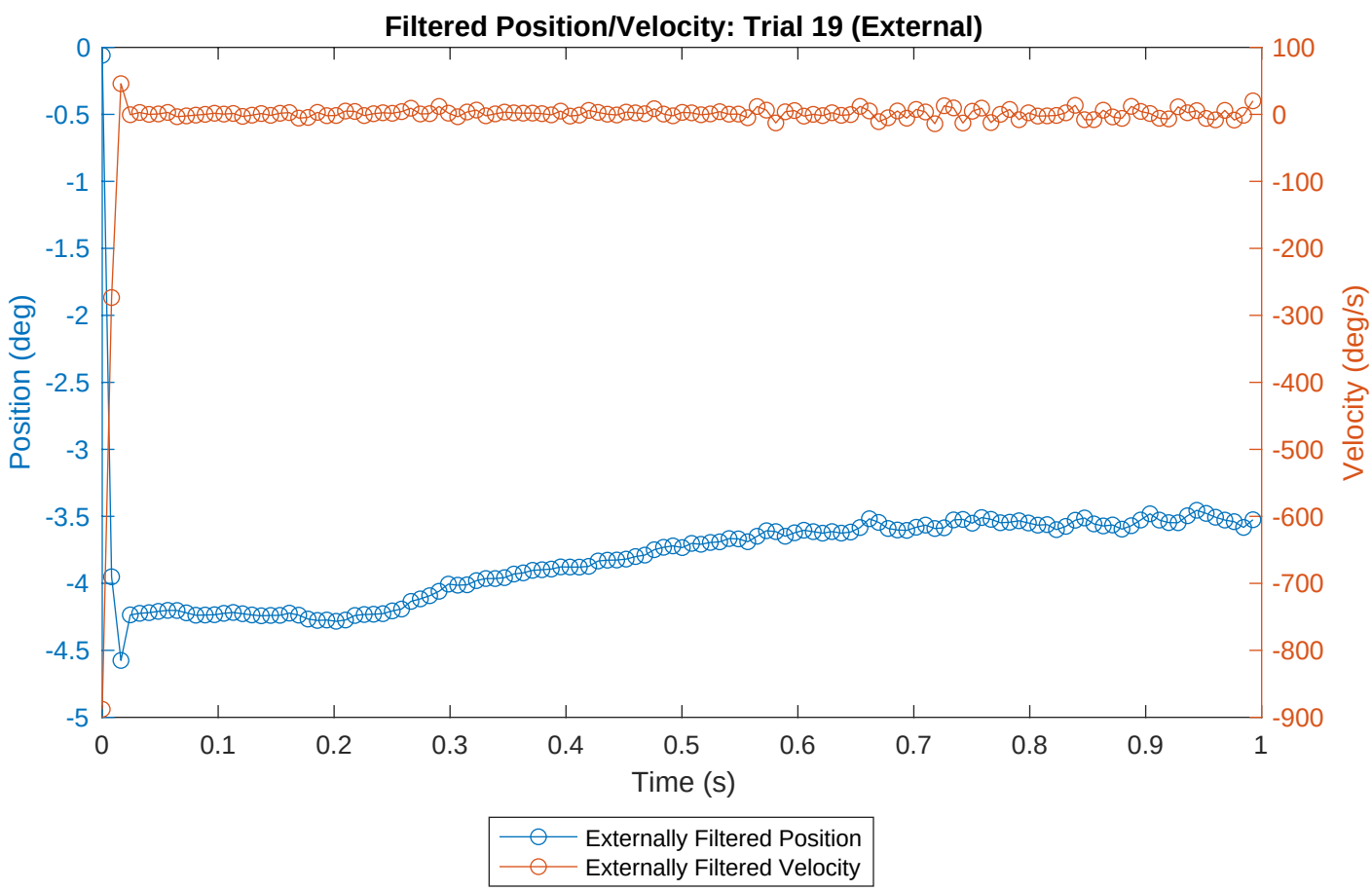

Position (deg)
Time (s)

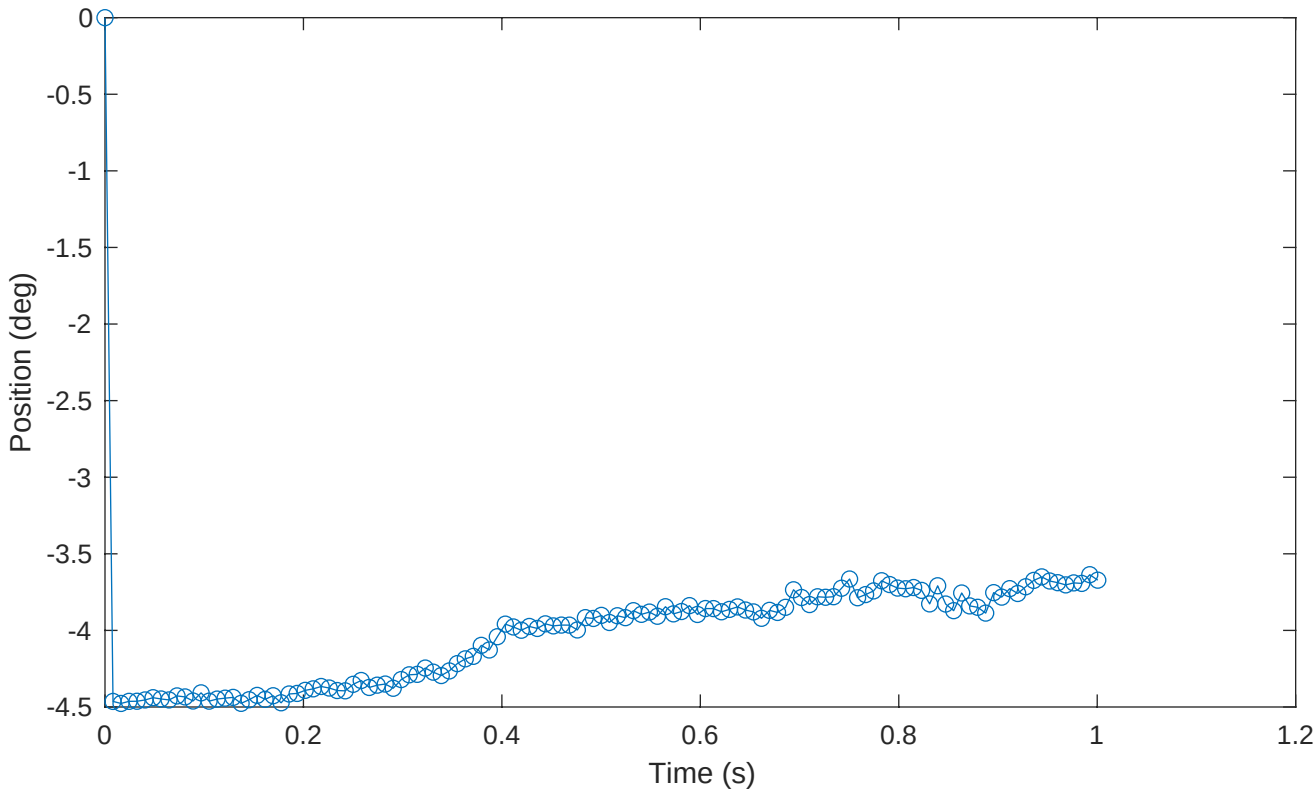

Filtered Position/Velocity: Trial 17 (External)
Position (deg)
Velocity (deg/s)
Time (s)
Externally Filtered Position
Externally Filtered Velocity

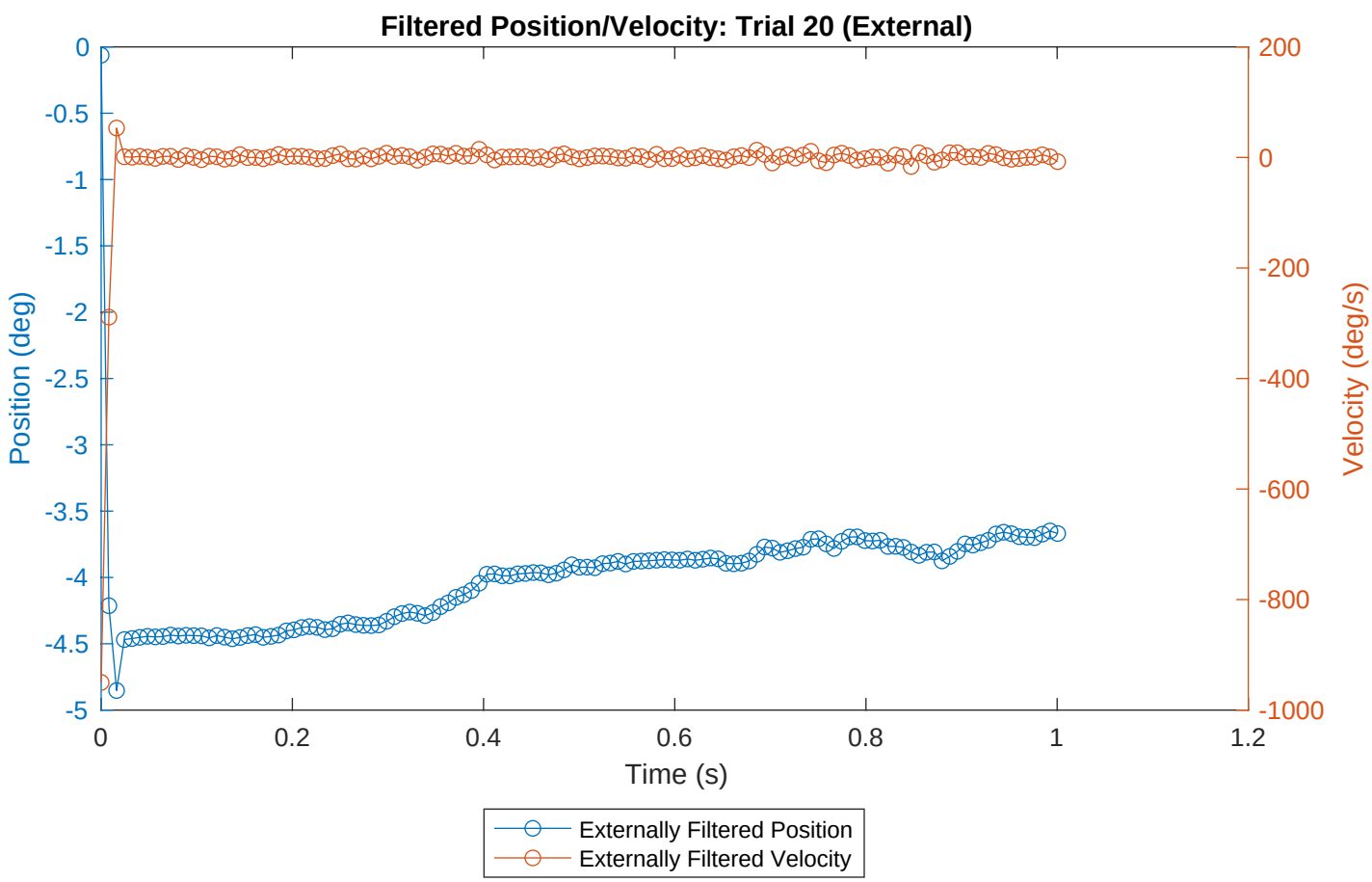

Position (deg)
Time (s)
0
-1
-2
-3
-4
-5
-6
-7
-8
0
0.1
0.2
0.3
0.4
0.5
0.6
0.7
0.8
0.9
1

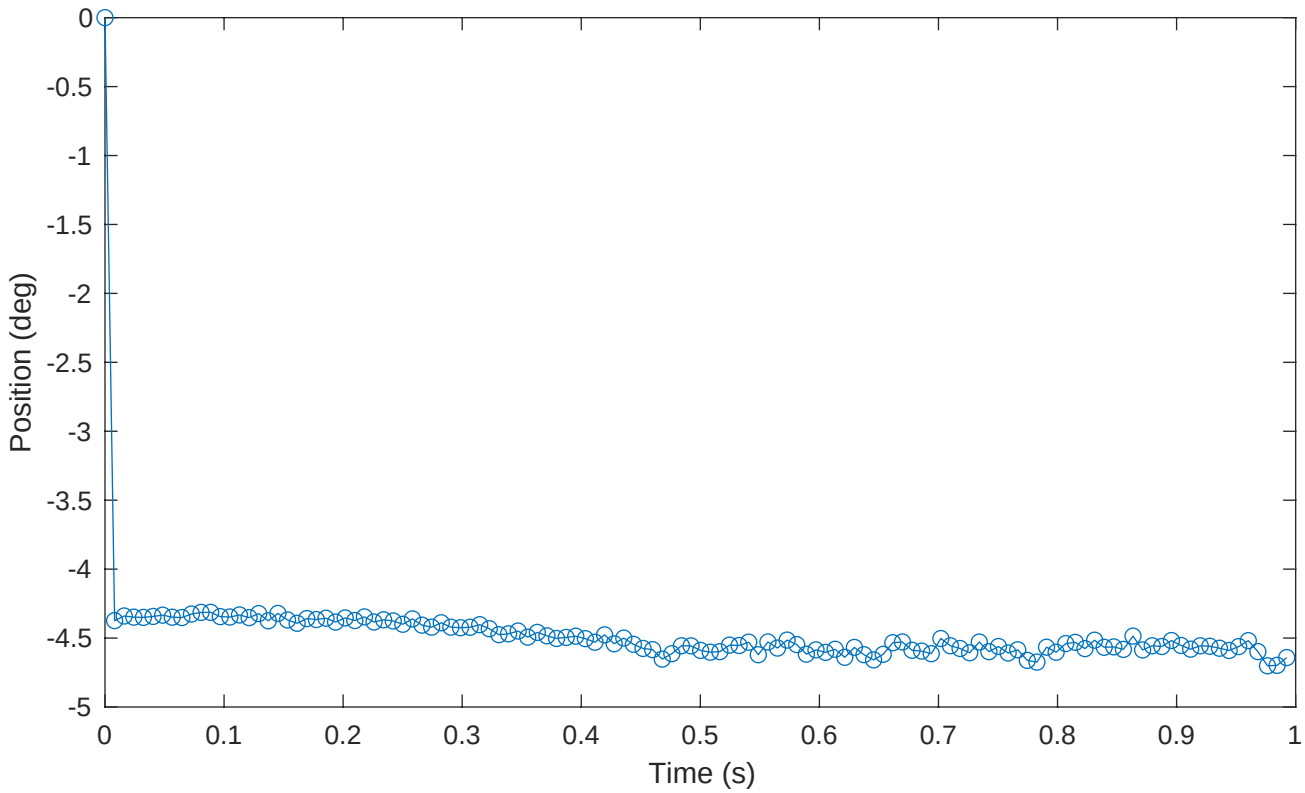

Filtered Position/Velocity: Trial 18 (External)
Position (deg)
Velocity (deg/s)
Time (s)
0
-1
-2
-3
-4
-5
-6
-7
-8
400
200
0
-200
-400
-600
-800
-1000
0
0.1
0.2
0.3
0.4
0.5
0.6
0.7
0.8
0.9
1
Externally Filtered Position
Externally Filtered Velocity

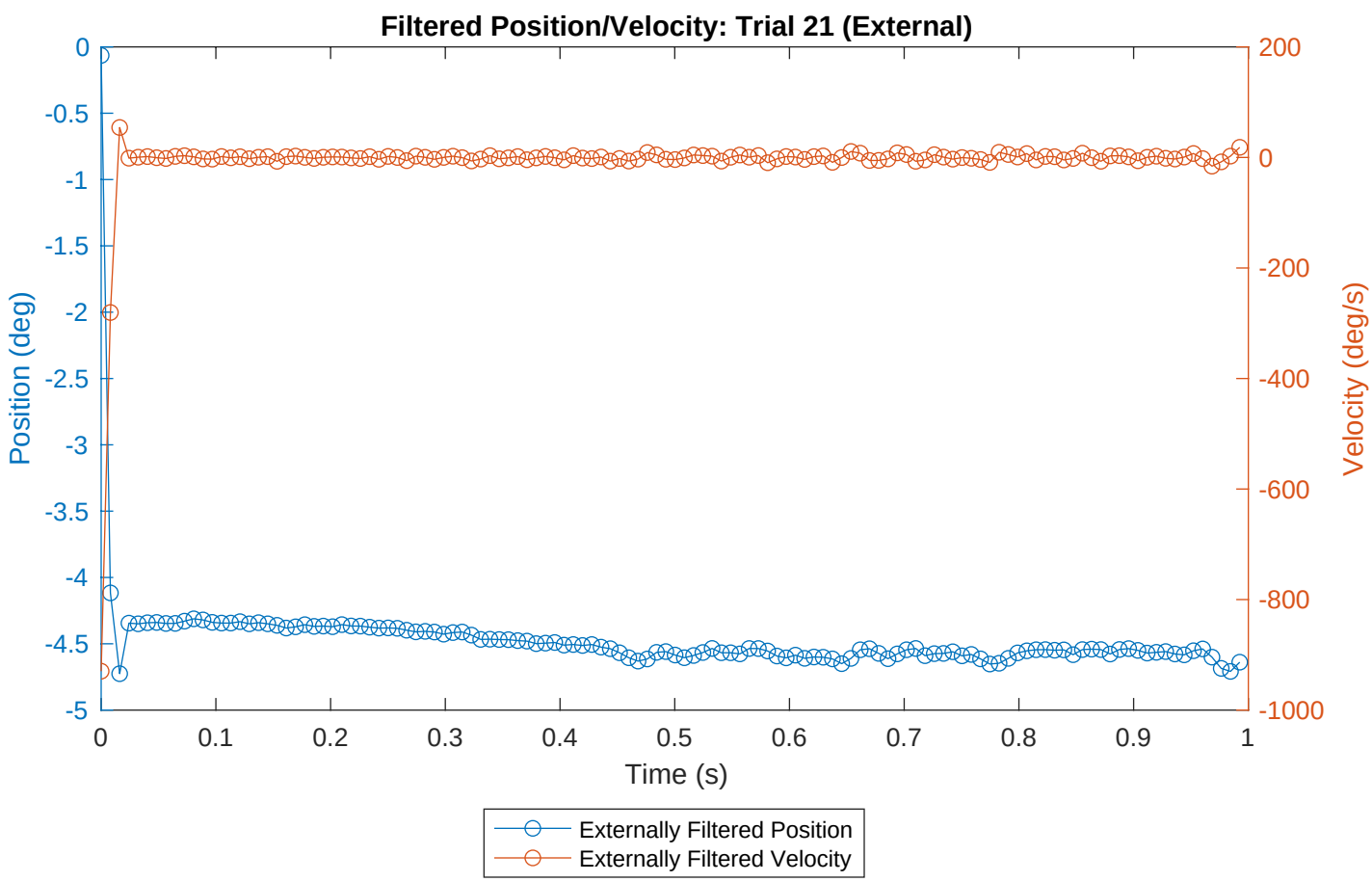

Position (deg)
Time (s)

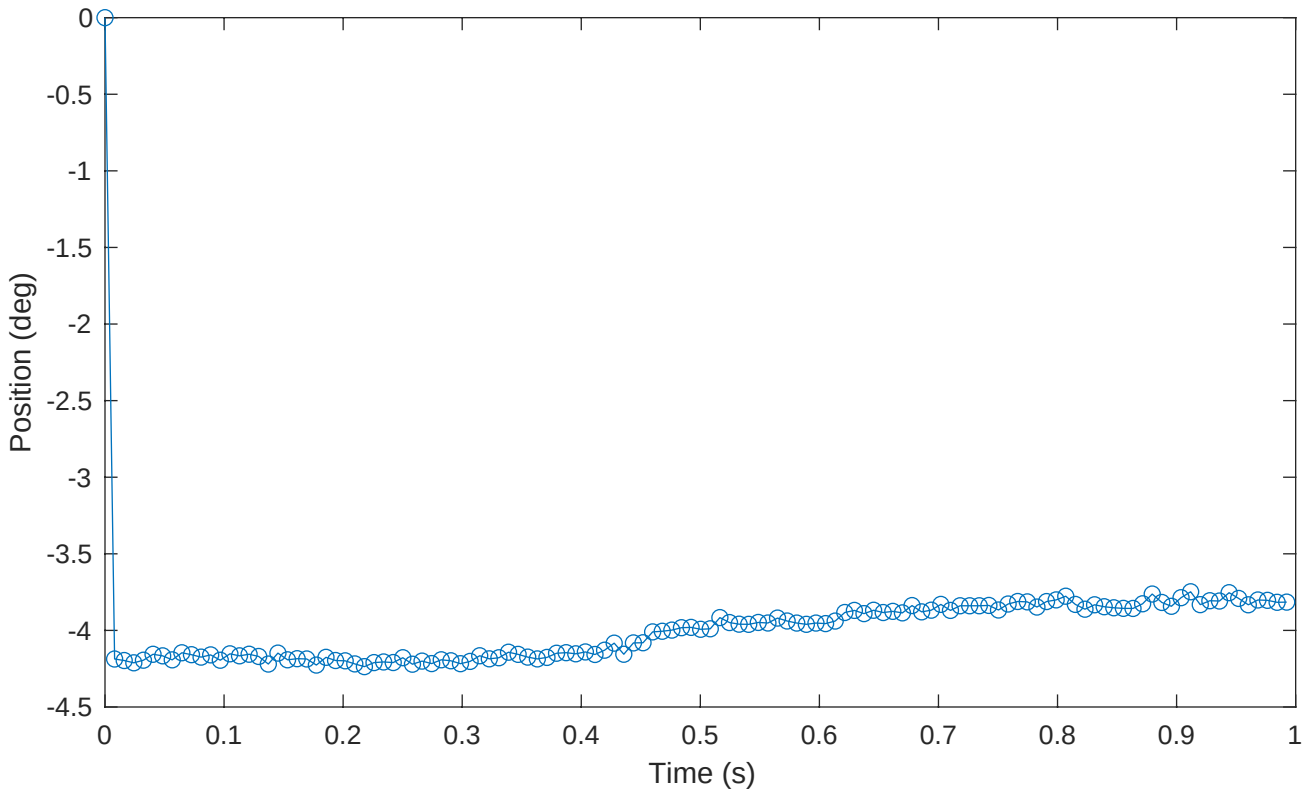

Filtered Position/Velocity: Trial 19 (External)
Position (deg)
Velocity (deg/s)
Time (s)
Externally Filtered Position
Externally Filtered Velocity

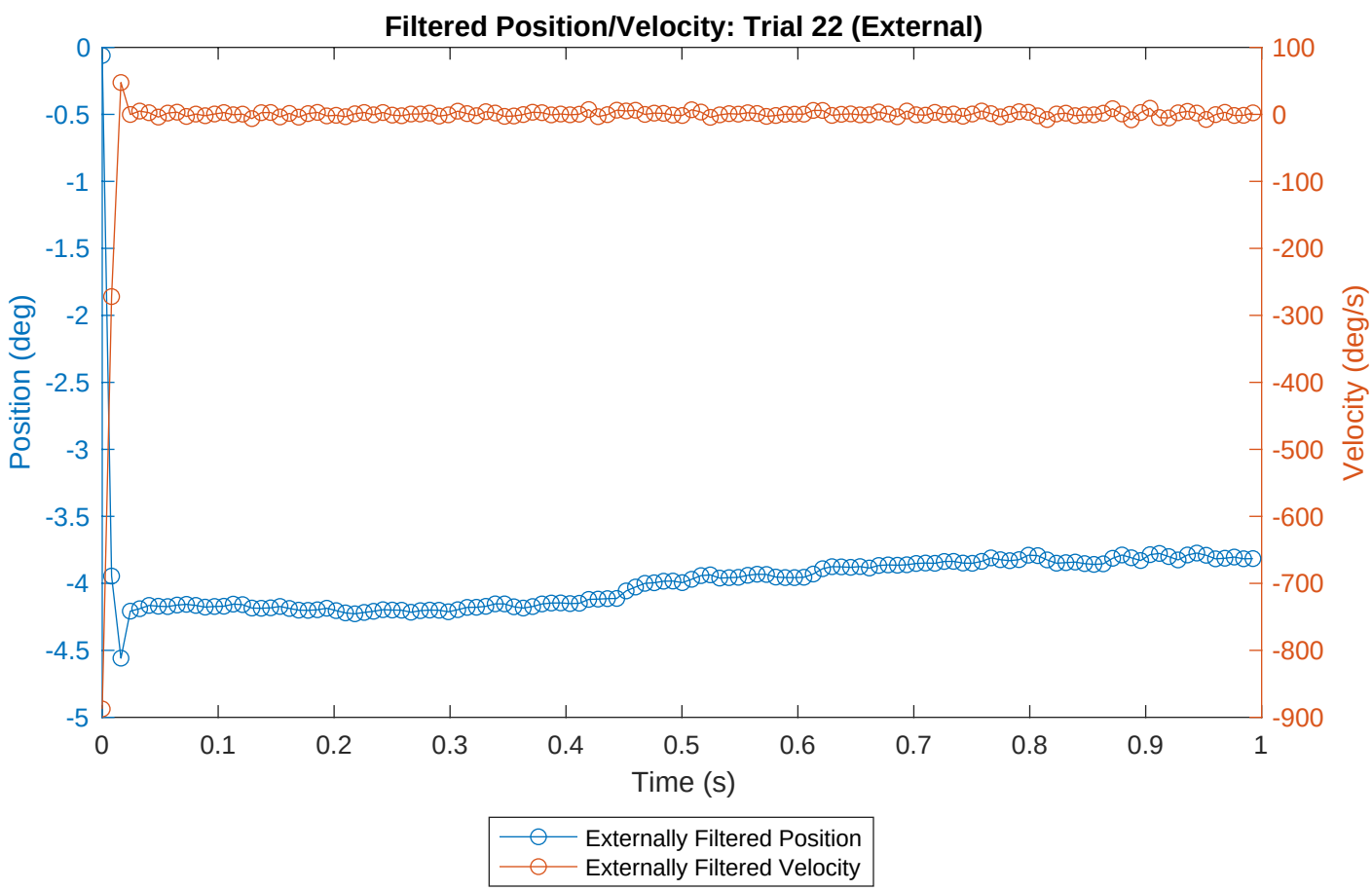

Position (deg)
Time (s)
0
-0.5
-1
-1.5
-2
-2.5
-3
-3.5
-4
-4.5
0
0.2
0.4
0.6
0.8
1
1.2

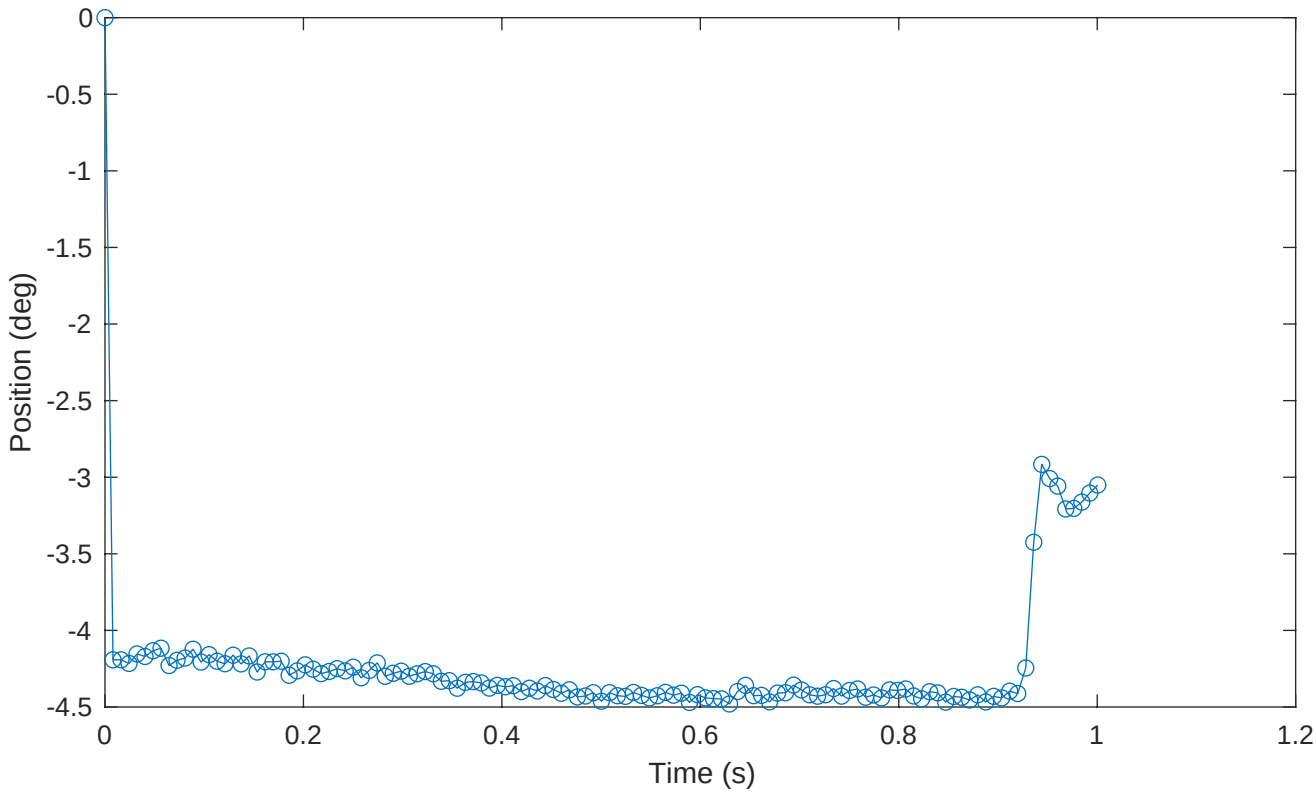

Filtered Position/Velocity: Trial 20 (External)
Position (deg)
Velocity (deg/s)
Time (s)
0
-0.5
-1
-1.5
-2
-2.5
-3
-3.5
-4
-4.5
-5
200
0
-200
-400
-600
-800
-1000
0
0.2
0.4
0.6
0.8
1
1.2
Externally Filtered Position
Externally Filtered Velocity

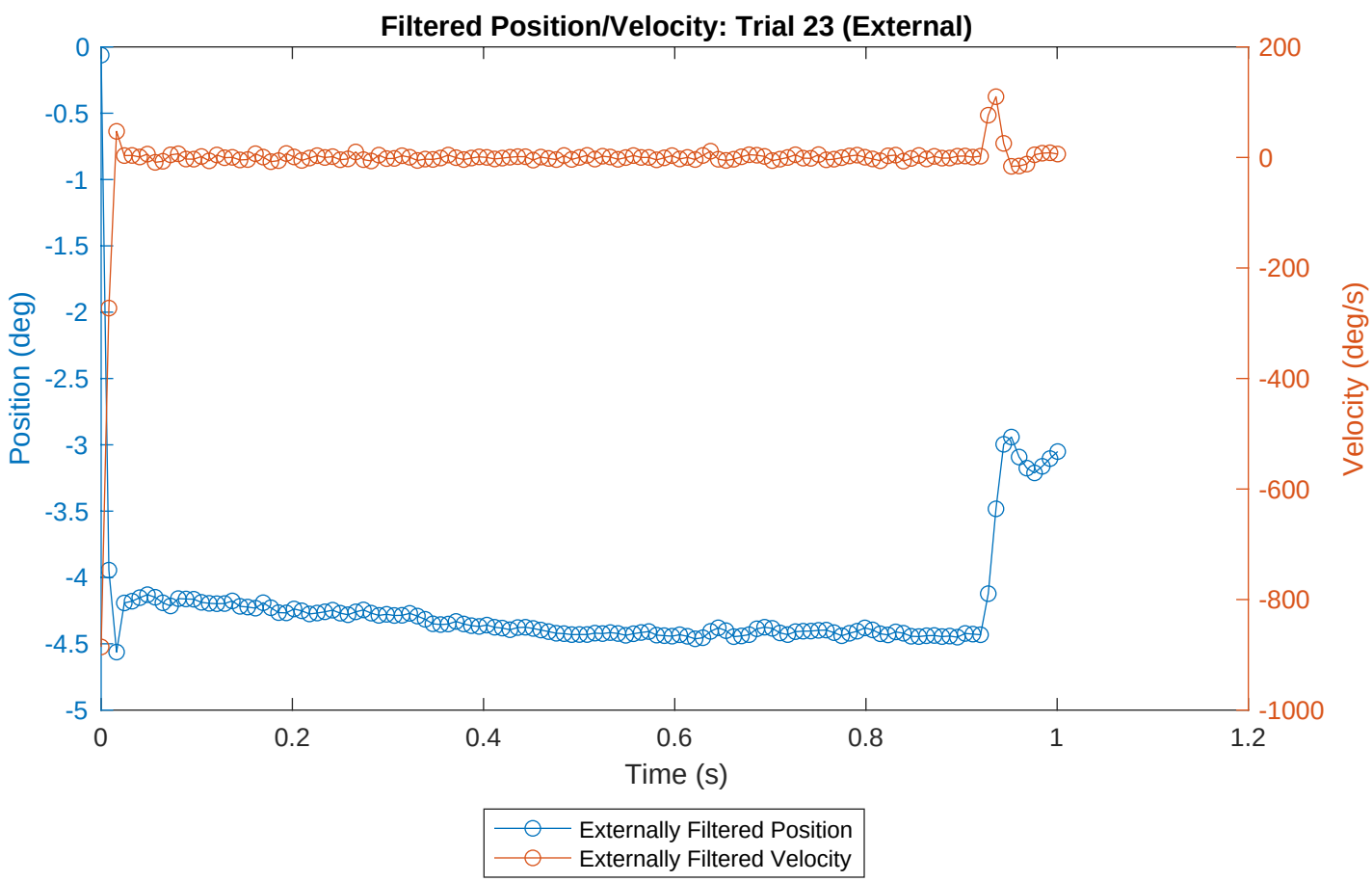

Position (deg)
Time (s)

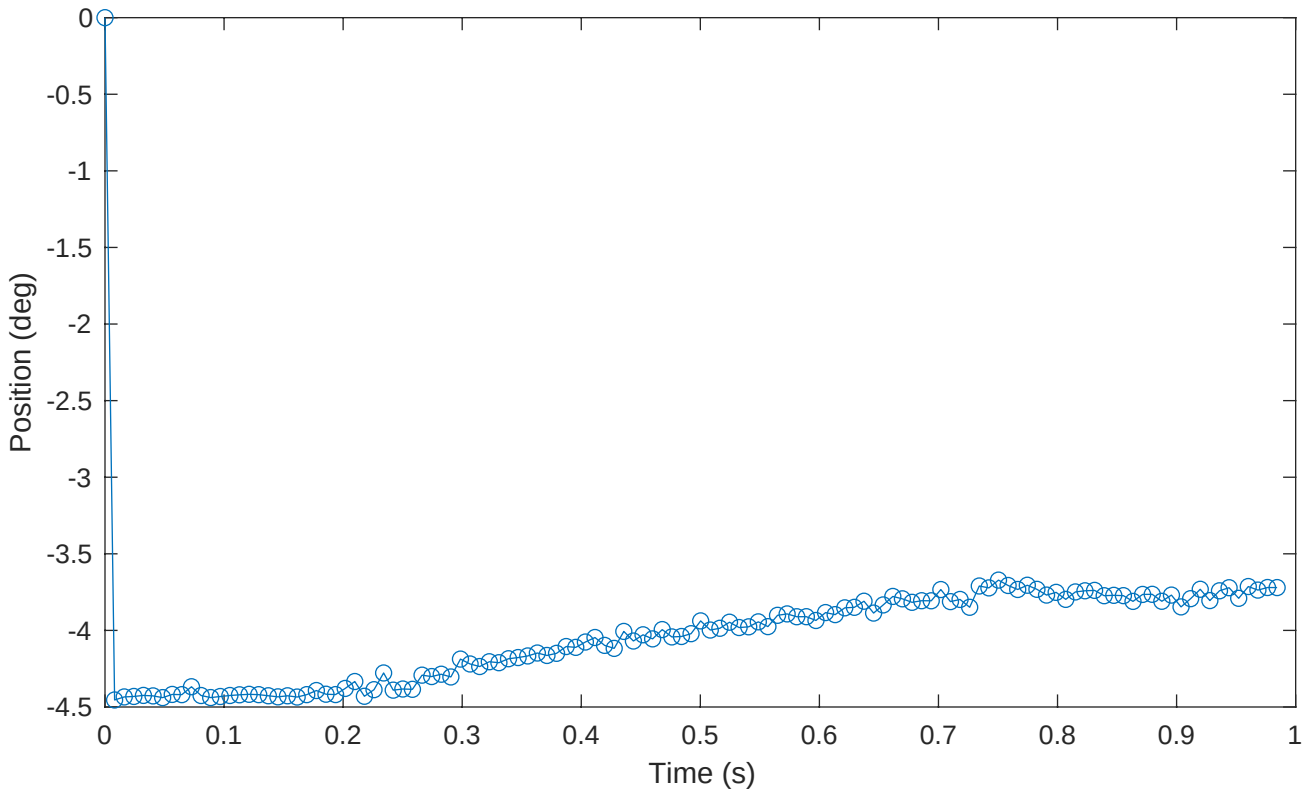

Filtered Position/Velocity: Trial 21 (External)
Position (deg)
Velocity (deg/s)
Time (s)
Externally Filtered Position
Externally Filtered Velocity

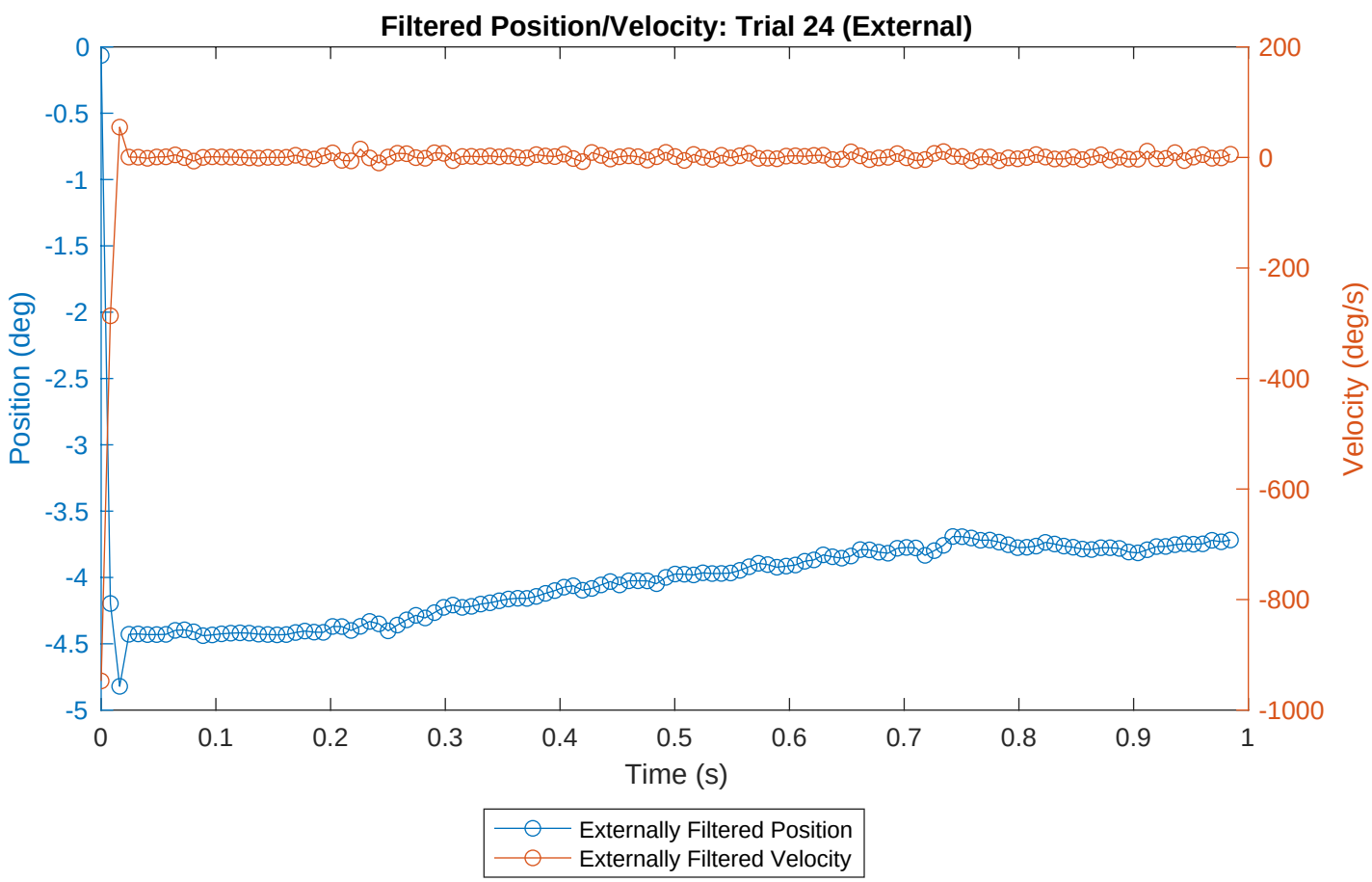

Position (deg)
Time (s)

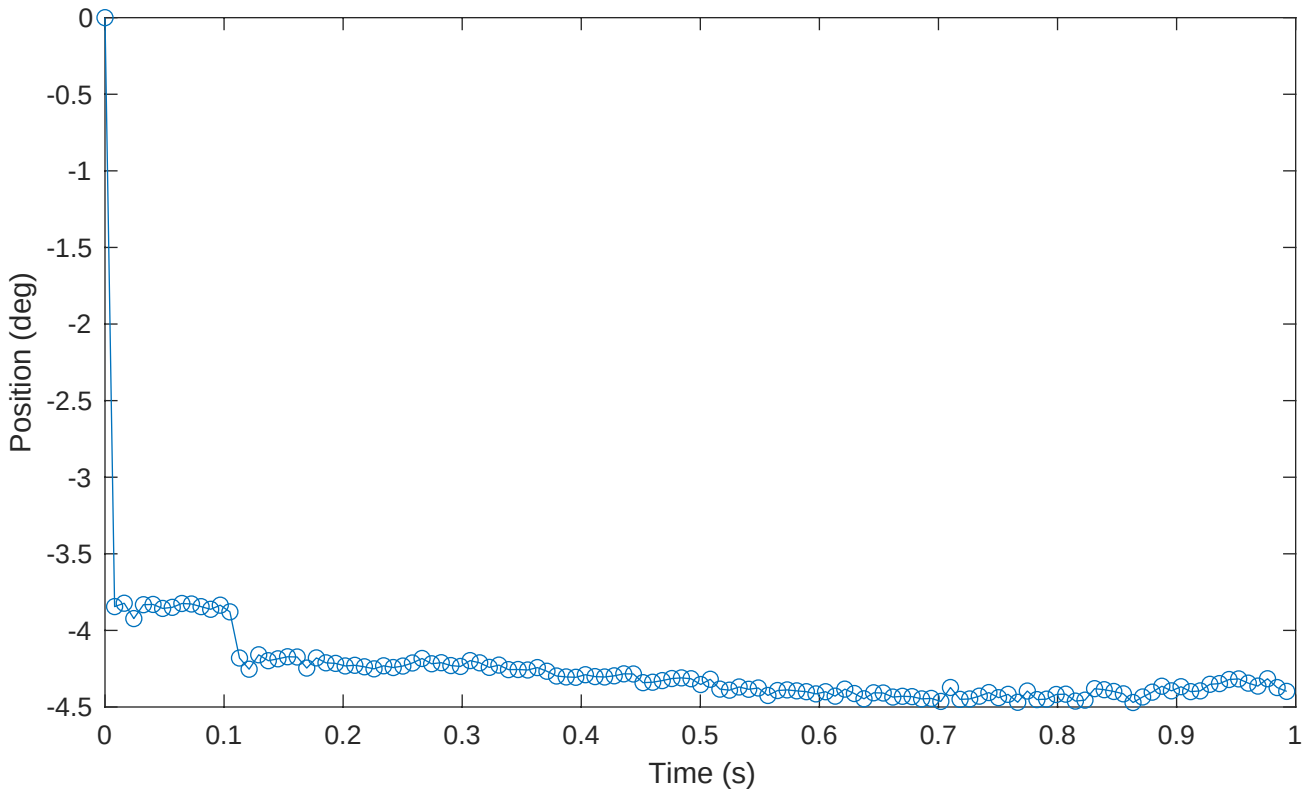

Filtered Position/Velocity: Trial 22 (External)
Position (deg)
Velocity (deg/s)
Time (s)
Externally Filtered Position
Externally Filtered Velocity

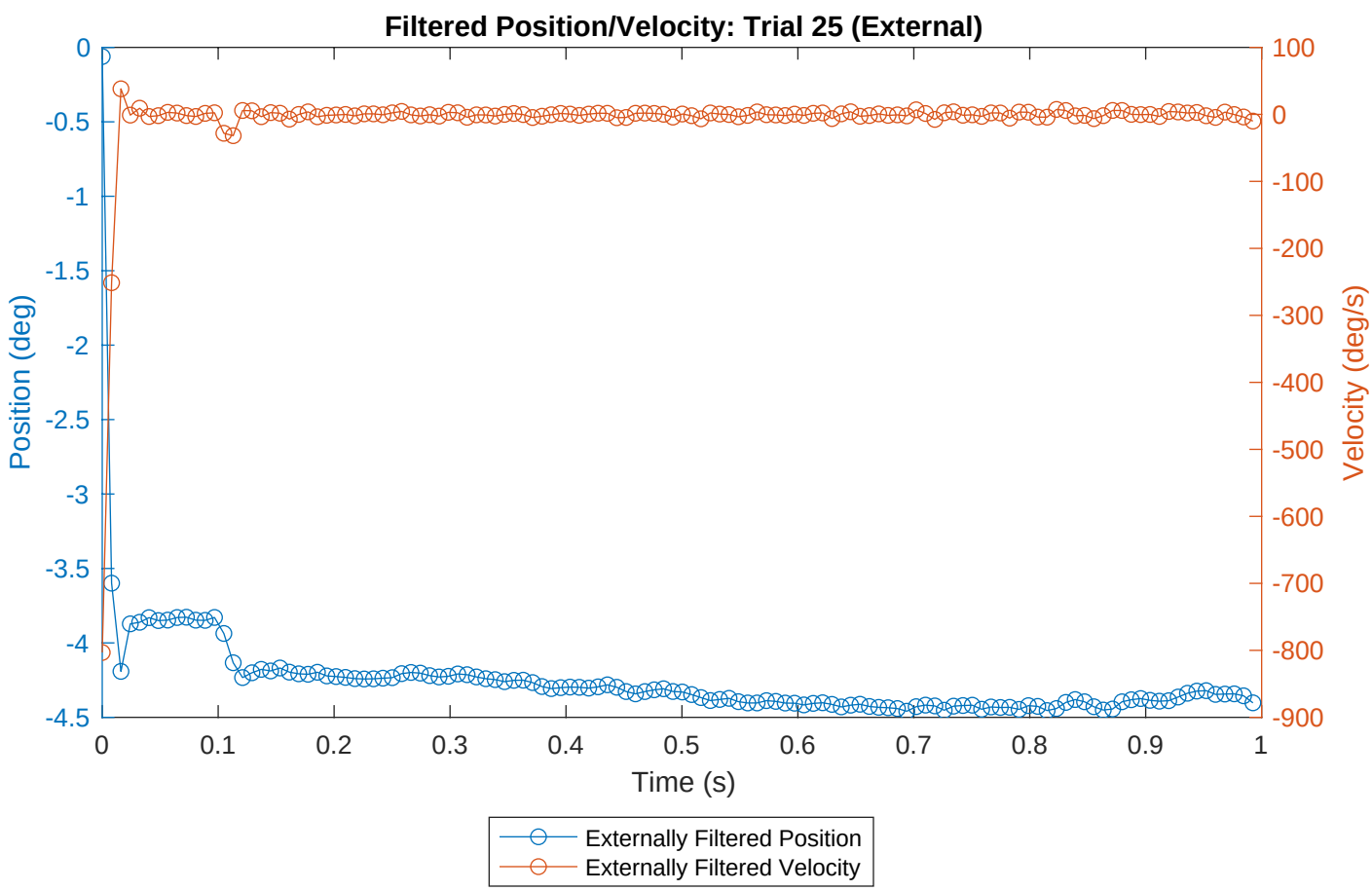

Position (deg)
Time (s)
0
-0.5
-1
-1.5
-2
-2.5
-3
-3.5
-4
-4.5
0
0.2
0.4
0.6
0.8
1
1.2

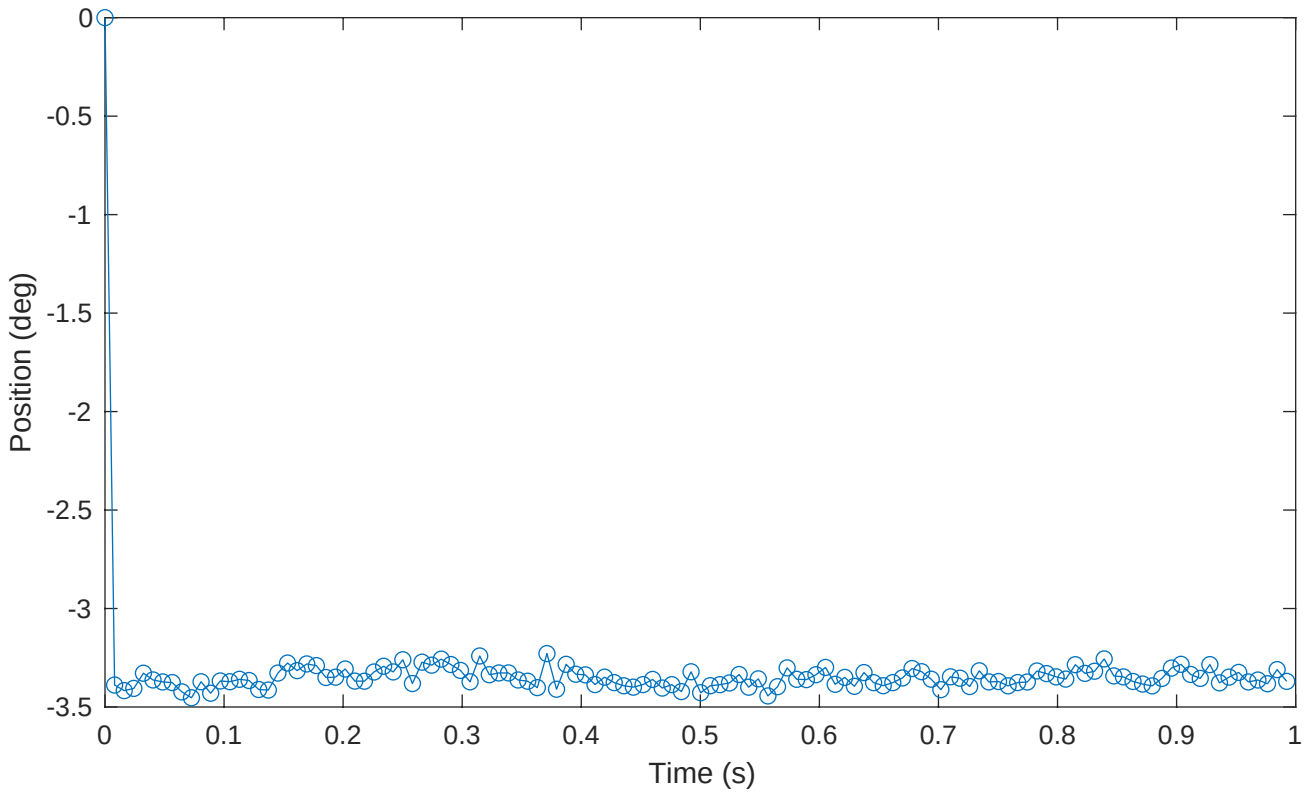

Filtered Position/Velocity: Trial 23 (External)
Position (deg)
Velocity (deg/s)
Time (s)
0
-0.5
-1
-1.5
-2
-2.5
-3
-3.5
-4
-4.5
-5
200
0
-200
-400
-600
-800
-1000
0
0.2
0.4
0.6
0.8
1
1.2
Externally Filtered Position
Externally Filtered Velocity

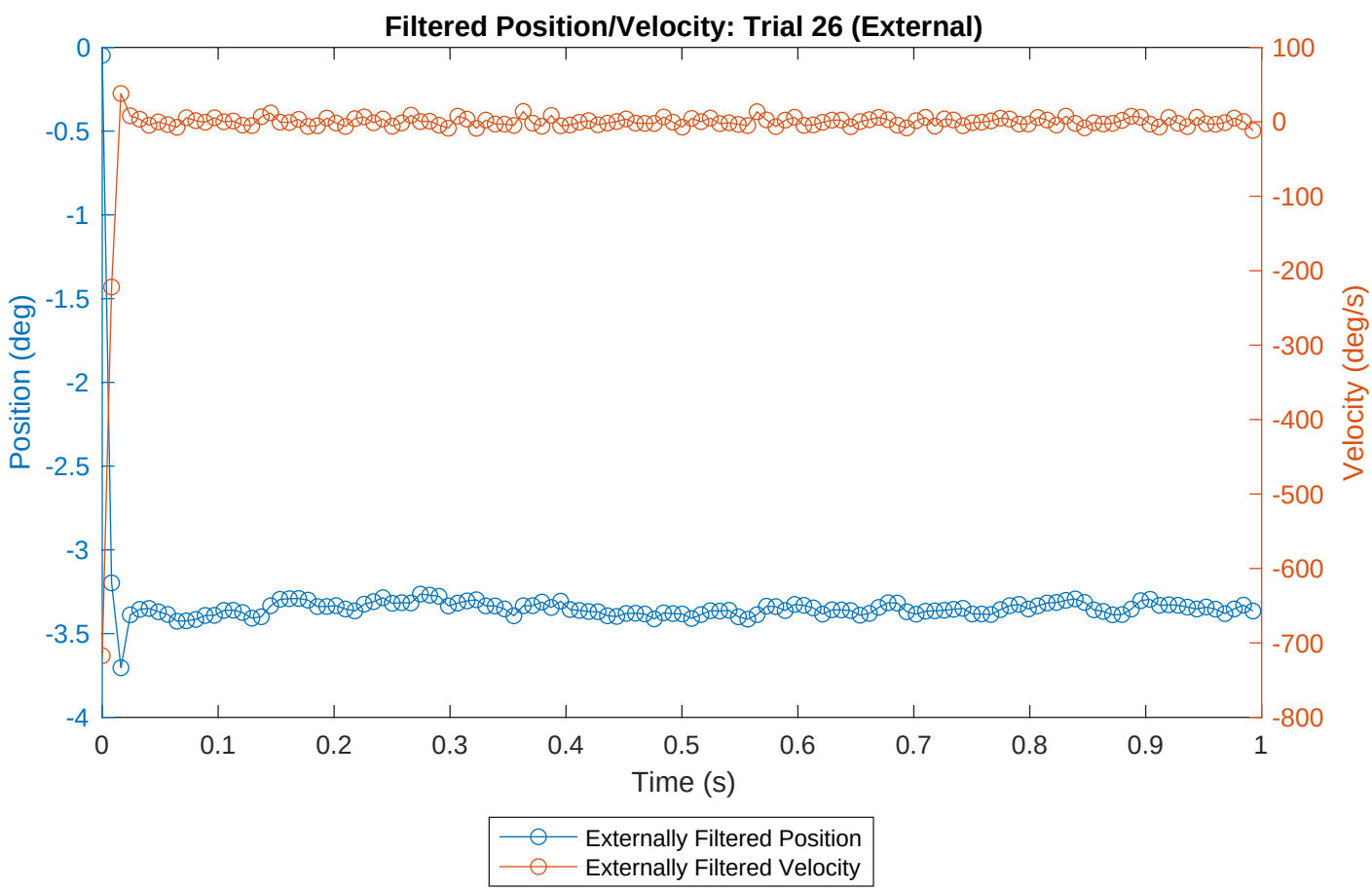

Position (deg)
Time (s)

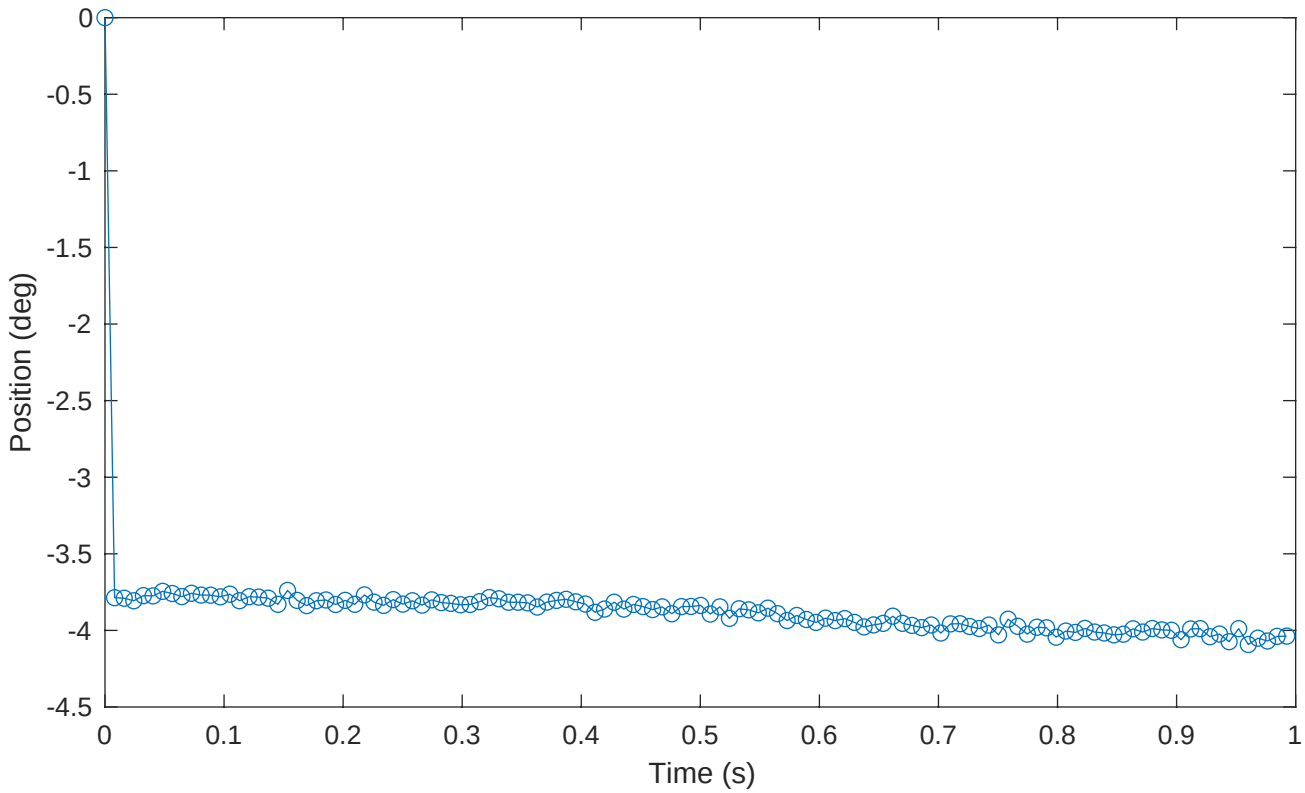

Filtered Position/Velocity: Trial 24 (External)
Position (deg)
Velocity (deg/s)
Time (s)
Externally Filtered Position
Externally Filtered Velocity

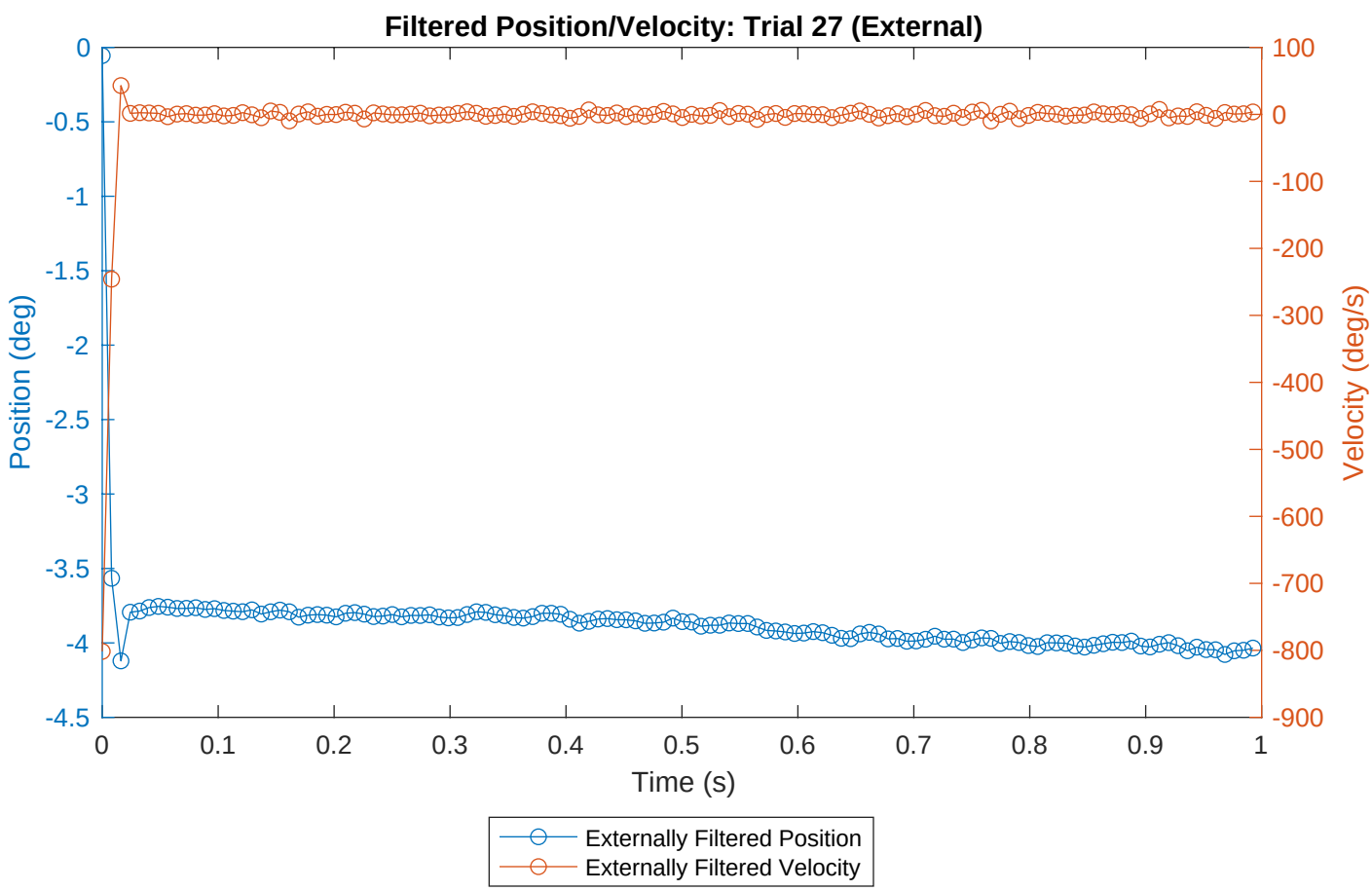

Position (deg)
Time (s)

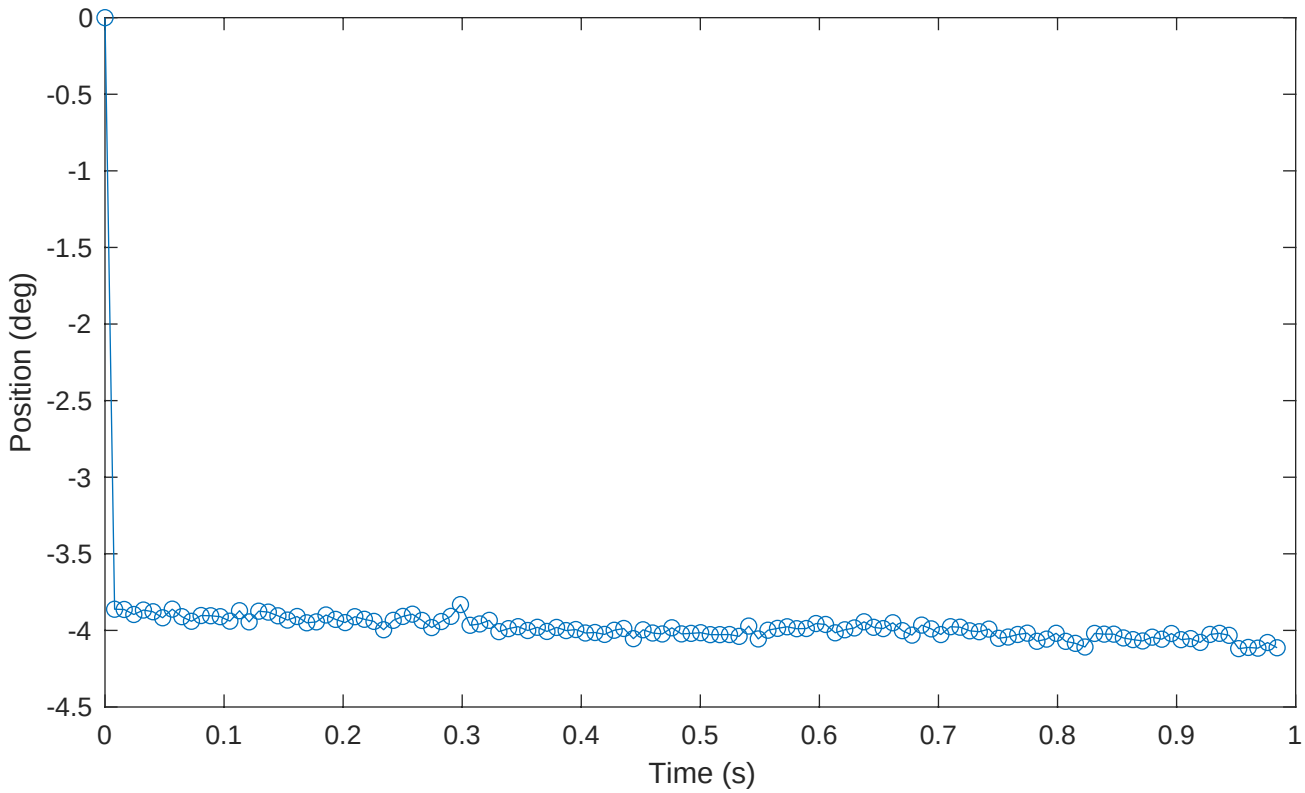

Filtered Position/Velocity: Trial 25 (External)
Position (deg)
Velocity (deg/s)
Time (s)
Externally Filtered Position
Externally Filtered Velocity

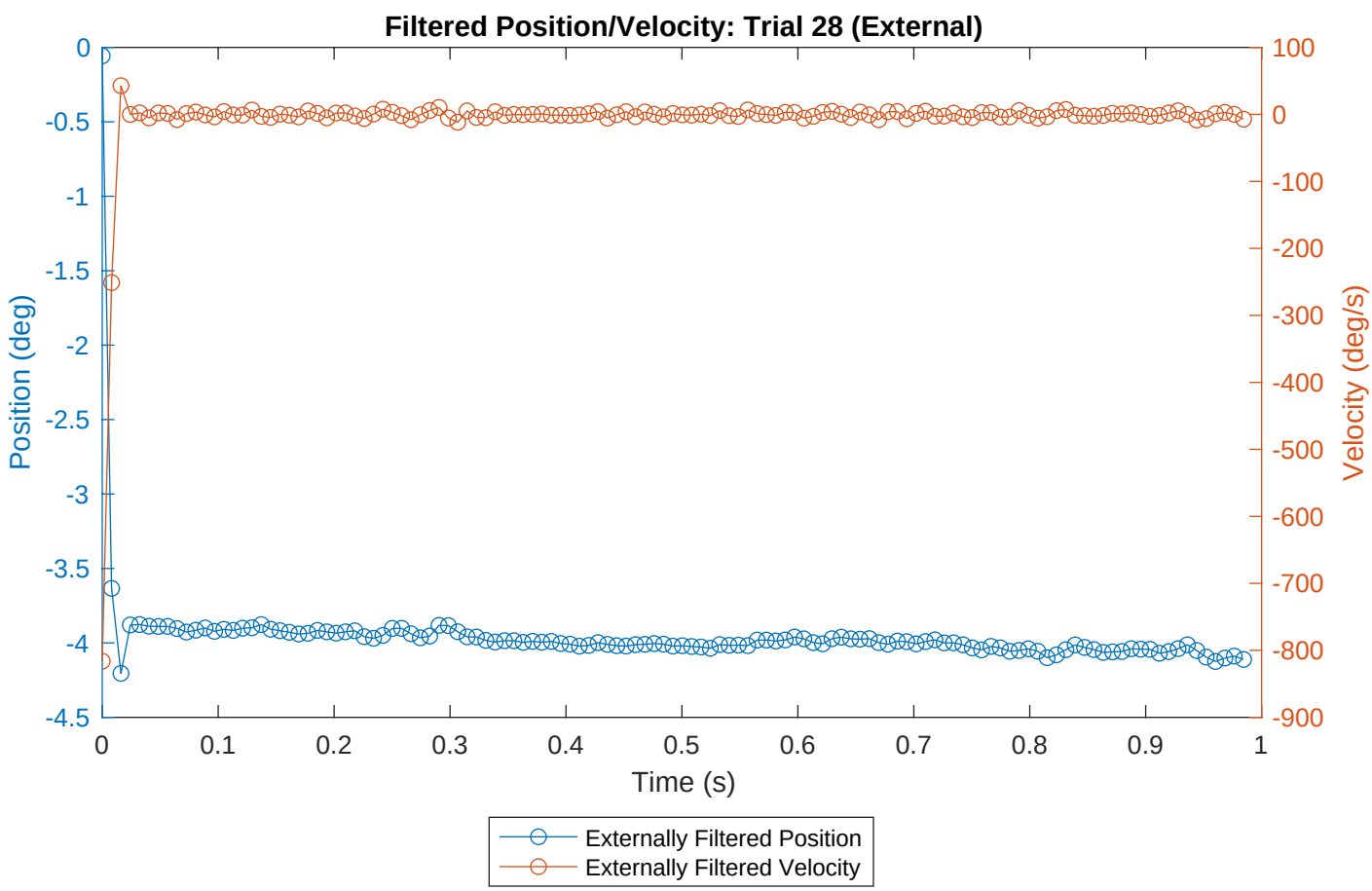

Position (deg)
Time (s)

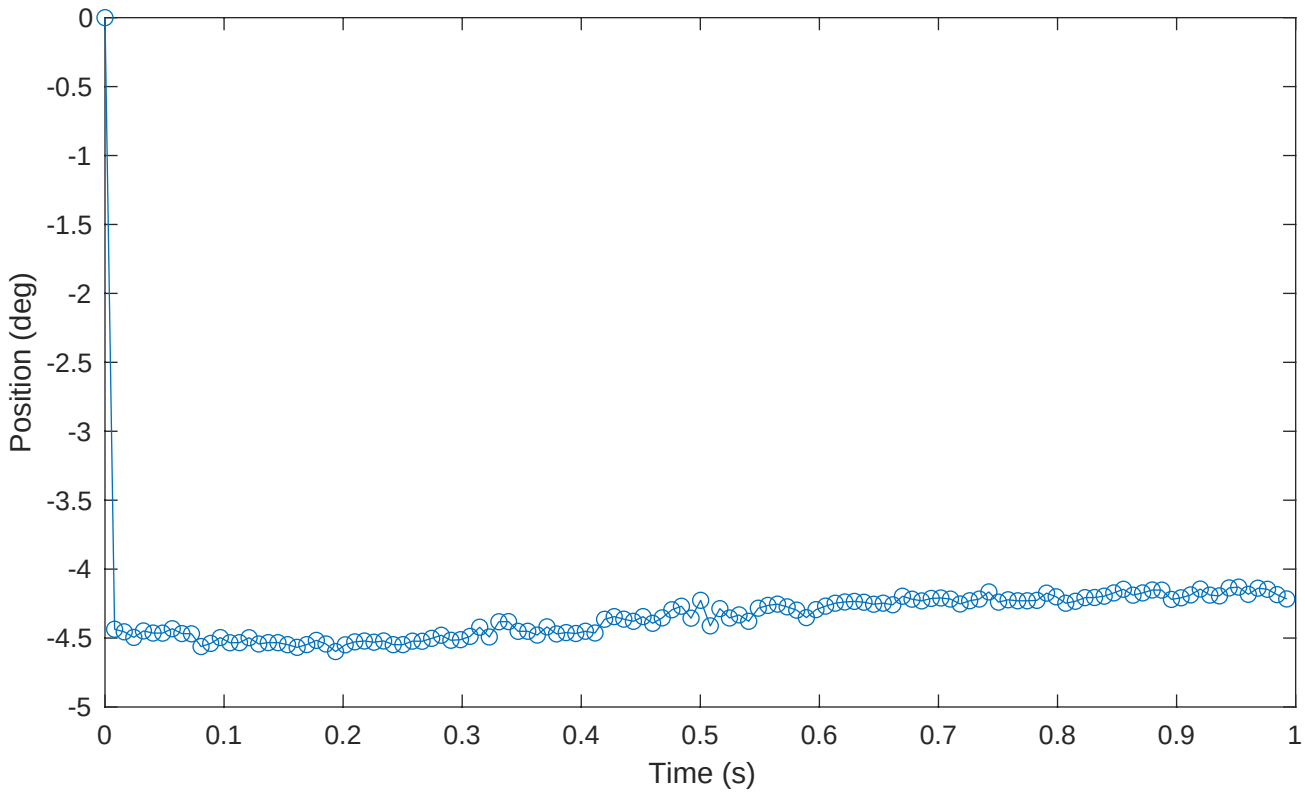

Filtered Position/Velocity: Trial 26 (External)
Position (deg)
Velocity (deg/s)
Time (s)
Externally Filtered Position
Externally Filtered Velocity

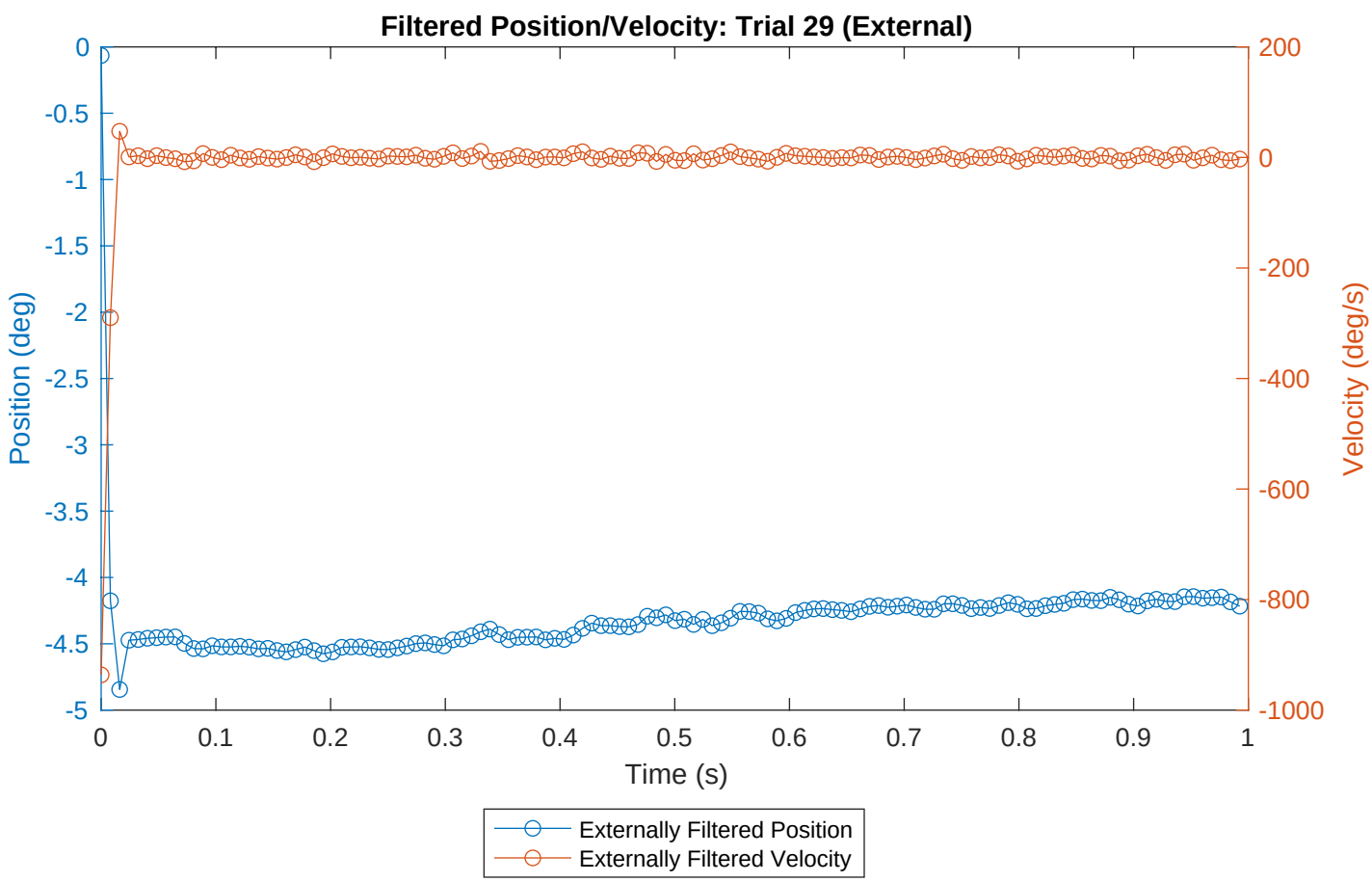

Position (deg)
Time (s)

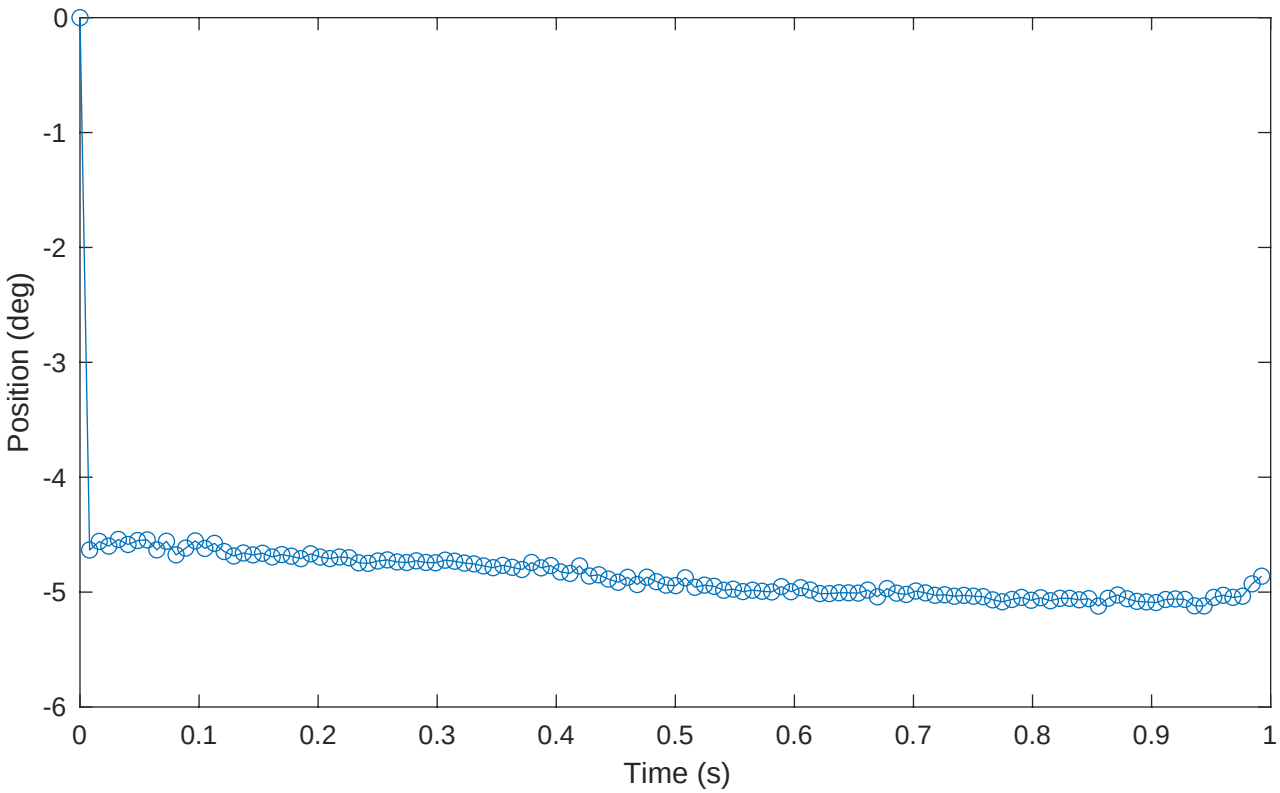

Filtered Position/Velocity: Trial 27 (External)
Position (deg)
Velocity (deg/s)
Time (s)
Externally Filtered Position
Externally Filtered Velocity

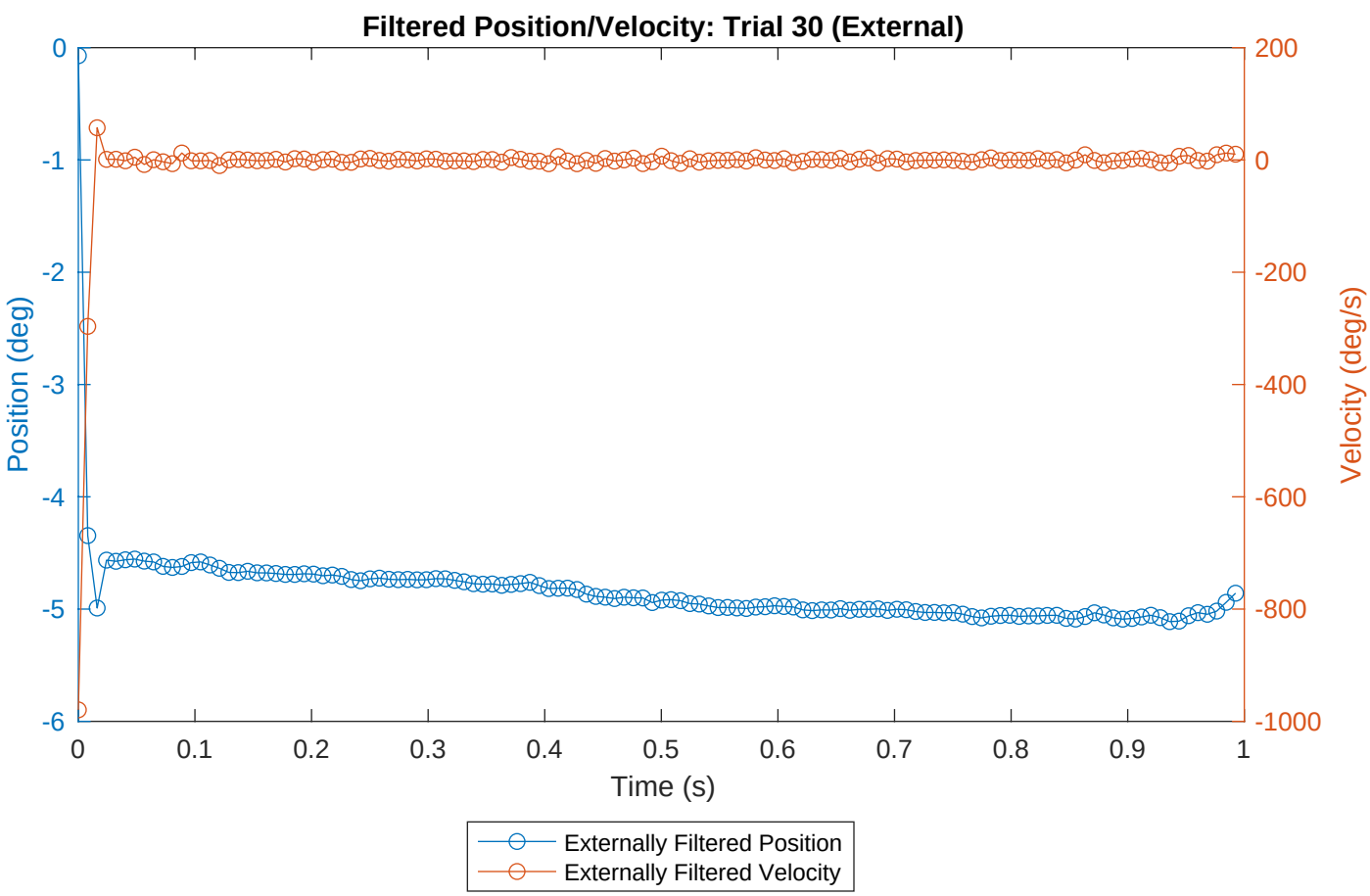

Position (deg)
Time (s)

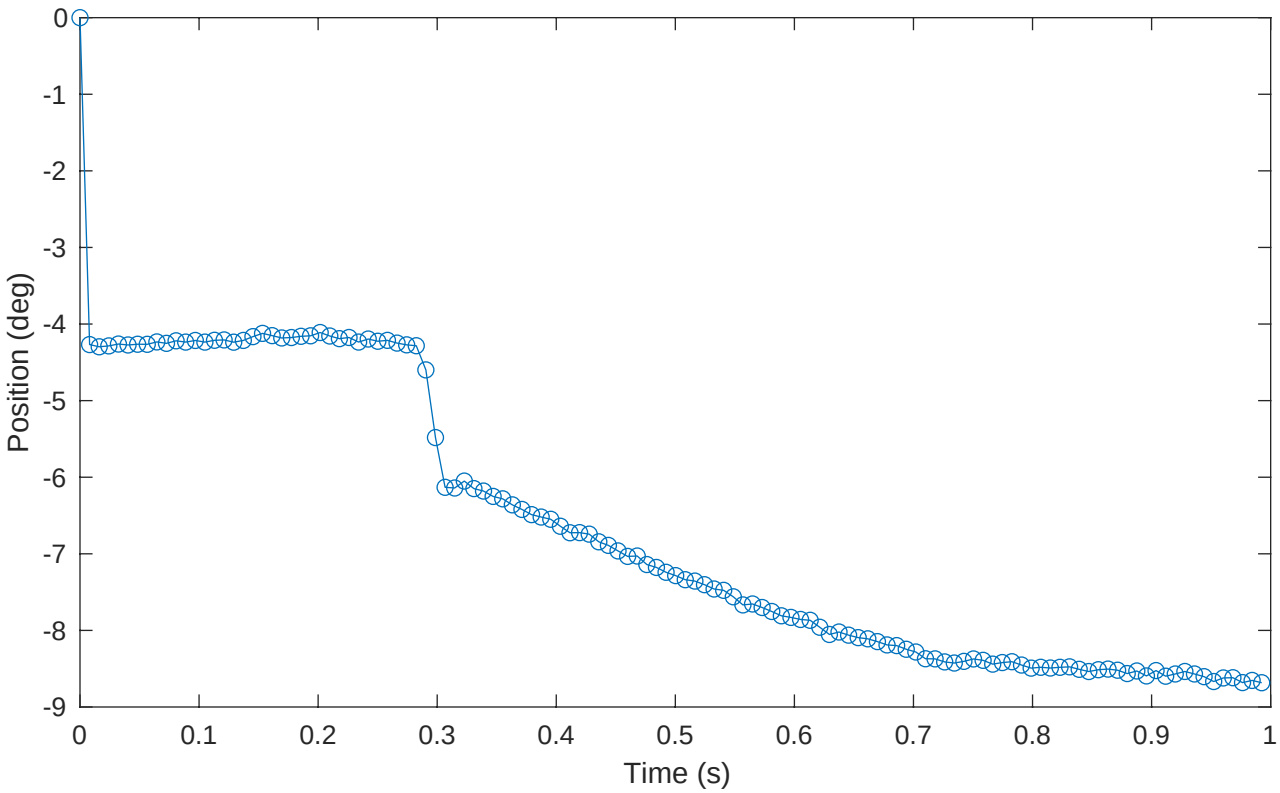

Filtered Position/Velocity: Trial 28 (External)
Position (deg)
Velocity (deg/s)
Time (s)
Externally Filtered Position
Externally Filtered Velocity

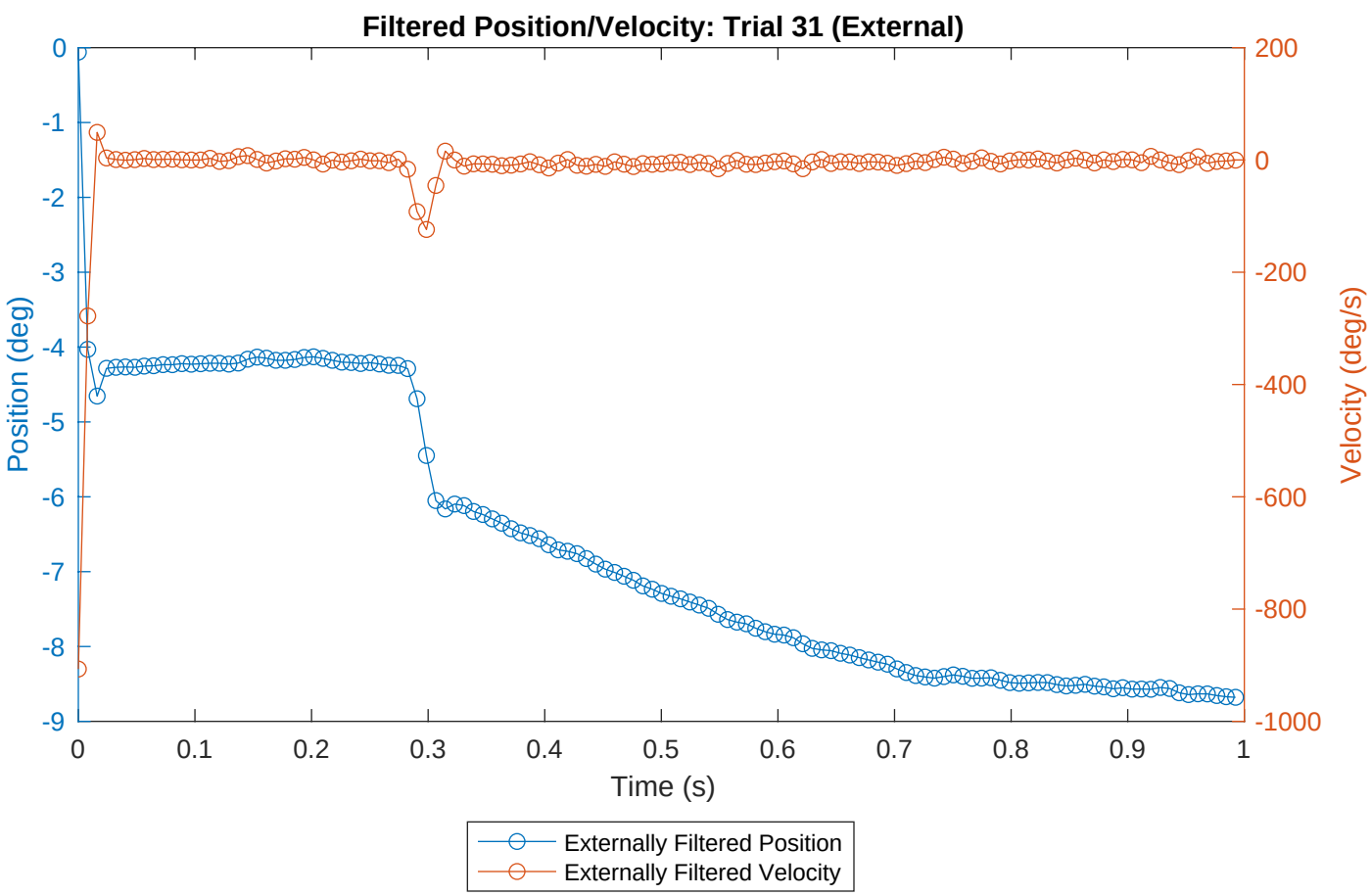

Position (deg)
Time (s)

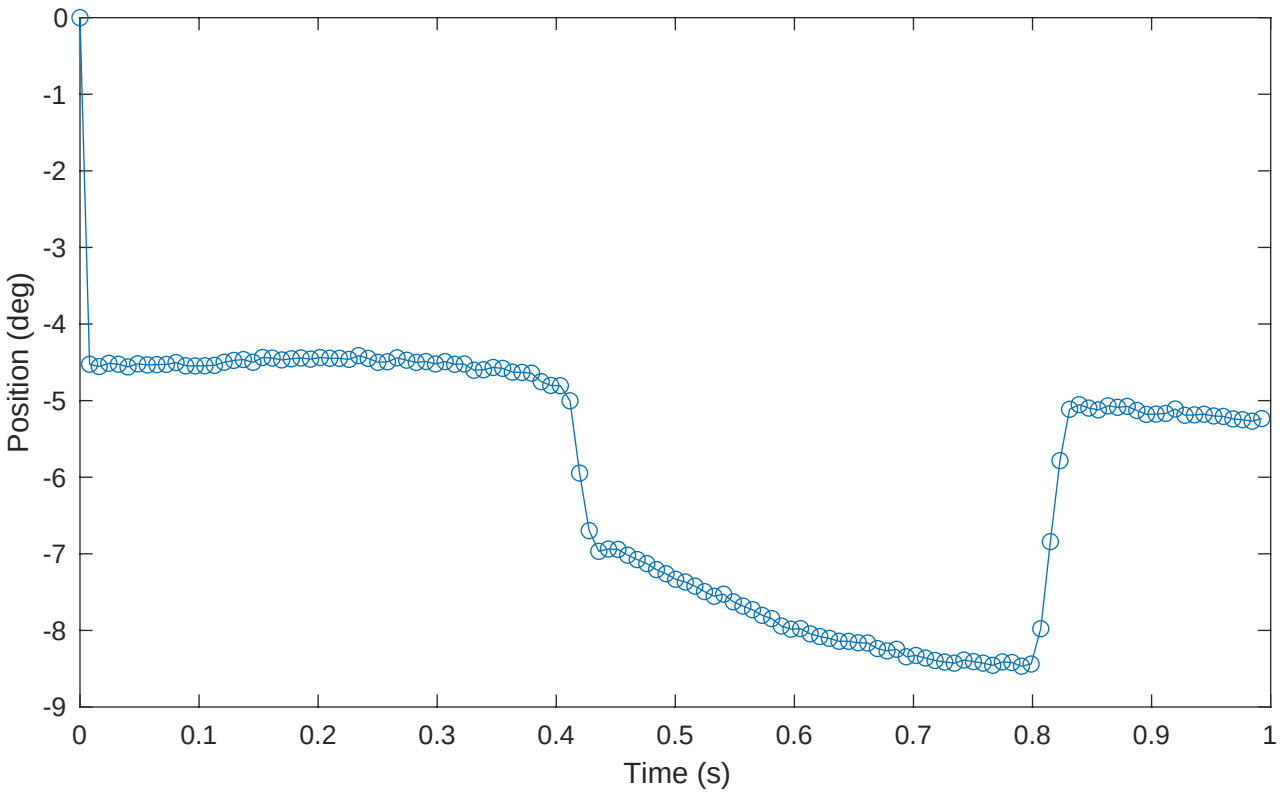

Filtered Position/Velocity: Trial 29 (External)
Position (deg)
Velocity (deg/s)
Time (s)
Externally Filtered Position
Externally Filtered Velocity

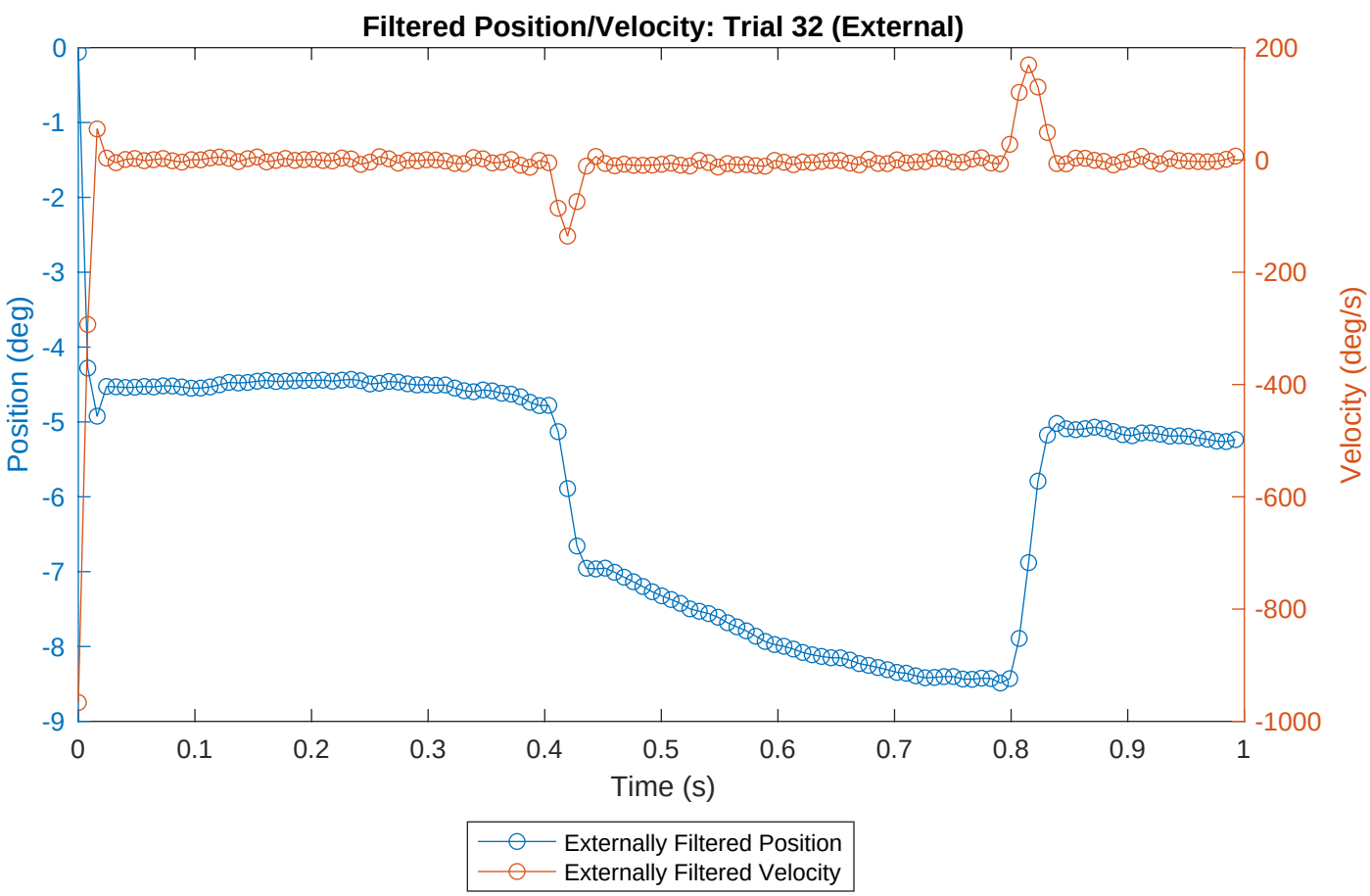

Position (deg)
Time (s)
0
-1
-2
-3
-4
-5
-6
0
0.1
0.2
0.3
0.4
0.5
0.6
0.7
0.8
0.9
1

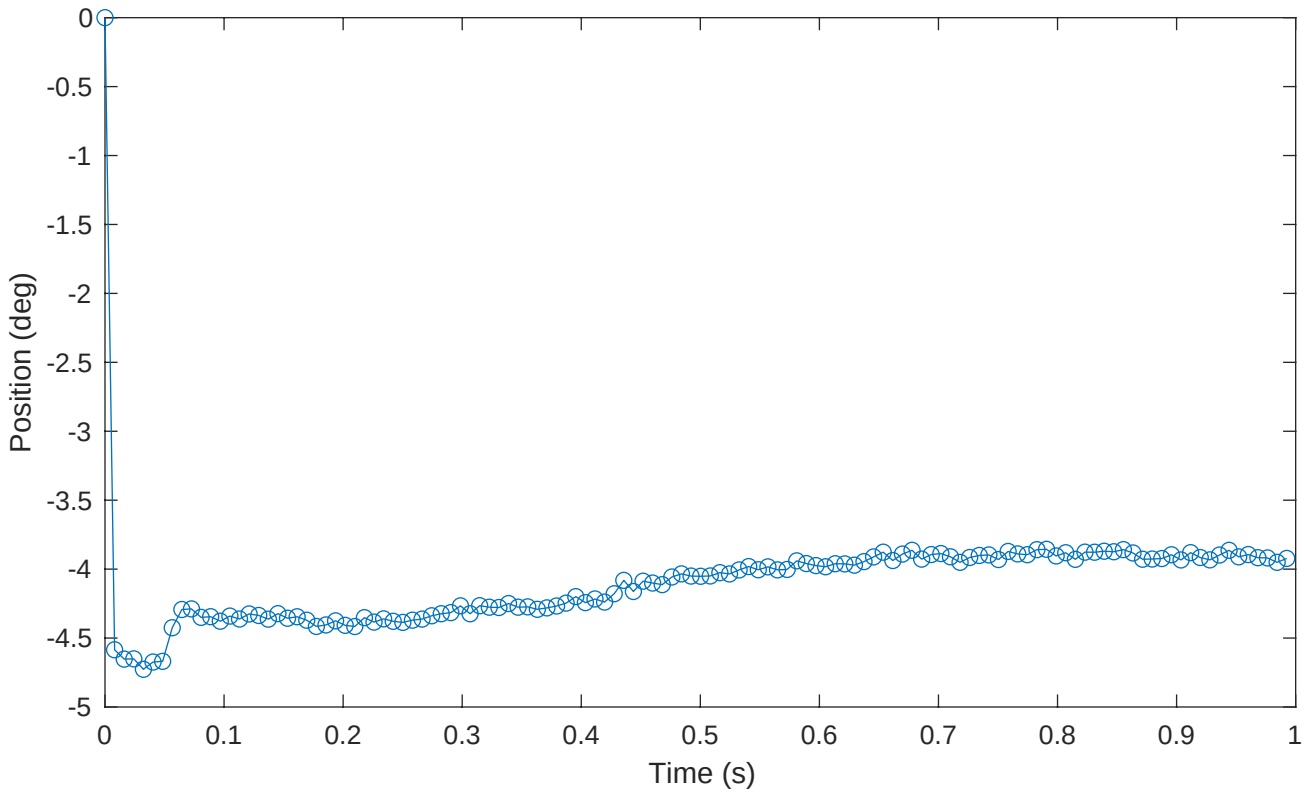

Filtered Position/Velocity: Trial 30 (External)
Position (deg)
Velocity (deg/s)
Time (s)
0
-1
-2
-3
-4
-5
-6
200
0
-200
-400
-600
-800
-1000
0
0.1
0.2
0.3
0.4
0.5
0.6
0.7
0.8
0.9
1
Externally Filtered Position
Externally Filtered Velocity

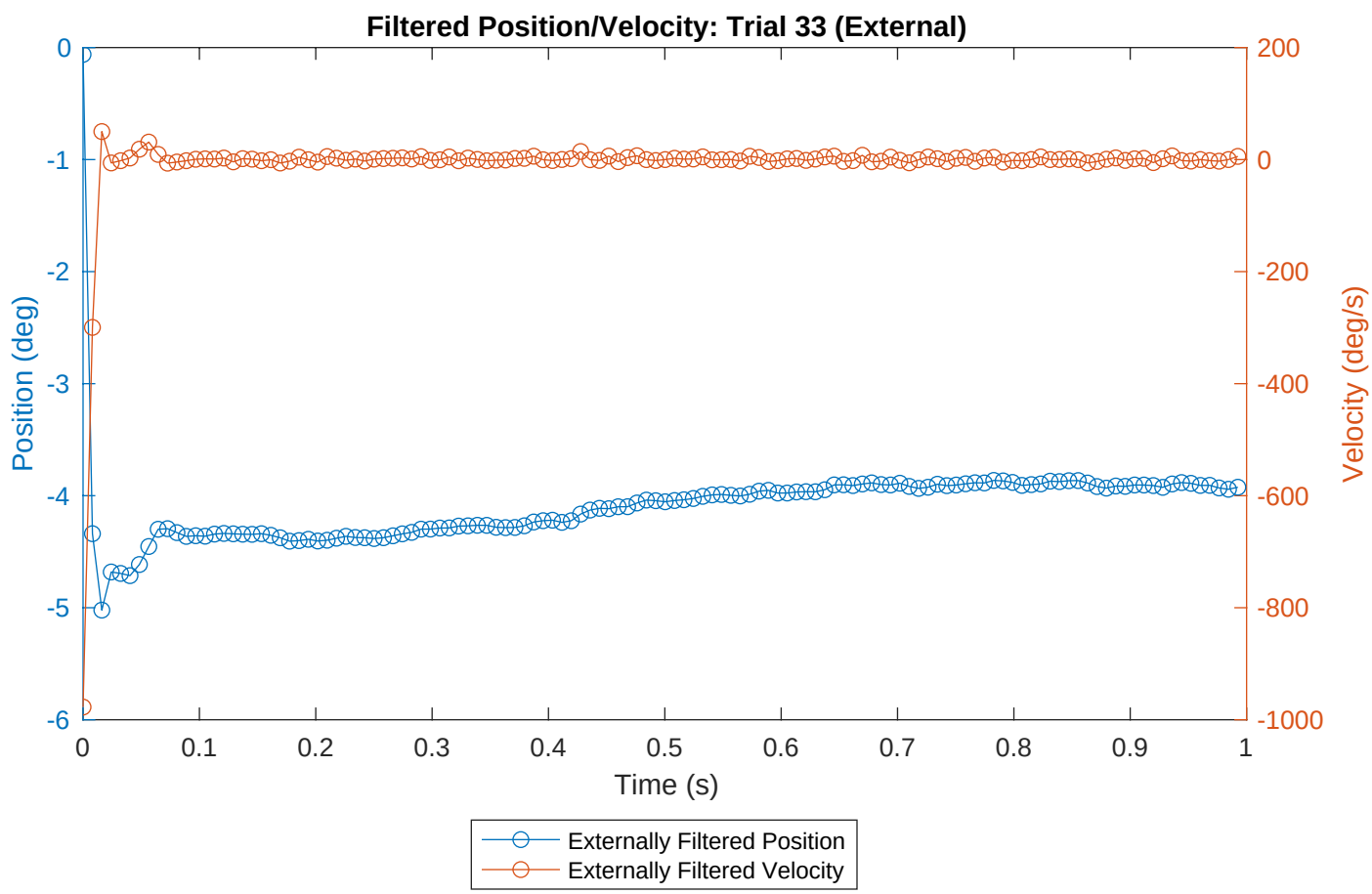

Position (deg)
Time (s)
0
-1
-2
-3
-4
-5
-6
-7
-8
-9
0
0.1
0.2
0.3
0.4
0.5
0.6
0.7
0.8
0.9
1

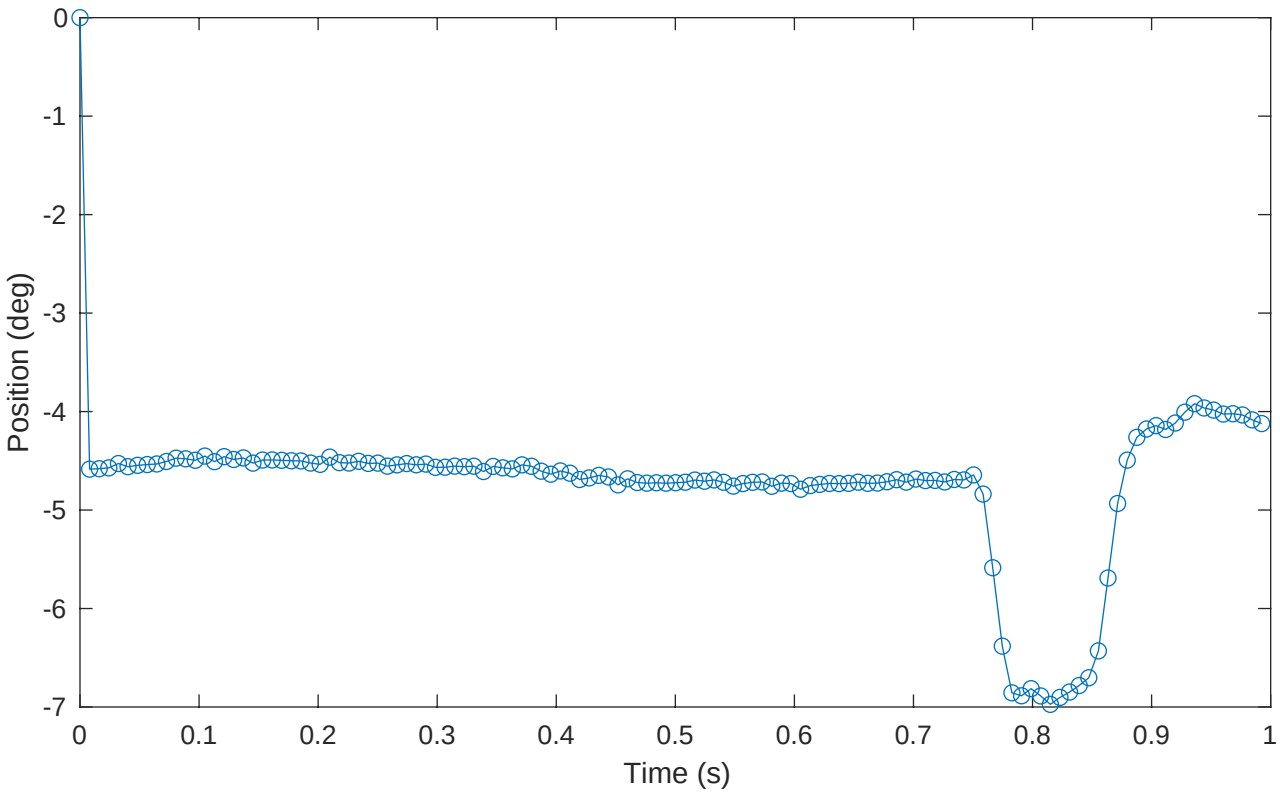

Filtered Position/Velocity: Trial 31 (External)
Position (deg)
Velocity (deg/s)
Time (s)
0
-1
-2
-3
-4
-5
-6
-7
-8
-9
200
0
-200
-400
-600
-800
-1000
0
0.1
0.2
0.3
0.4
0.5
0.6
0.7
0.8
0.9
1
Externally Filtered Position
Externally Filtered Velocity

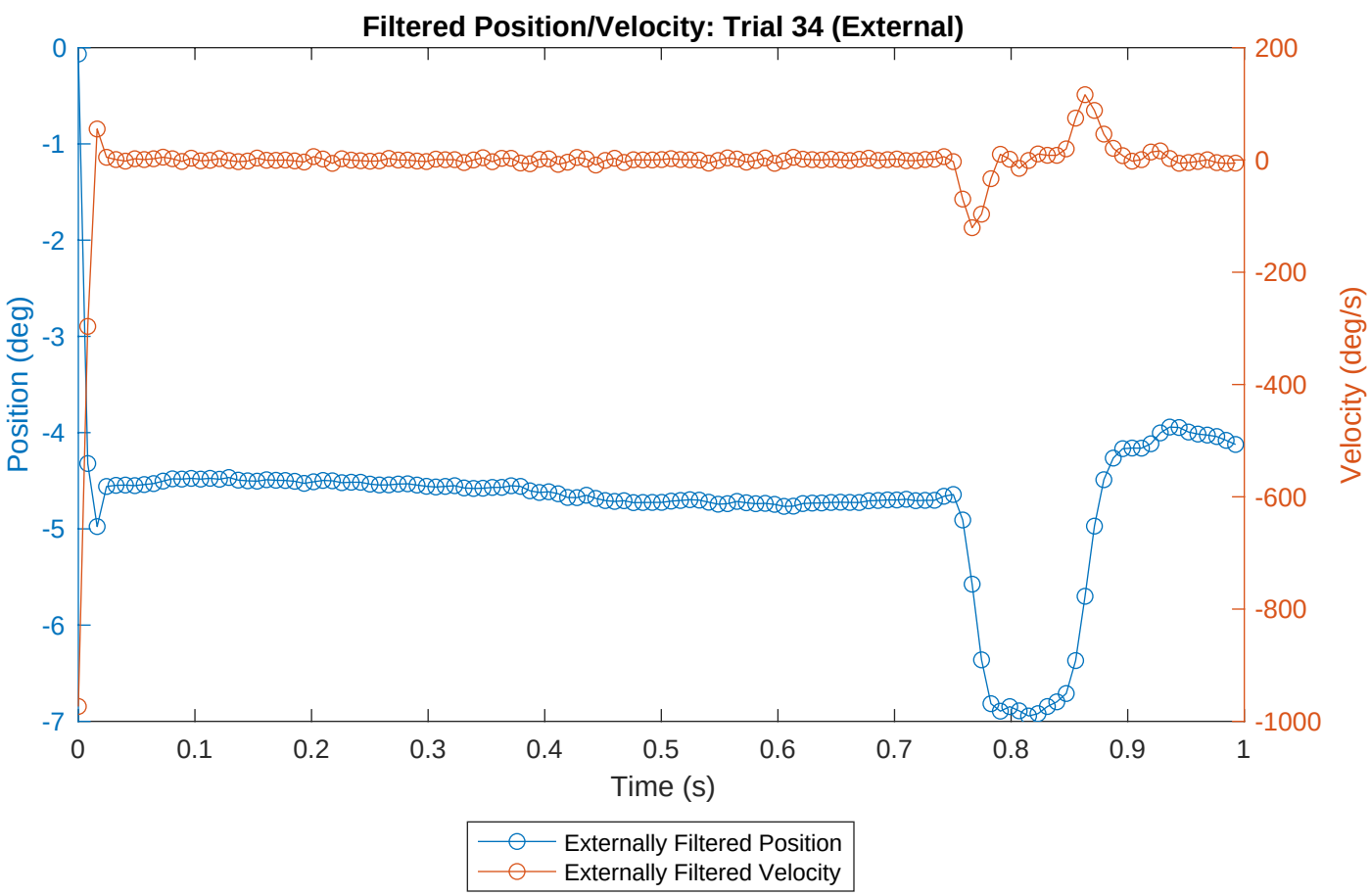

Position (deg)
Time (s)

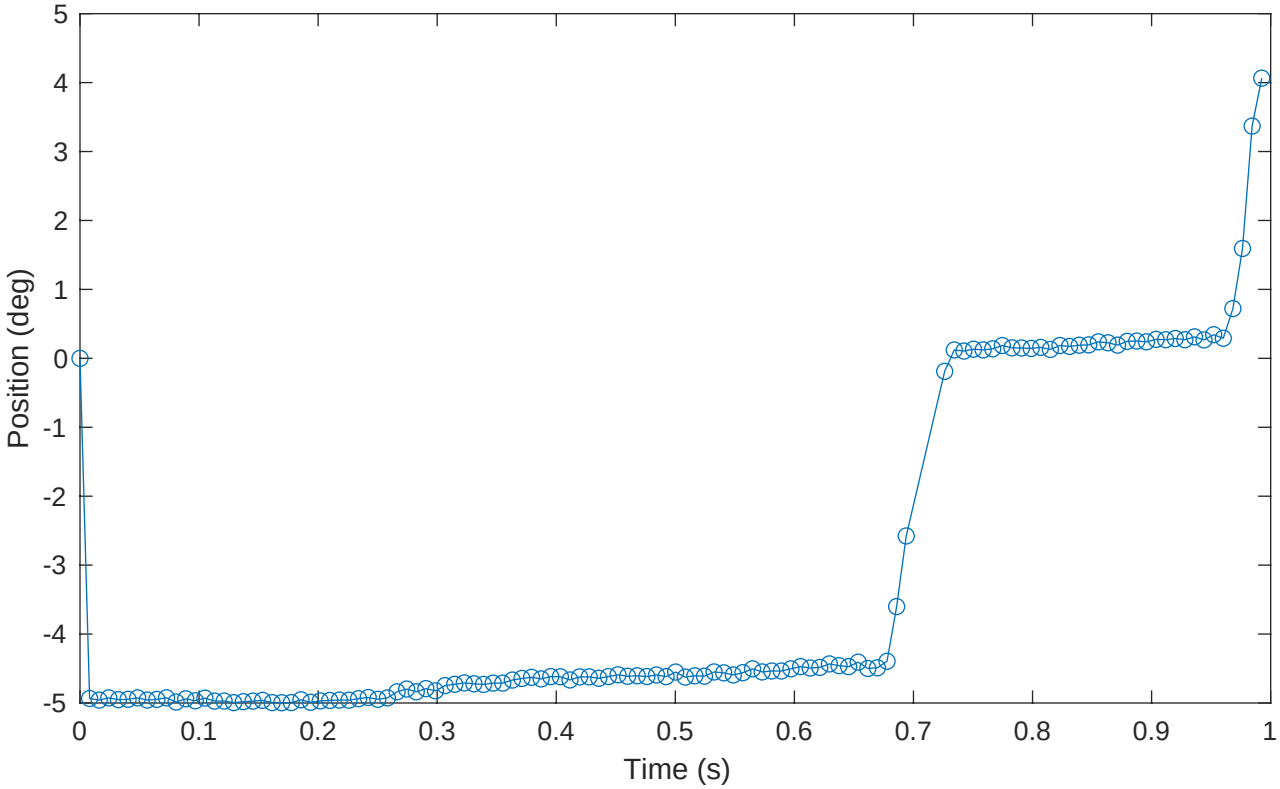

Filtered Position/Velocity: Trial 32 (External)
Position (deg)
Velocity (deg/s)
Time (s)
Externally Filtered Position
Externally Filtered Velocity

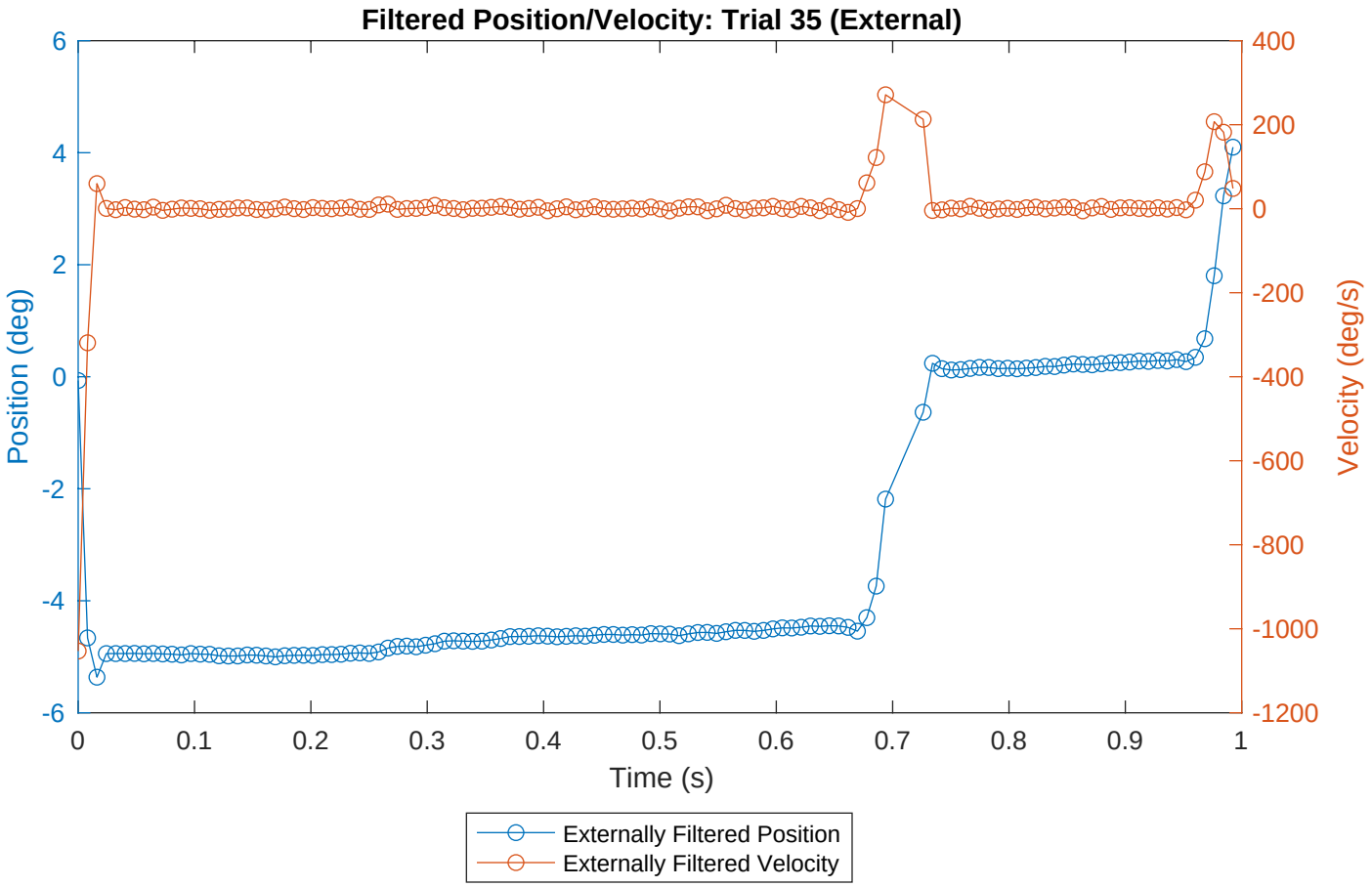

Position (deg)
Time (s)

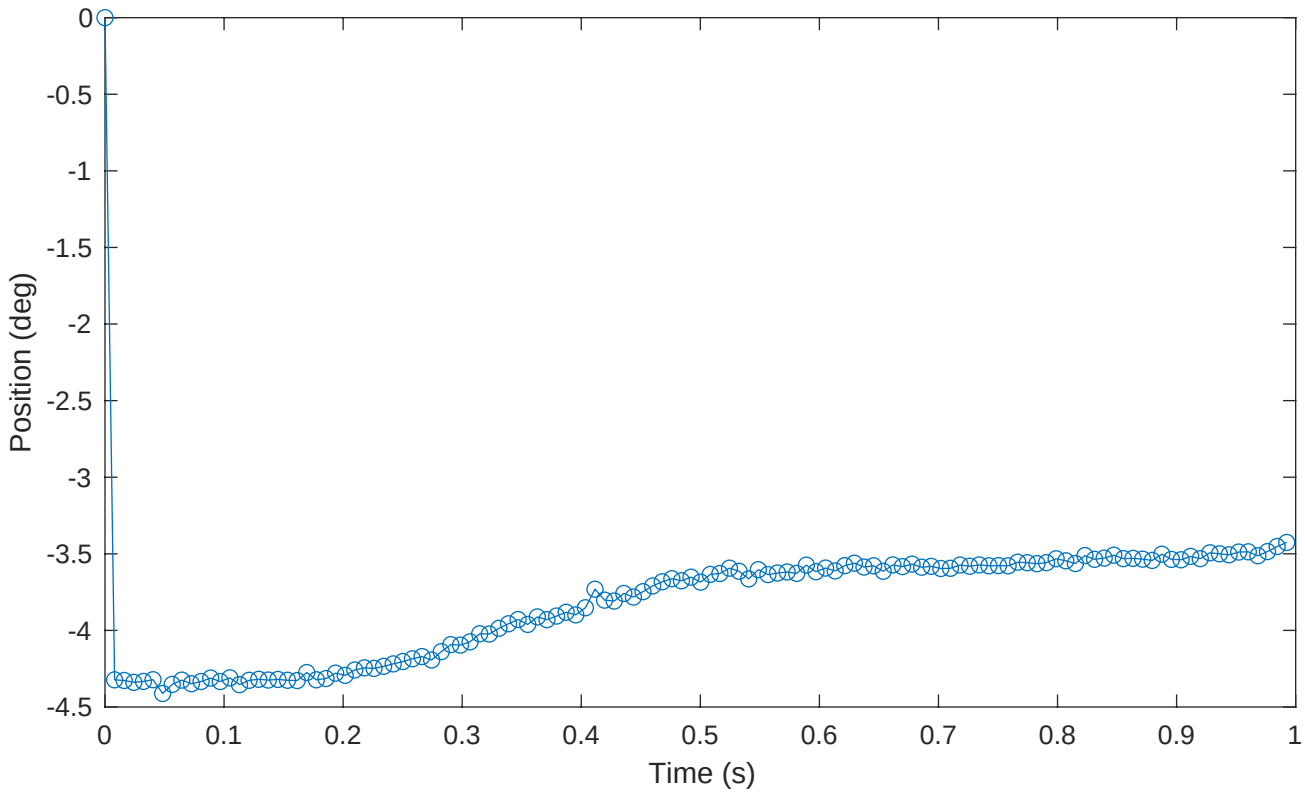

Filtered Position/Velocity: Trial 33 (External)
Position (deg)
Velocity (deg/s)
Time (s)
Externally Filtered Position
Externally Filtered Velocity

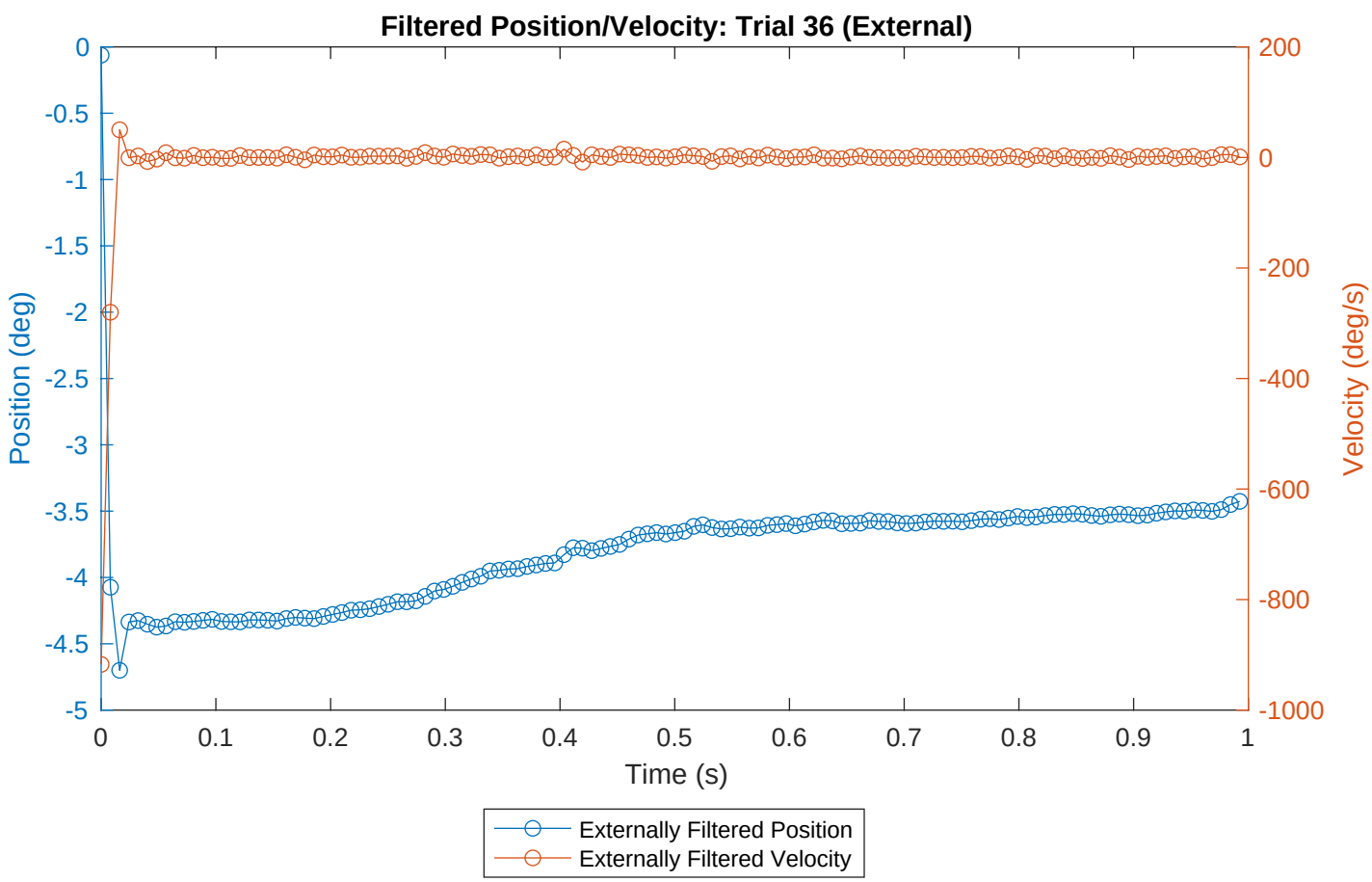

Position (deg)
Time (s)
0
-1
-2
-3
-4
-5
-6
-7
0
0.1
0.2
0.3
0.4
0.5
0.6
0.7
0.8
0.9
1

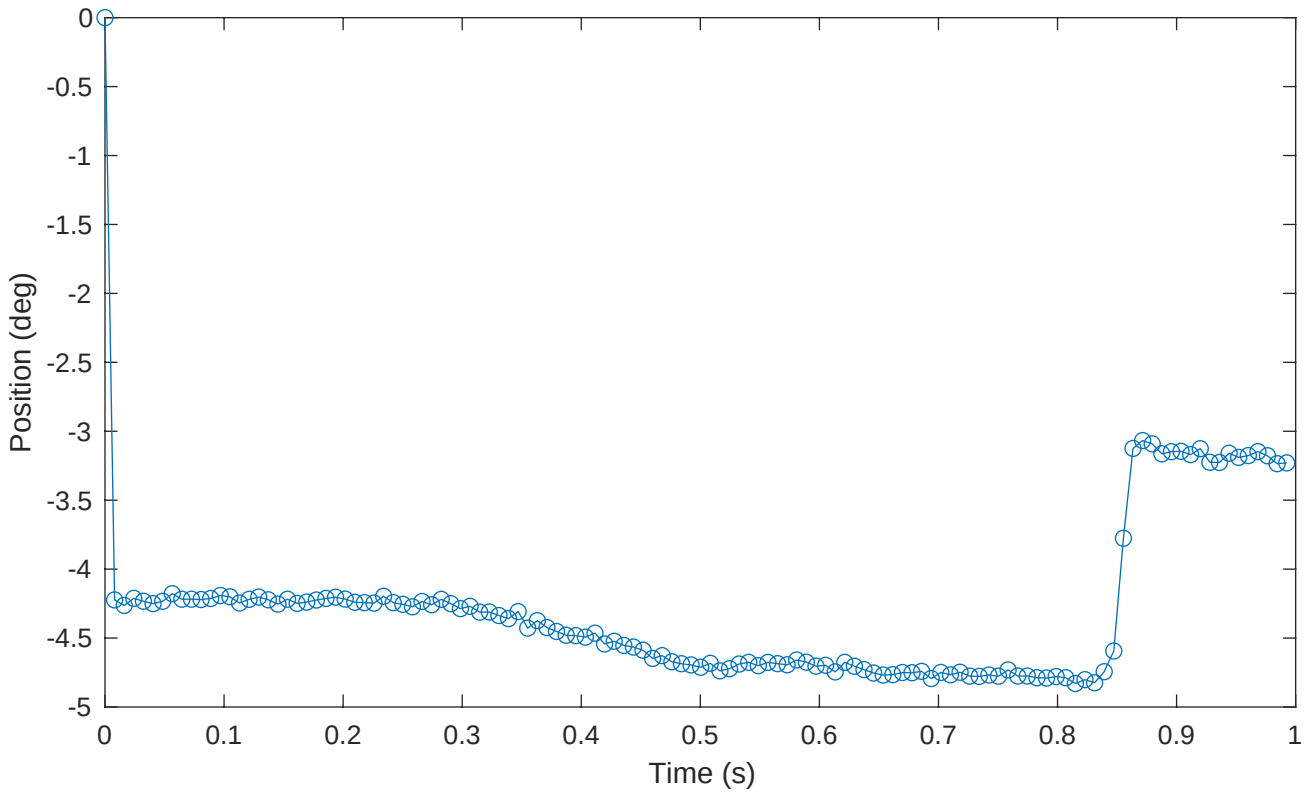

Filtered Position/Velocity: Trial 34 (External)
Position (deg)
Velocity (deg/s)
Time (s)
0
-1
-2
-3
-4
-5
-6
-7
200
0
-200
-400
-600
-800
-1000
0
0.1
0.2
0.3
0.4
0.5
0.6
0.7
0.8
0.9
1
Externally Filtered Position
Externally Filtered Velocity

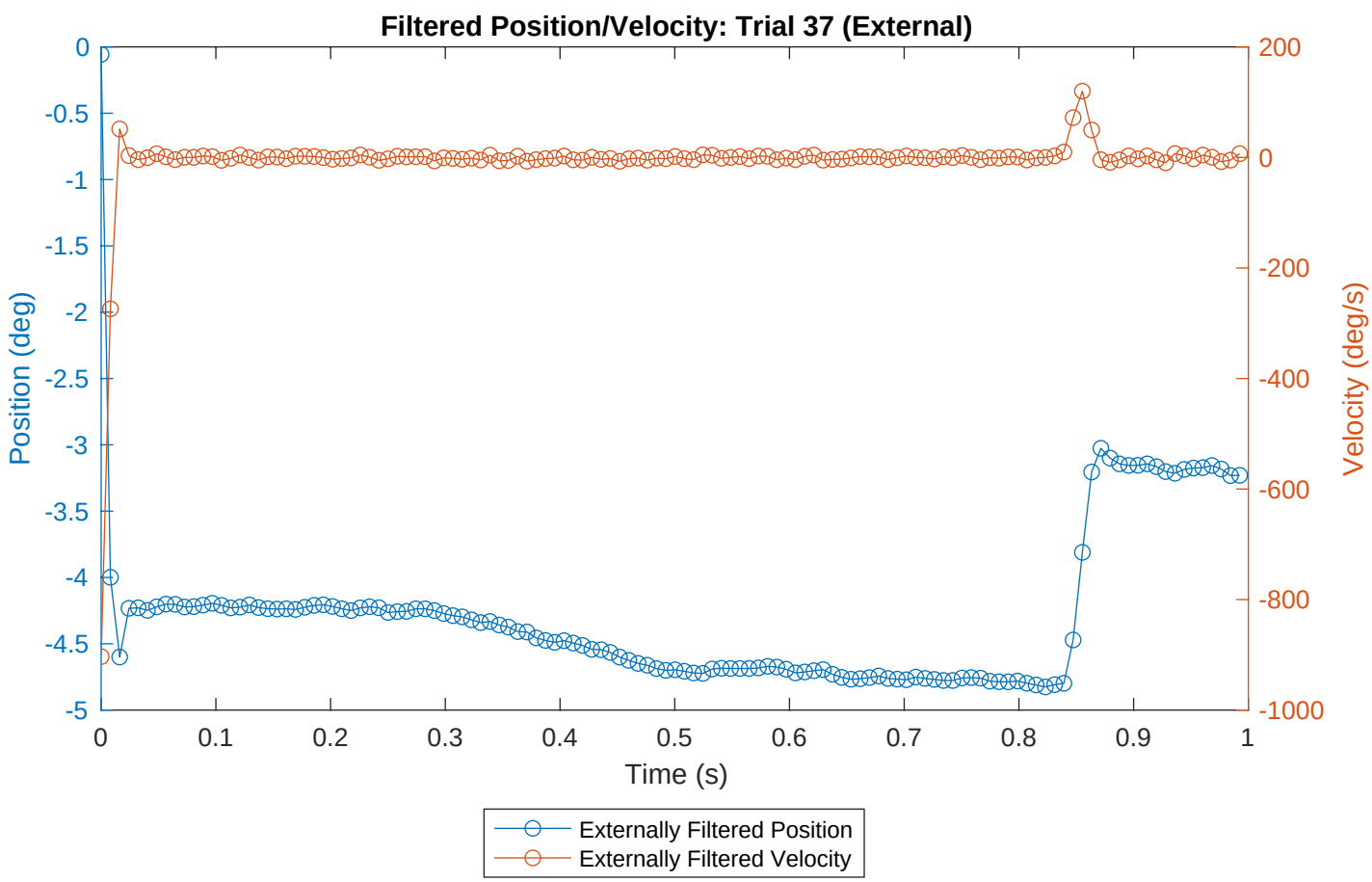

Position (deg)
Time (s)

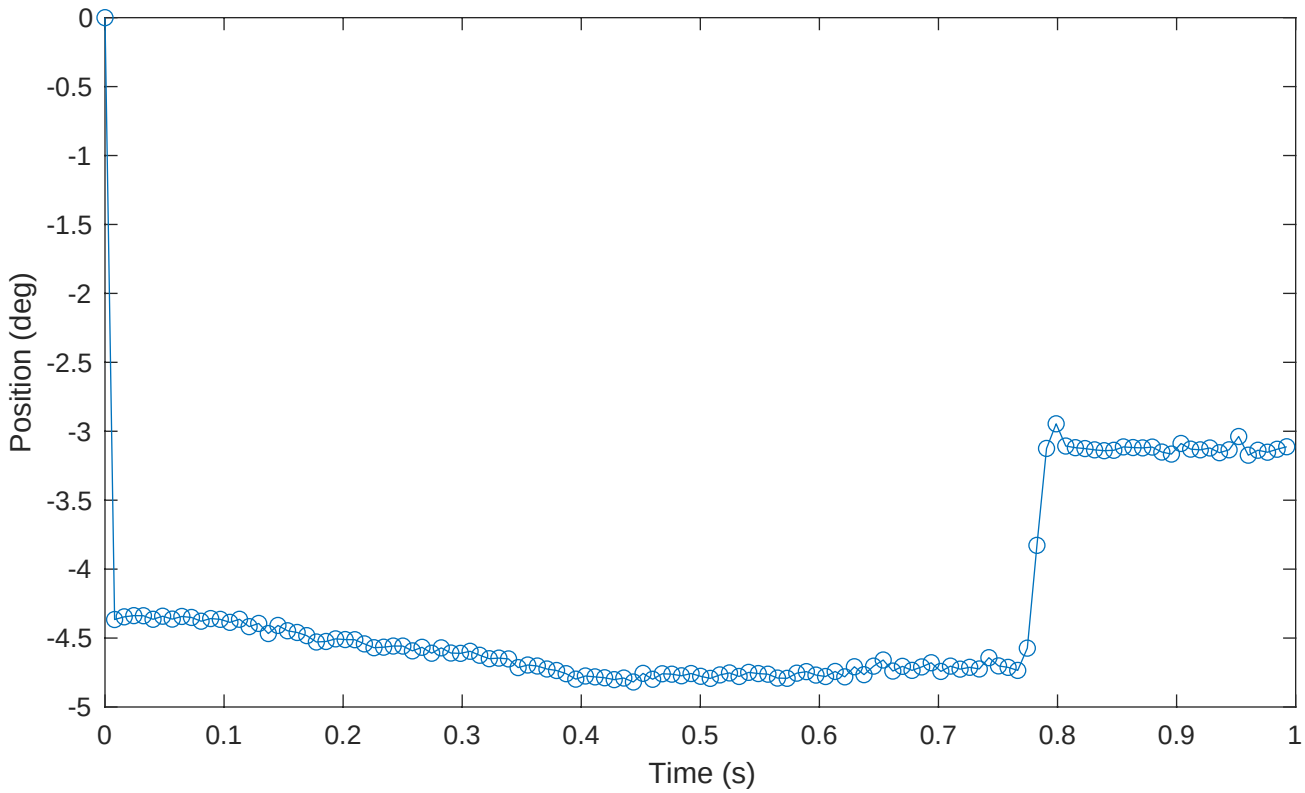

Filtered Position/Velocity: Trial 35 (External)
Position (deg)
Velocity (deg/s)
Time (s)
Externally Filtered Position
Externally Filtered Velocity

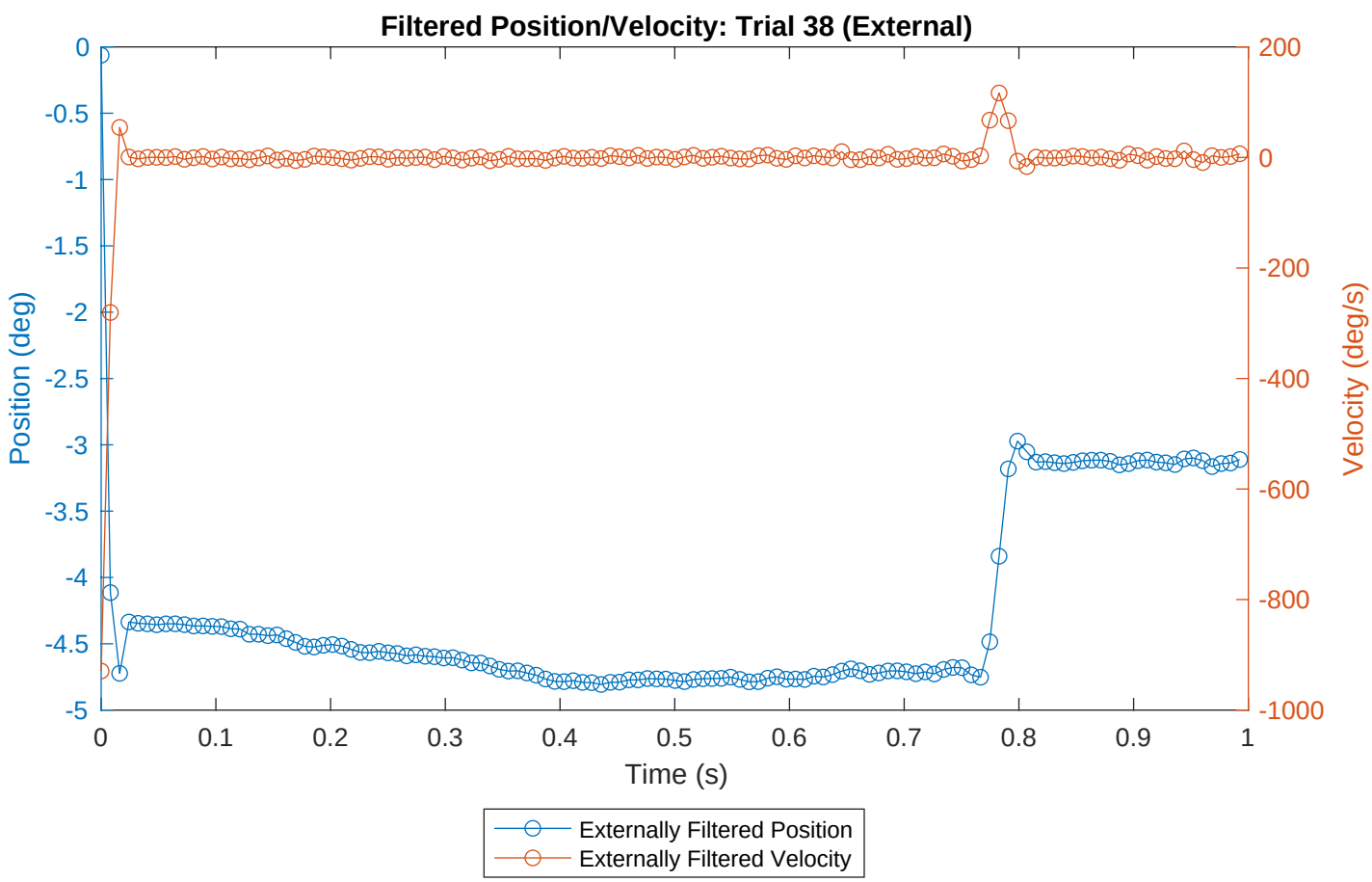

Position (deg)
Time (s)

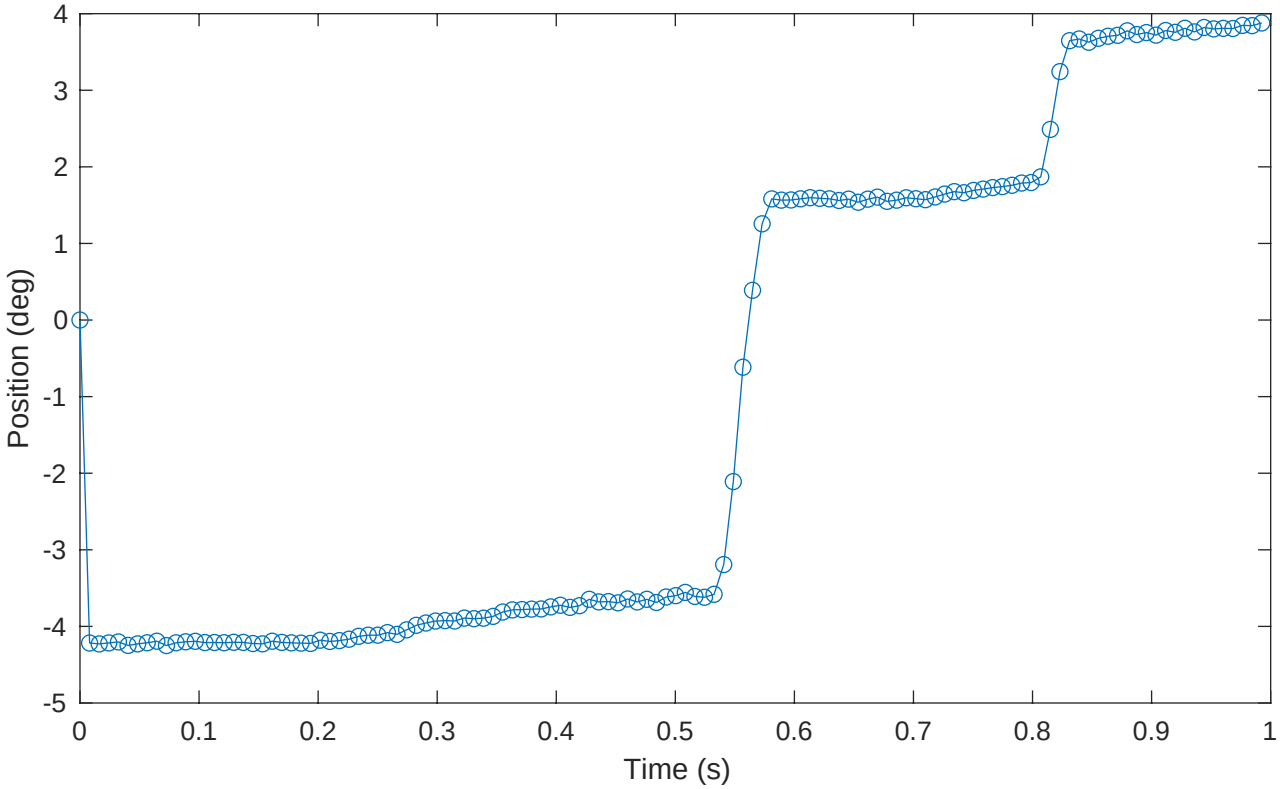

Filtered Position/Velocity: Trial 36 (External)
Position (deg)
Velocity (deg/s)
Time (s)
Externally Filtered Position
Externally Filtered Velocity

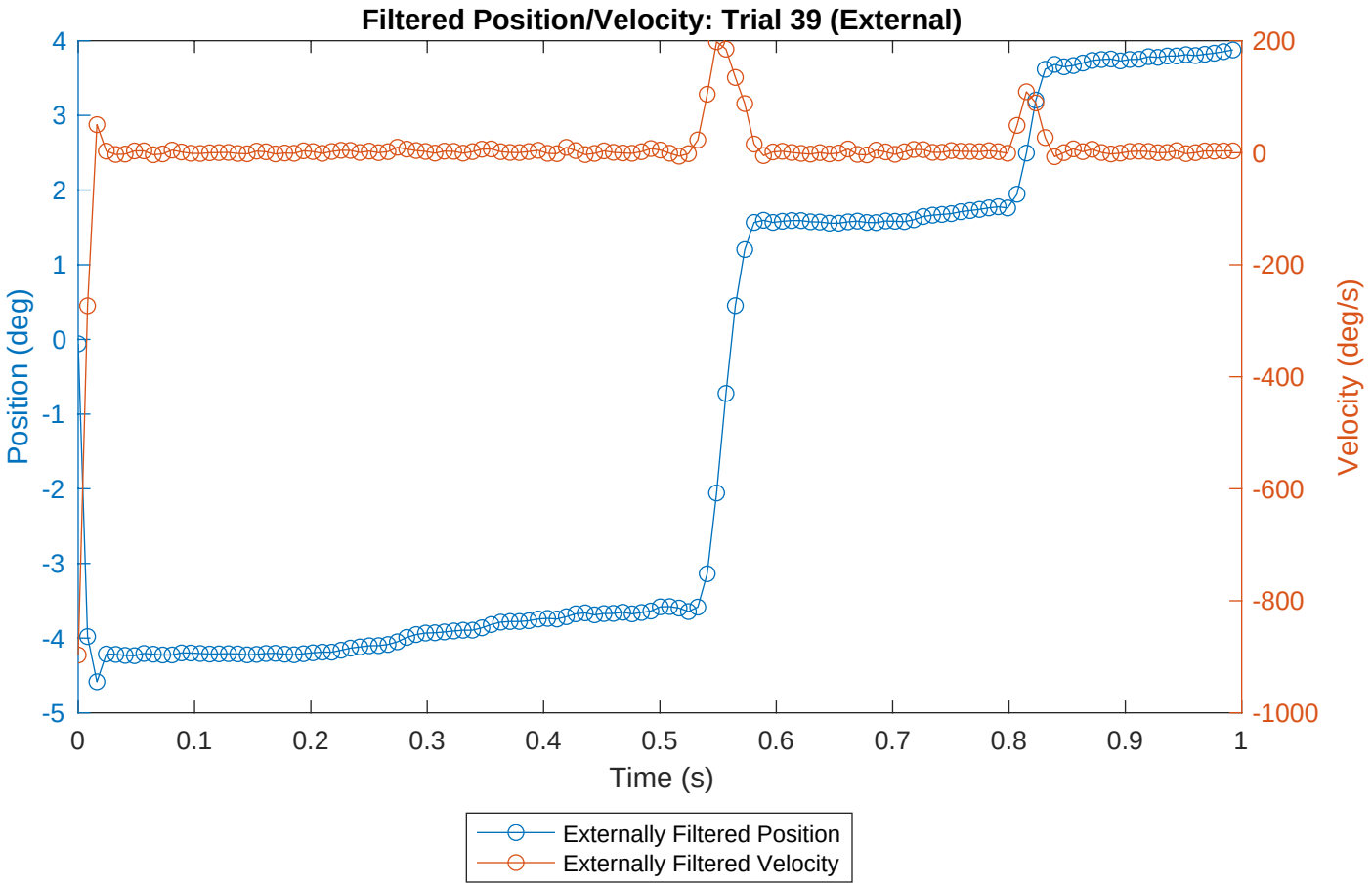

Position (deg)
Time (s)

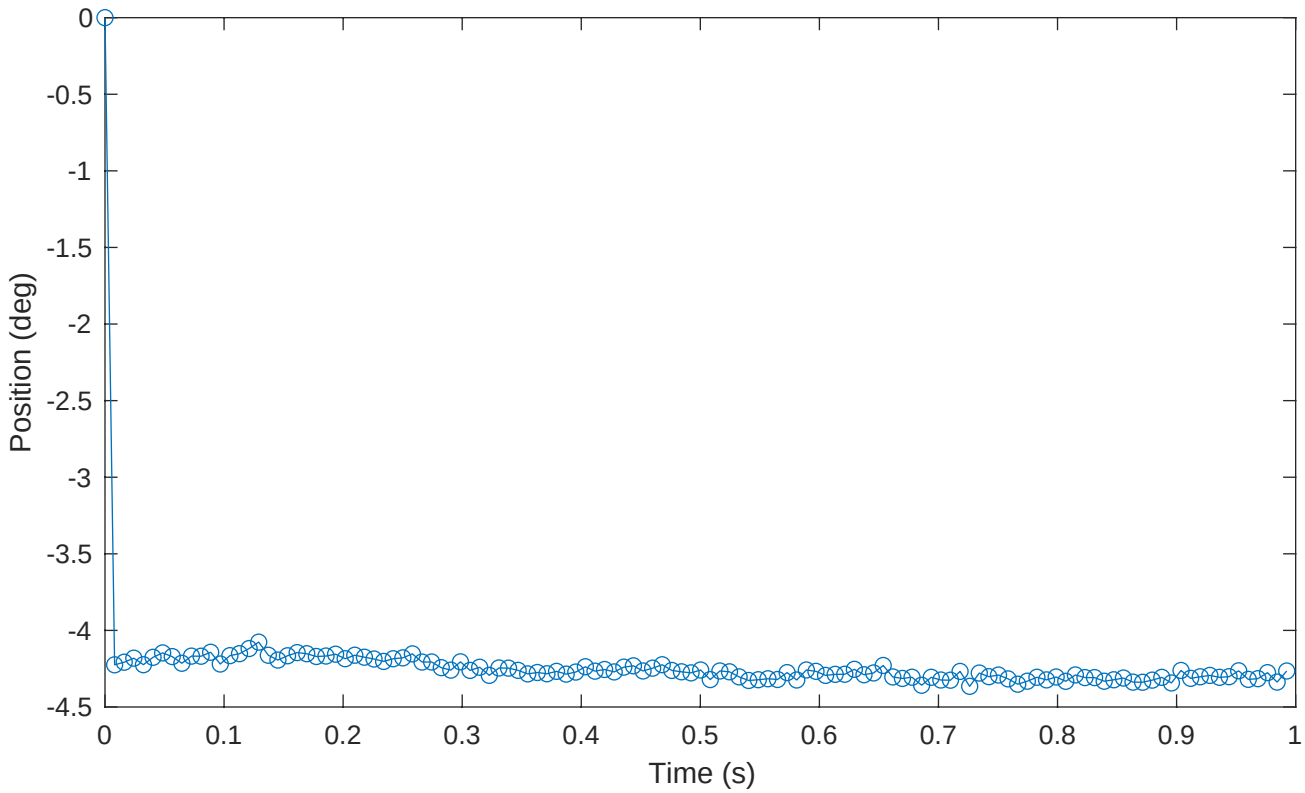

Filtered Position/Velocity: Trial 37 (External)
Position (deg)
Velocity (deg/s)
Time (s)
Externally Filtered Position
Externally Filtered Velocity

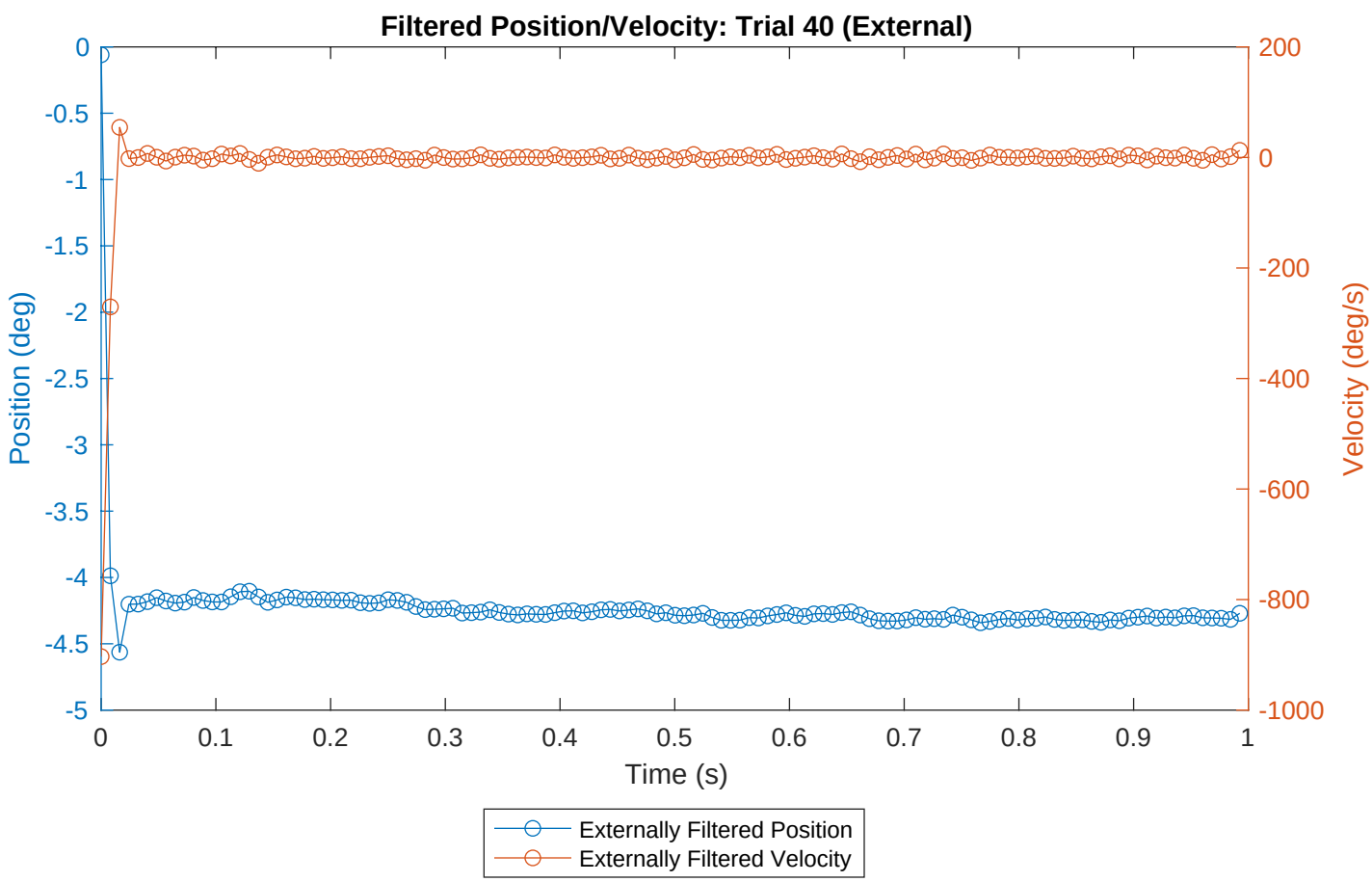

Position (deg)
Time (s)

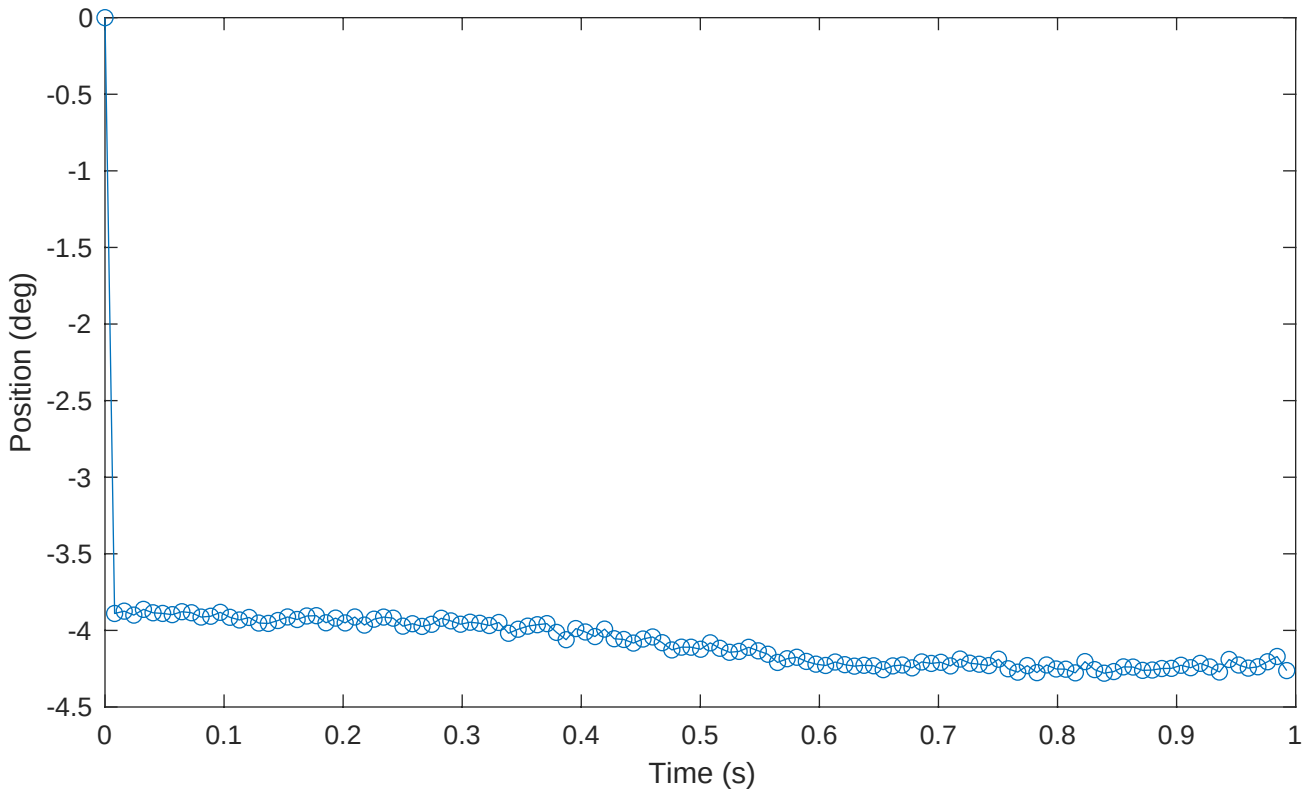

Filtered Position/Velocity: Trial 38 (External)
Position (deg)
Velocity (deg/s)
Time (s)
Externally Filtered Position
Externally Filtered Velocity

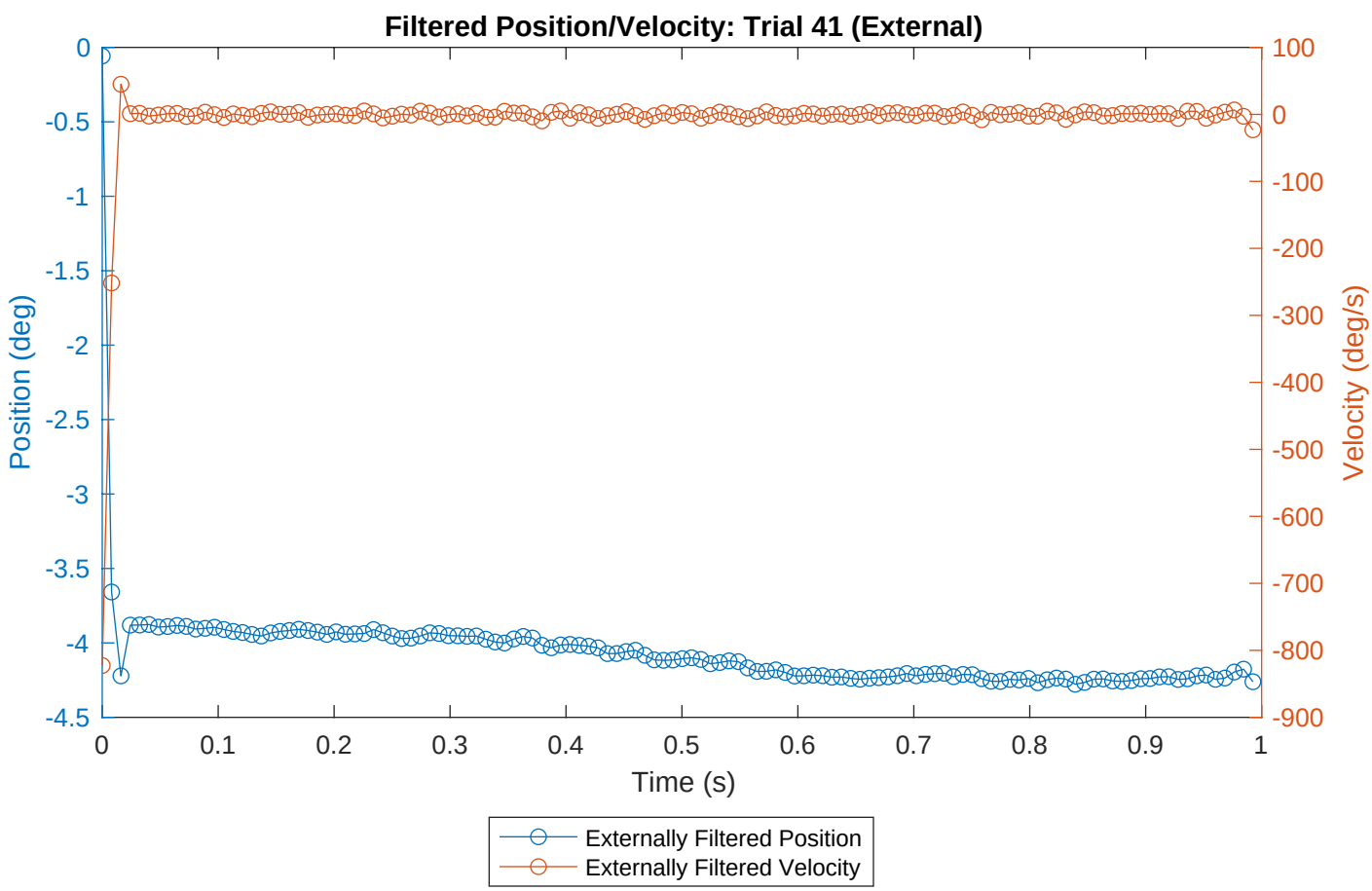

Position (deg)
Time (s)

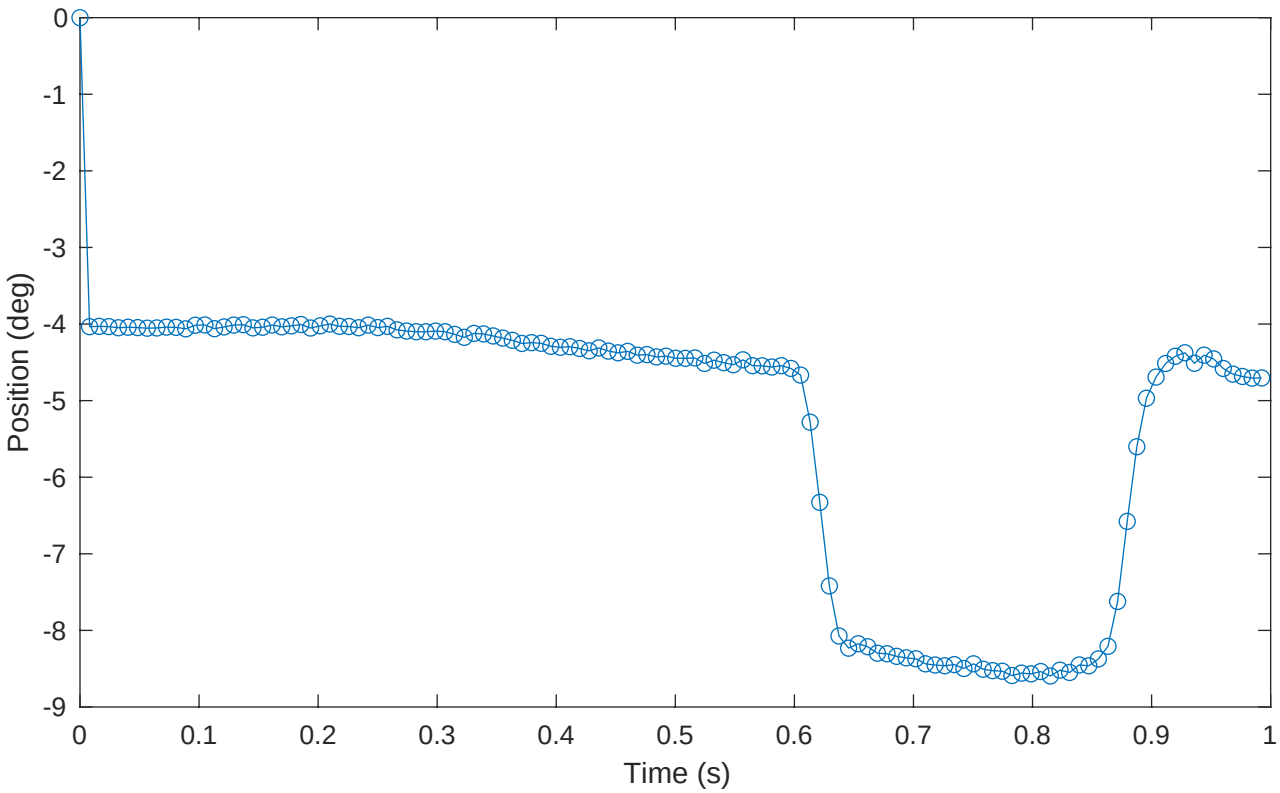

Filtered Position/Velocity: Trial 39 (External)
Position (deg)
Velocity (deg/s)
Time (s)
Externally Filtered Position
Externally Filtered Velocity

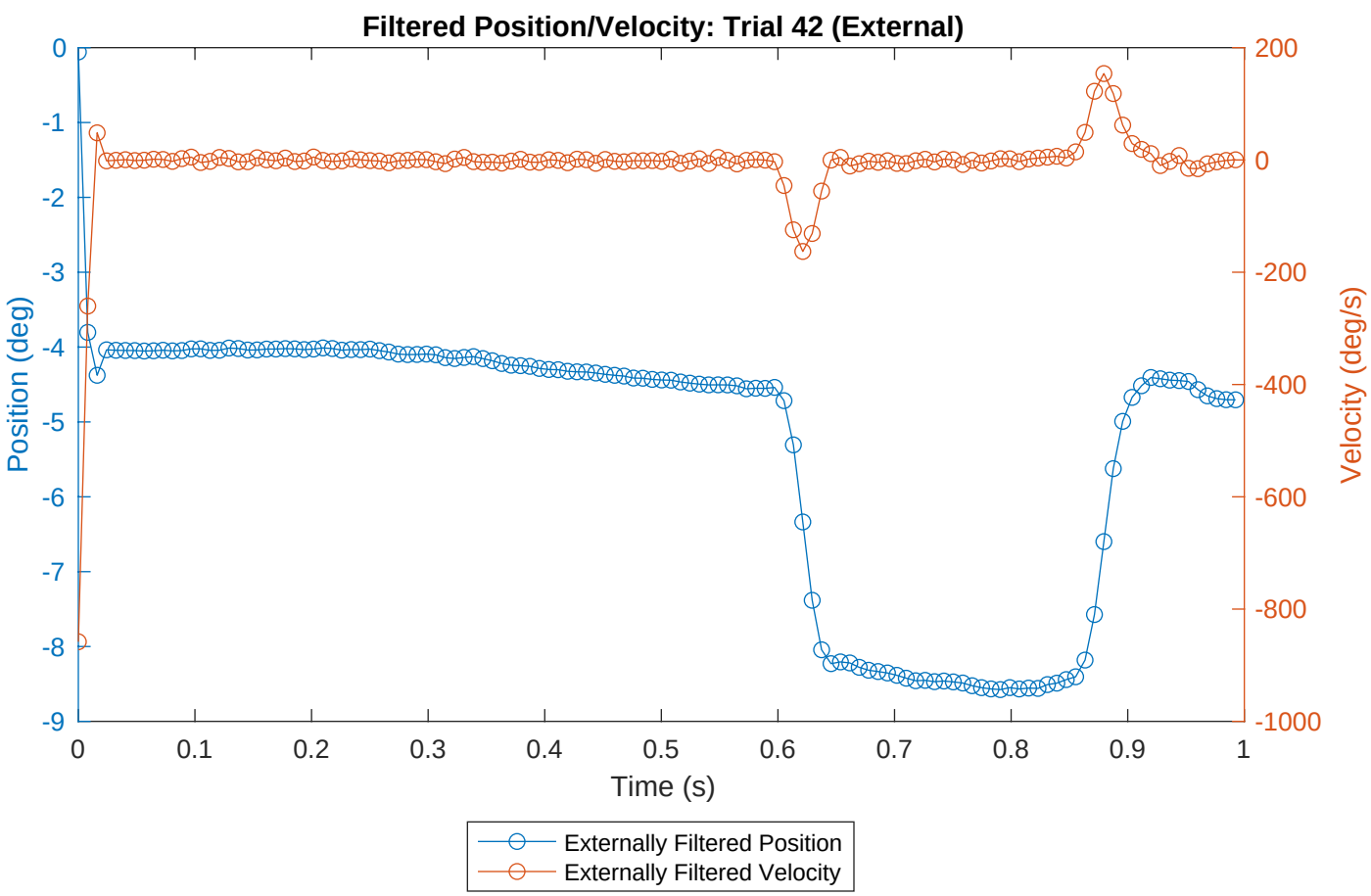

Position (deg)
Time (s)

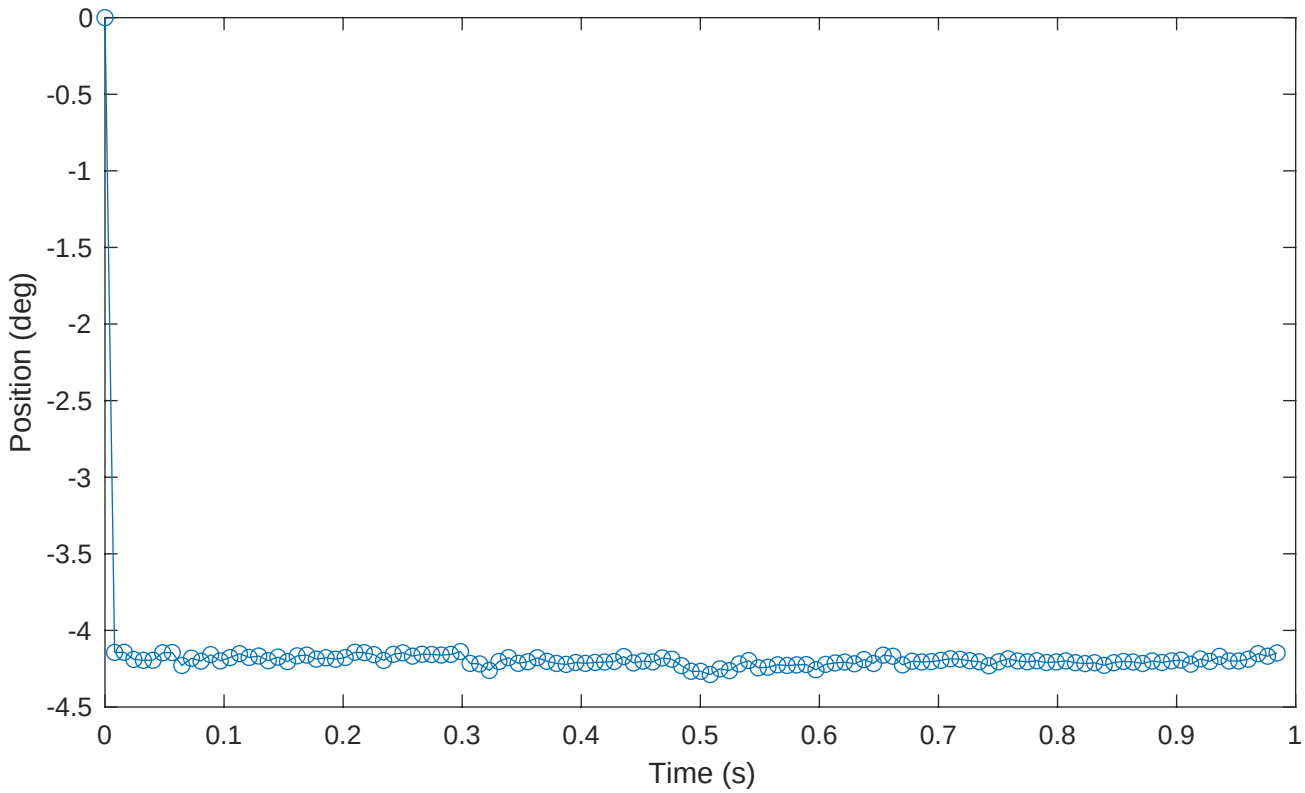

Filtered Position/Velocity: Trial 40 (External)
Position (deg)
Velocity (deg/s)
Time (s)
Externally Filtered Position
Externally Filtered Velocity

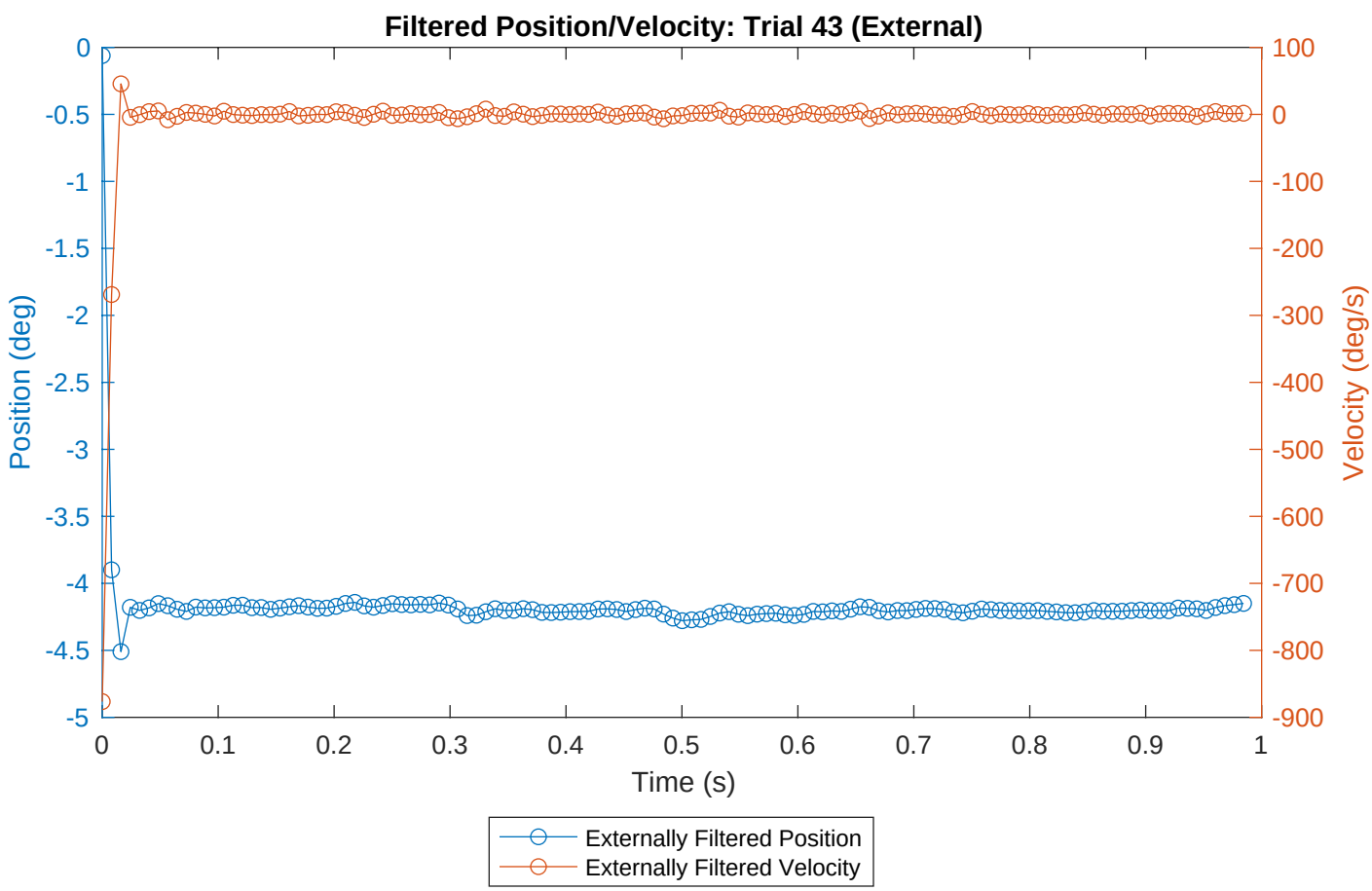

Position (deg)
Time (s)

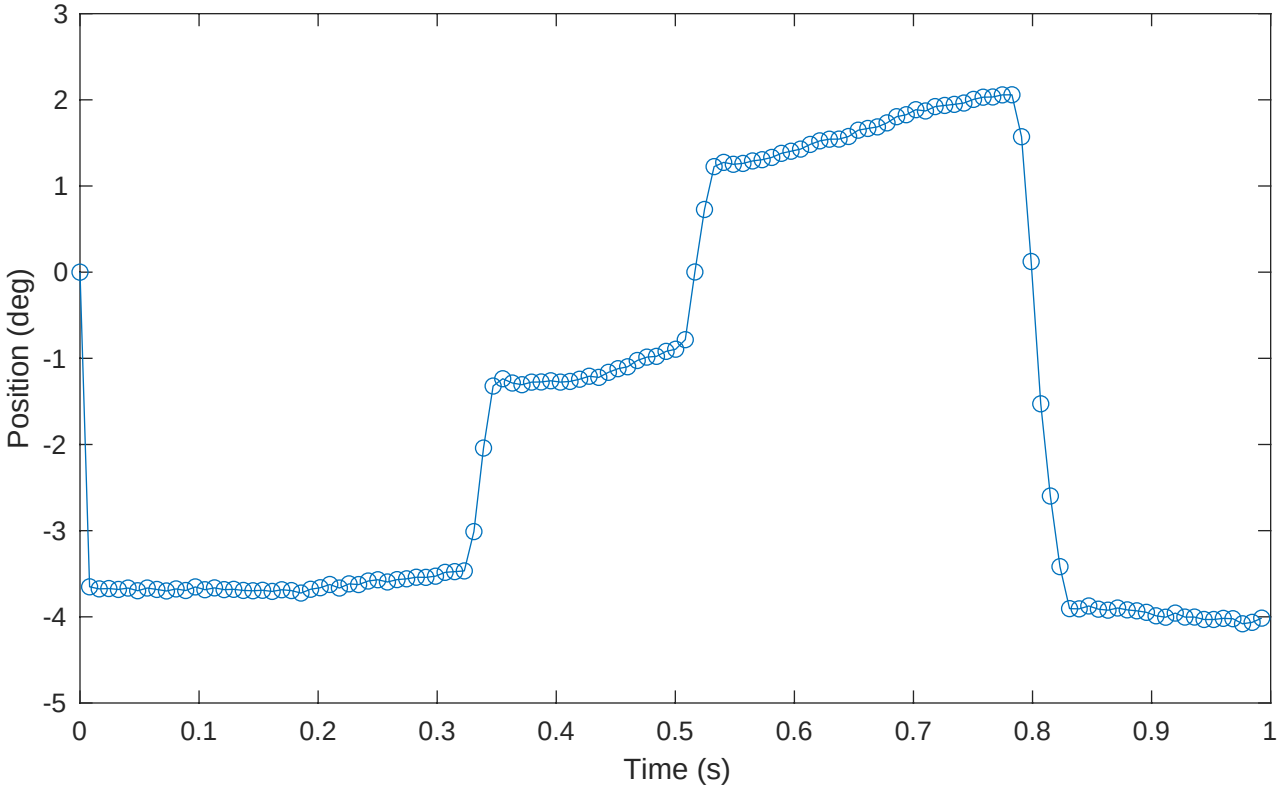

Filtered Position/Velocity: Trial 41 (External)
Position (deg)
Velocity (deg/s)
Time (s)
Externally Filtered Position
Externally Filtered Velocity

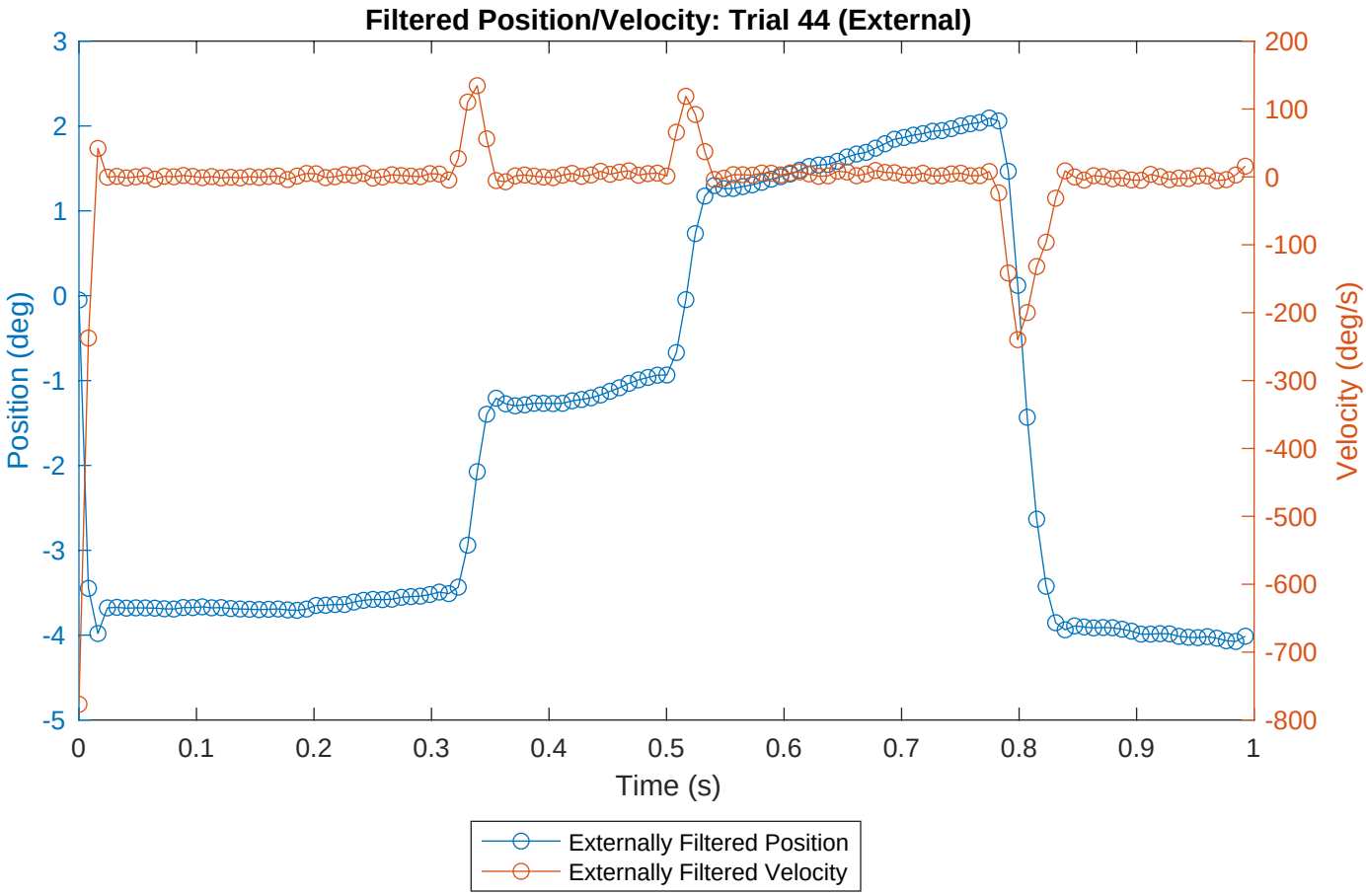

Position (deg)
Time (s)

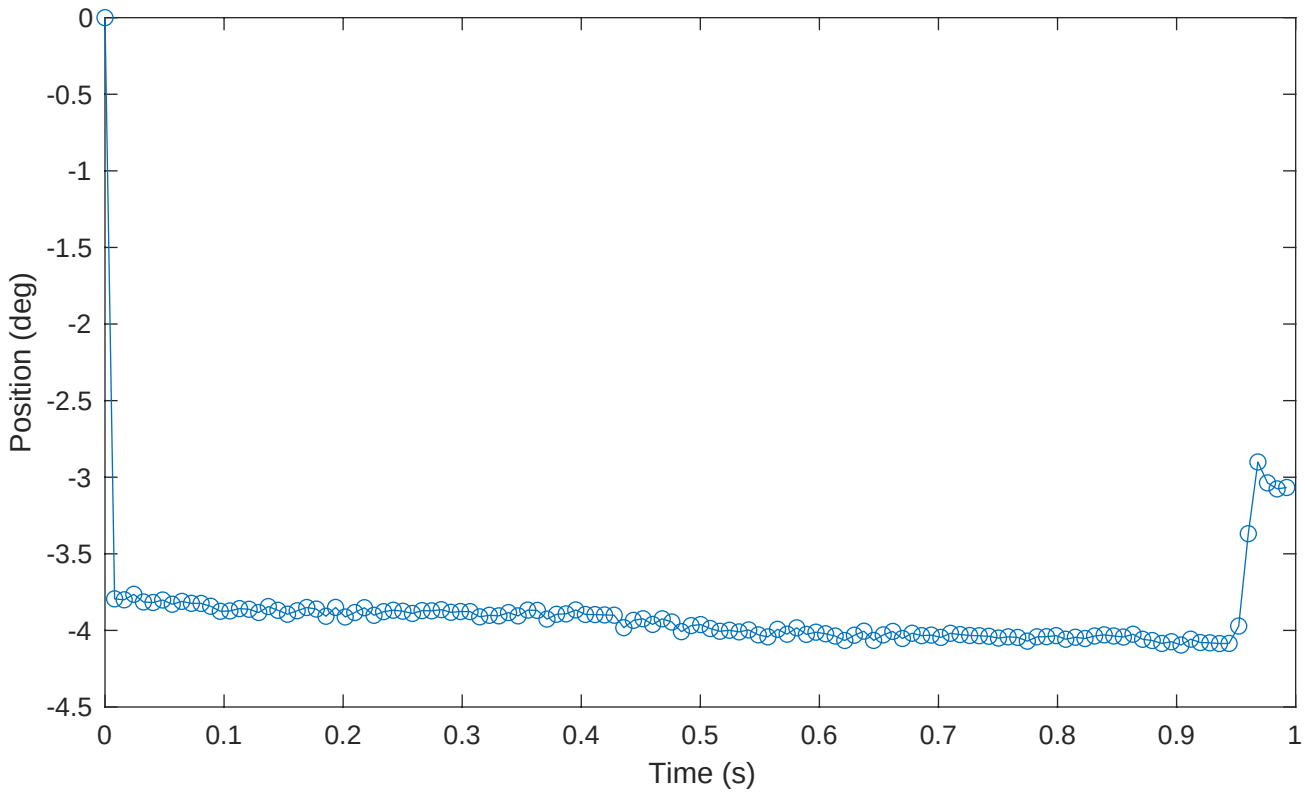

Filtered Position/Velocity: Trial 42 (External)
Position (deg)
Velocity (deg/s)
Time (s)
Externally Filtered Position
Externally Filtered Velocity

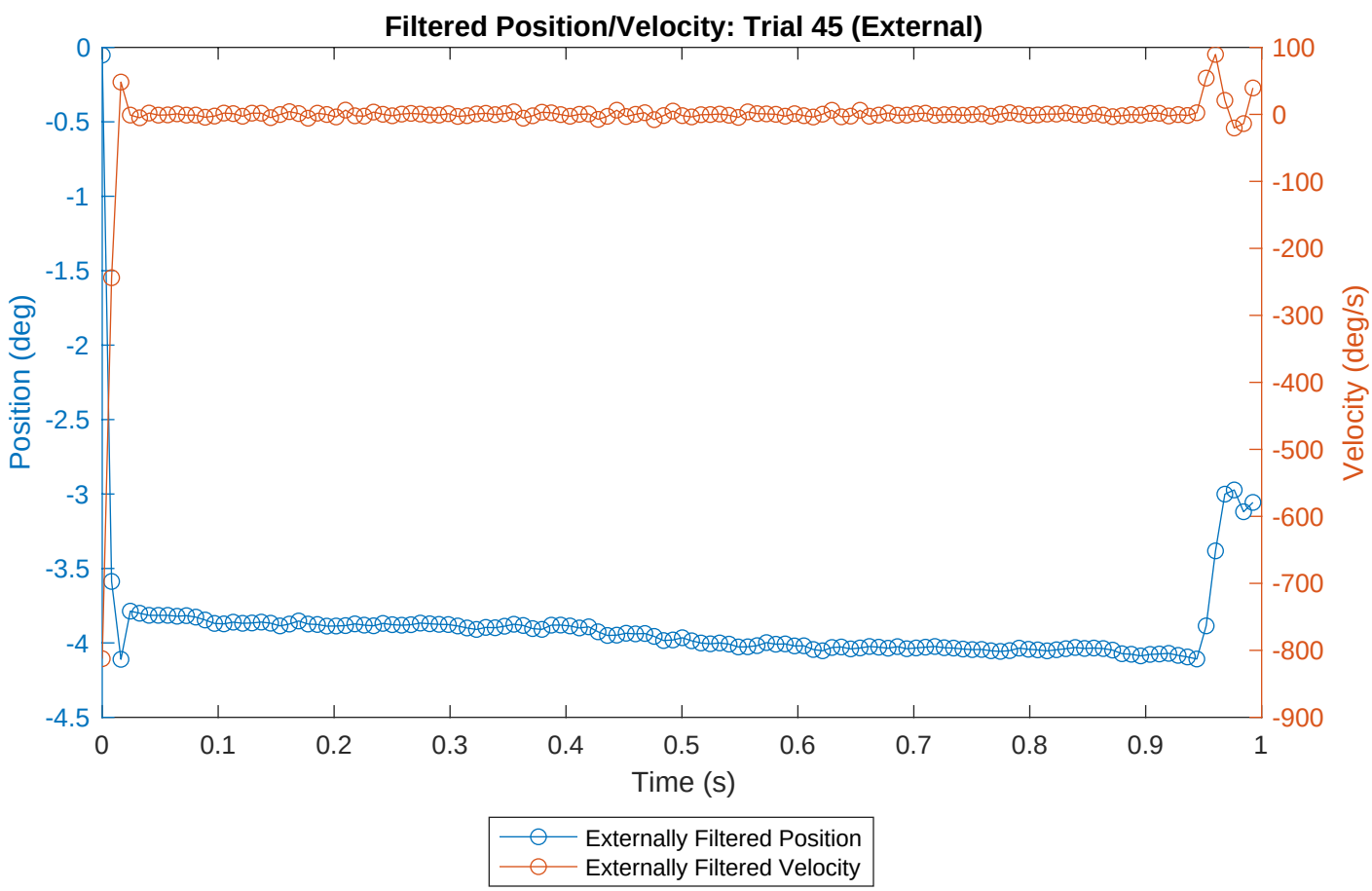

Position (deg)
Time (s)

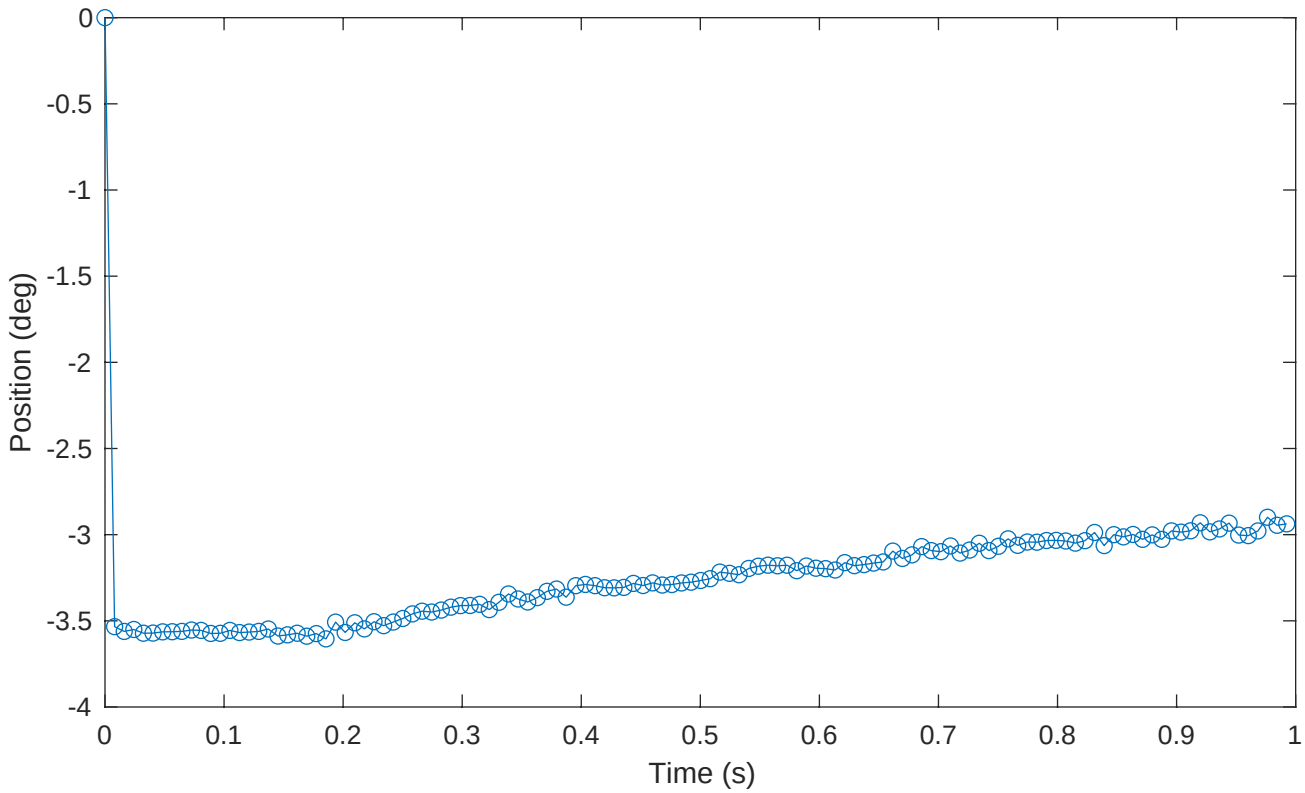

Filtered Position/Velocity: Trial 43 (External)
Position (deg)
Velocity (deg/s)
Time (s)
Externally Filtered Position
Externally Filtered Velocity

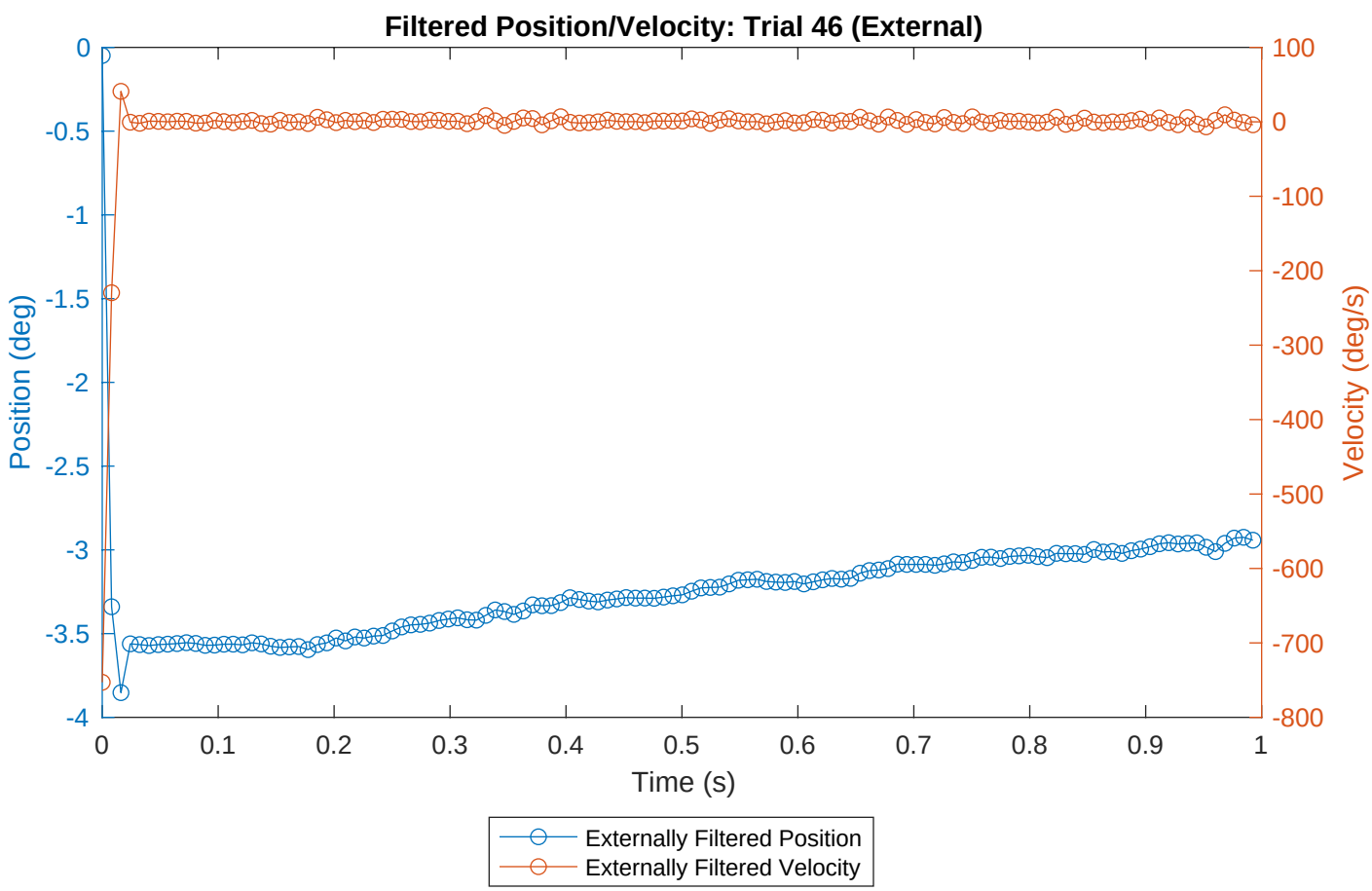

Position (deg)
Time (s)

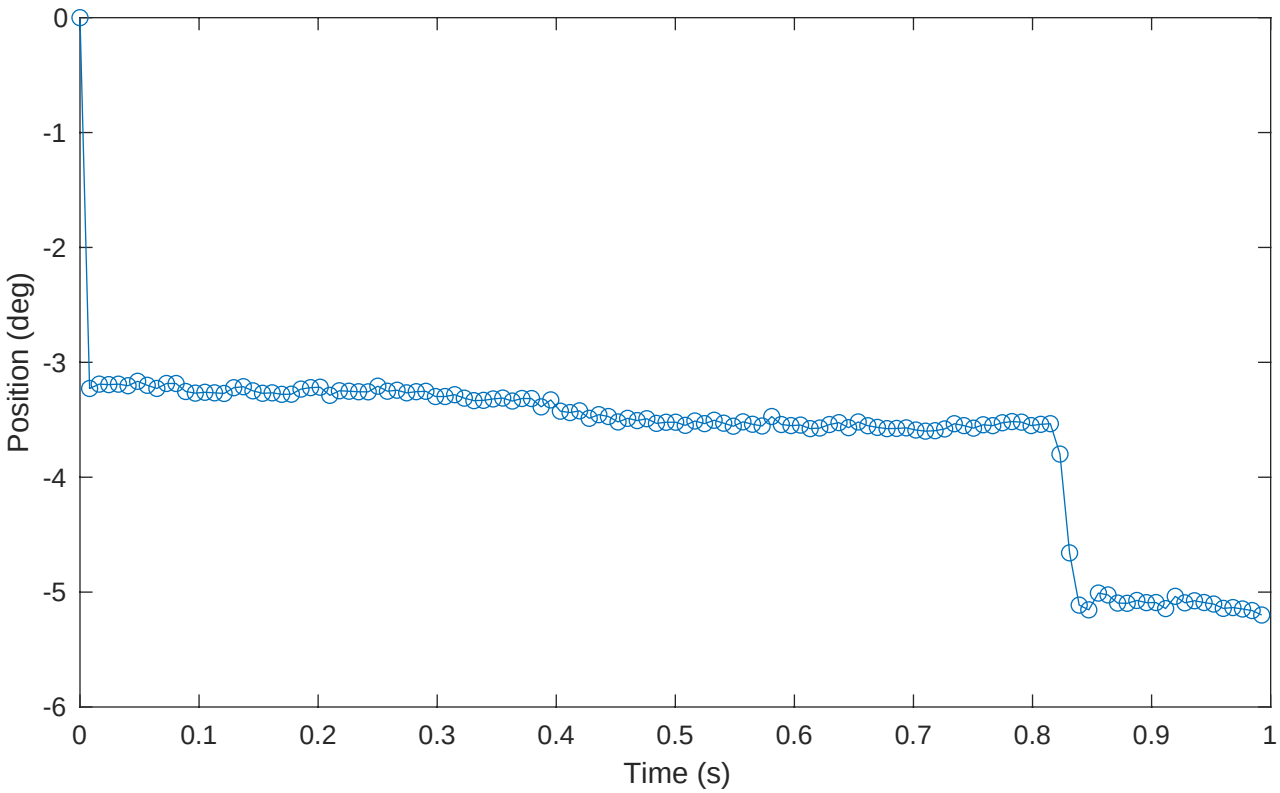

Filtered Position/Velocity: Trial 44 (External)
Position (deg)
Velocity (deg/s)
Time (s)
Externally Filtered Position
Externally Filtered Velocity

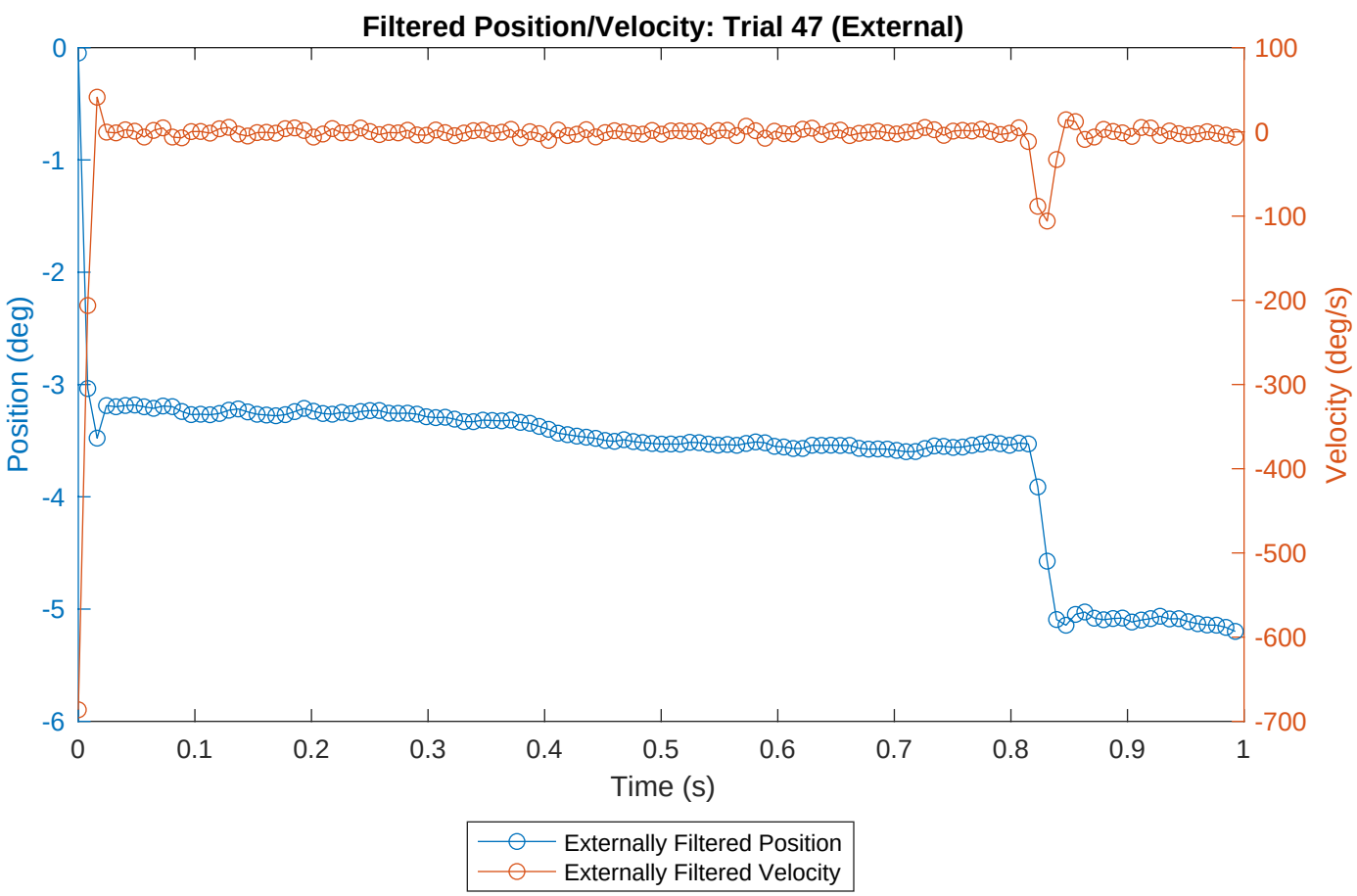

Position (deg)
Time (s)

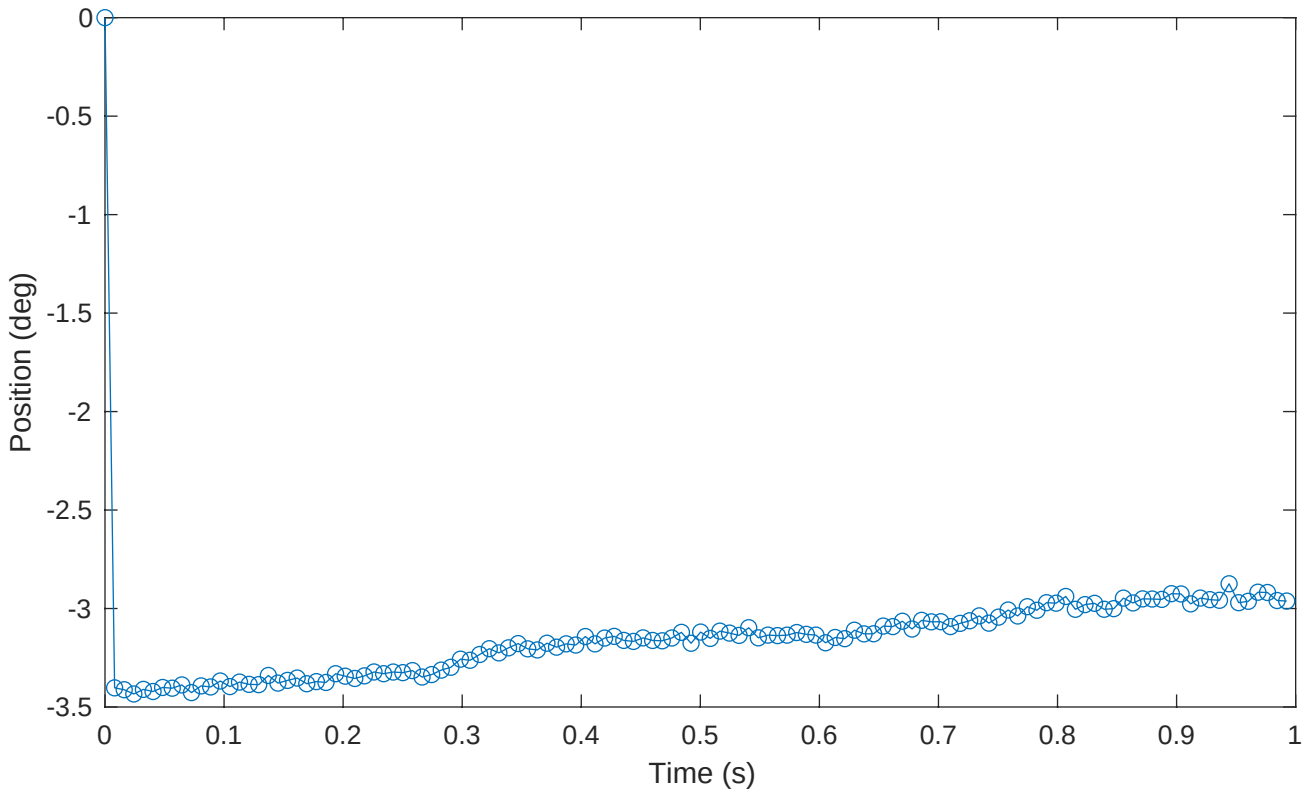

Filtered Position/Velocity: Trial 45 (External)
Position (deg)
Velocity (deg/s)
Time (s)
Externally Filtered Position
Externally Filtered Velocity

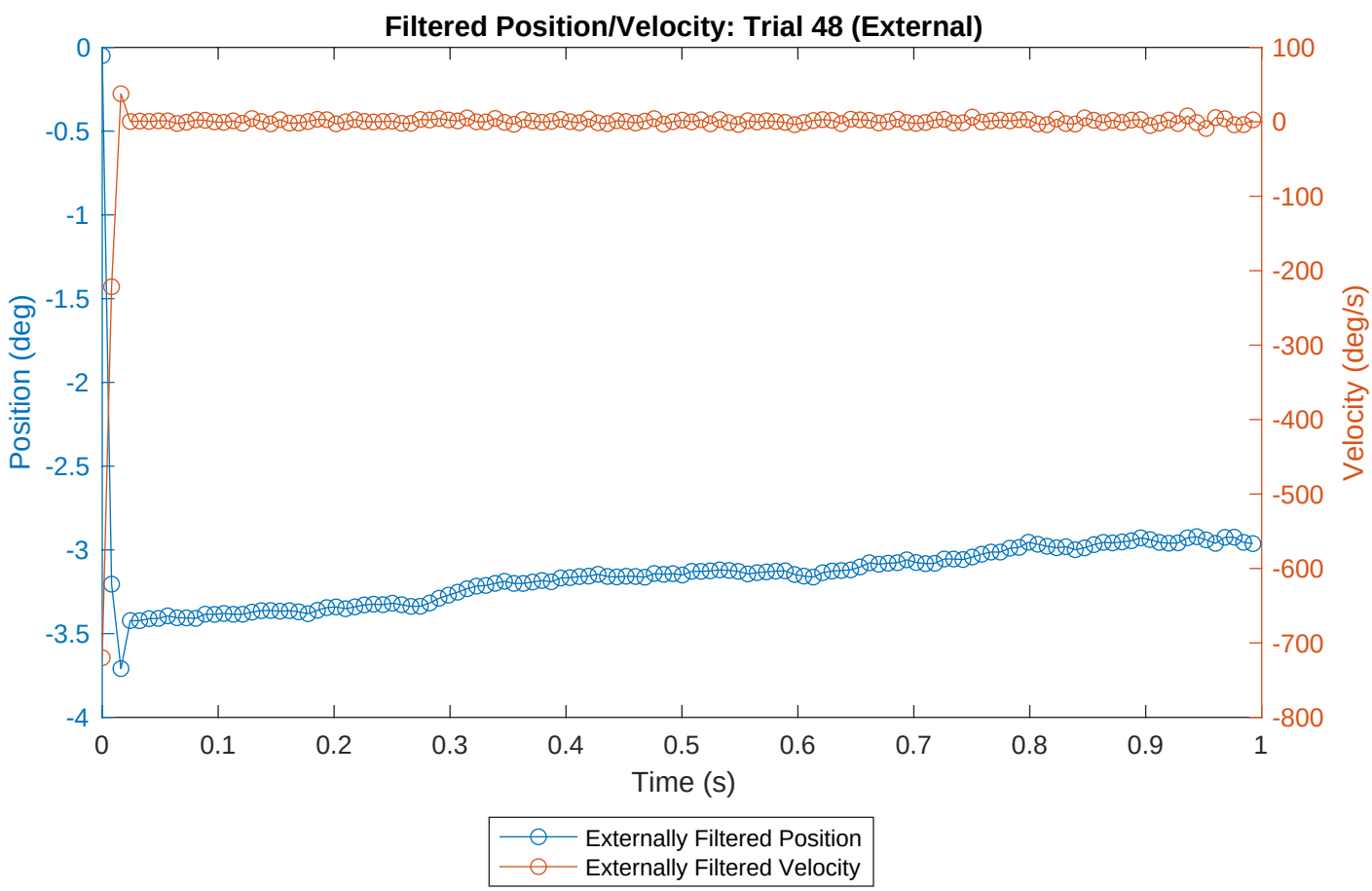

Position (deg)
Time (s)
0
-0.5
-1
-1.5
-2
-2.5
-3
-3.5
-4
0
0.1
0.2
0.3
0.4
0.5
0.6
0.7
0.8
0.9
1

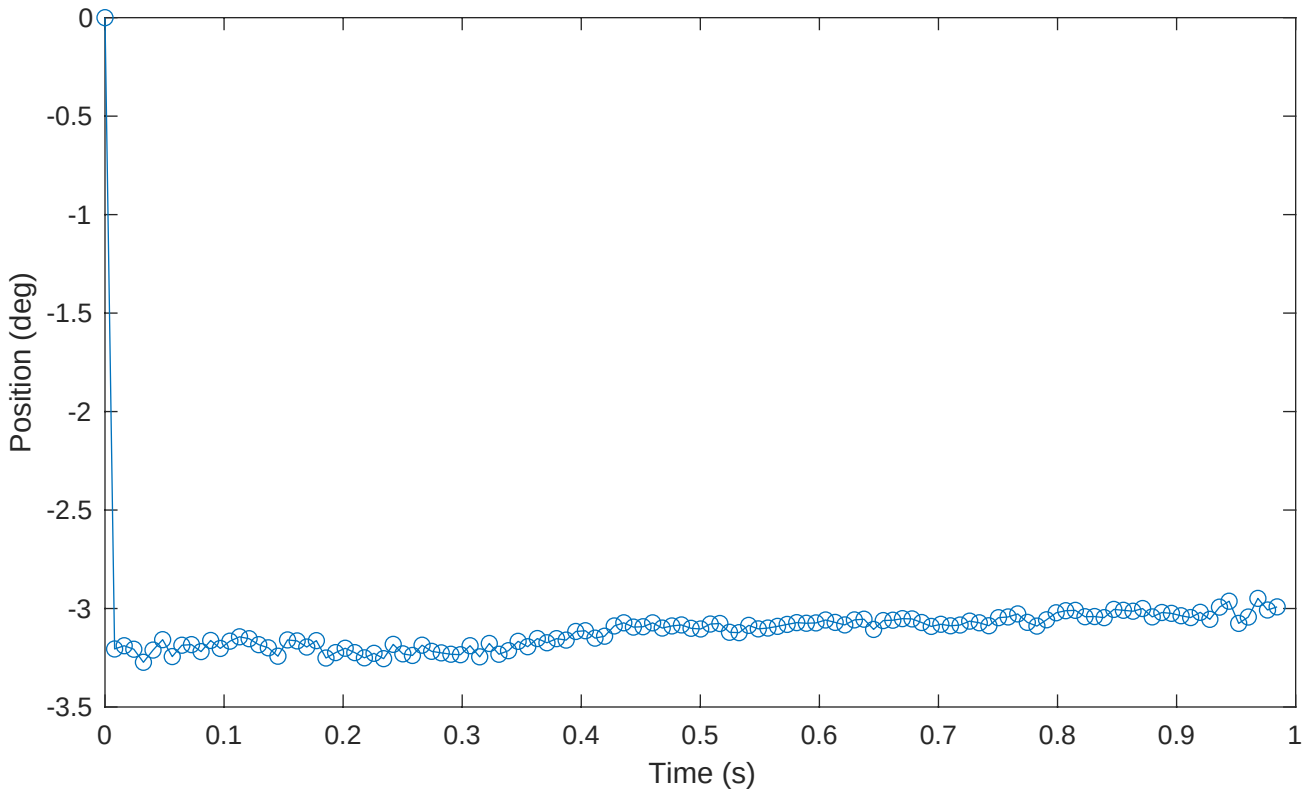

Filtered Position/Velocity: Trial 46 (External)
Position (deg)
Velocity (deg/s)
Time (s)
0
-0.5
-1
-1.5
-2
-2.5
-3
-3.5
-4
100
0
-100
-200
-300
-400
-500
-600
-700
-800
0
0.1
0.2
0.3
0.4
0.5
0.6
0.7
0.8
0.9
1
Externally Filtered Position
Externally Filtered Velocity

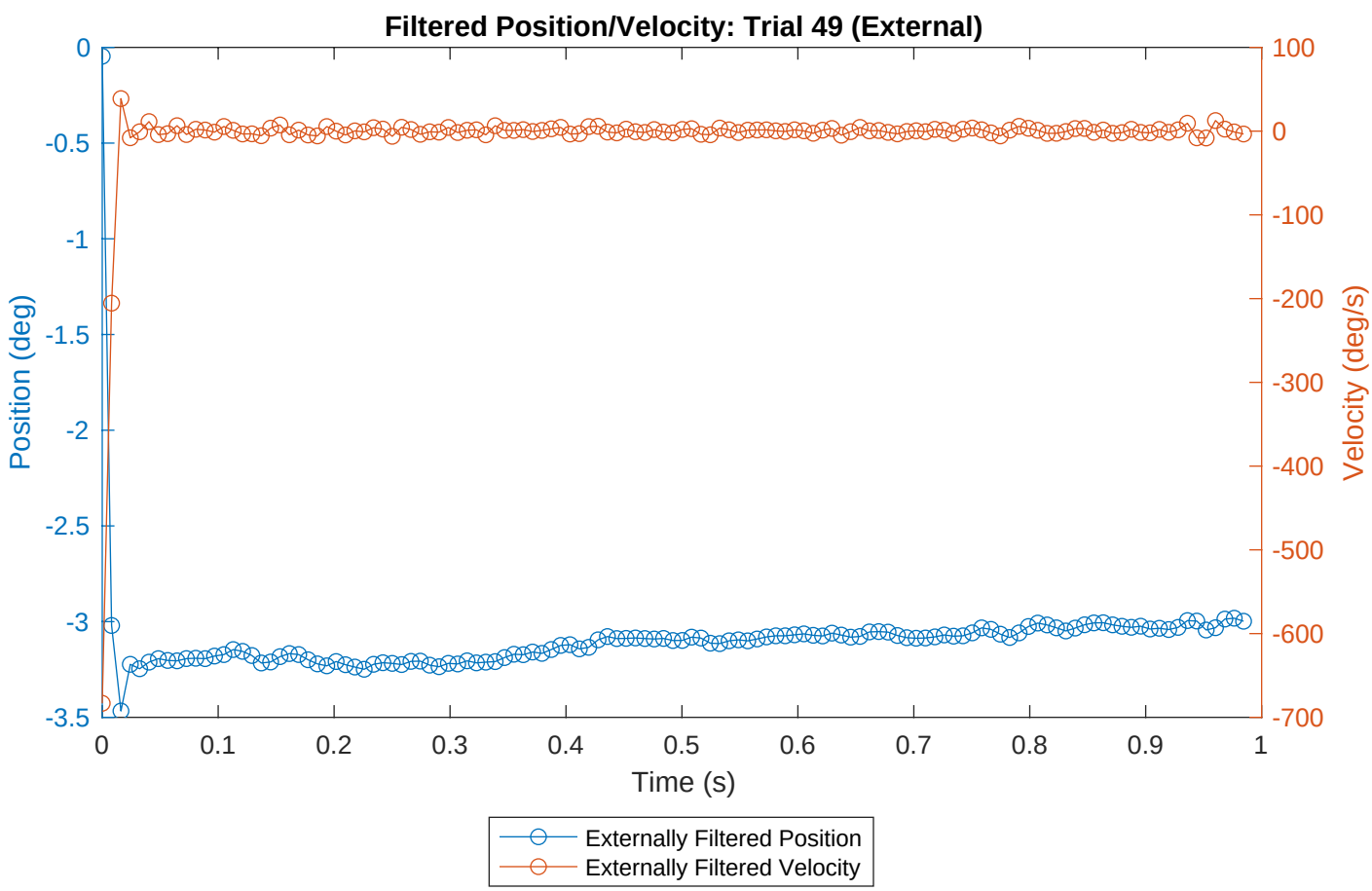

Position (deg)
Time (s)
0
-1
-2
-3
-4
-5
-6
0
0.1
0.2
0.3
0.4
0.5
0.6
0.7
0.8
0.9
1

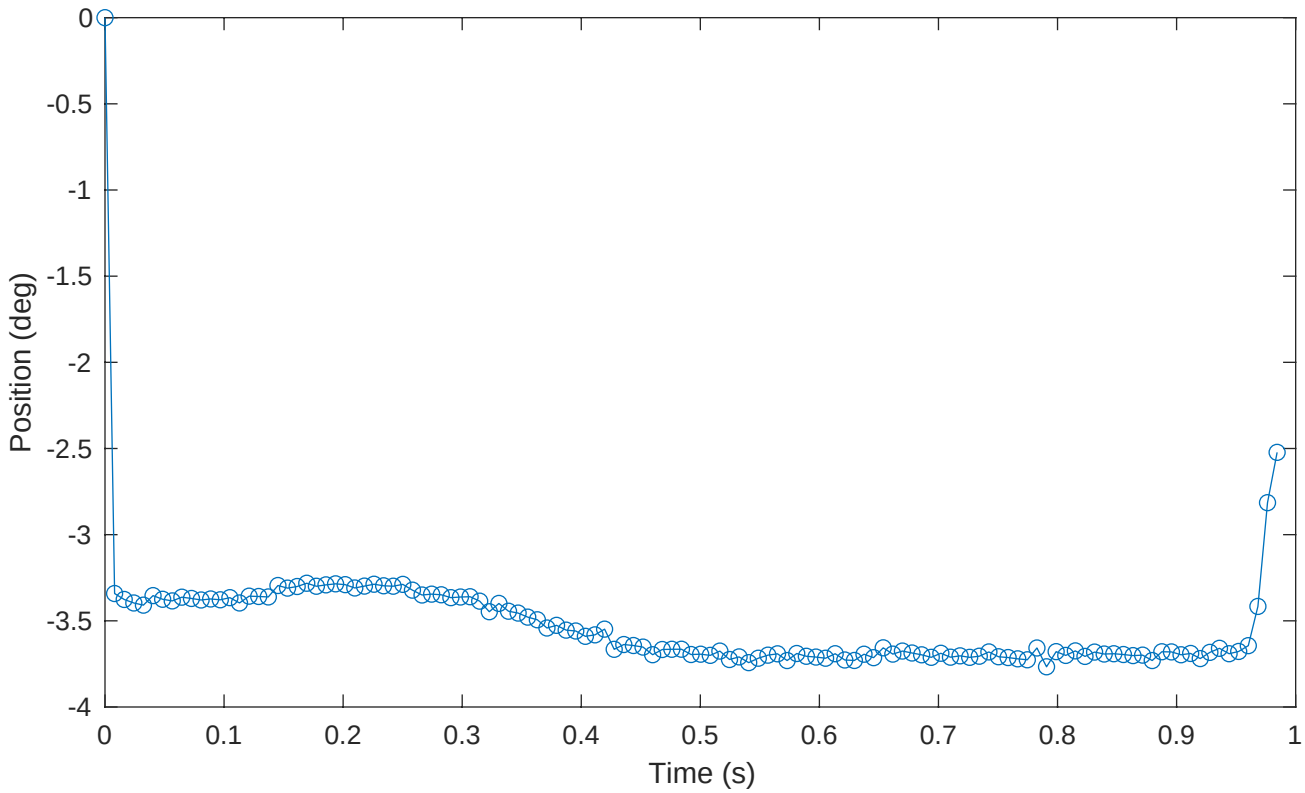

Filtered Position/Velocity: Trial 47 (External)
Position (deg)
Velocity (deg/s)
Time (s)
0
-1
-2
-3
-4
-5
-6
100
0
-100
-200
-300
-400
-500
-600
-700
0
0.1
0.2
0.3
0.4
0.5
0.6
0.7
0.8
0.9
1
Externally Filtered Position
Externally Filtered Velocity

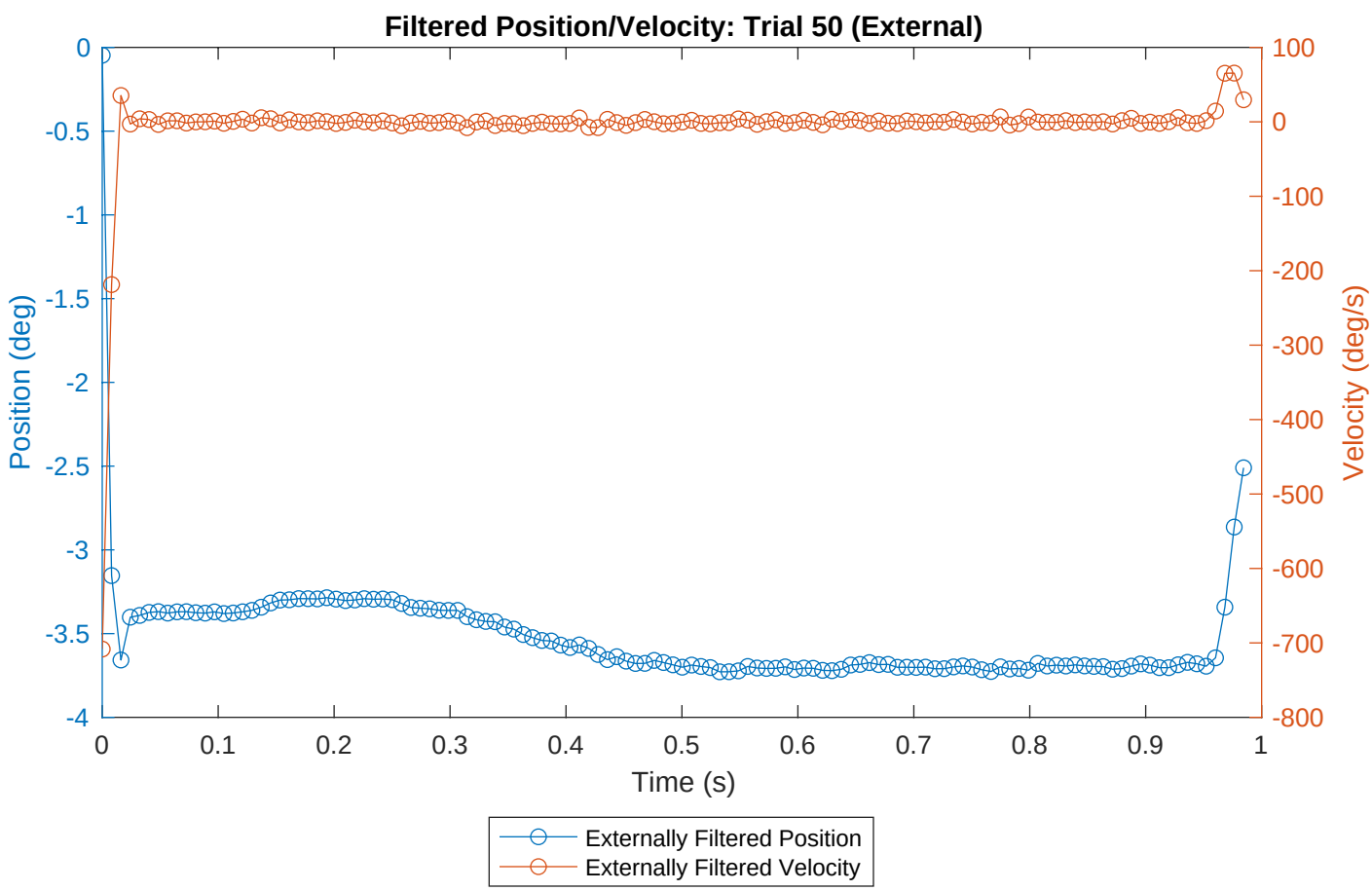

Position (deg)
Time (s)

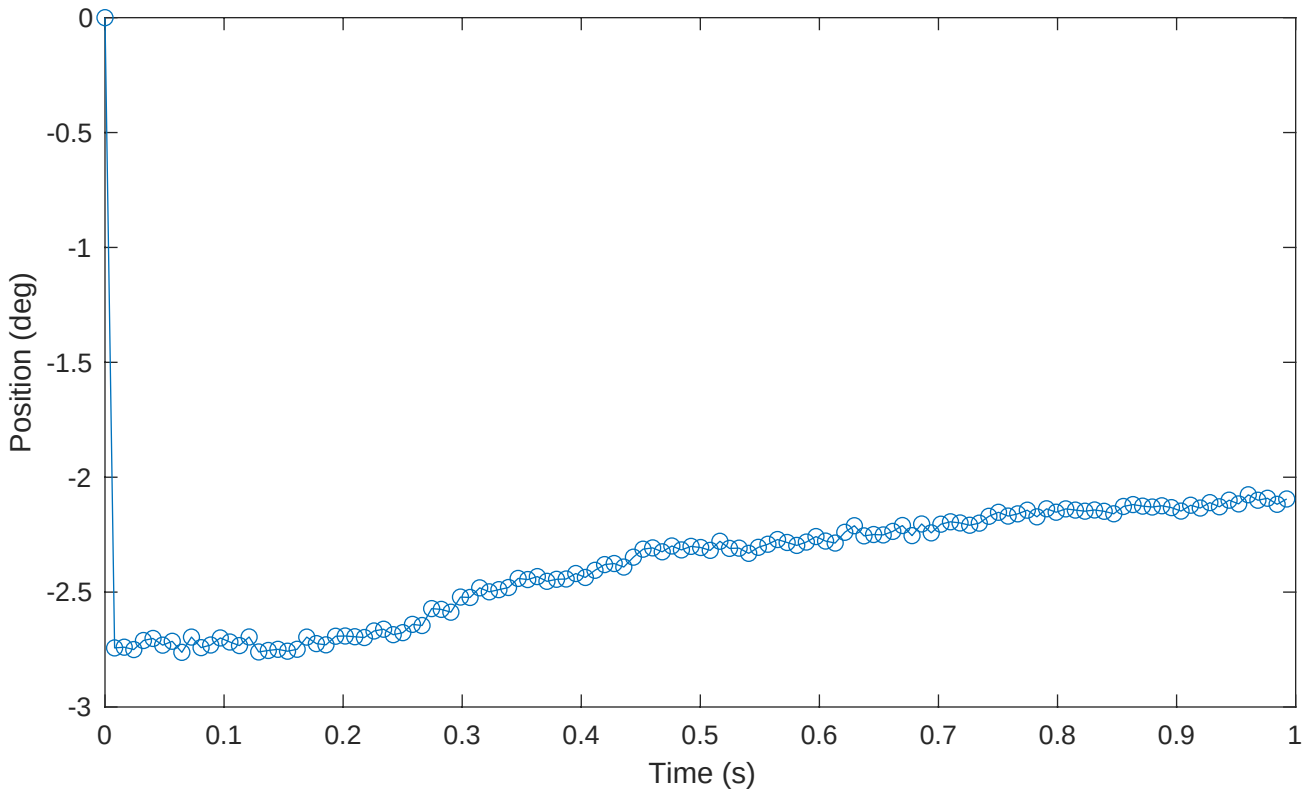

Filtered Position/Velocity: Trial 48 (External)
Position (deg)
Velocity (deg/s)
Time (s)
Externally Filtered Position
Externally Filtered Velocity

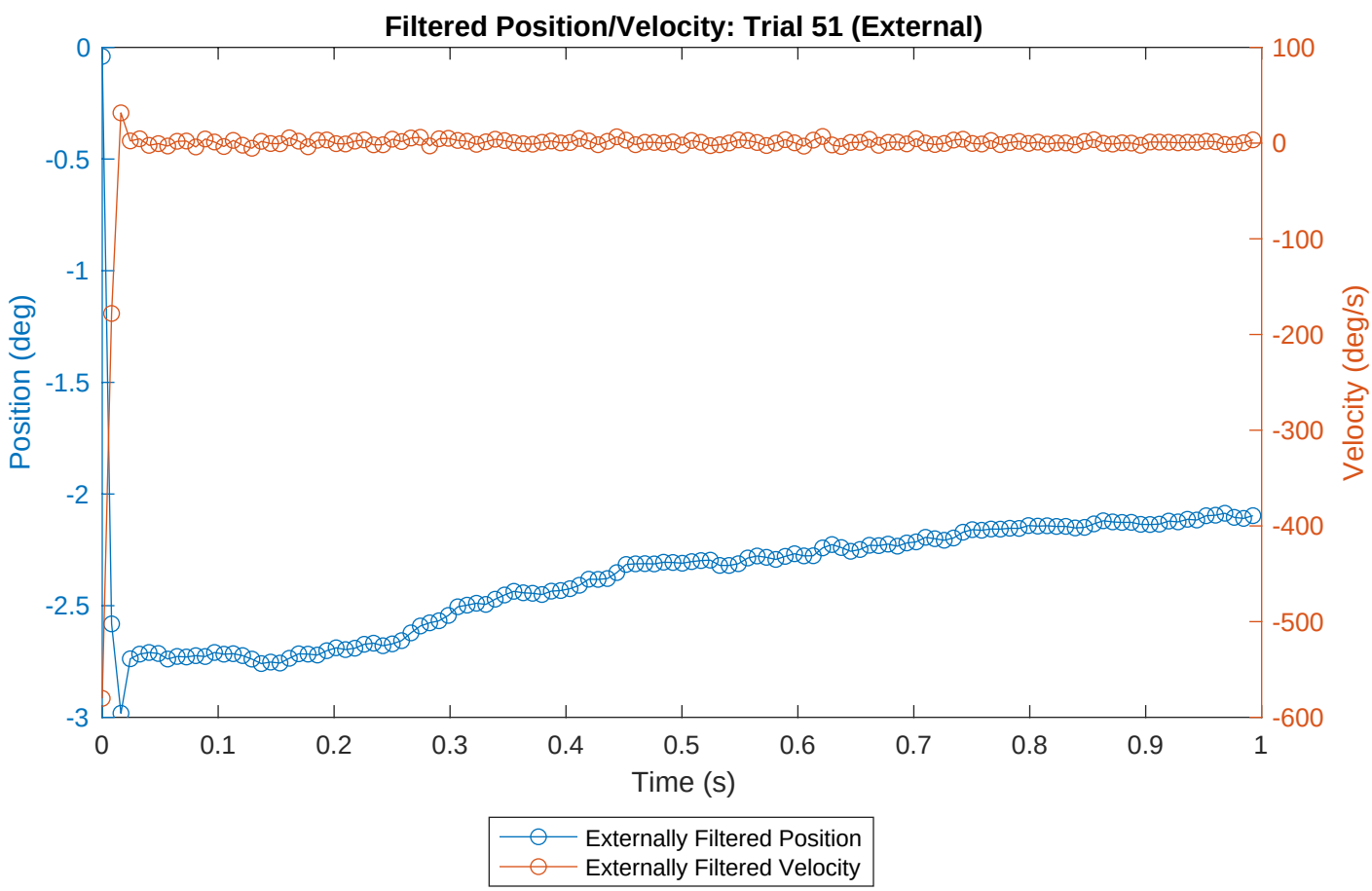

Position (deg)
Time (s)
0
-0.5
-1
-1.5
-2
-2.5
-3
-3.5
0
0.1
0.2
0.3
0.4
0.5
0.6
0.7
0.8
0.9
1

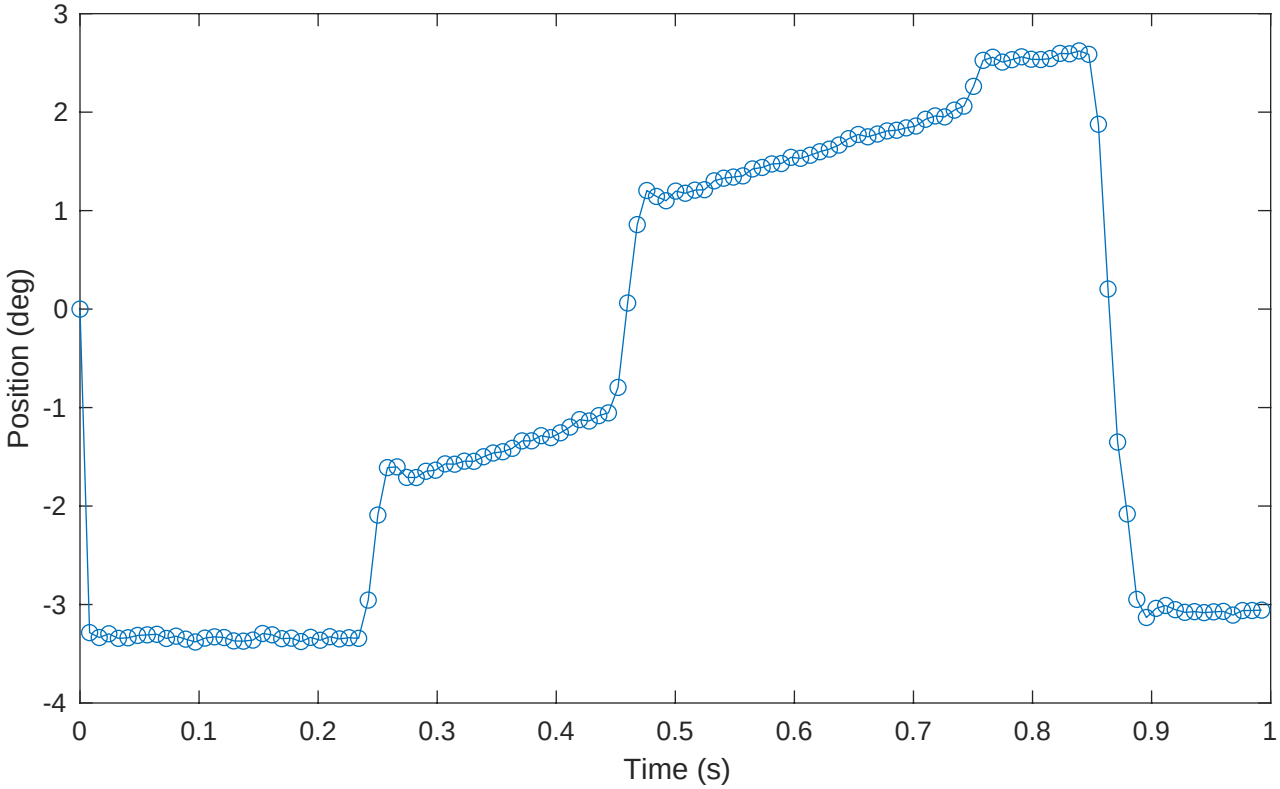

Filtered Position/Velocity: Trial 49 (External)
Position (deg)
Velocity (deg/s)
Time (s)
0
-0.5
-1
-1.5
-2
-2.5
-3
-3.5
100
0
-100
-200
-300
-400
-500
-600
-700
0
0.1
0.2
0.3
0.4
0.5
0.6
0.7
0.8
0.9
1
Externally Filtered Position
Externally Filtered Velocity

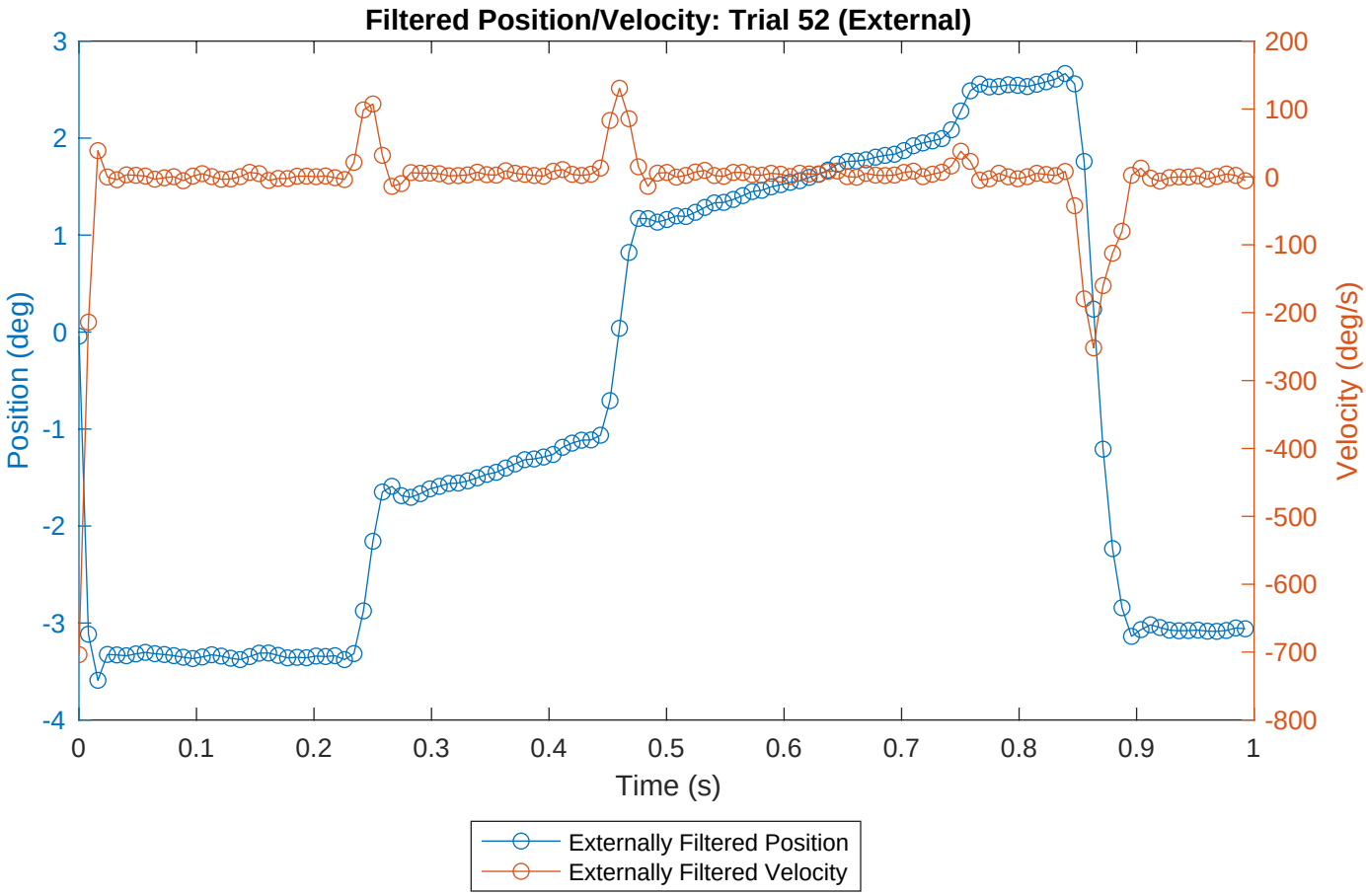

Position (deg)
Time (s)

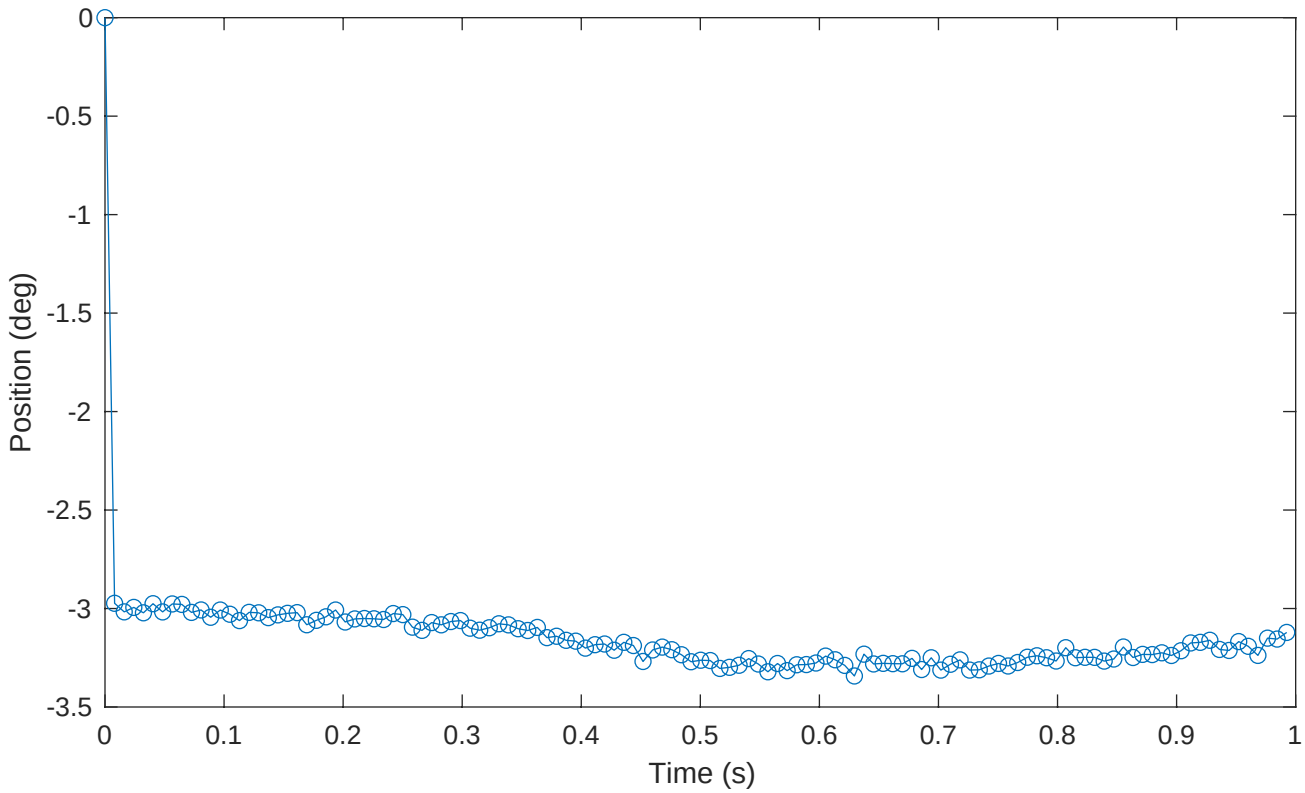

Filtered Position/Velocity: Trial 50 (External)
Position (deg)
Velocity (deg/s)
Time (s)
Externally Filtered Position
Externally Filtered Velocity

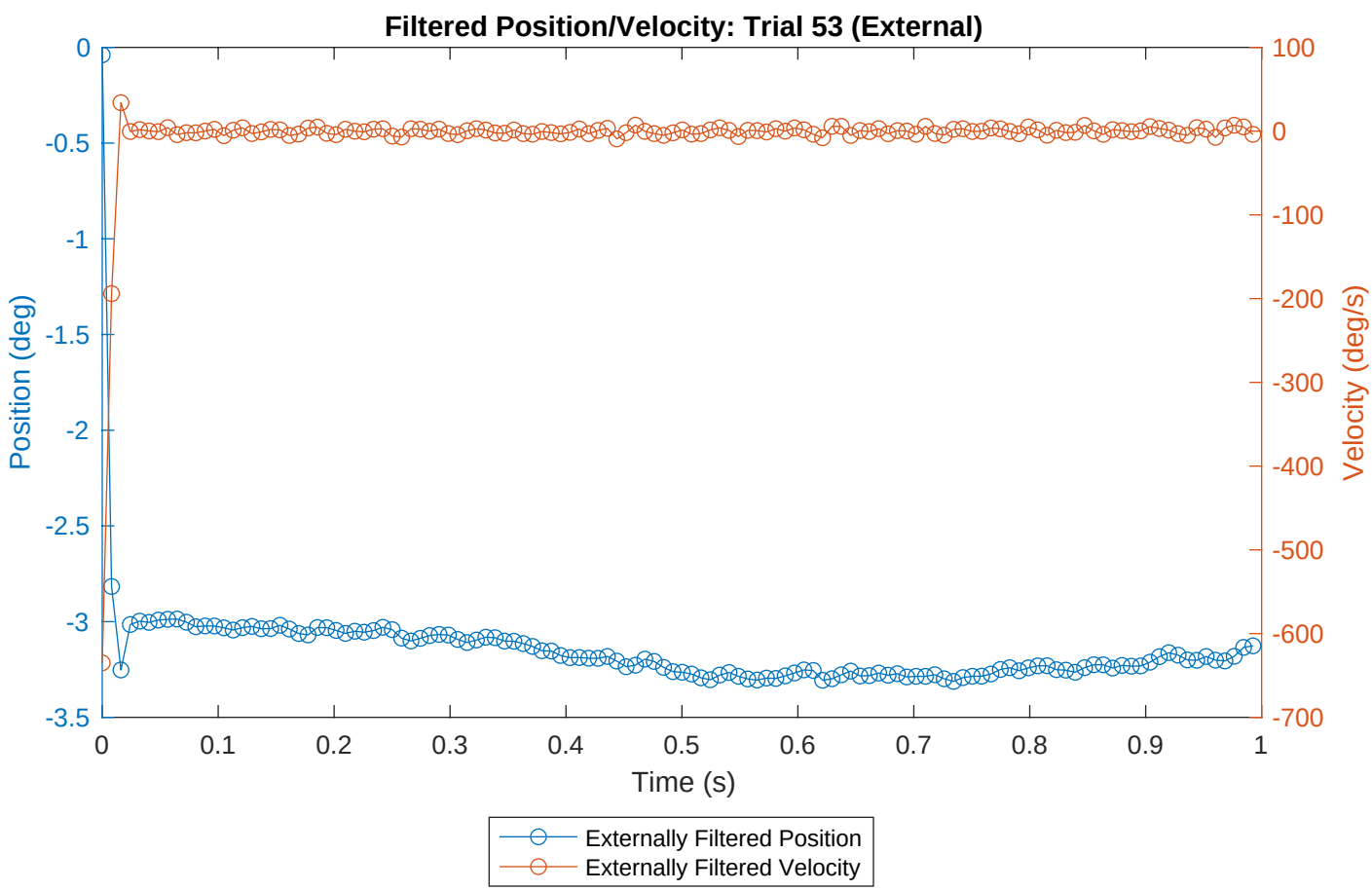

Position (deg)
Time (s)
0
-0.5
-1
-1.5
-2
-2.5
-3
0
0.1
0.2
0.3
0.4
0.5
0.6
0.7
0.8
0.9
1

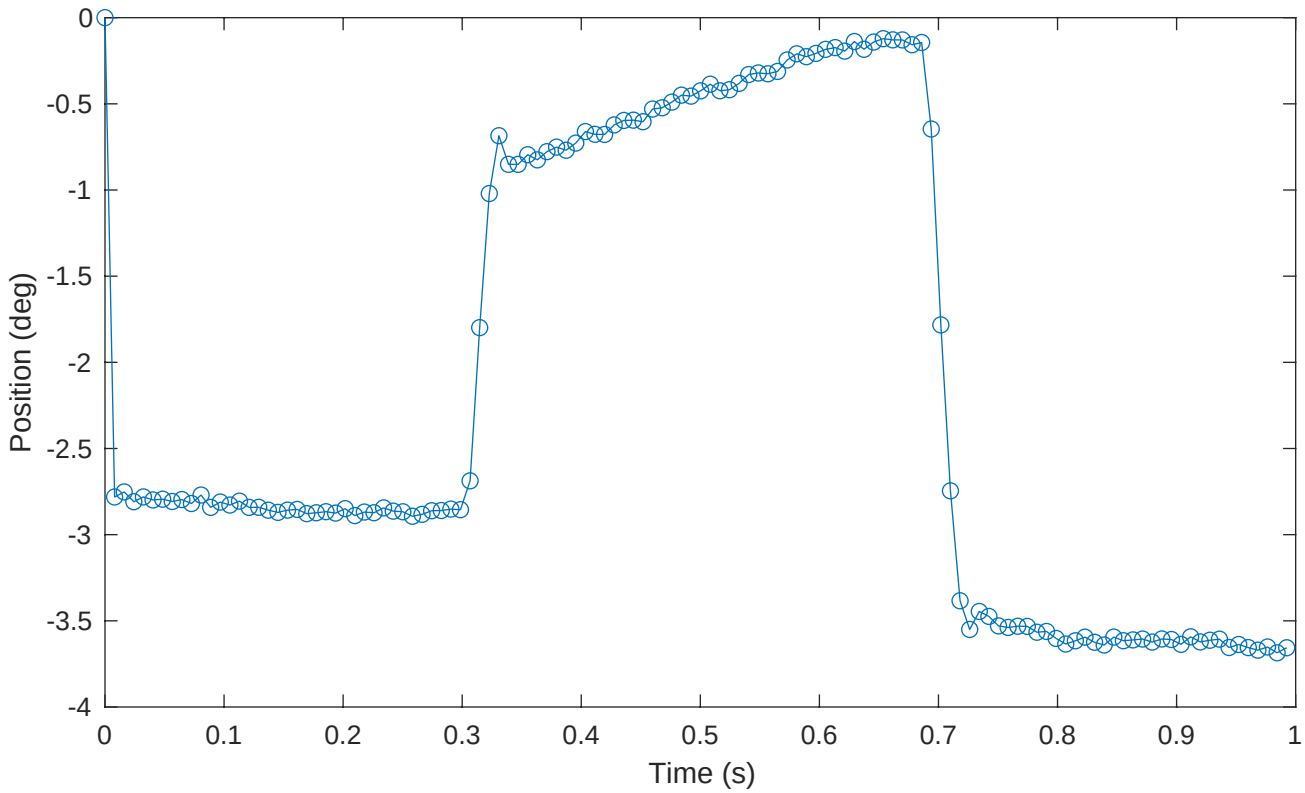

Filtered Position/Velocity: Trial 51 (External)
Position (deg)
Velocity (deg/s)
Time (s)
0
-0.5
-1
-1.5
-2
-2.5
-3
100
0
-100
-200
-300
-400
-500
-600
0
0.1
0.2
0.3
0.4
0.5
0.6
0.7
0.8
0.9
1
Externally Filtered Position
Externally Filtered Velocity

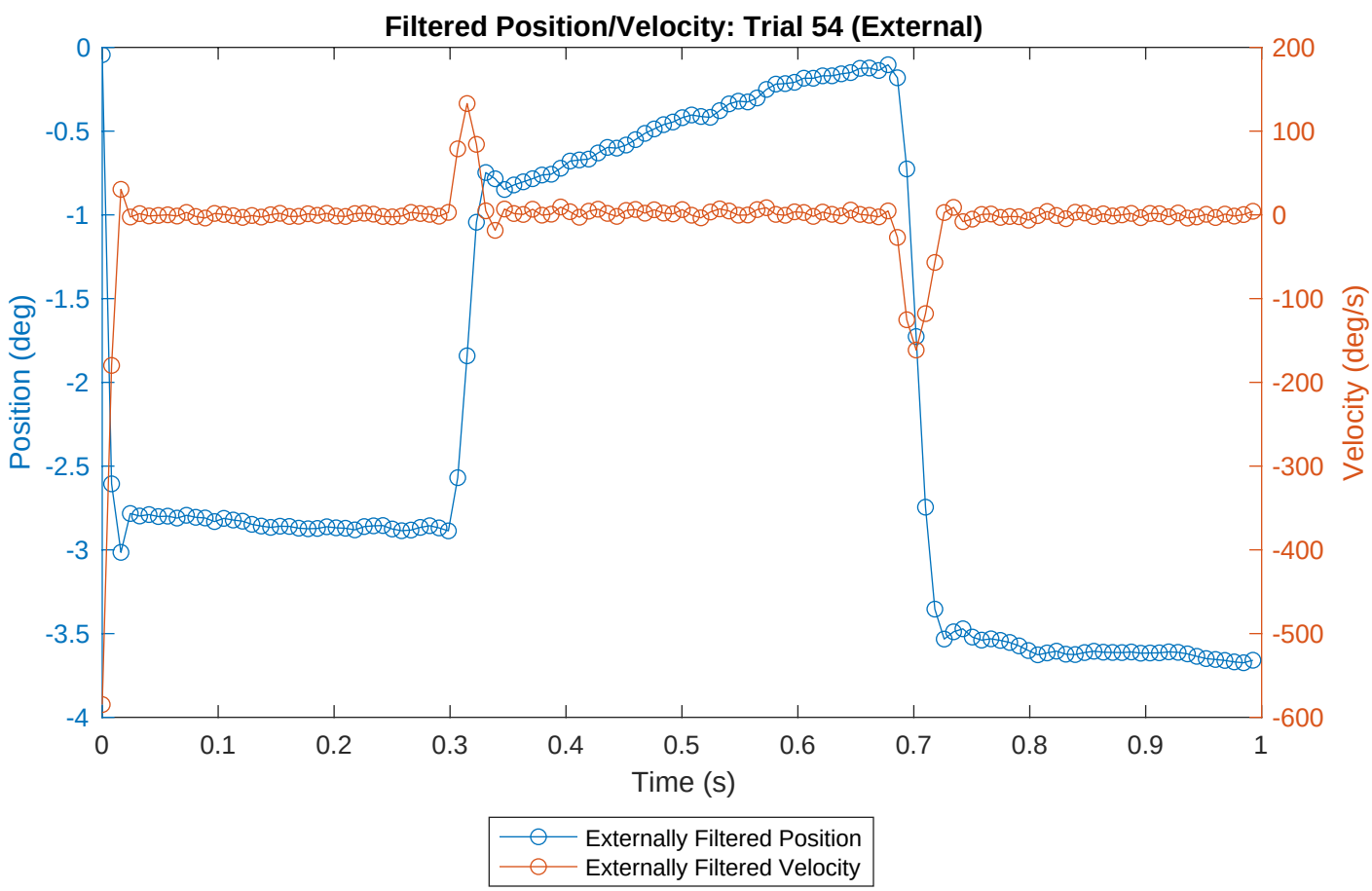

Position (deg)
Time (s)

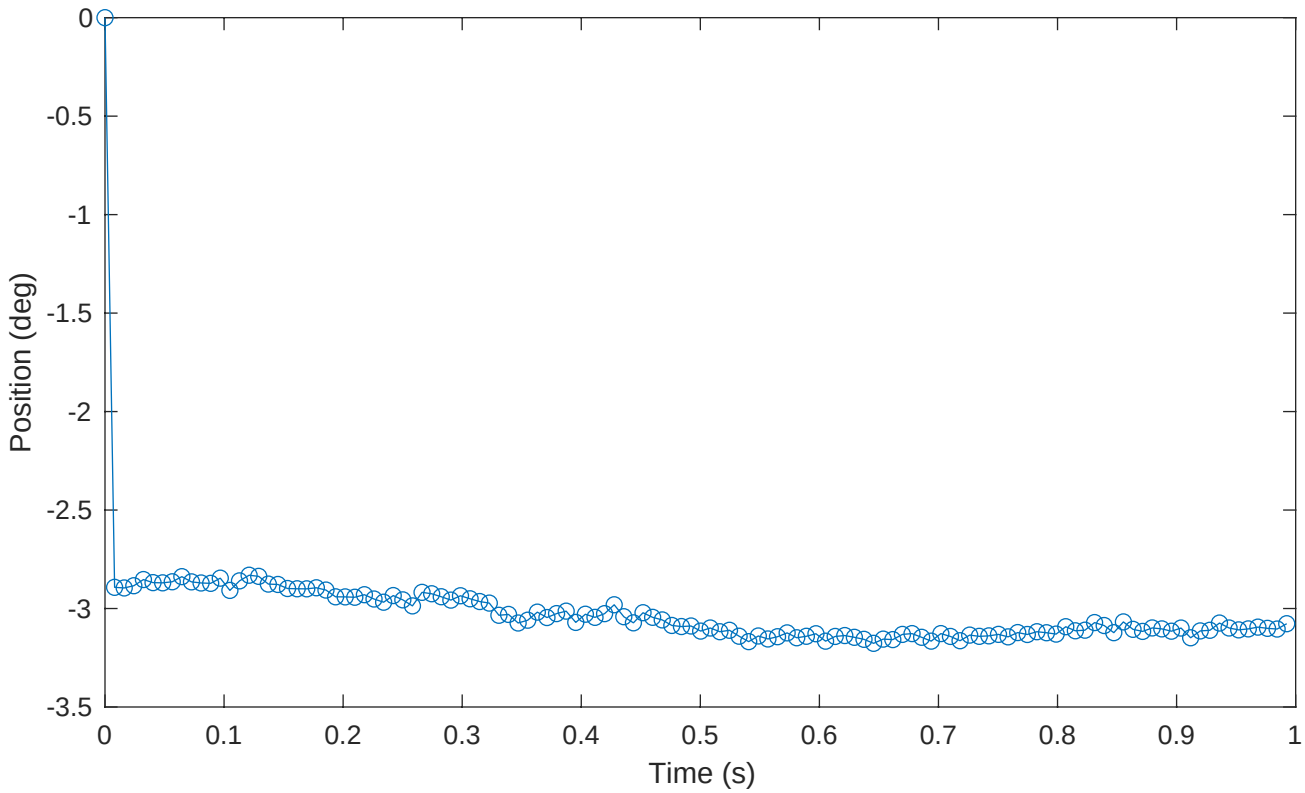

Filtered Position/Velocity: Trial 52 (External)
Position (deg)
Velocity (deg/s)
Time (s)
Externally Filtered Position
Externally Filtered Velocity

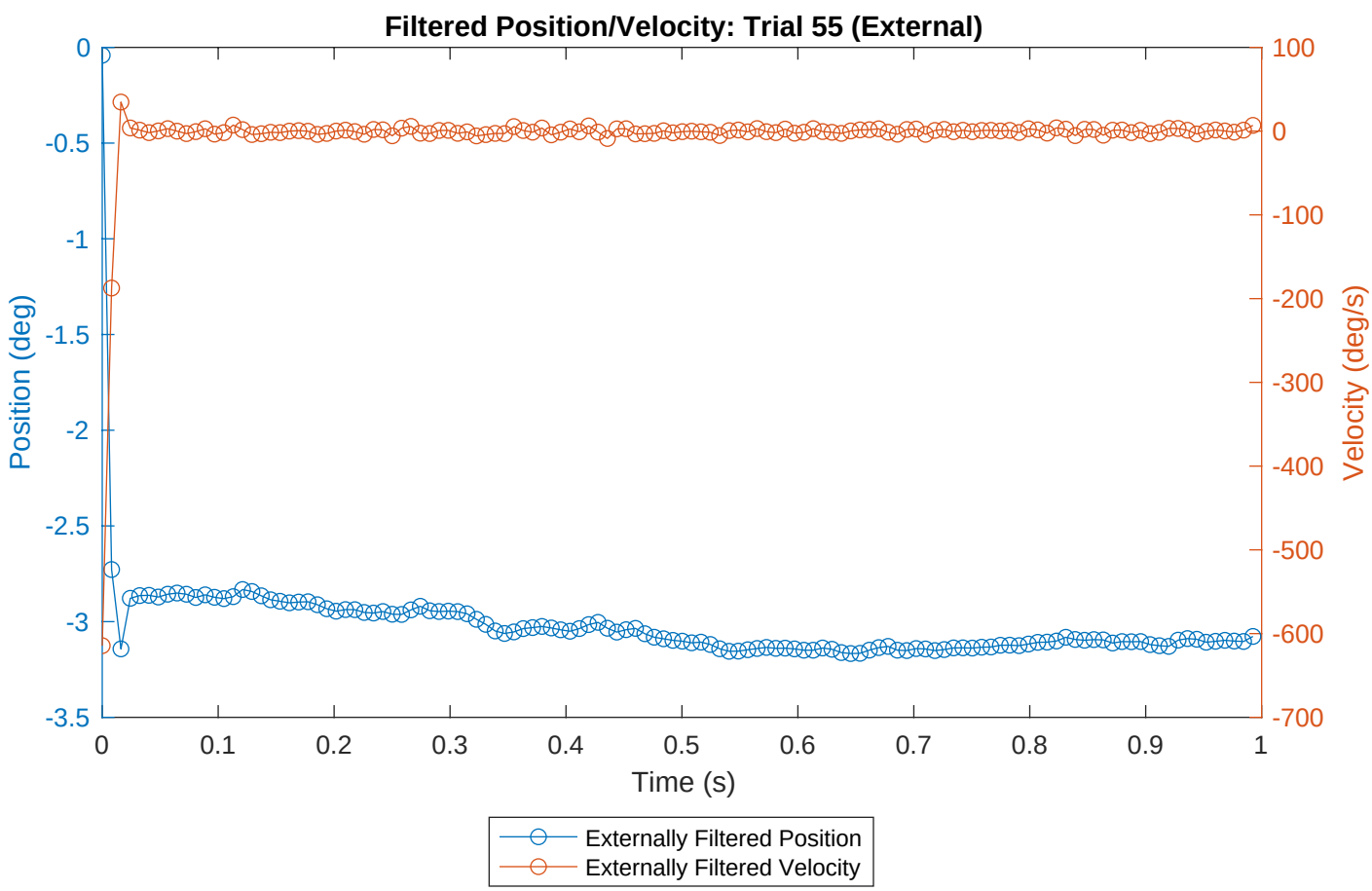

Position (deg)
Time (s)
0
-0.5
-1
-1.5
-2
-2.5
-3
-3.5
0
0.1
0.2
0.3
0.4
0.5
0.6
0.7
0.8
0.9
1

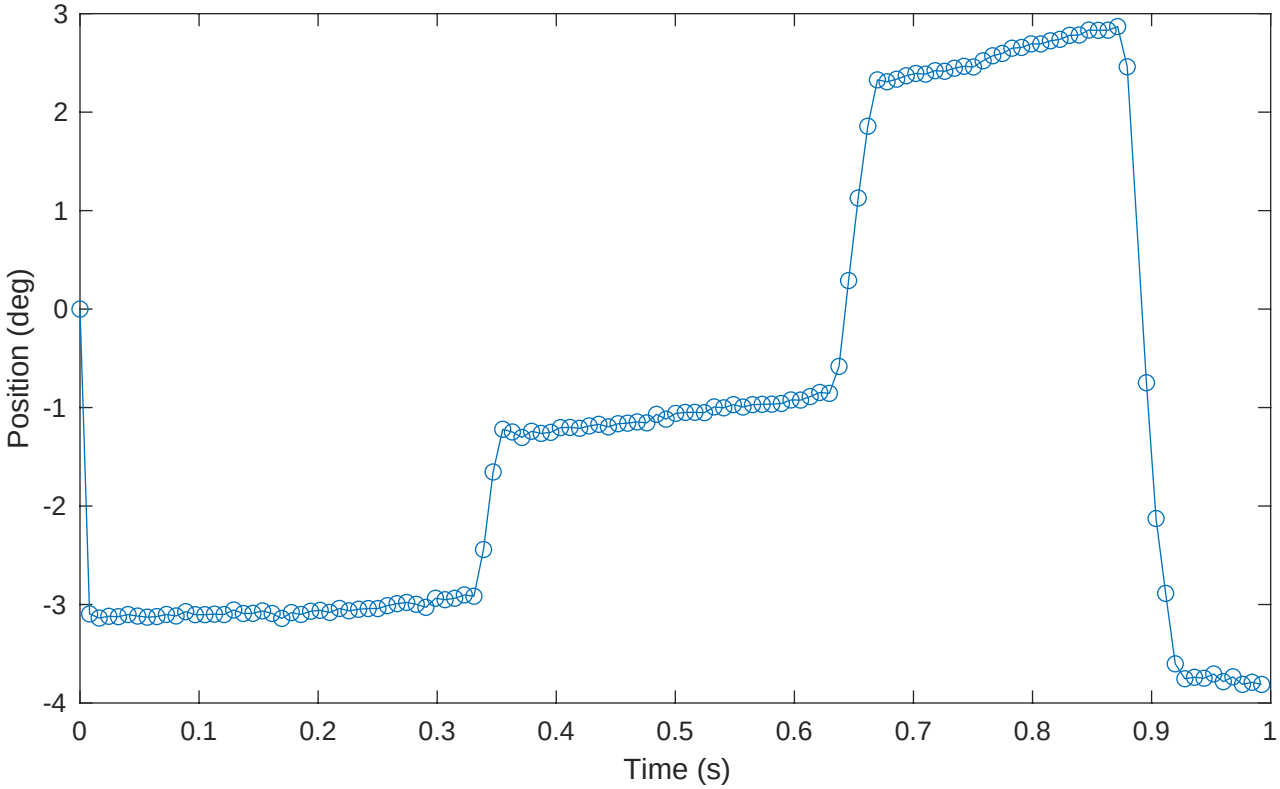

Filtered Position/Velocity: Trial 53 (External)
Position (deg)
Velocity (deg/s)
Time (s)
0
-0.5
-1
-1.5
-2
-2.5
-3
-3.5
100
0
-100
-200
-300
-400
-500
-600
-700
0
0.1
0.2
0.3
0.4
0.5
0.6
0.7
0.8
0.9
1
Externally Filtered Position
Externally Filtered Velocity

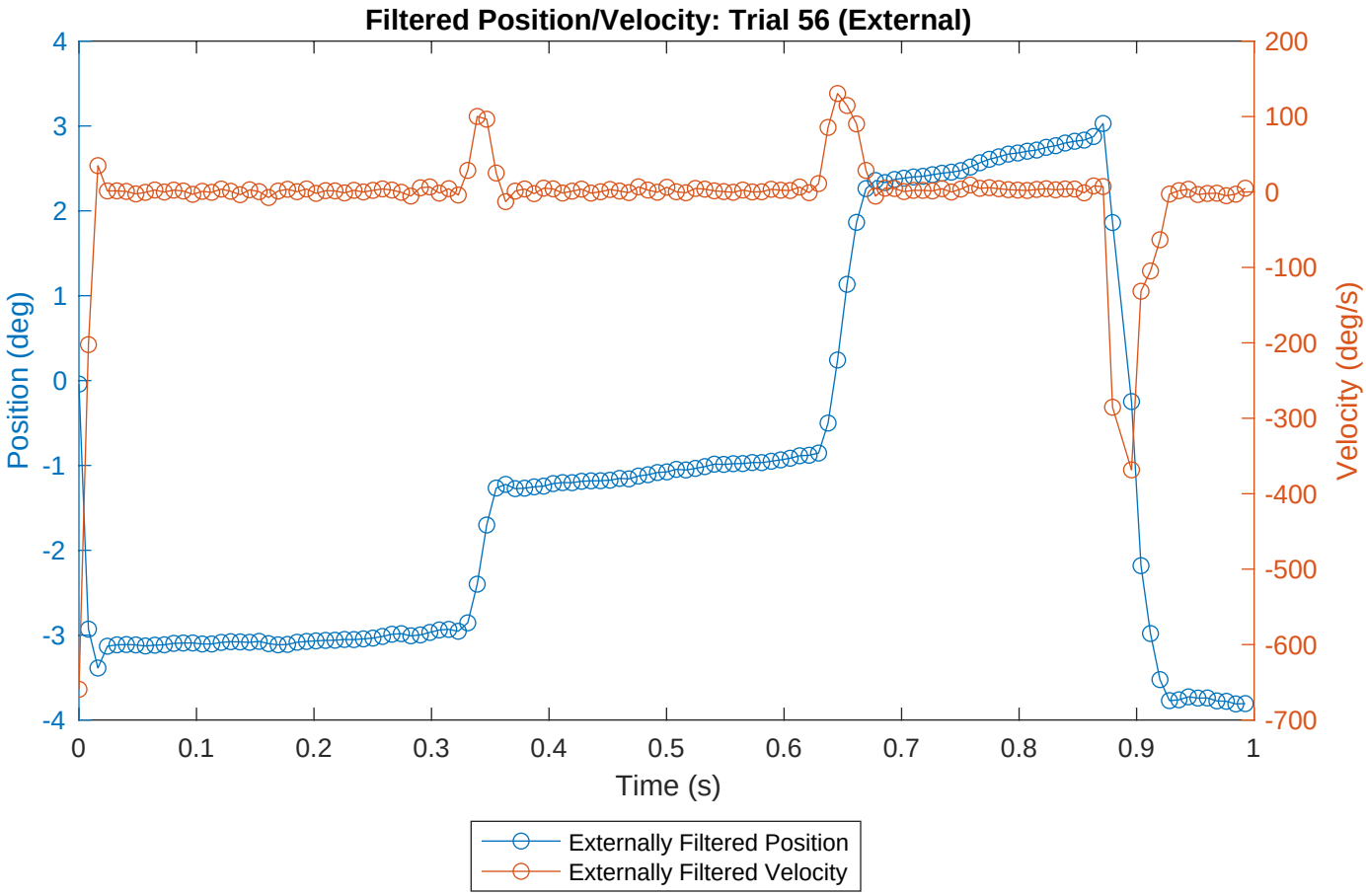

Position (deg)
Time (s)

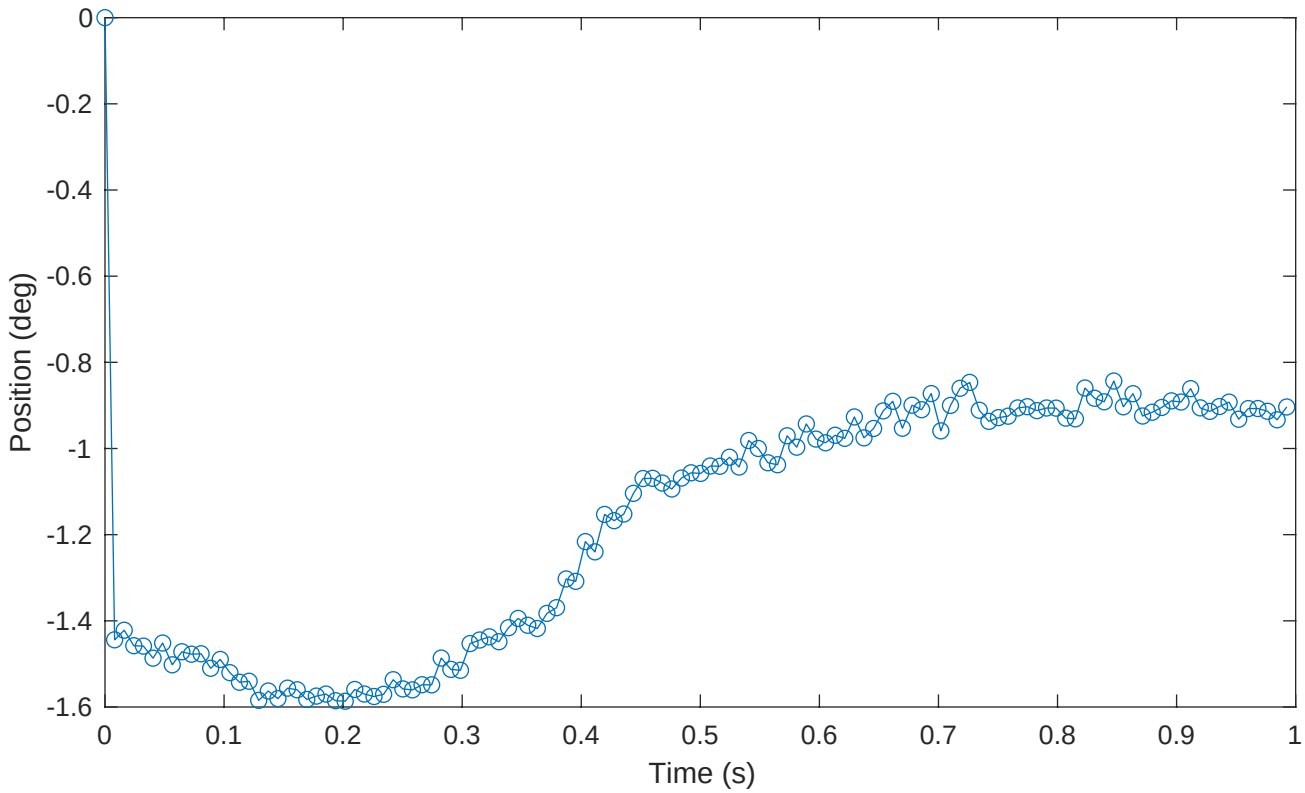

Filtered Position/Velocity: Trial 54 (External)
Position (deg)
Velocity (deg/s)
Time (s)
Externally Filtered Position
Externally Filtered Velocity

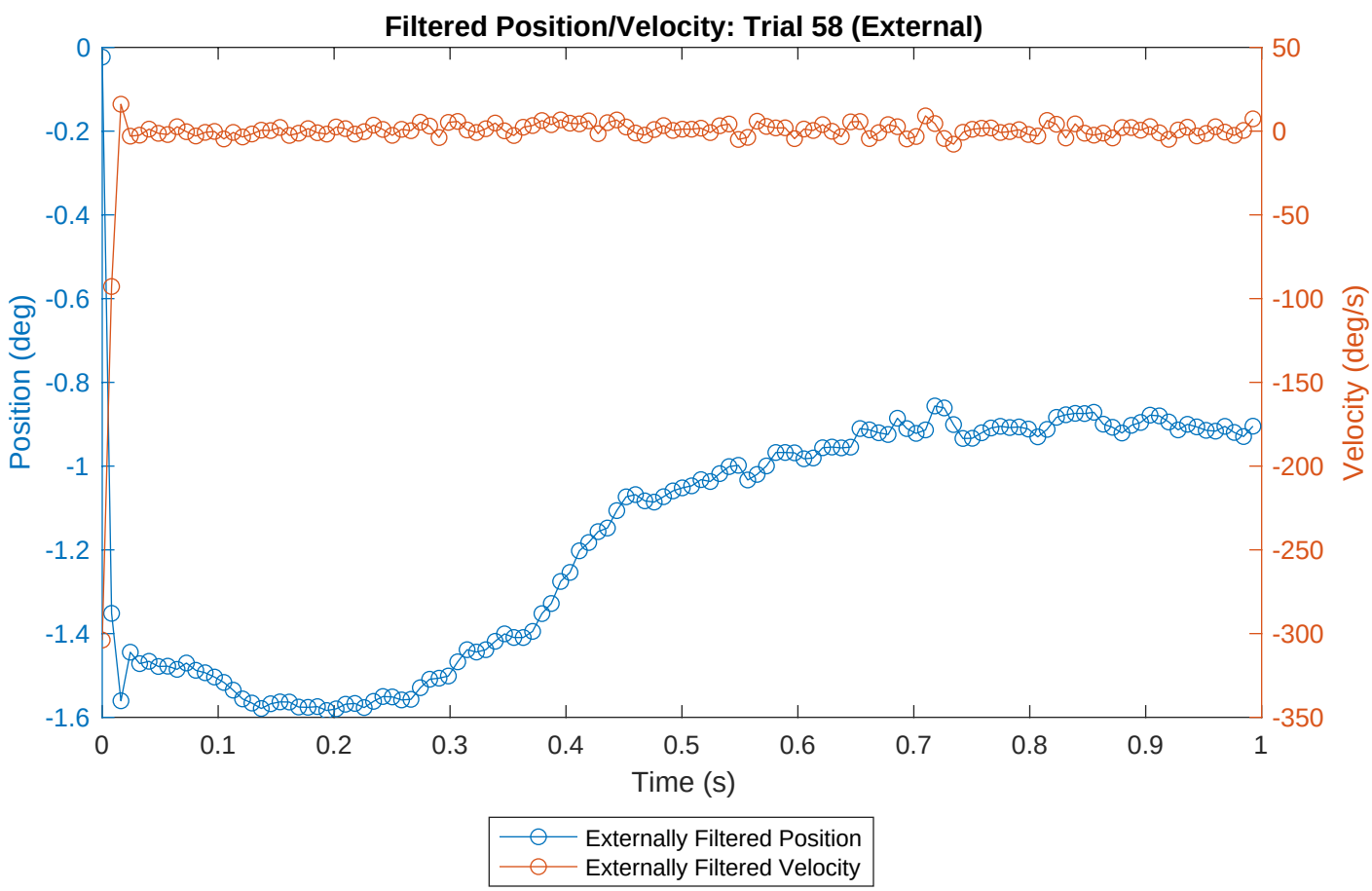

Position (deg)
Time (s)
0
-0.5
-1
-1.5
-2
-2.5
-3
-3.5
0
0.1
0.2
0.3
0.4
0.5
0.6
0.7
0.8
0.9
1

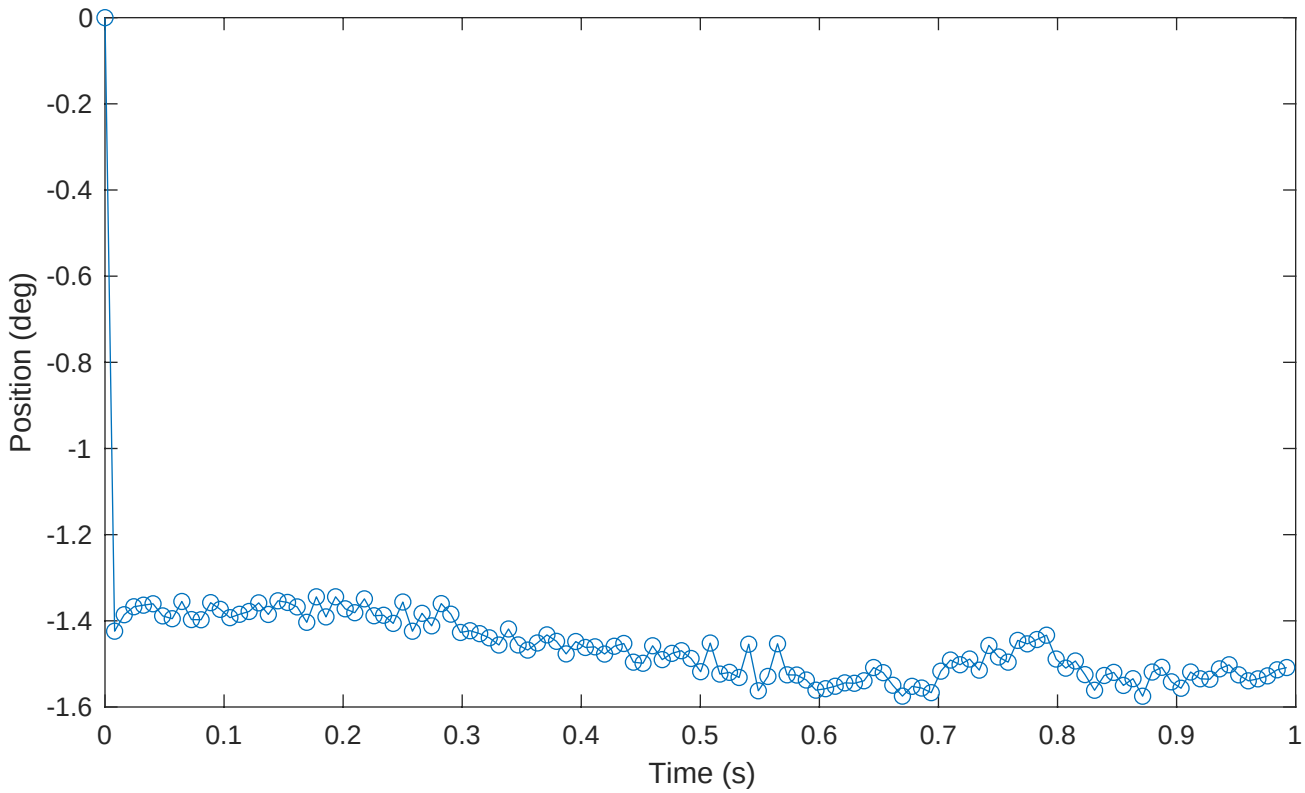

Filtered Position/Velocity: Trial 55 (External)
Position (deg)
Velocity (deg/s)
Time (s)
0
-0.5
-1
-1.5
-2
-2.5
-3
-3.5
100
0
-100
-200
-300
-400
-500
-600
-700
0
0.1
0.2
0.3
0.4
0.5
0.6
0.7
0.8
0.9
1
Externally Filtered Position
Externally Filtered Velocity

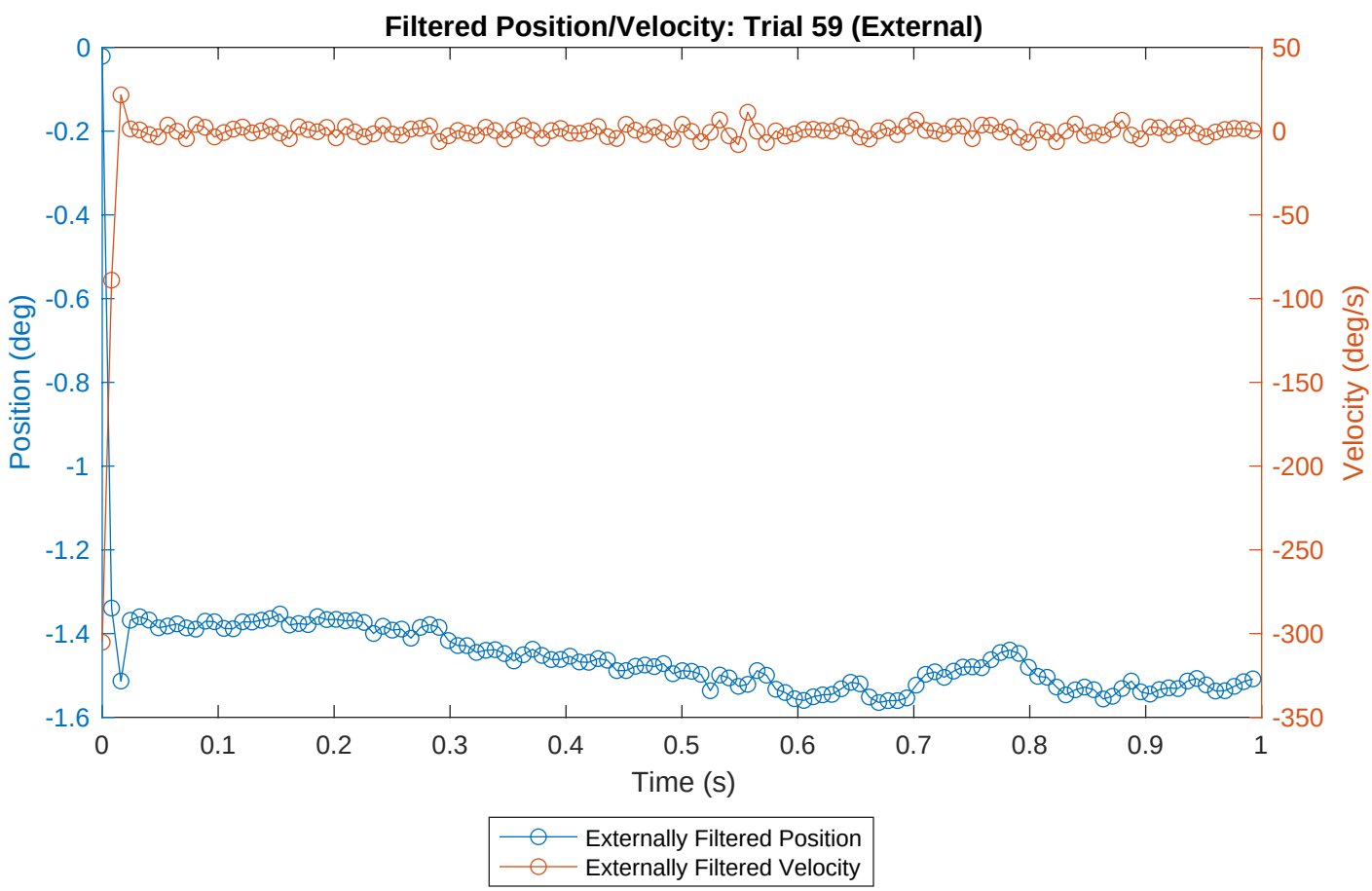

Position (deg)
Time (s)

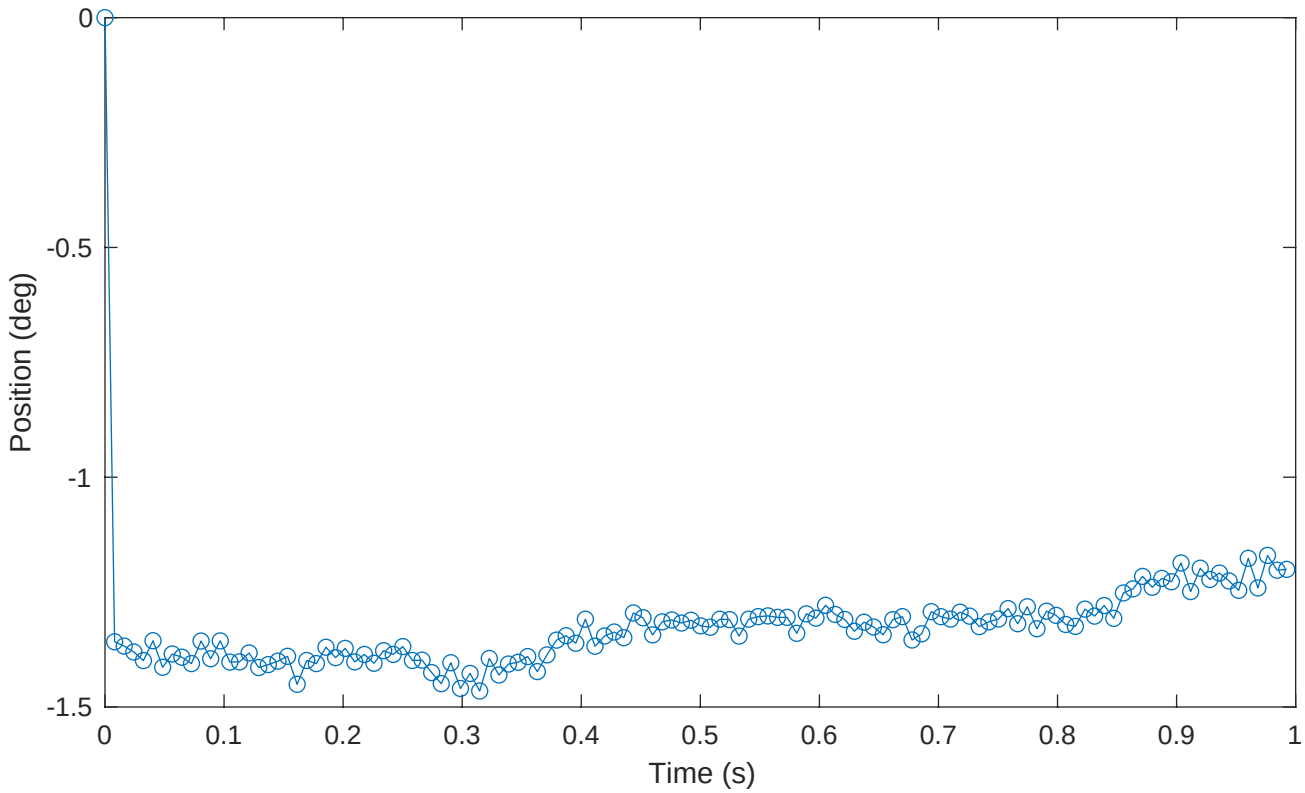

Filtered Position/Velocity: Trial 56 (External)
Position (deg)
Velocity (deg/s)
Time (s)
Externally Filtered Position
Externally Filtered Velocity

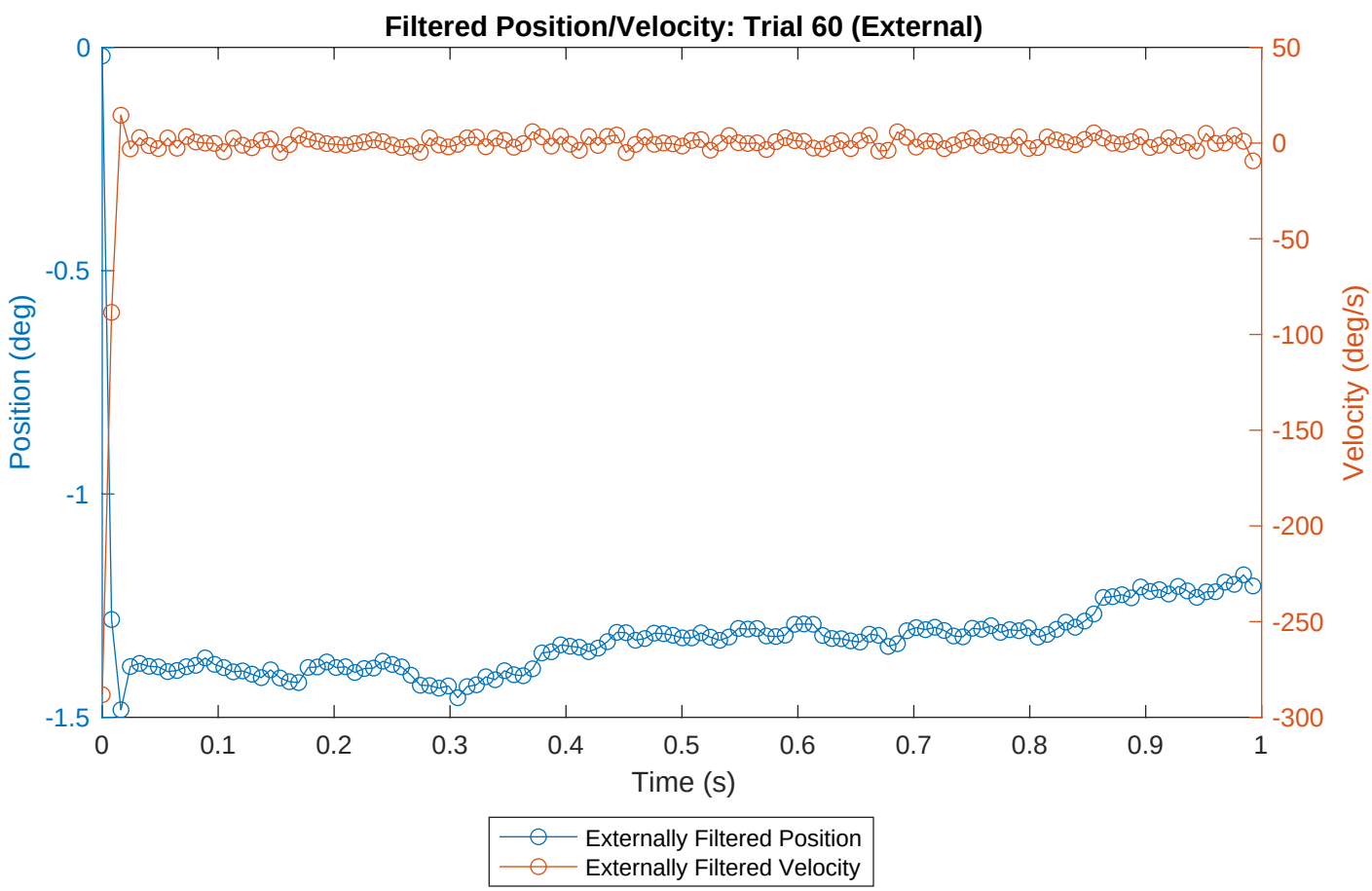

Position (deg)
Time (s)

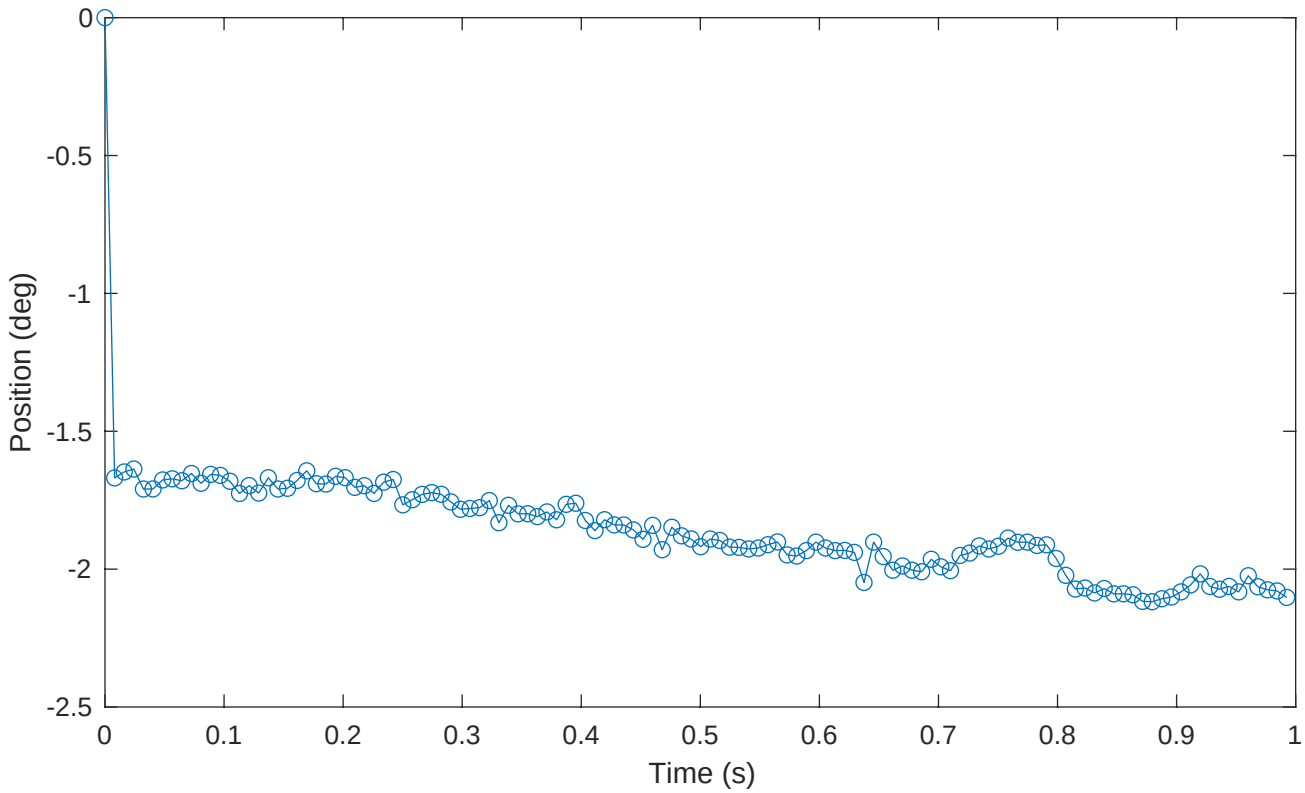

Filtered Position/Velocity: Trial 58 (External)
Position (deg)
Velocity (deg/s)
Time (s)
Externally Filtered Position
Externally Filtered Velocity

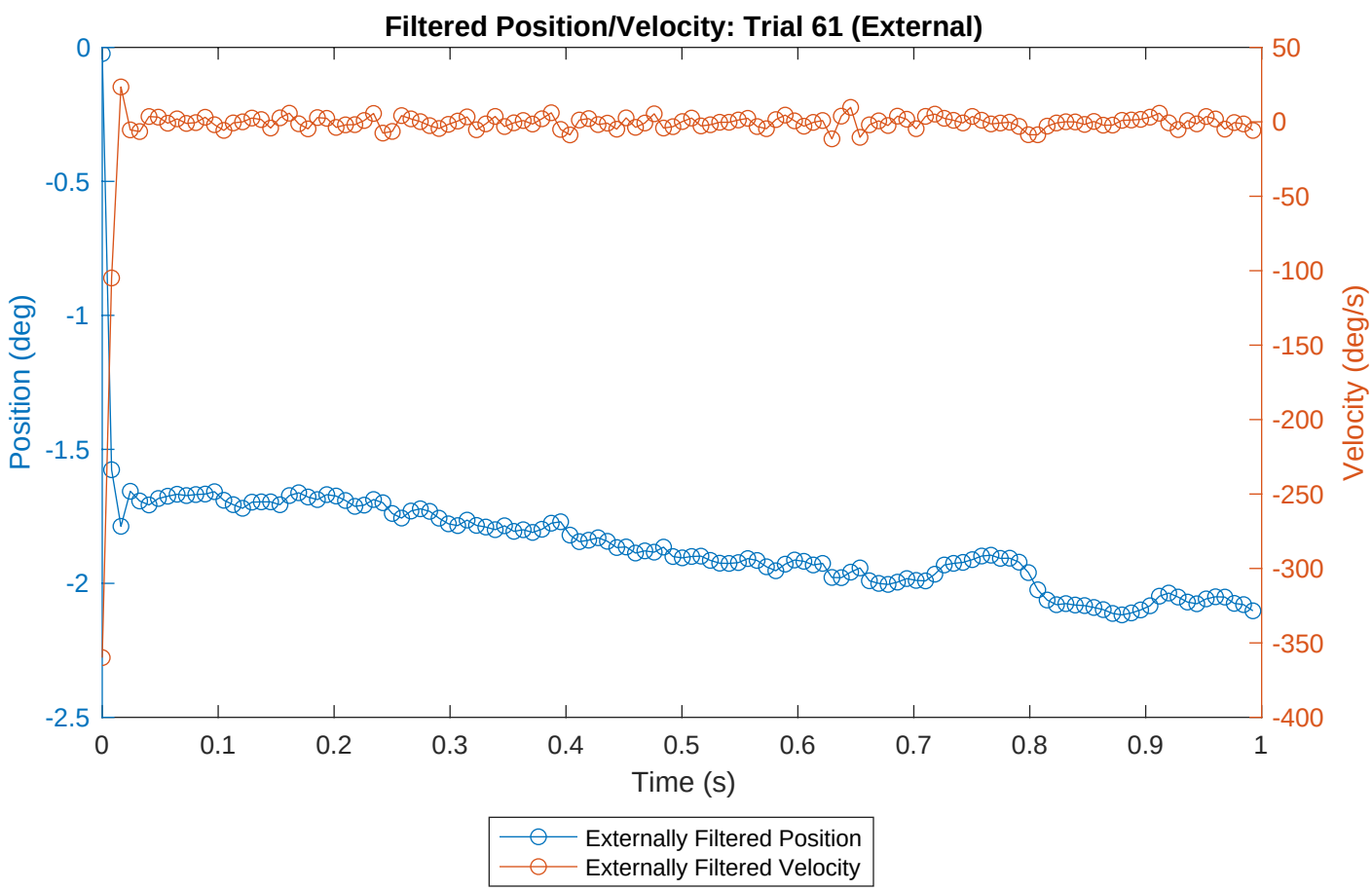

Position (deg)
Time (s)

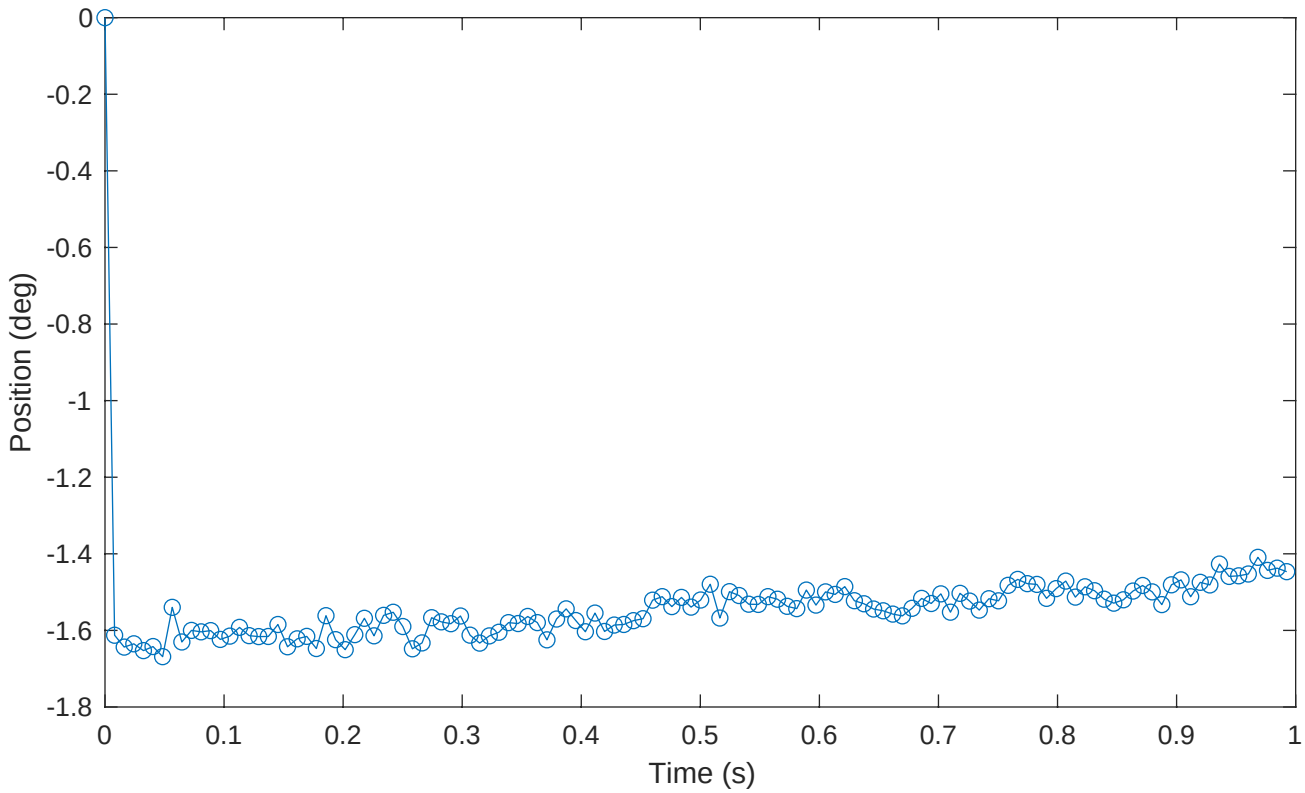

Filtered Position/Velocity: Trial 59 (External)
Position (deg)
Velocity (deg/s)
Time (s)
Externally Filtered Position
Externally Filtered Velocity

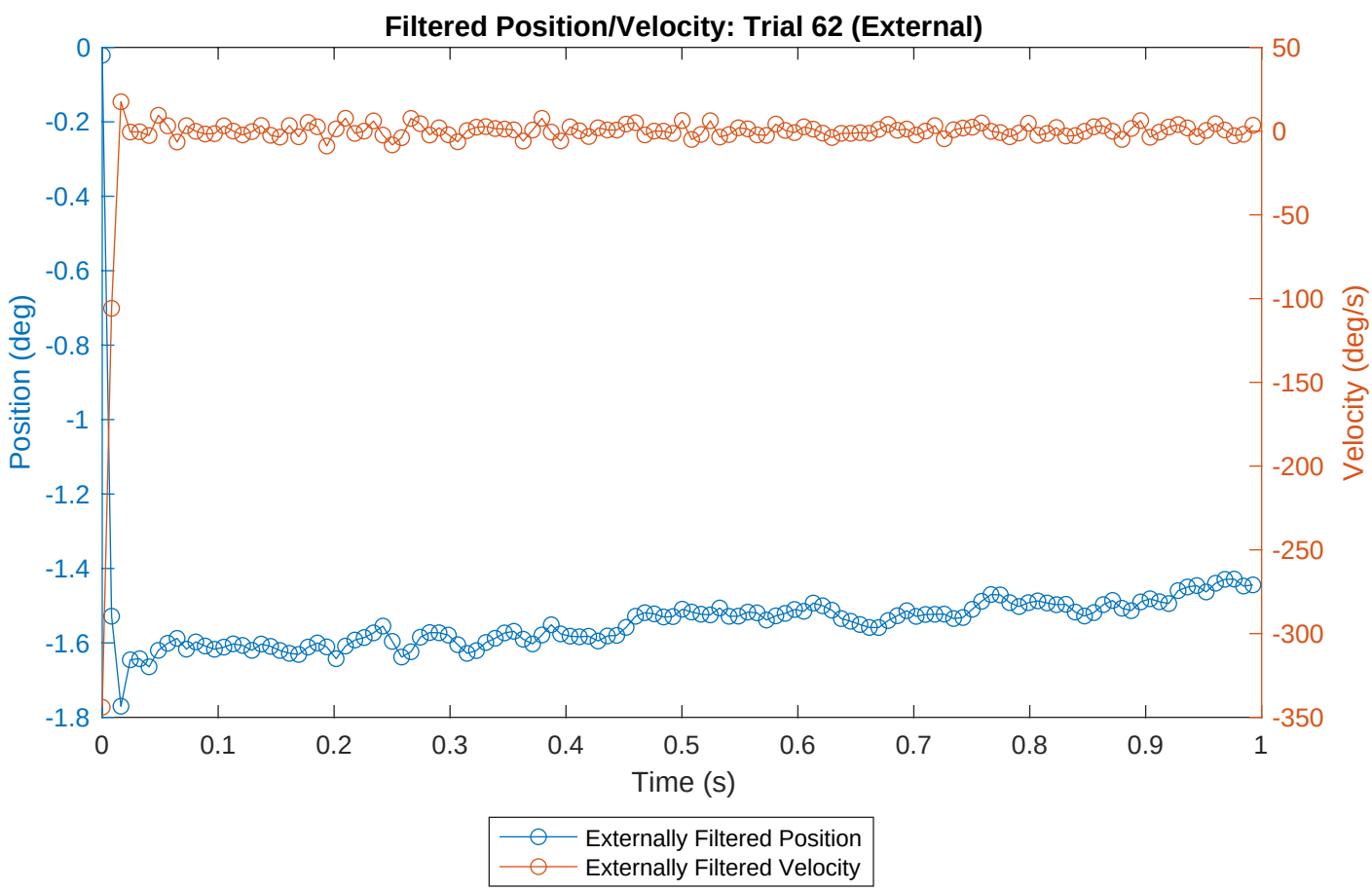

0
-0.5
-1
-1.5
Position (deg)
0
0.1
0.2
0.3
0.4
0.5
0.6
0.7
0.8
0.9
1
Time (s)

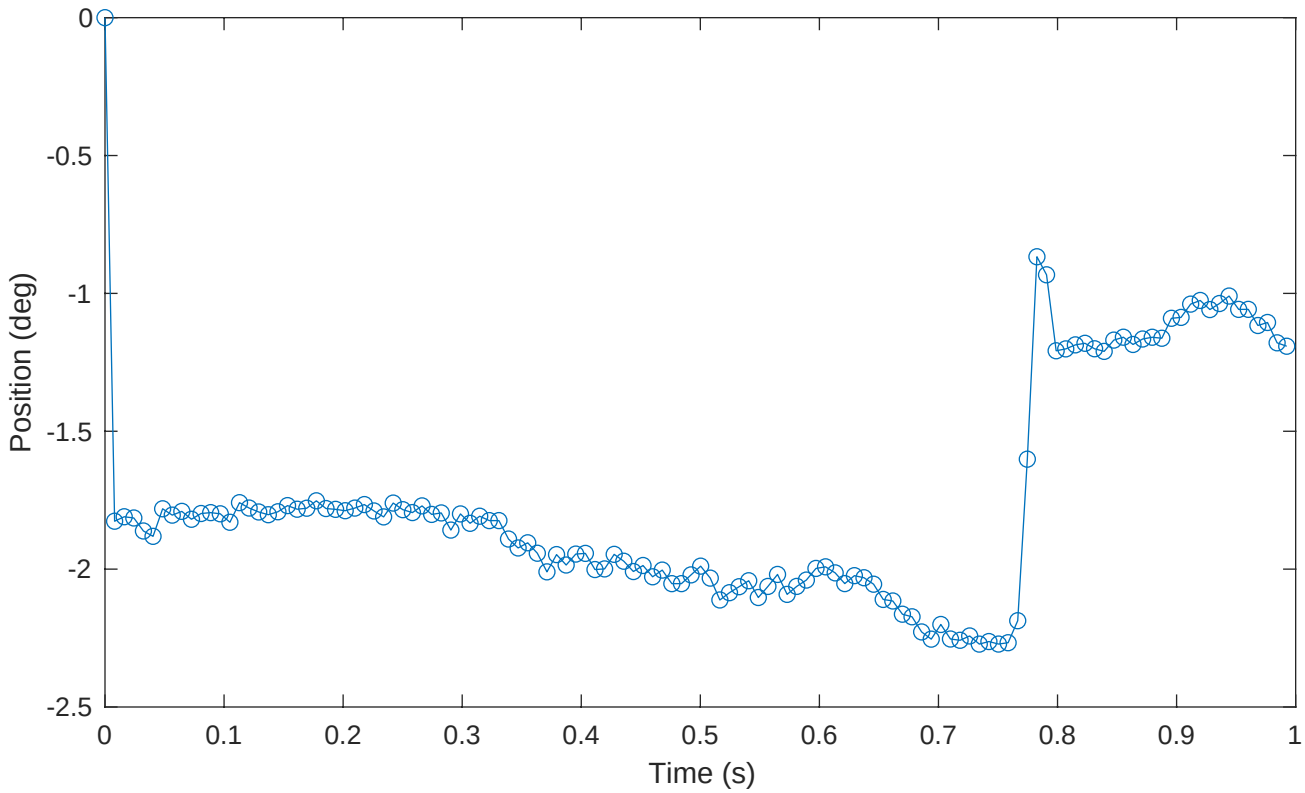

Filtered Position/Velocity: Trial 60 (External)
0
-0.5
-1
-1.5
Position (deg)
50
0
-50
-100
-150
-200
-250
-300
Velocity (deg/s)
0
0.1
0.2
0.3
0.4
0.5
0.6
0.7
0.8
0.9
1
Time (s)
Externally Filtered Position
Externally Filtered Velocity

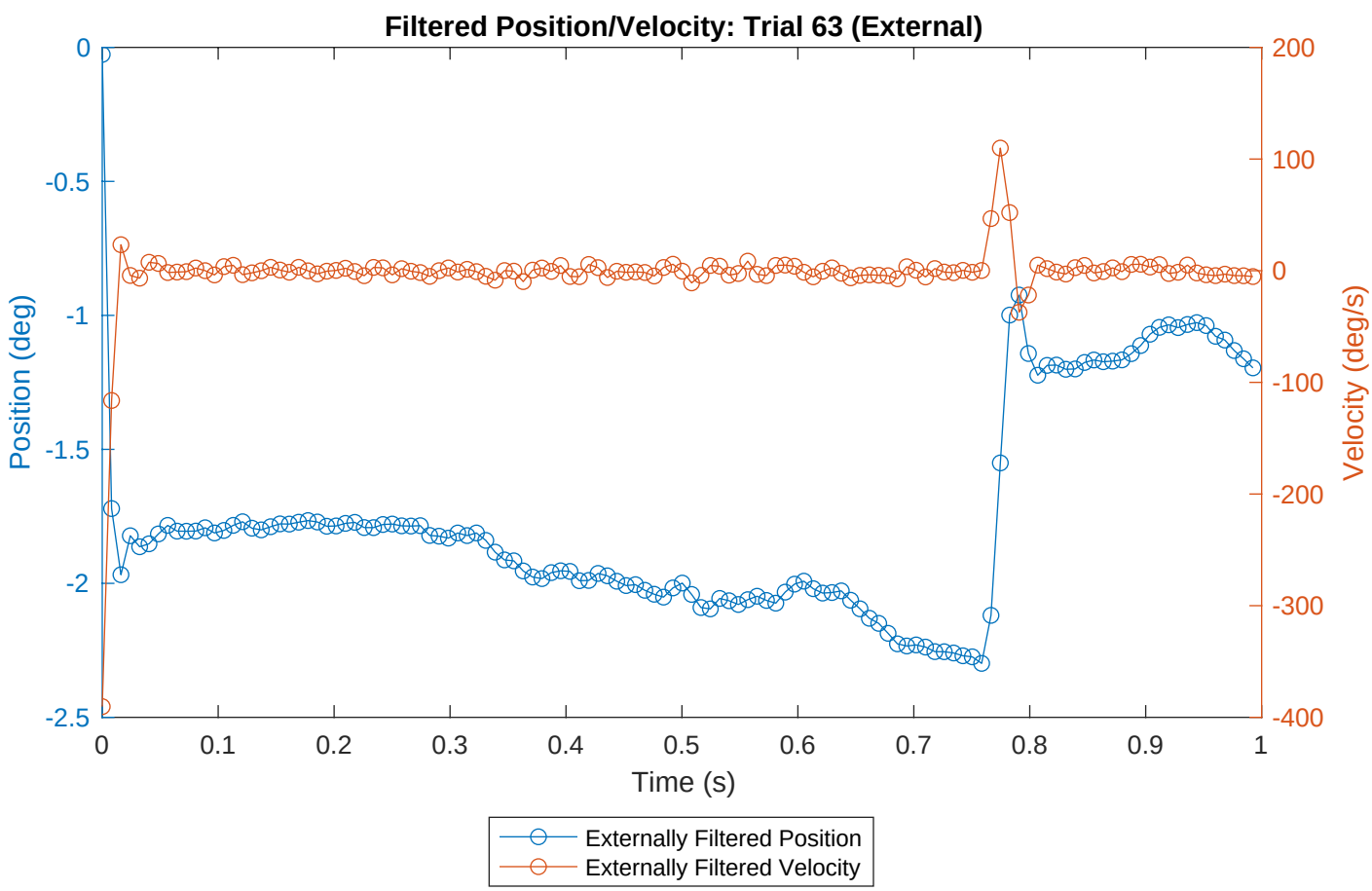

0
-0.5
-1
-1.5
-2
-2.5
Position (deg)
0
0.1
0.2
0.3
0.4
0.5
0.6
0.7
0.8
0.9
1
Time (s)

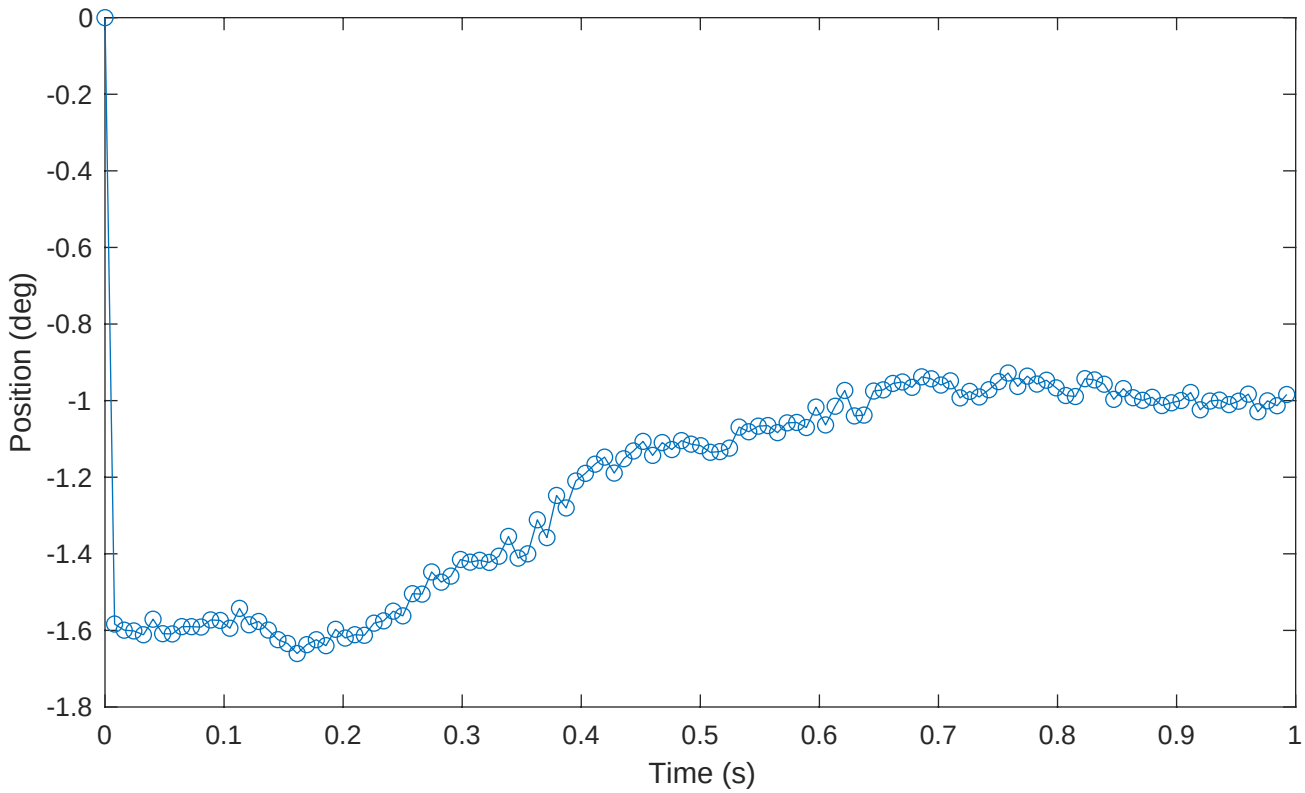

Filtered Position/Velocity: Trial 61 (External)
0
-0.5
-1
-1.5
-2
-2.5
Position (deg)
50
0
-50
-100
-150
-200
-250
-300
-350
-400
Velocity (deg/s)
0
0.1
0.2
0.3
0.4
0.5
0.6
0.7
0.8
0.9
1
Time (s)
Externally Filtered Position
Externally Filtered Velocity

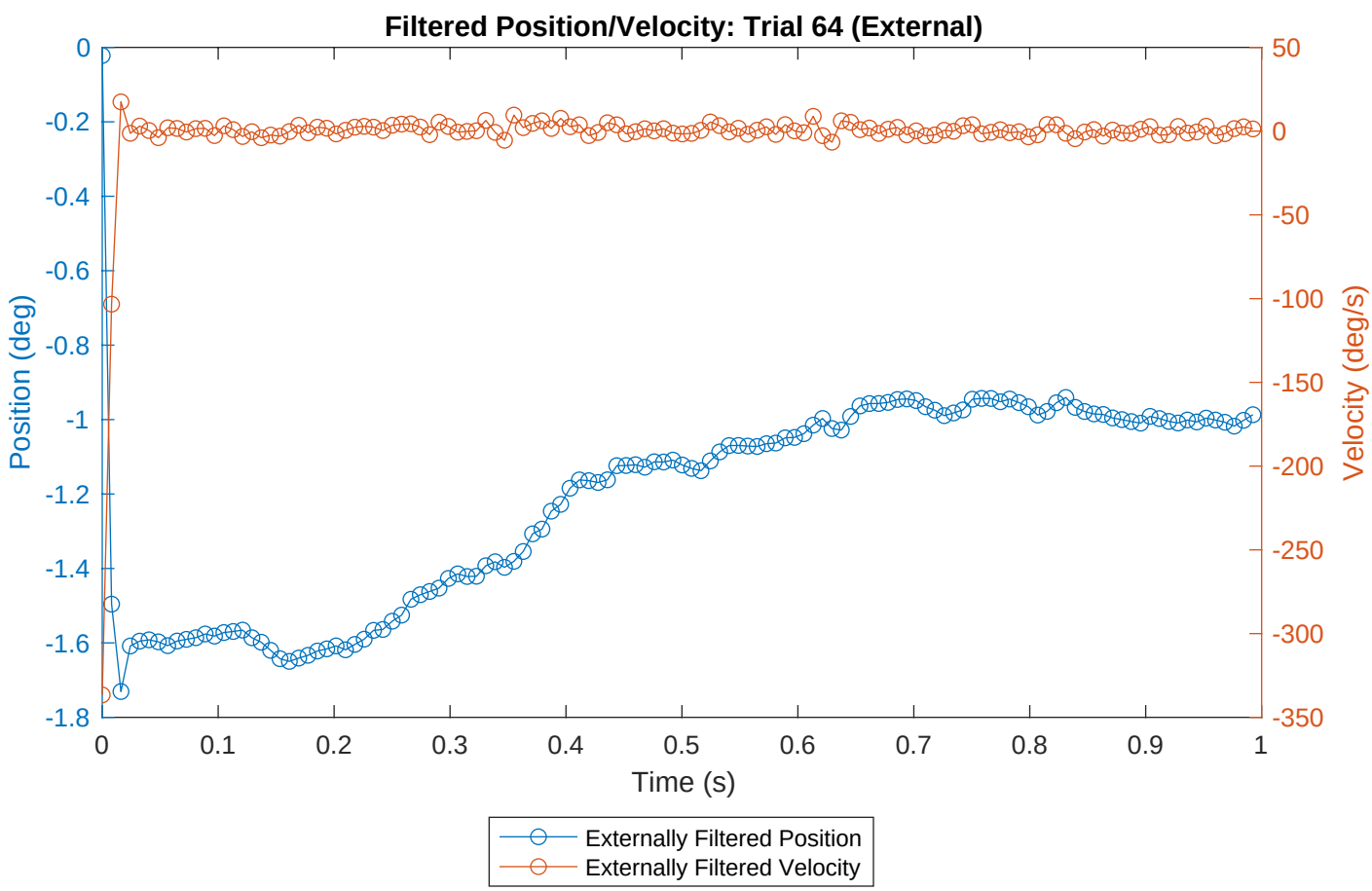

Position (deg)
Time (s)
0
-0.2
-0.4
-0.6
-0.8
-1
-1.2
-1.4
-1.6
-1.8
0
0.1
0.2
0.3
0.4
0.5
0.6
0.7
0.8
0.9
1

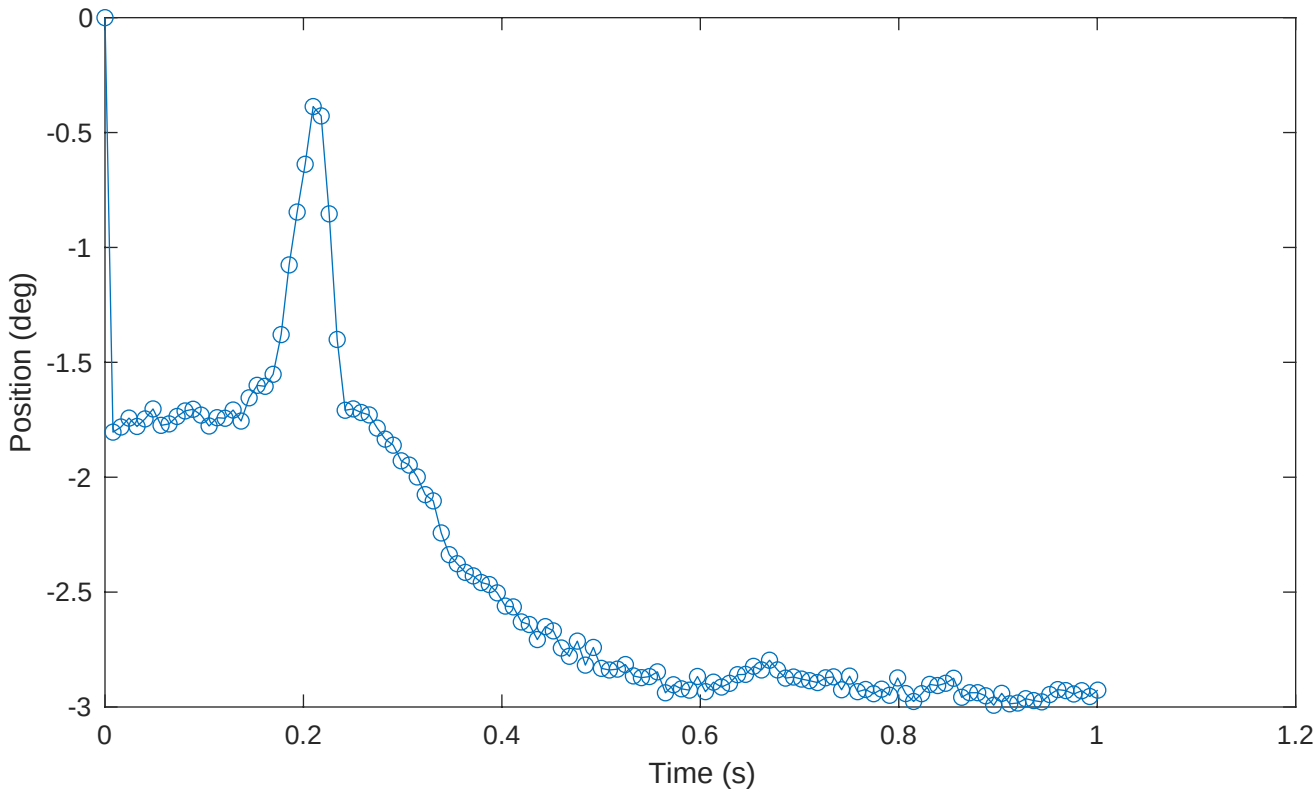

Filtered Position/Velocity: Trial 62 (External)
Position (deg)
Velocity (deg/s)
Time (s)
0
-0.2
-0.4
-0.6
-0.8
-1
-1.2
-1.4
-1.6
-1.8
50
0
-50
-100
-150
-200
-250
-300
-350
0
0.1
0.2
0.3
0.4
0.5
0.6
0.7
0.8
0.9
1
Externally Filtered Position
Externally Filtered Velocity

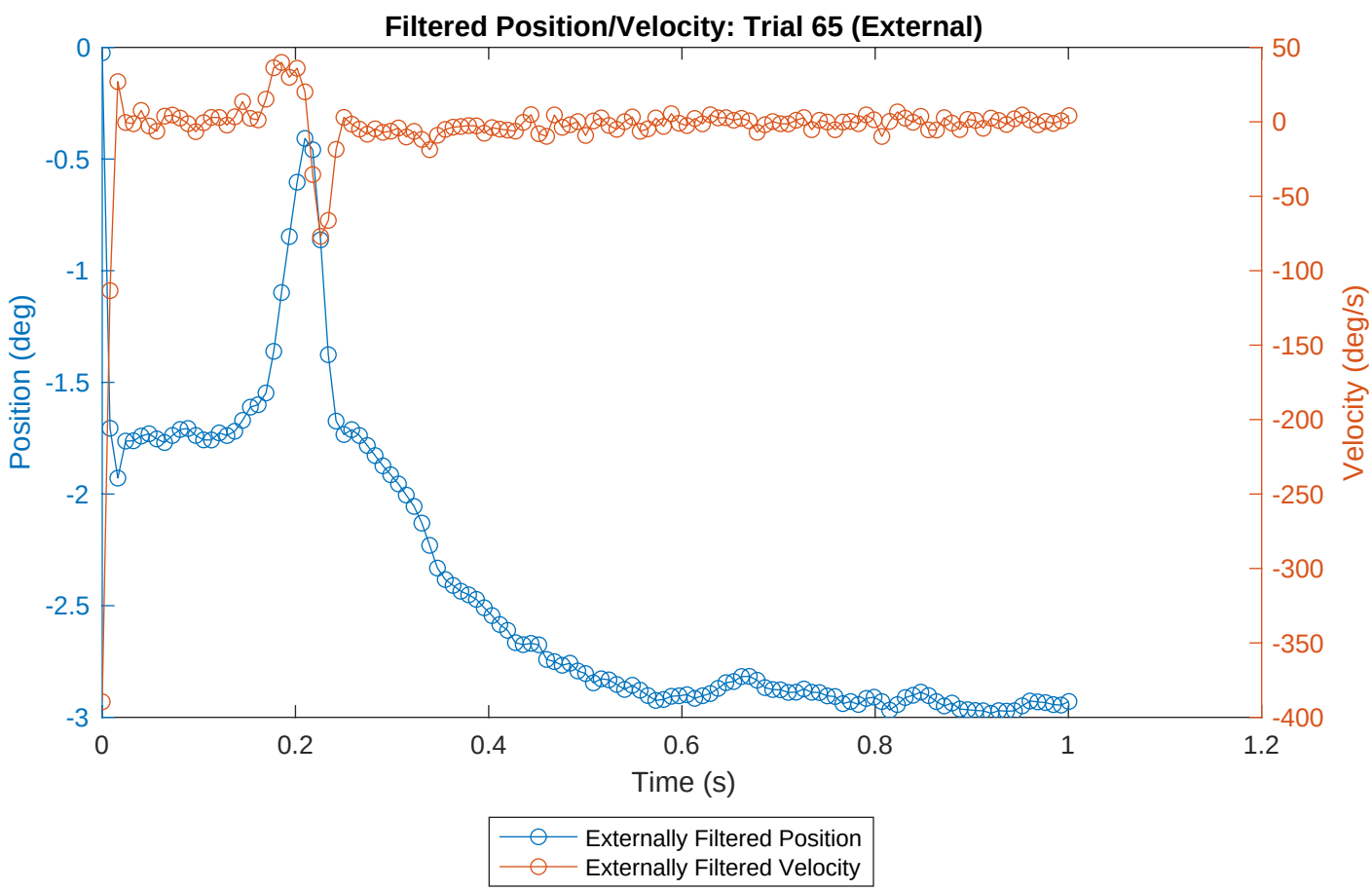

Position (deg)
Time (s)
0
-0.5
-1
-1.5
-2
-2.5
0
0.1
0.2
0.3
0.4
0.5
0.6
0.7
0.8
0.9
1

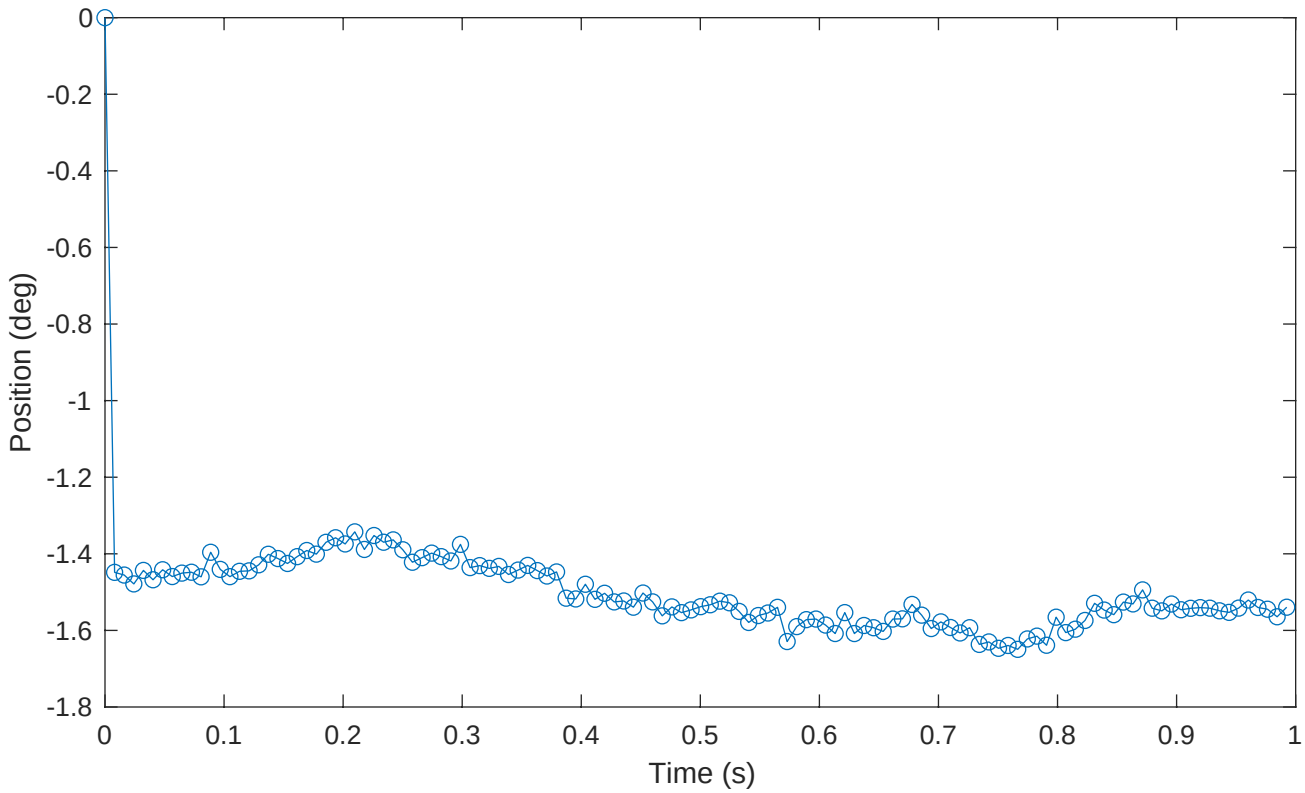

Filtered Position/Velocity: Trial 63 (External)
Position (deg)
Velocity (deg/s)
Time (s)
0
-0.5
-1
-1.5
-2
-2.5
200
100
0
-100
-200
-300
-400
0
0.1
0.2
0.3
0.4
0.5
0.6
0.7
0.8
0.9
1
Externally Filtered Position
Externally Filtered Velocity

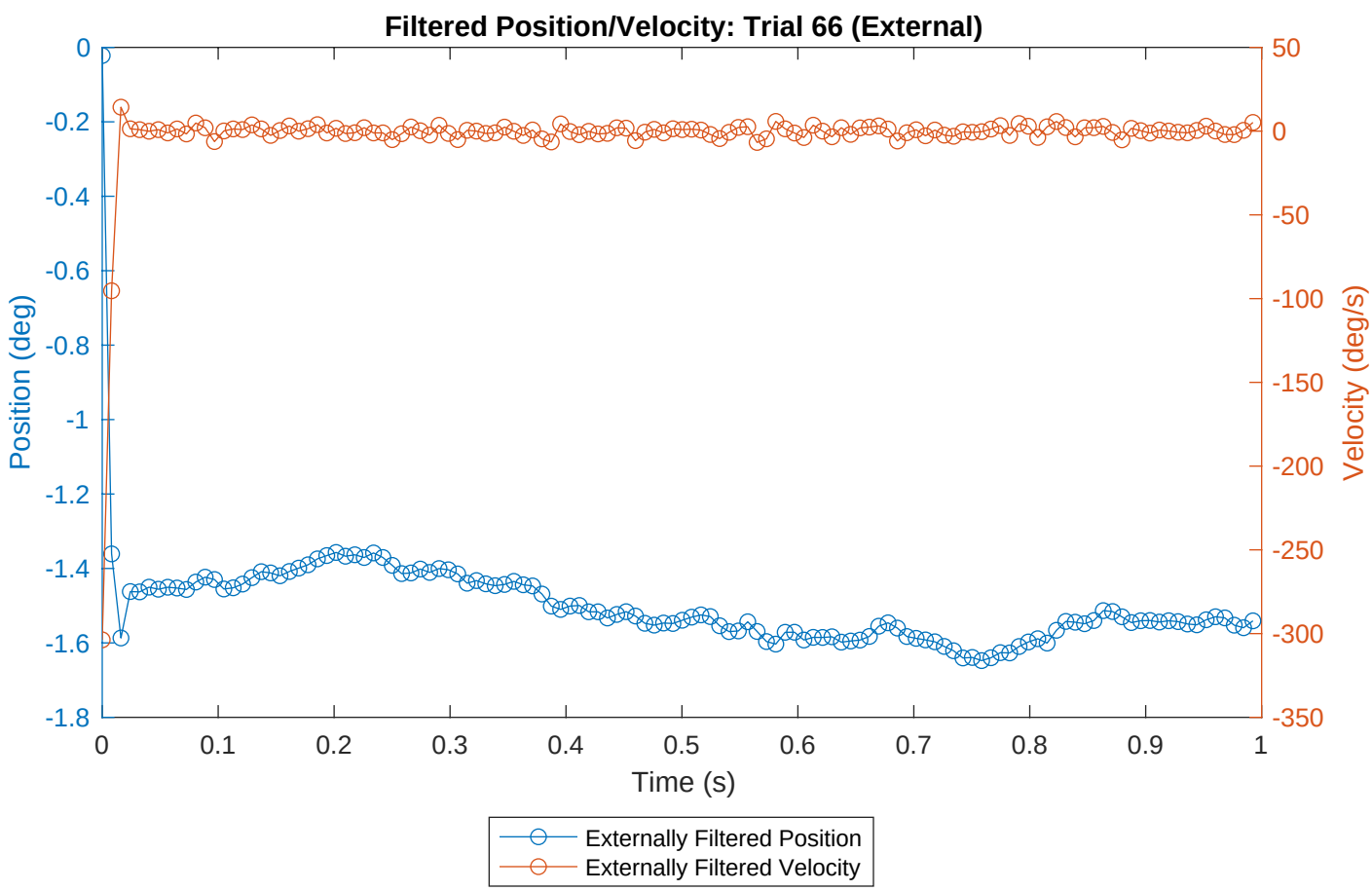

Position (deg)
Time (s)
0
-0.2
-0.4
-0.6
-0.8
-1
-1.2
-1.4
-1.6
-1.8
0
0.1
0.2
0.3
0.4
0.5
0.6
0.7
0.8
0.9
1

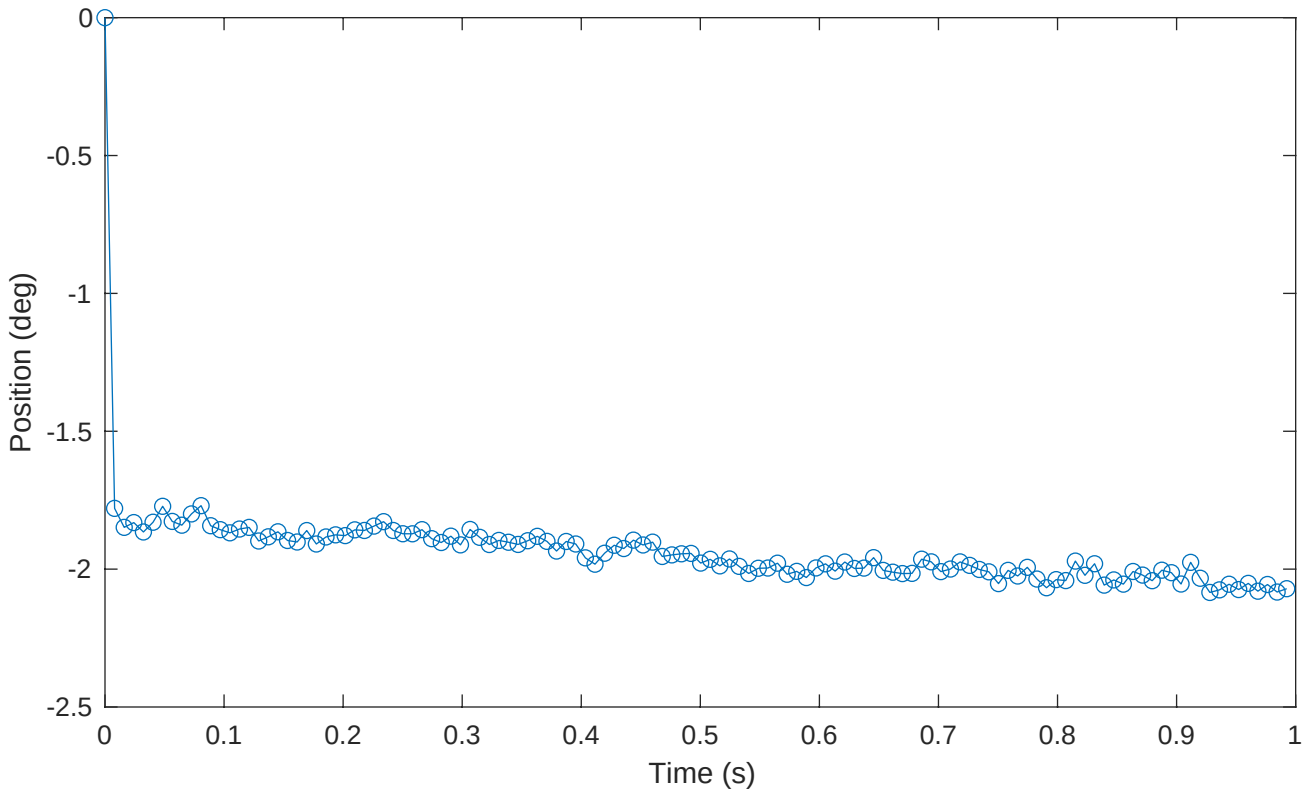

Filtered Position/Velocity: Trial 64 (External)
Position (deg)
Velocity (deg/s)
Time (s)
0
-0.2
-0.4
-0.6
-0.8
-1
-1.2
-1.4
-1.6
-1.8
50
0
-50
-100
-150
-200
-250
-300
-350
0
0.1
0.2
0.3
0.4
0.5
0.6
0.7
0.8
0.9
1
Externally Filtered Position
Externally Filtered Velocity

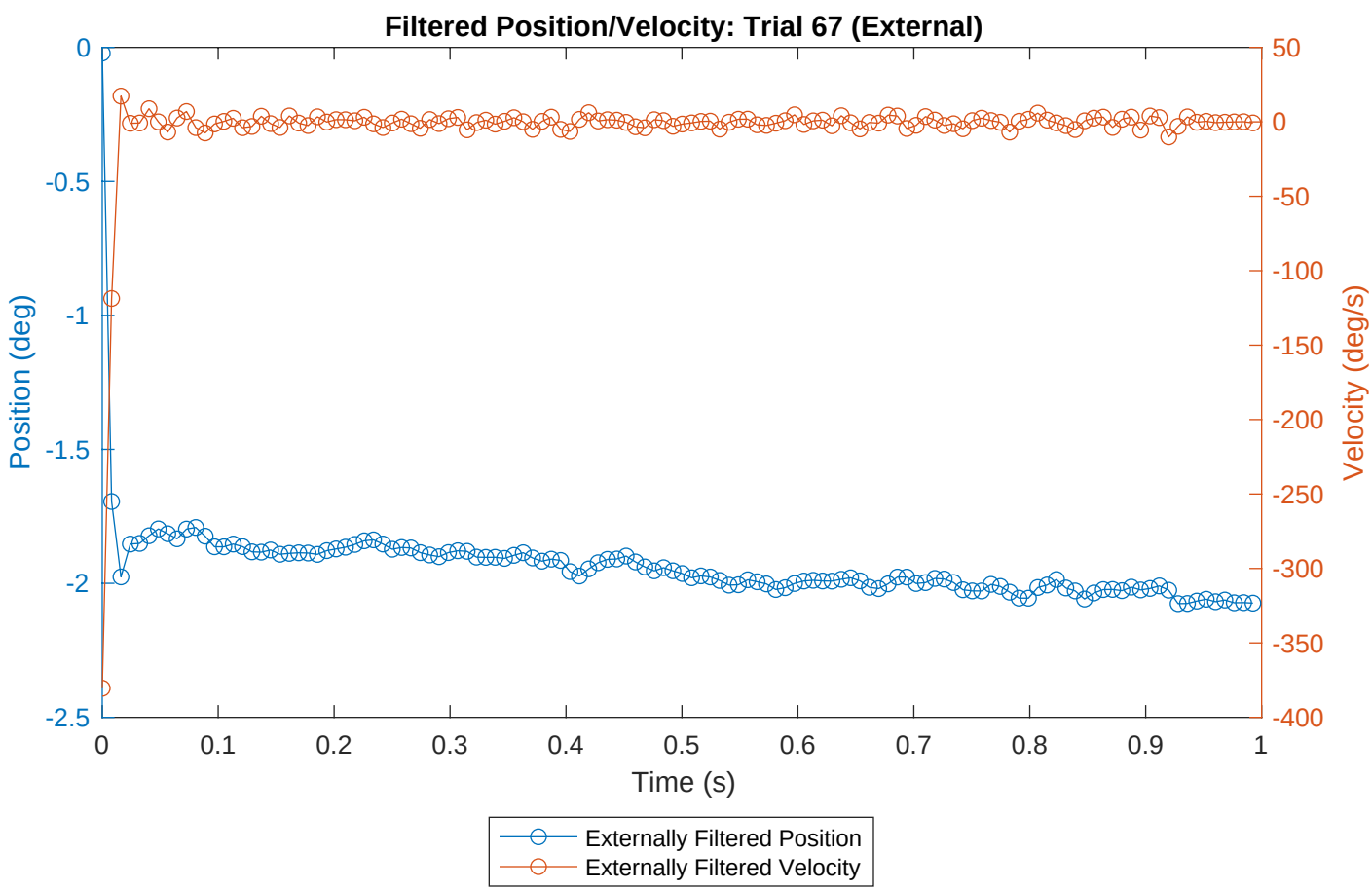

0
-0.5
-1
-1.5
-2
-2.5
-3
Position (deg)
0
0.2
0.4
0.6
0.8
1
1.2
Time (s)

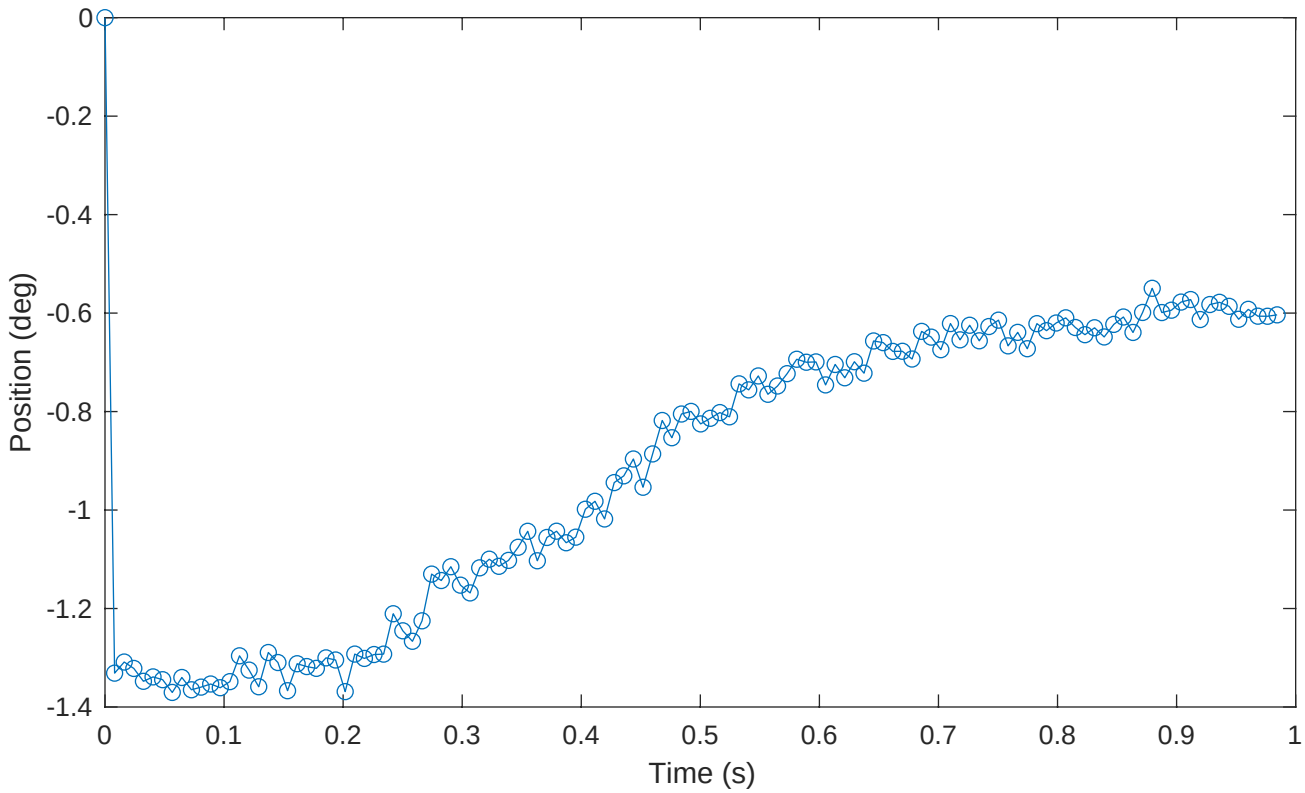

Filtered Position/Velocity: Trial 65 (External)
0
-0.5
-1
-1.5
-2
-2.5
-3
Position (deg)
50
0
-50
-100
-150
-200
-250
-300
-350
-400
Velocity (deg/s)
0
0.2
0.4
0.6
0.8
1
1.2
Time (s)
Externally Filtered Position
Externally Filtered Velocity

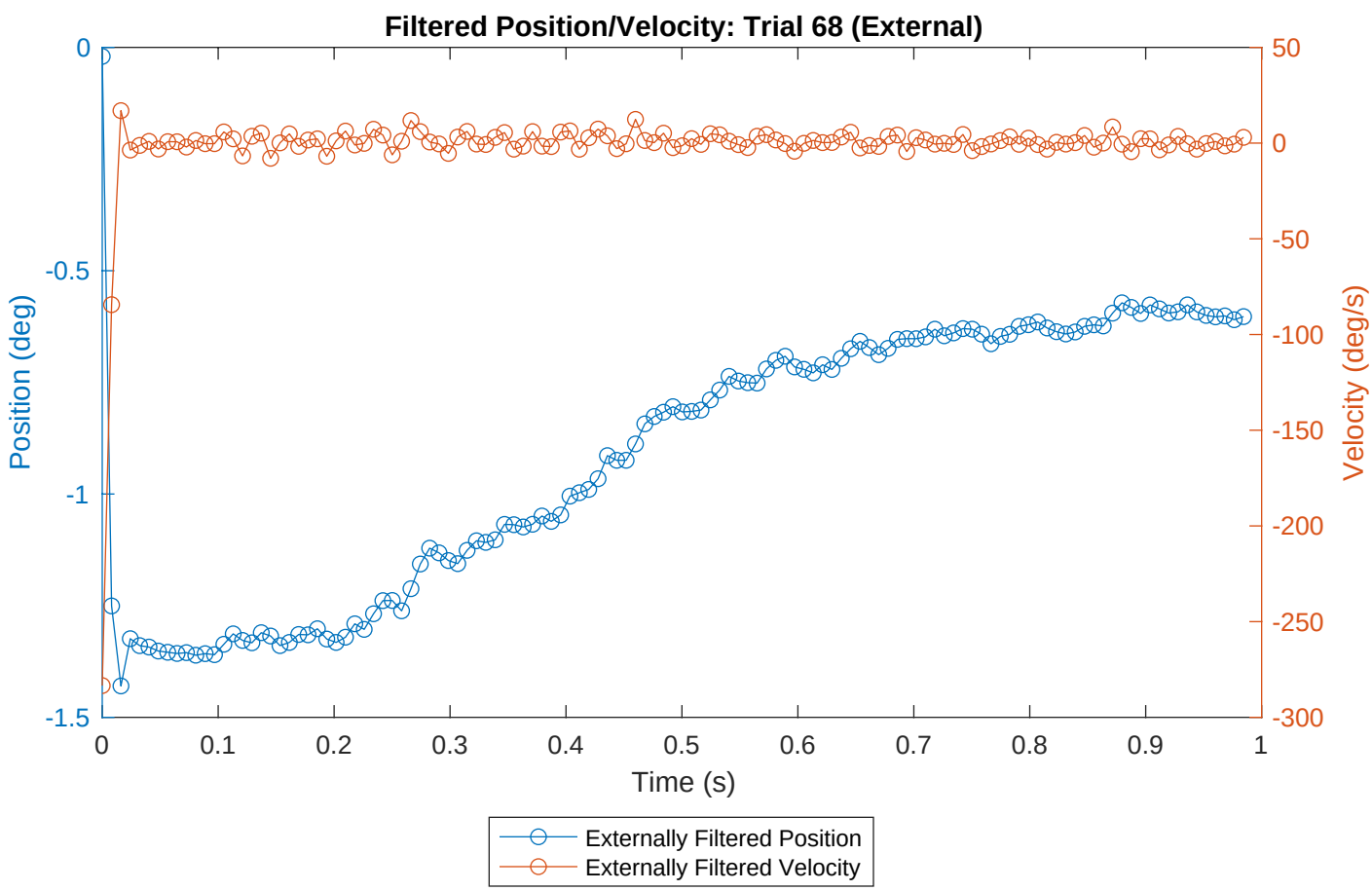

Position (deg)
Time (s)

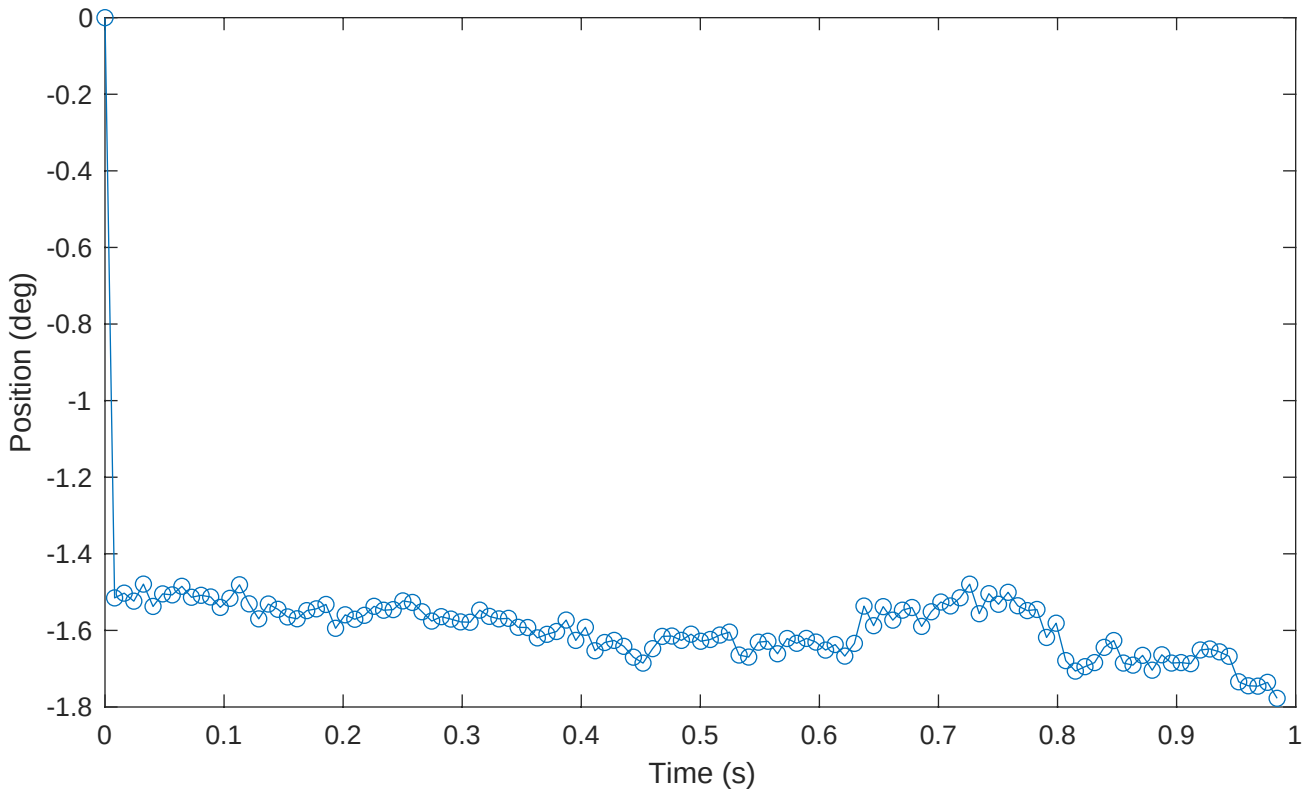

Filtered Position/Velocity: Trial 66 (External)
Position (deg)
Velocity (deg/s)
Time (s)
Externally Filtered Position
Externally Filtered Velocity

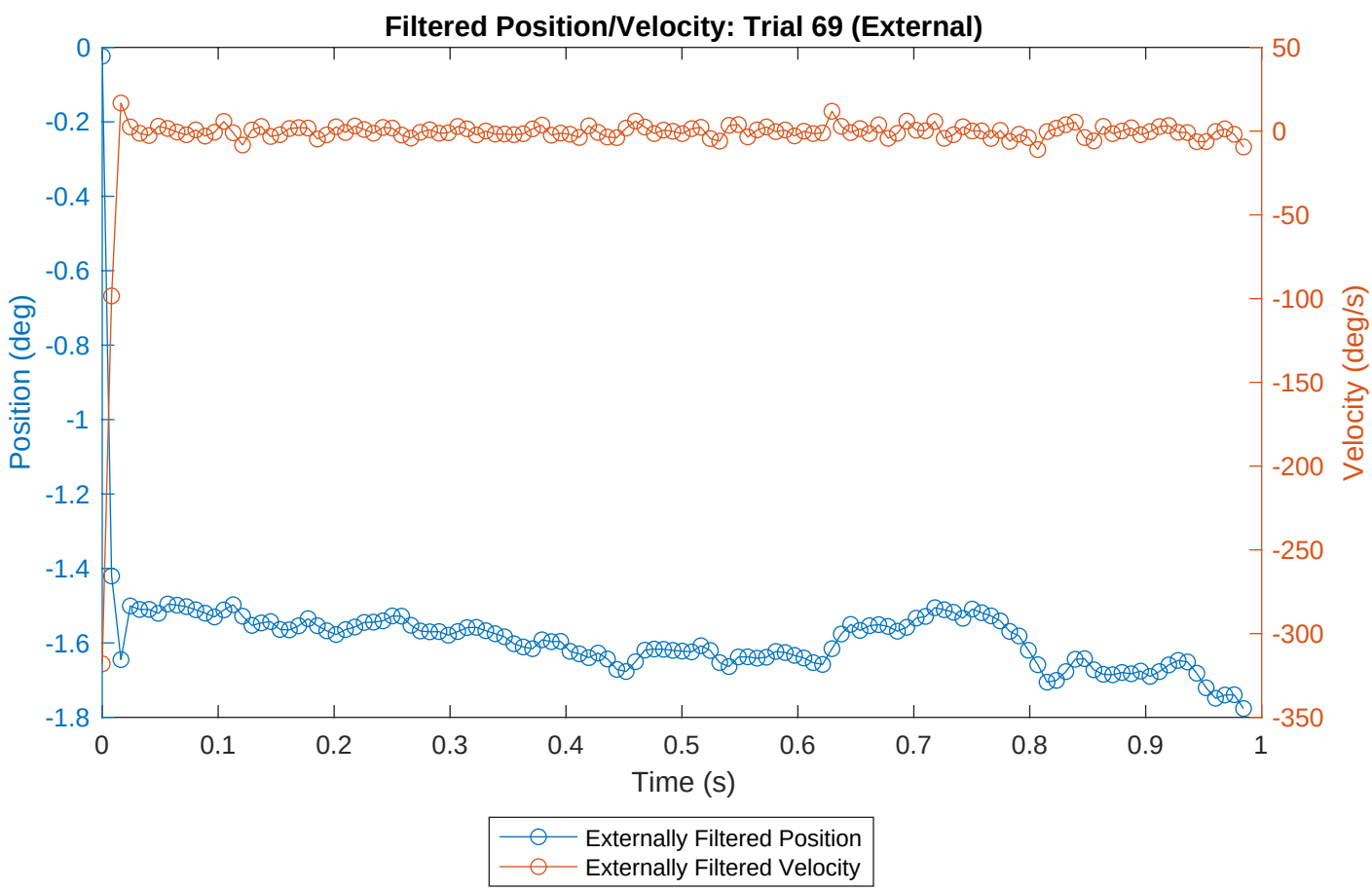

Position (deg)
Time (s)
0
-0.5
-1
-1.5
-2
-2.5
0
0.1
0.2
0.3
0.4
0.5
0.6
0.7
0.8
0.9
1

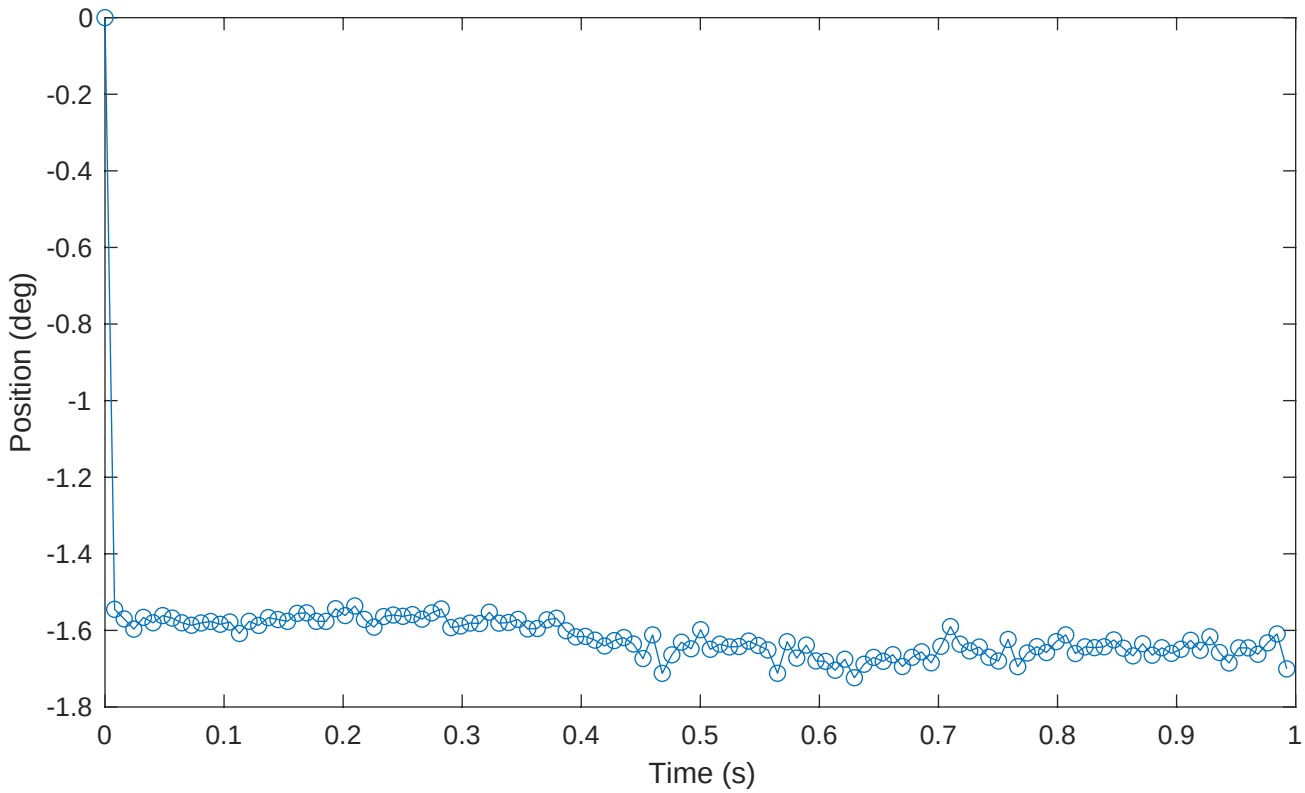

Filtered Position/Velocity: Trial 67 (External)
Position (deg)
Velocity (deg/s)
Time (s)
0
-0.5
-1
-1.5
-2
-2.5
50
0
-50
-100
-150
-200
-250
-300
-350
-400
0
0.1
0.2
0.3
0.4
0.5
0.6
0.7
0.8
0.9
1
Externally Filtered Position
Externally Filtered Velocity

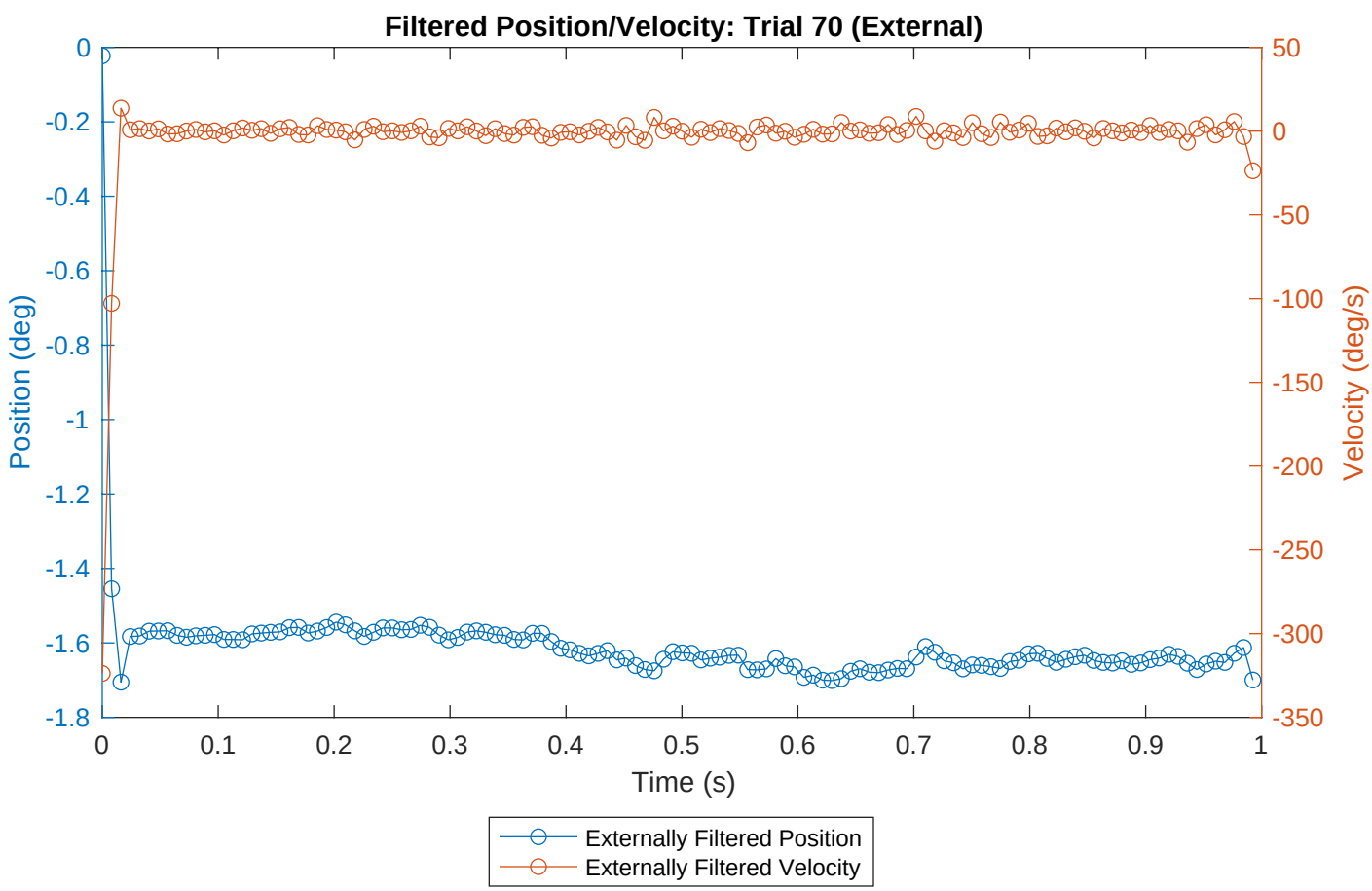

0
-0.2
-0.4
-0.6
-0.8
-1
-1.2
-1.4
Position (deg)
0
0.1
0.2
0.3
0.4
0.5
0.6
0.7
0.8
0.9
1
Time (s)

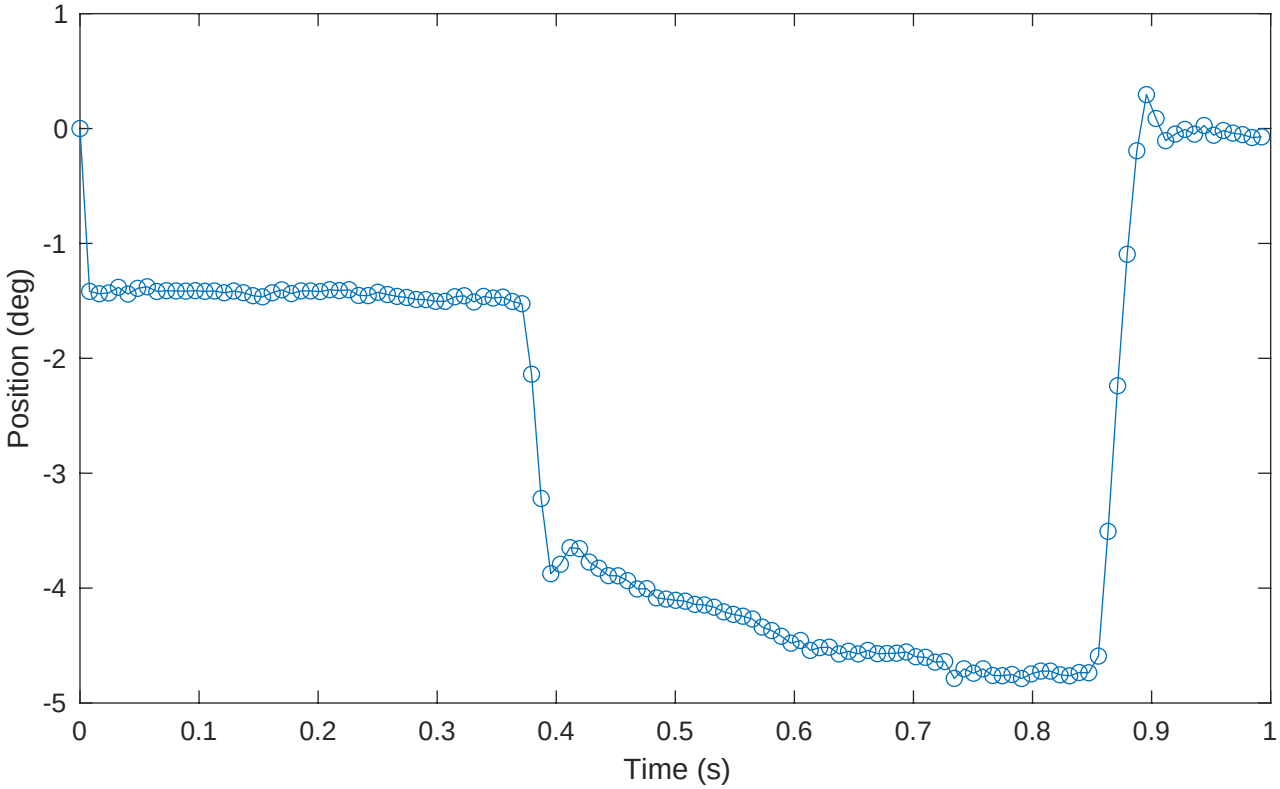

Filtered Position/Velocity: Trial 68 (External)
0
-0.5
-1
-1.5
Position (deg)
50
0
-50
-100
-150
-200
-250
-300
Velocity (deg/s)
0
0.1
0.2
0.3
0.4
0.5
0.6
0.7
0.8
0.9
1
Time (s)
Externally Filtered Position
Externally Filtered Velocity

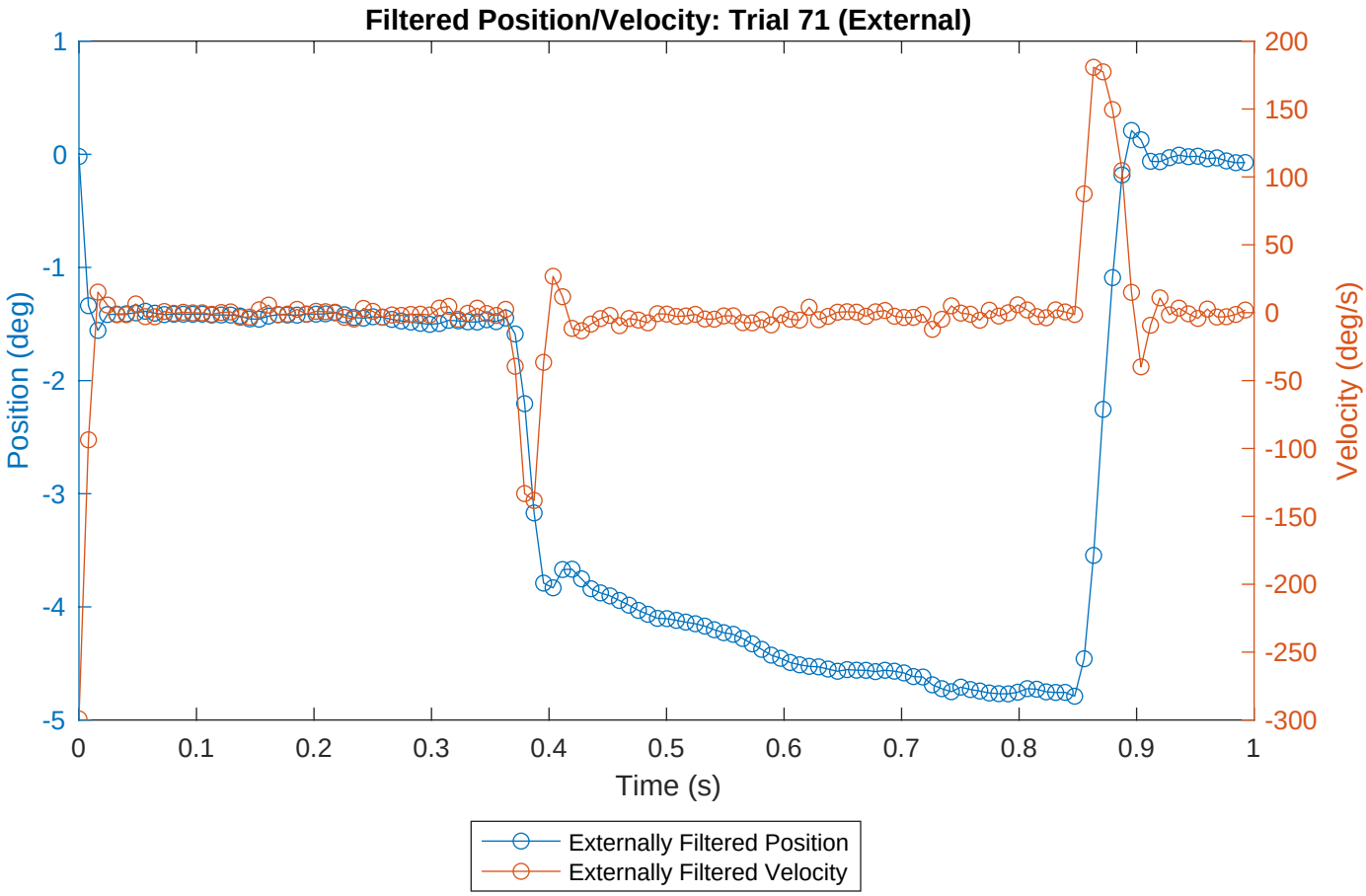

Position (deg)
Time (s)
0
-0.2
-0.4
-0.6
-0.8
-1
-1.2
-1.4
-1.6
-1.8
0
0.1
0.2
0.3
0.4
0.5
0.6
0.7
0.8
0.9
1

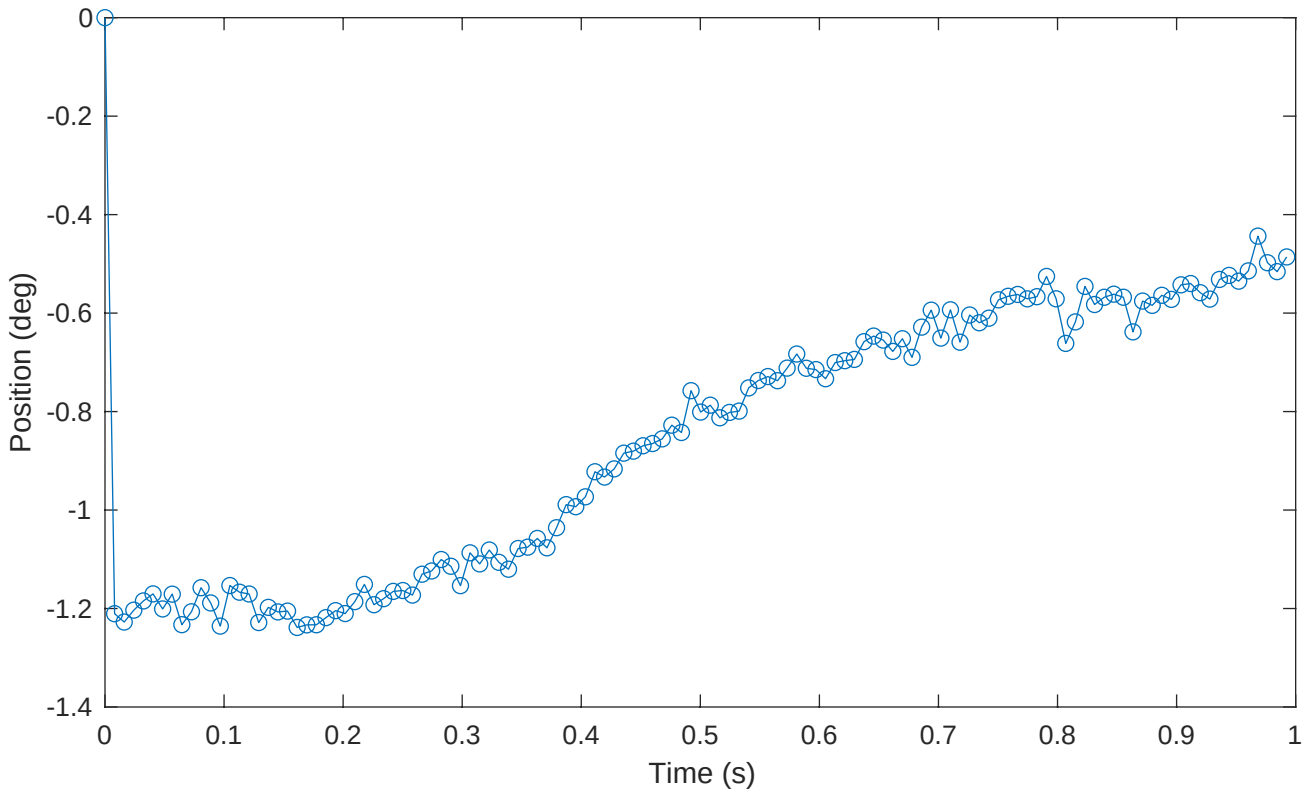

Filtered Position/Velocity: Trial 69 (External)
Position (deg)
Velocity (deg/s)
Time (s)
0
-0.2
-0.4
-0.6
-0.8
-1
-1.2
-1.4
-1.6
-1.8
50
0
-50
-100
-150
-200
-250
-300
-350
0
0.1
0.2
0.3
0.4
0.5
0.6
0.7
0.8
0.9
1
Externally Filtered Position
Externally Filtered Velocity

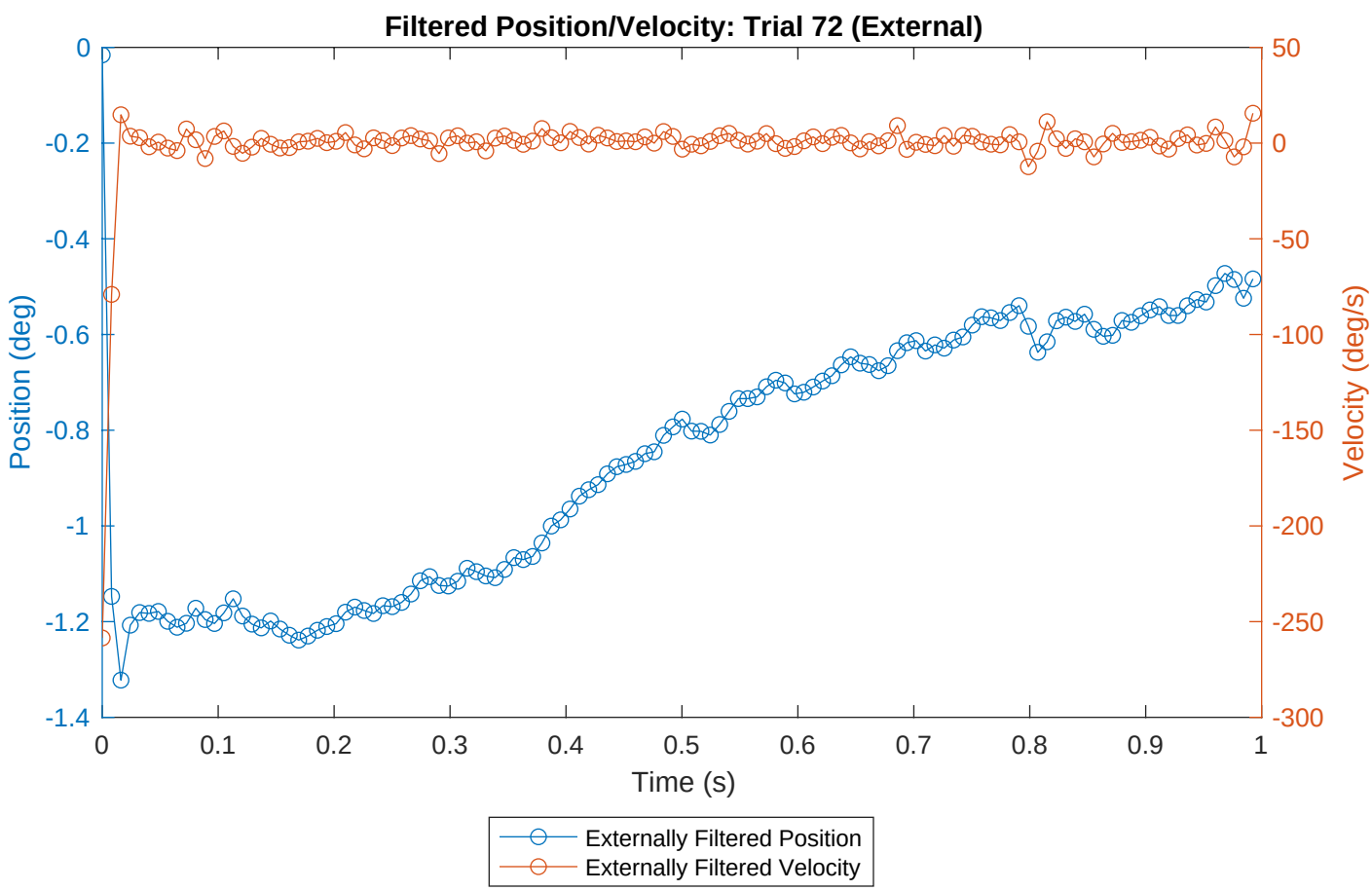

Position (deg)
Time (s)

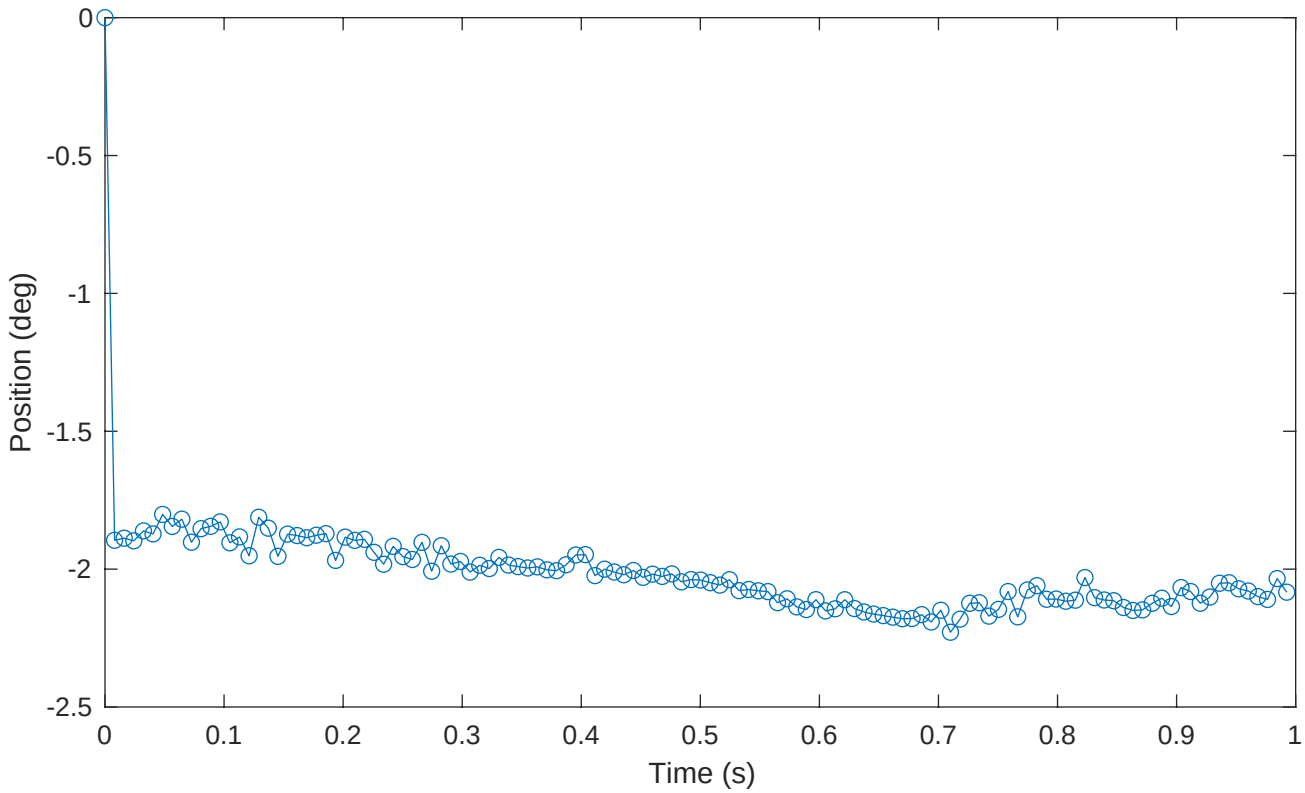

Filtered Position/Velocity: Trial 70 (External)
Position (deg)
Velocity (deg/s)
Time (s)
Externally Filtered Position
Externally Filtered Velocity

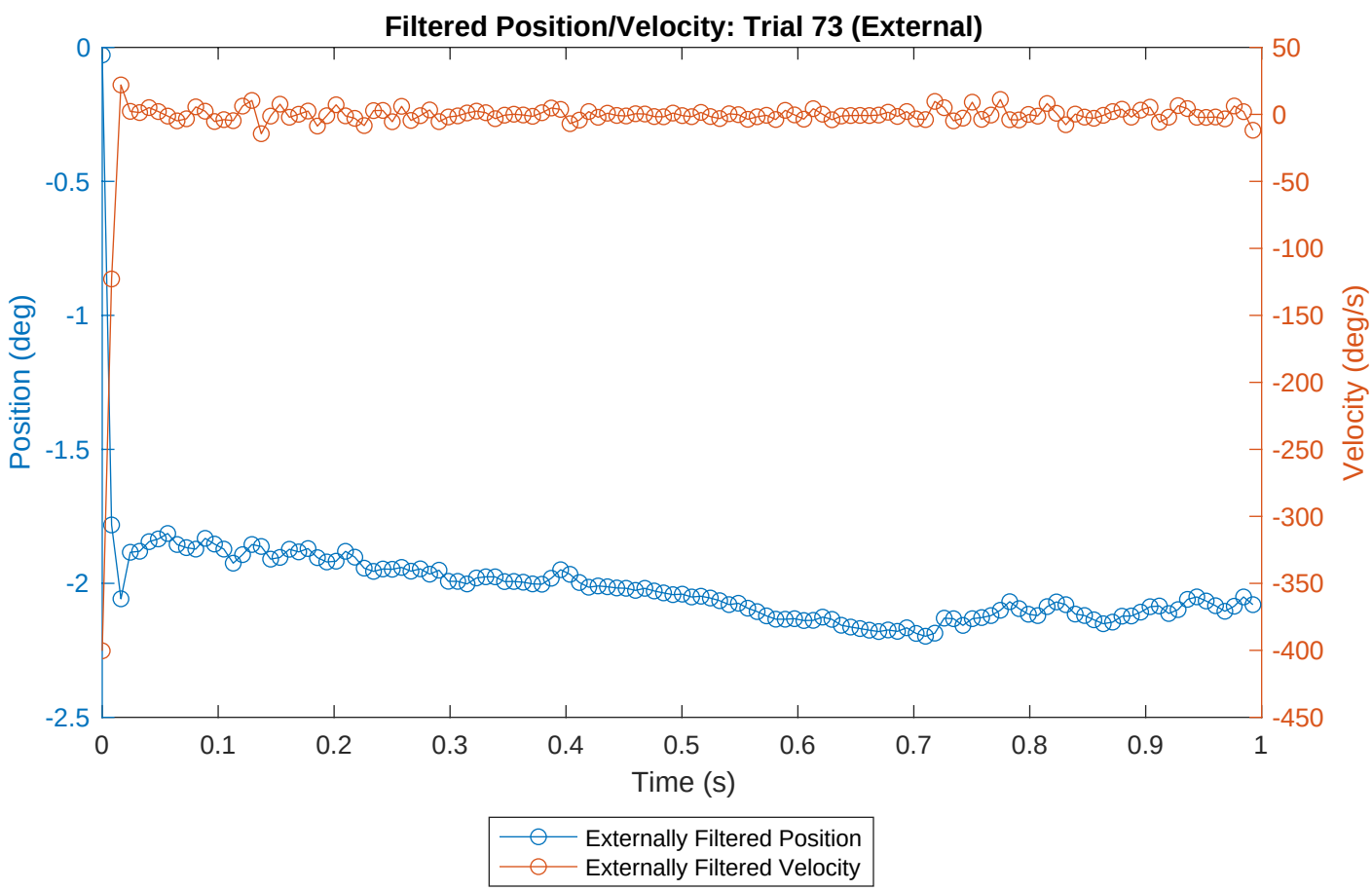

Position (deg)
Time (s)

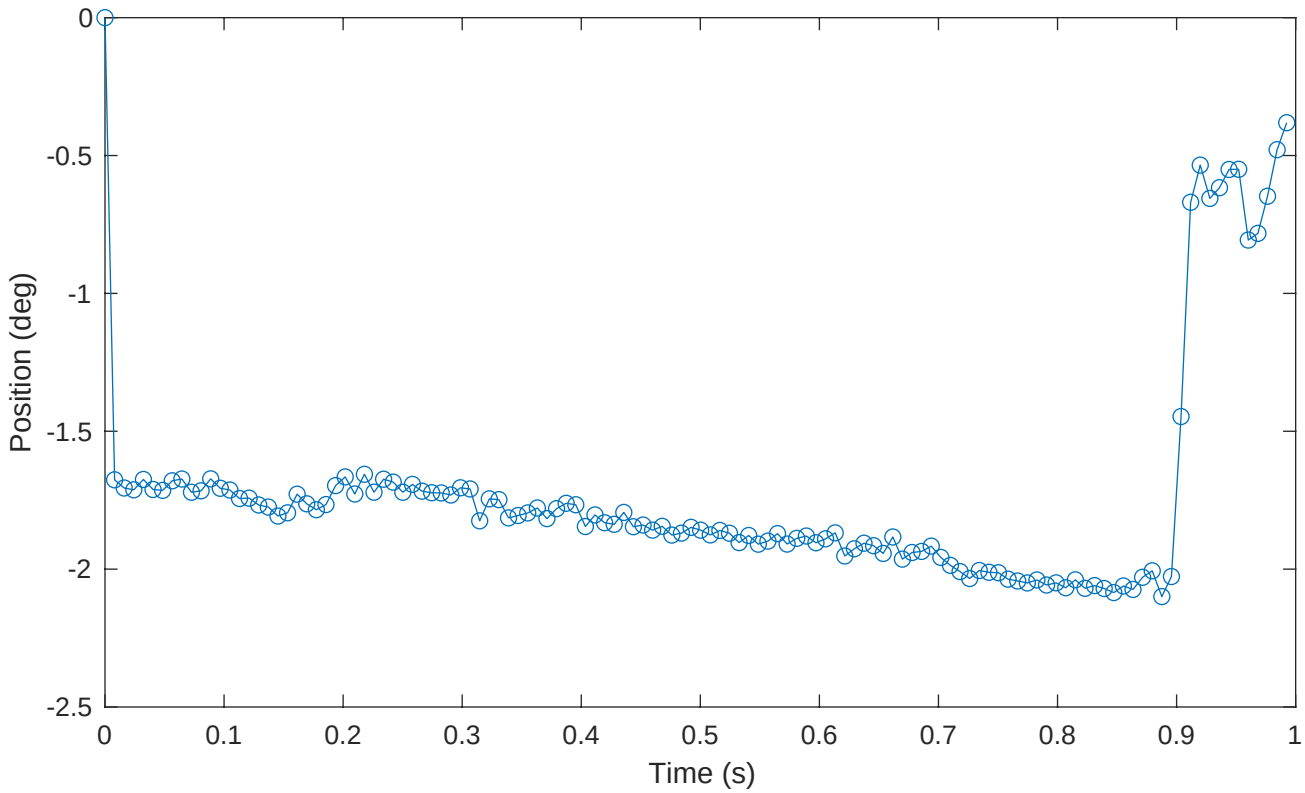

Filtered Position/Velocity: Trial 71 (External)
Position (deg)
Velocity (deg/s)
Time (s)
Externally Filtered Position
Externally Filtered Velocity

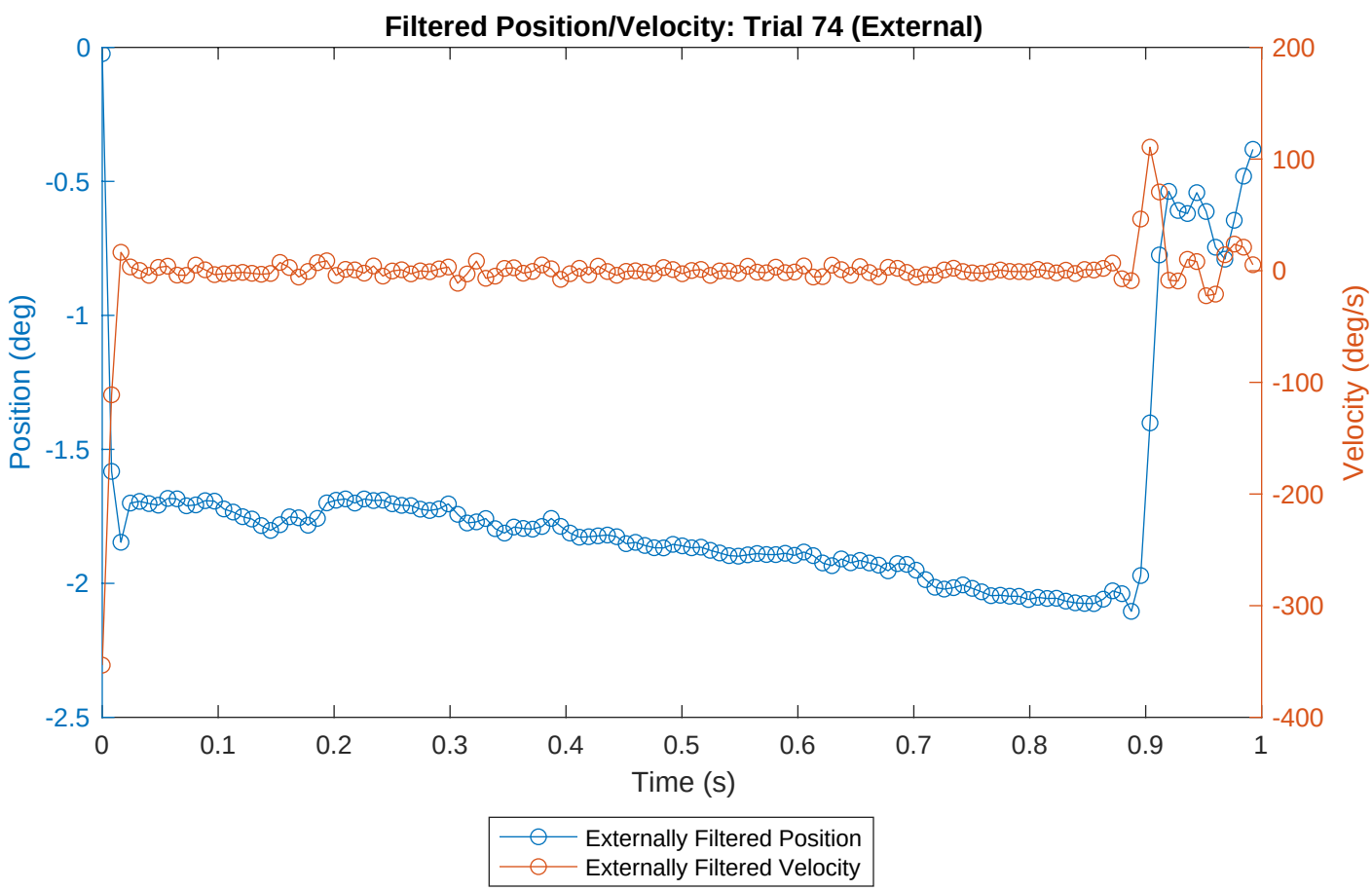

Position (deg)
Time (s)
0
-0.2
-0.4
-0.6
-0.8
-1
-1.2
-1.4
0
0.1
0.2
0.3
0.4
0.5
0.6
0.7
0.8
0.9
1

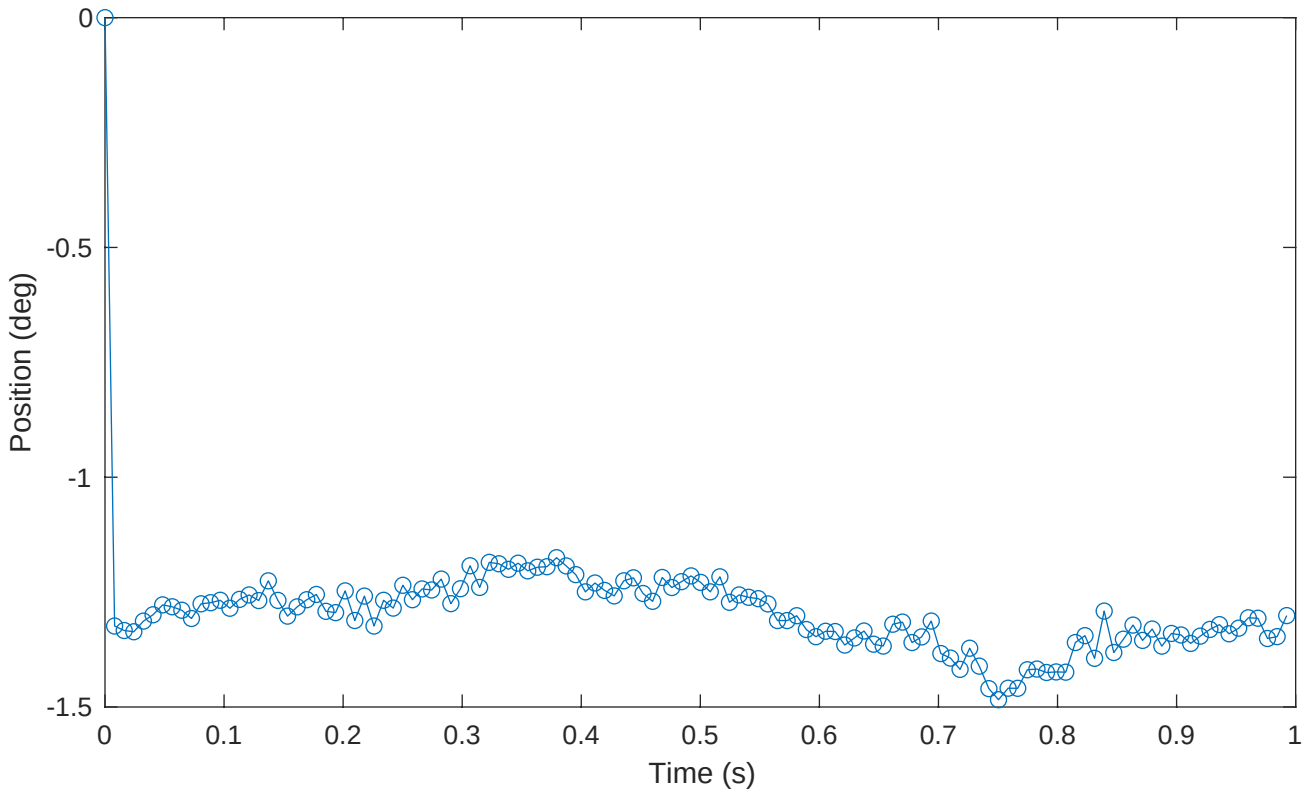

Filtered Position/Velocity: Trial 72 (External)
Position (deg)
Velocity (deg/s)
Time (s)
0
-0.2
-0.4
-0.6
-0.8
-1
-1.2
-1.4
50
0
-50
-100
-150
-200
-250
-300
0
0.1
0.2
0.3
0.4
0.5
0.6
0.7
0.8
0.9
1
Externally Filtered Position
Externally Filtered Velocity

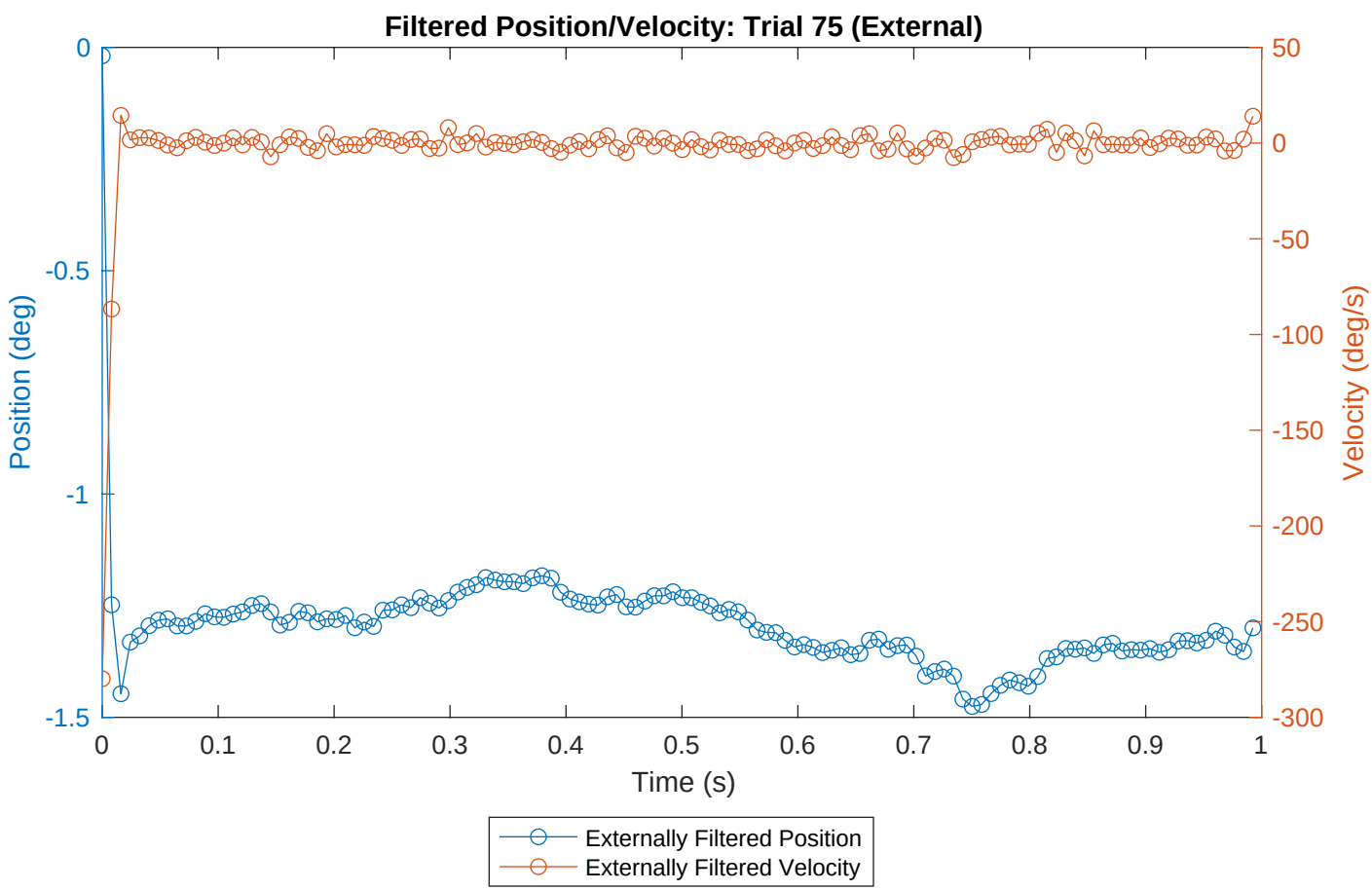

0
-0.5
-1
-1.5
-2
-2.5
Position (deg)
0
0.1
0.2
0.3
0.4
0.5
0.6
0.7
0.8
0.9
1
Time (s)

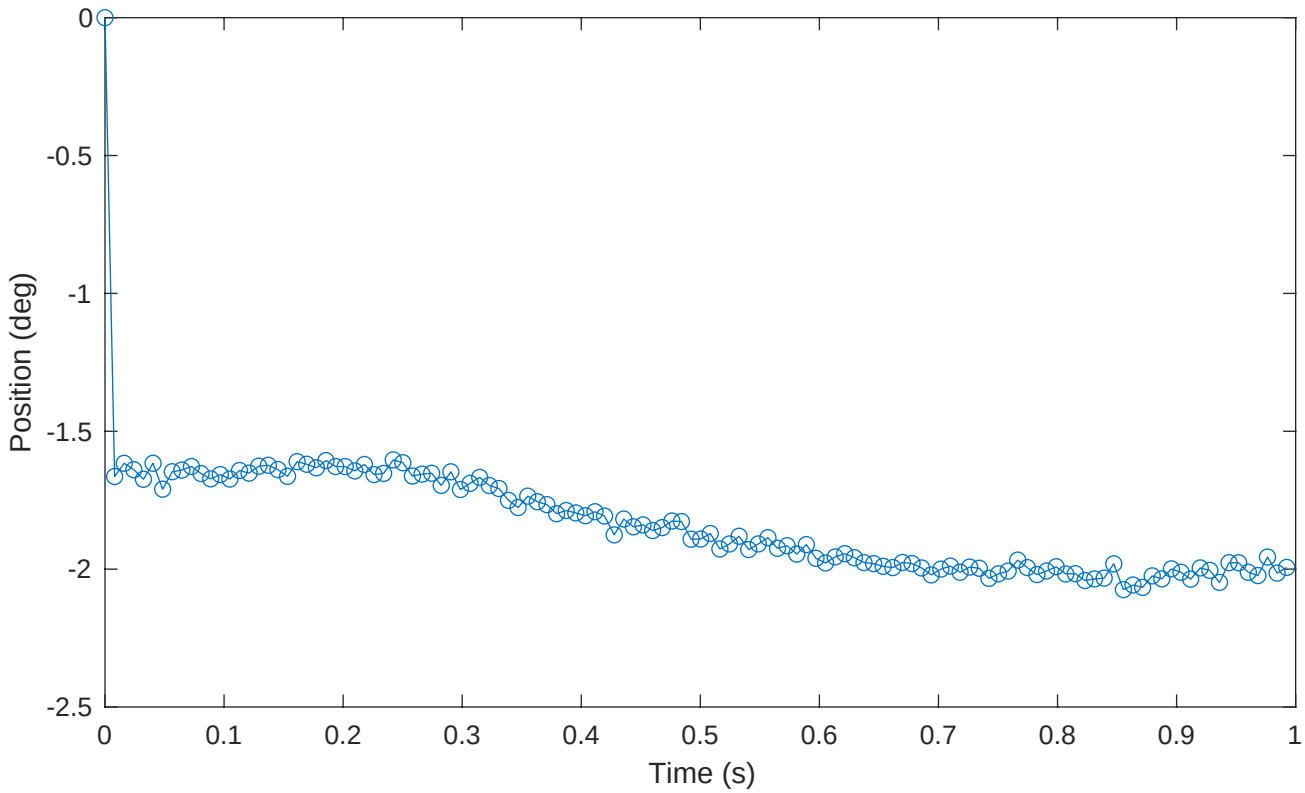

Filtered Position/Velocity: Trial 73 (External)
0
-0.5
-1
-1.5
-2
-2.5
Position (deg)
50
0
-50
-100
-150
-200
-250
-300
-350
-400
-450
Velocity (deg/s)
0
0.1
0.2
0.3
0.4
0.5
0.6
0.7
0.8
0.9
1
Time (s)
Externally Filtered Position
Externally Filtered Velocity

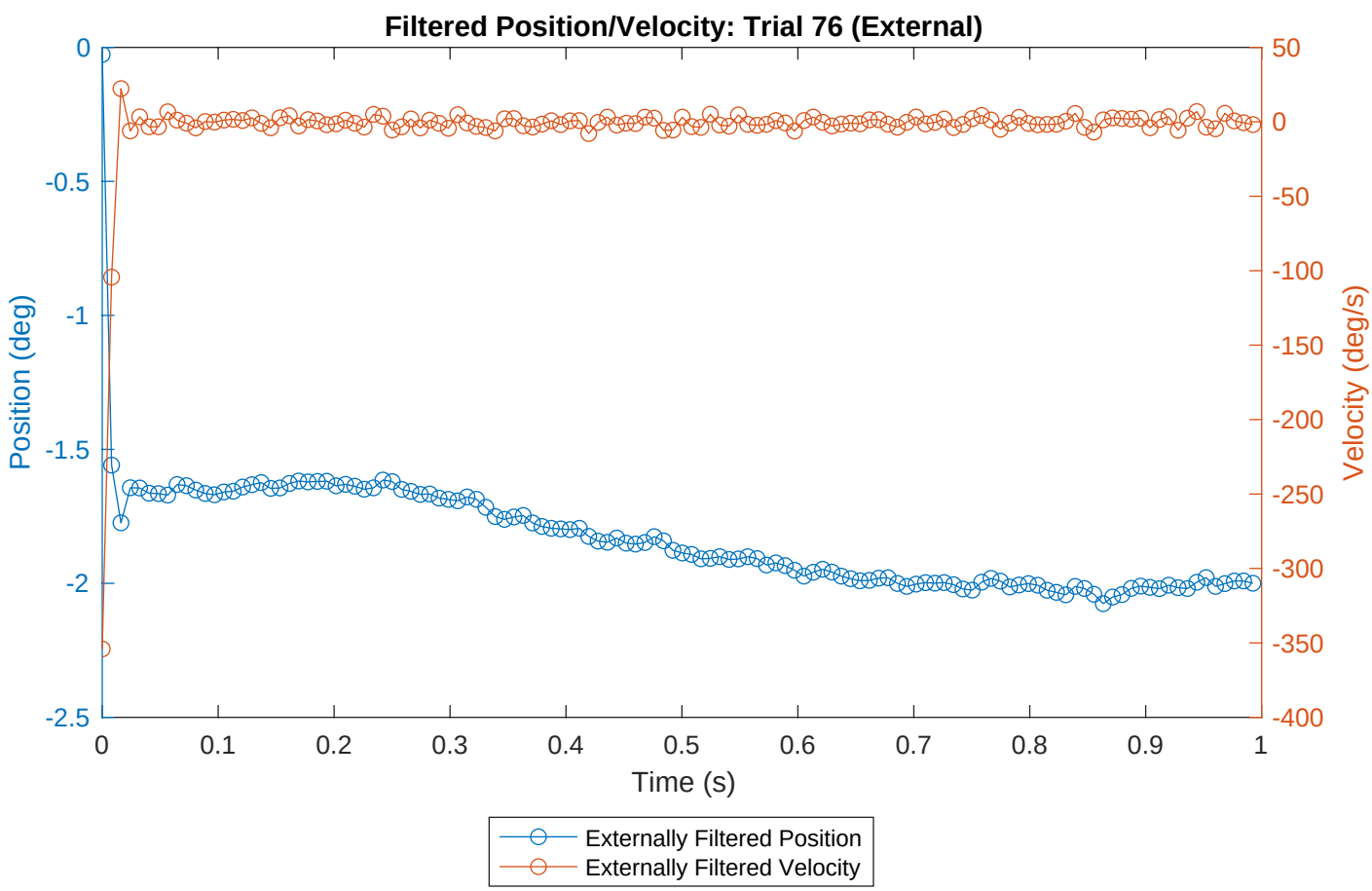

Position (deg)
Time (s)
0
-0.5
-1
-1.5
-2
-2.5
0
0.1
0.2
0.3
0.4
0.5
0.6
0.7
0.8
0.9
1

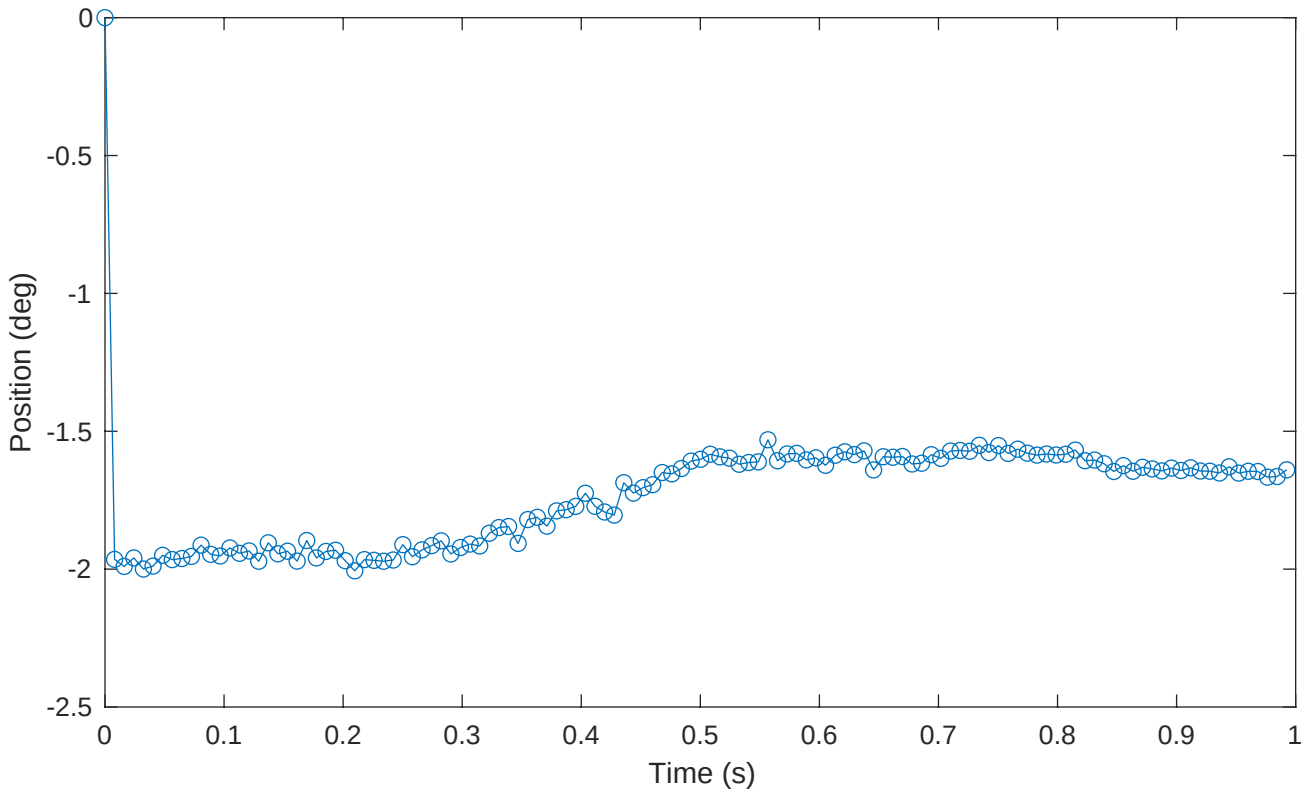

Filtered Position/Velocity: Trial 74 (External)
Position (deg)
Velocity (deg/s)
Time (s)
0
-0.5
-1
-1.5
-2
-2.5
200
100
0
-100
-200
-300
-400
0
0.1
0.2
0.3
0.4
0.5
0.6
0.7
0.8
0.9
1
Externally Filtered Position
Externally Filtered Velocity

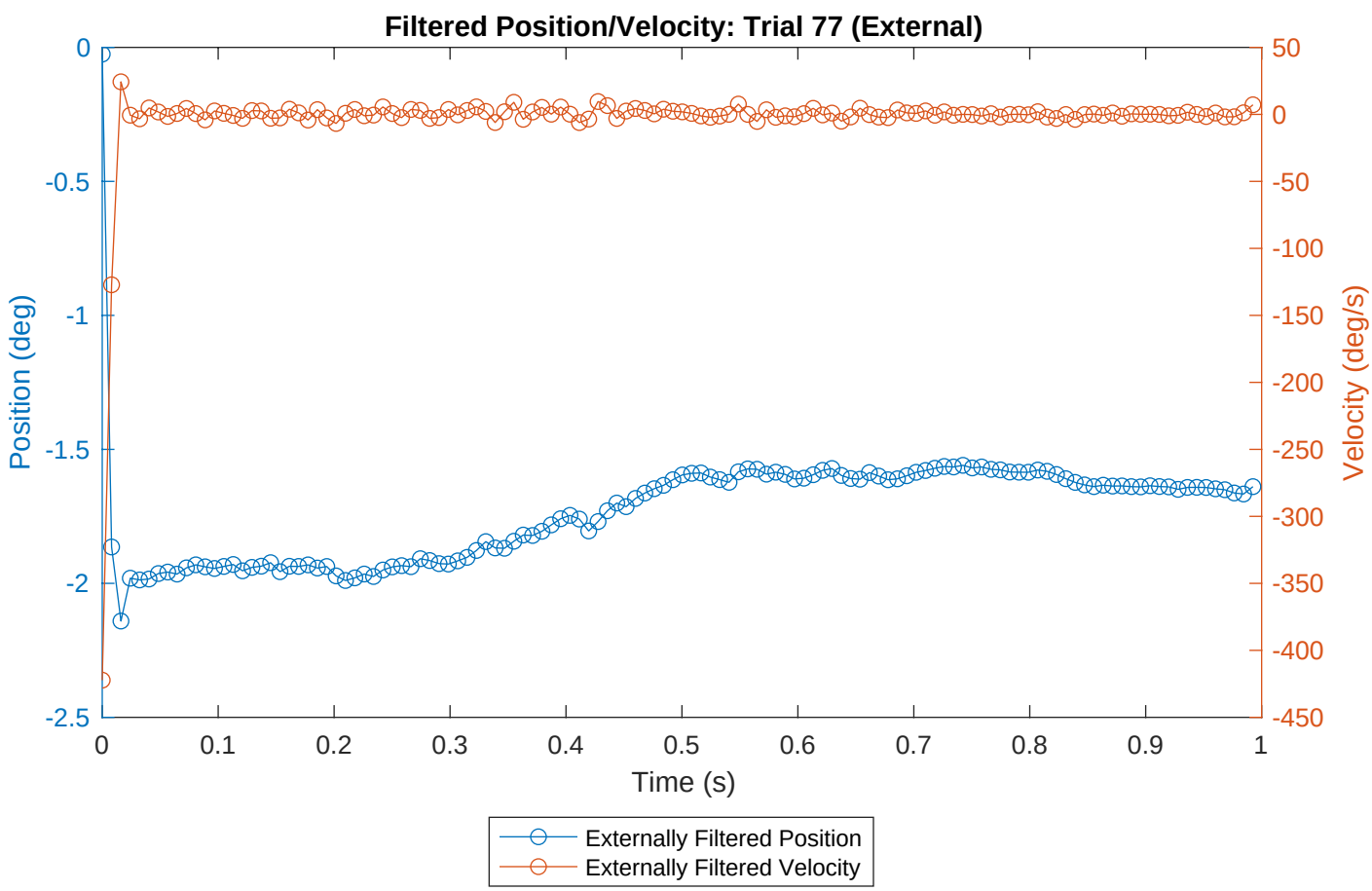

0
-0.5
-1
-1.5
Position (deg)
0
0.1
0.2
0.3
0.4
0.5
0.6
0.7
0.8
0.9
1
Time (s)

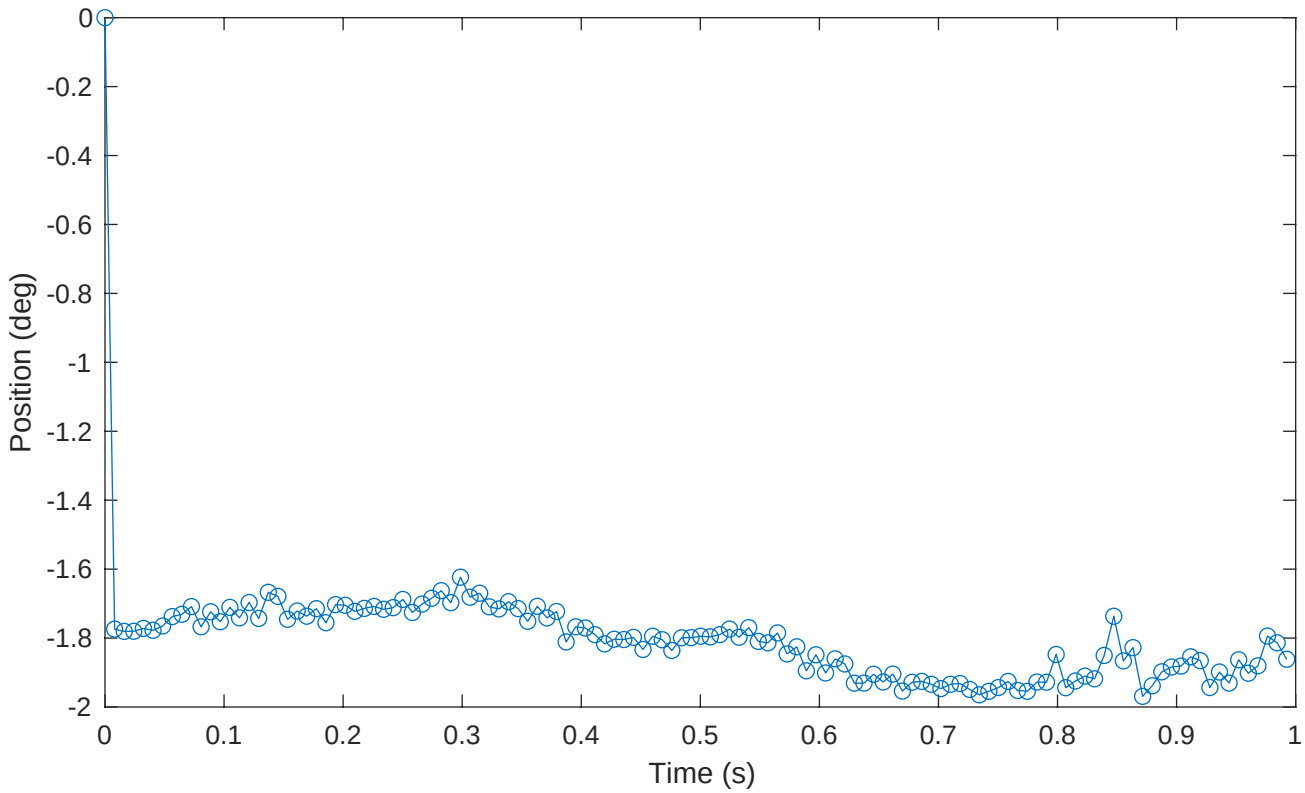

Filtered Position/Velocity: Trial 75 (External)
0
-0.5
-1
-1.5
Position (deg)
50
0
-50
-100
-150
-200
-250
-300
Velocity (deg/s)
0
0.1
0.2
0.3
0.4
0.5
0.6
0.7
0.8
0.9
1
Time (s)
Externally Filtered Position
Externally Filtered Velocity

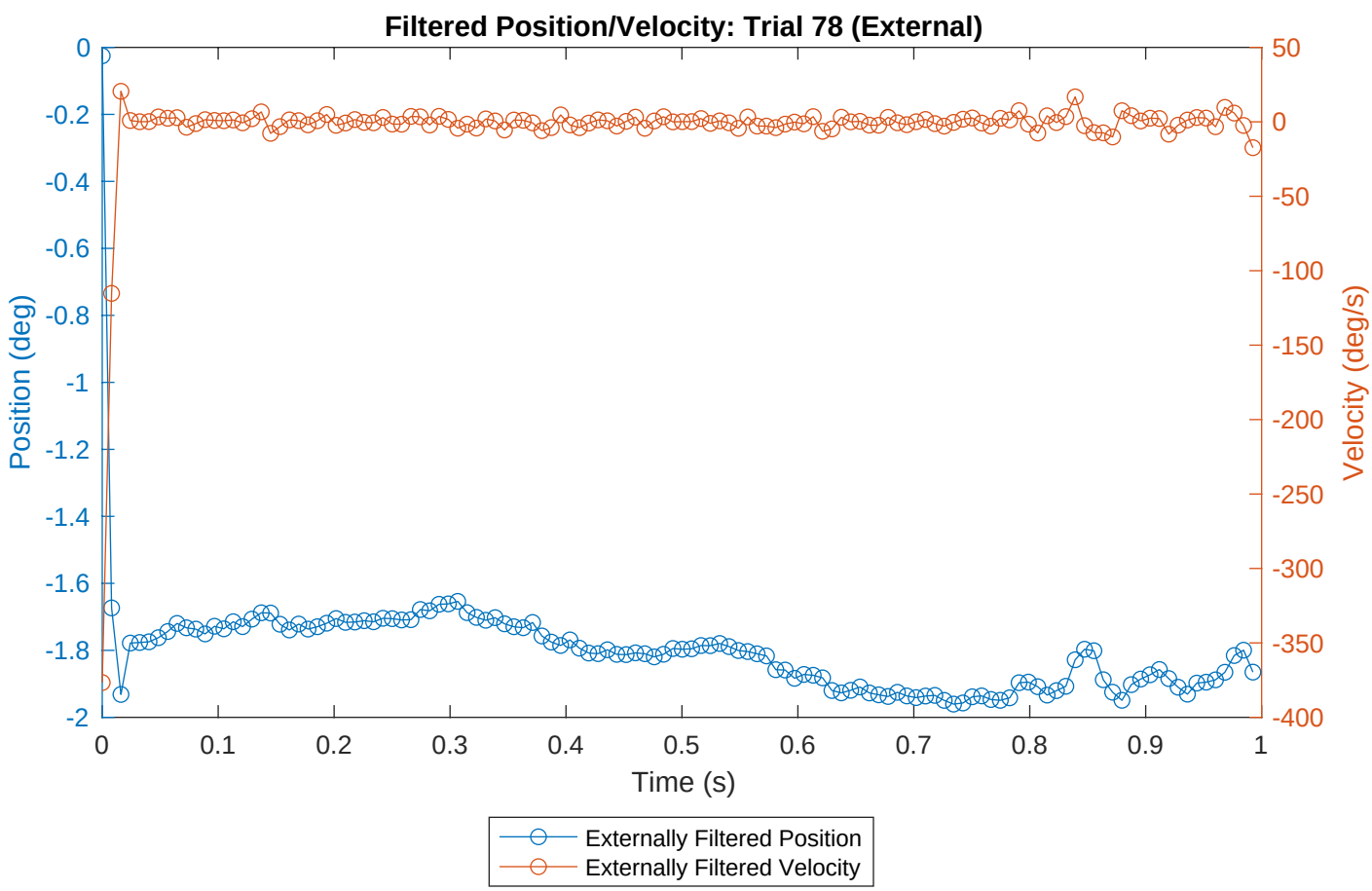

0
-0.5
-1
-1.5
-2
-2.5
Position (deg)
0
0.1
0.2
0.3
0.4
0.5
0.6
0.7
0.8
0.9
1
Time (s)

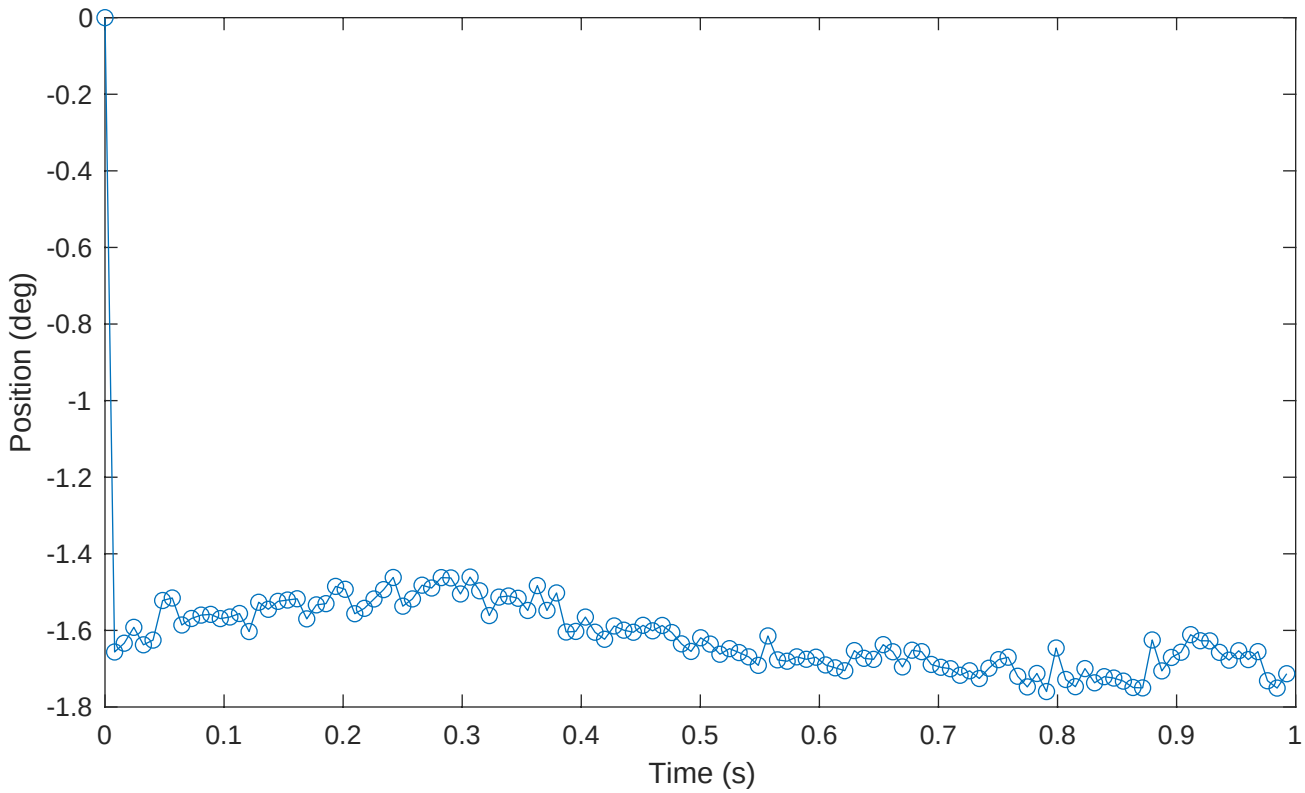

Filtered Position/Velocity: Trial 76 (External)
0
-0.5
-1
-1.5
-2
-2.5
Position (deg)
50
0
-50
-100
-150
-200
-250
-300
-350
-400
Velocity (deg/s)
0
0.1
0.2
0.3
0.4
0.5
0.6
0.7
0.8
0.9
1
Time (s)
Externally Filtered Position
Externally Filtered Velocity

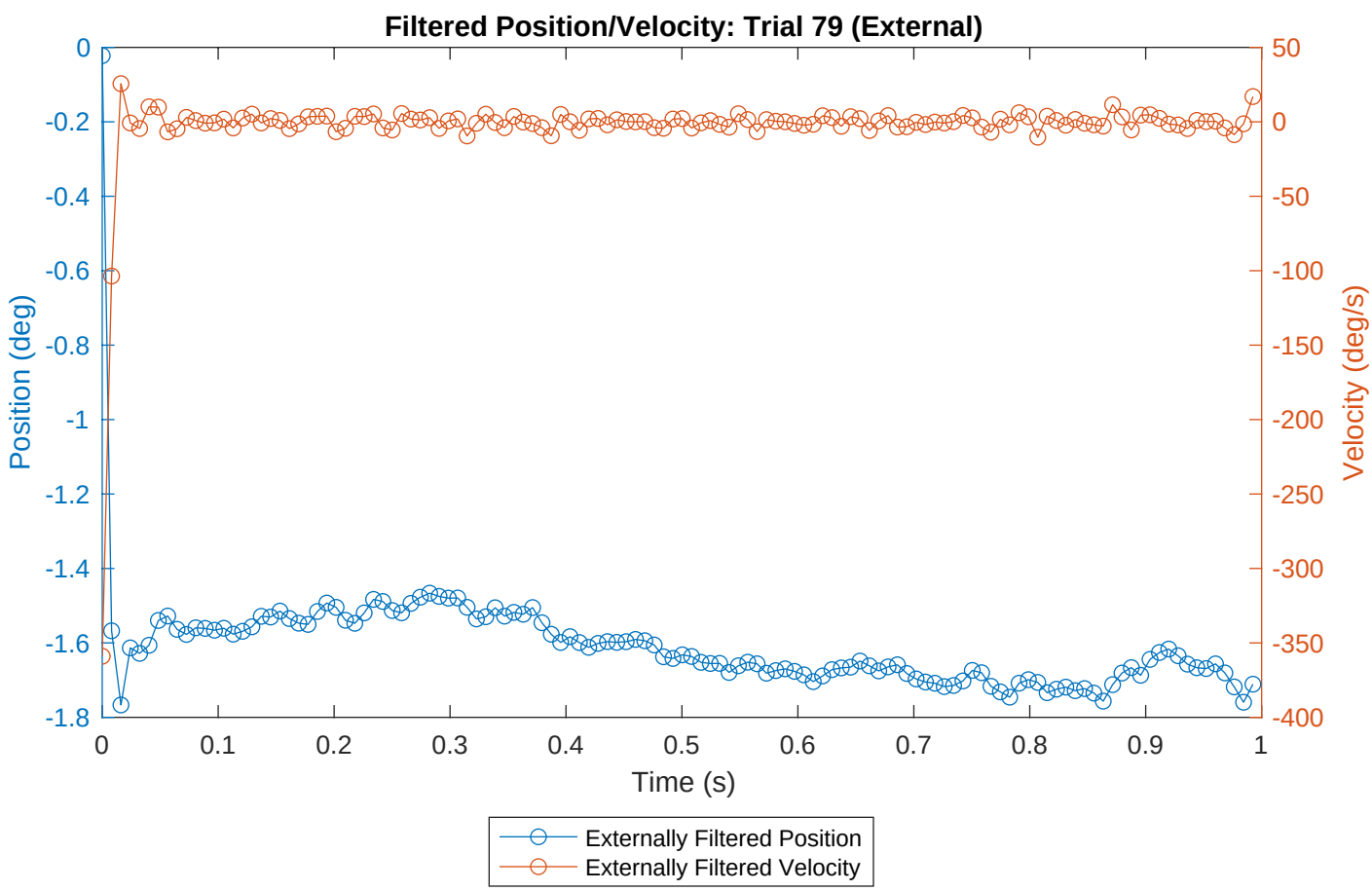

0
-0.5
-1
-1.5
-2
-2.5
Position (deg)
0
0.1
0.2
0.3
0.4
0.5
0.6
0.7
0.8
0.9
1
Time (s)

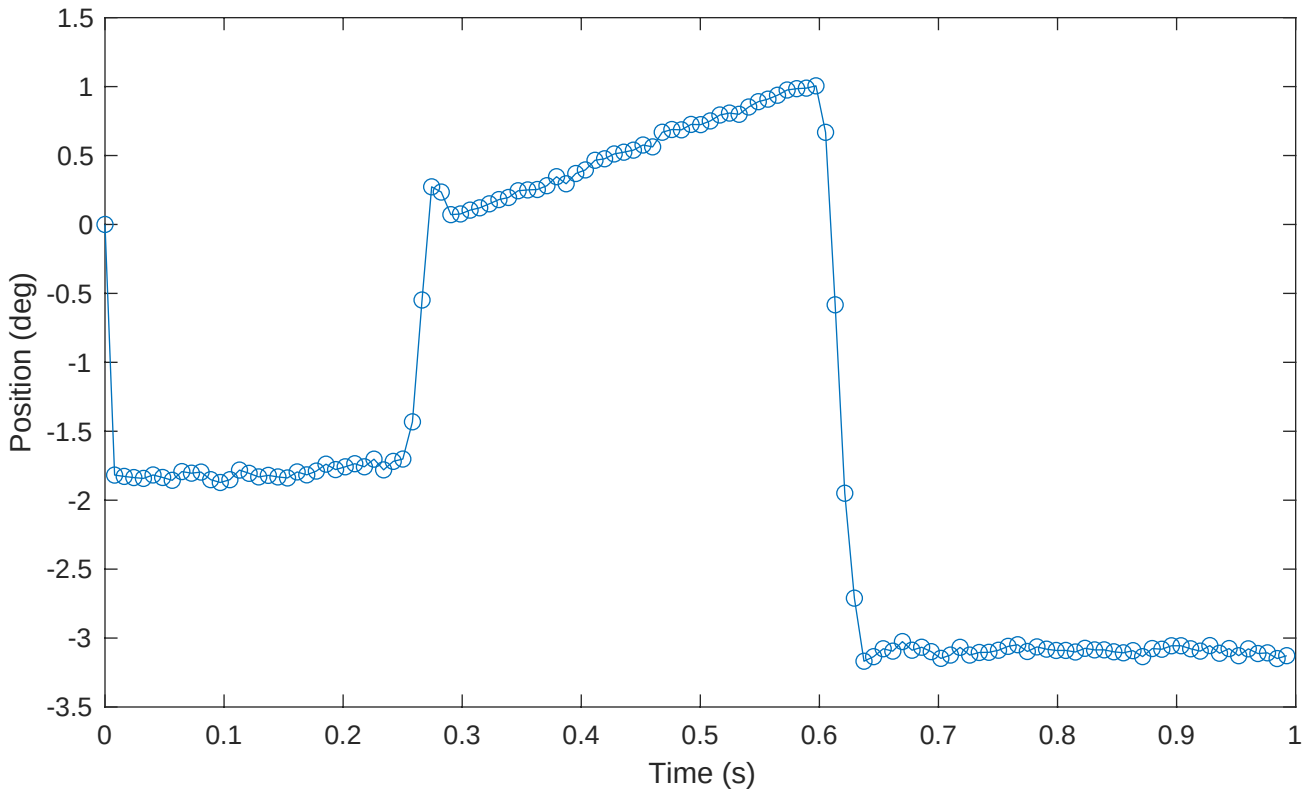

Filtered Position/Velocity: Trial 77 (External)
0
-0.5
-1
-1.5
-2
-2.5
Position (deg)
50
0
-50
-100
-150
-200
-250
-300
-350
-400
-450
Velocity (deg/s)
0
0.1
0.2
0.3
0.4
0.5
0.6
0.7
0.8
0.9
1
Time (s)
Externally Filtered Position
Externally Filtered Velocity

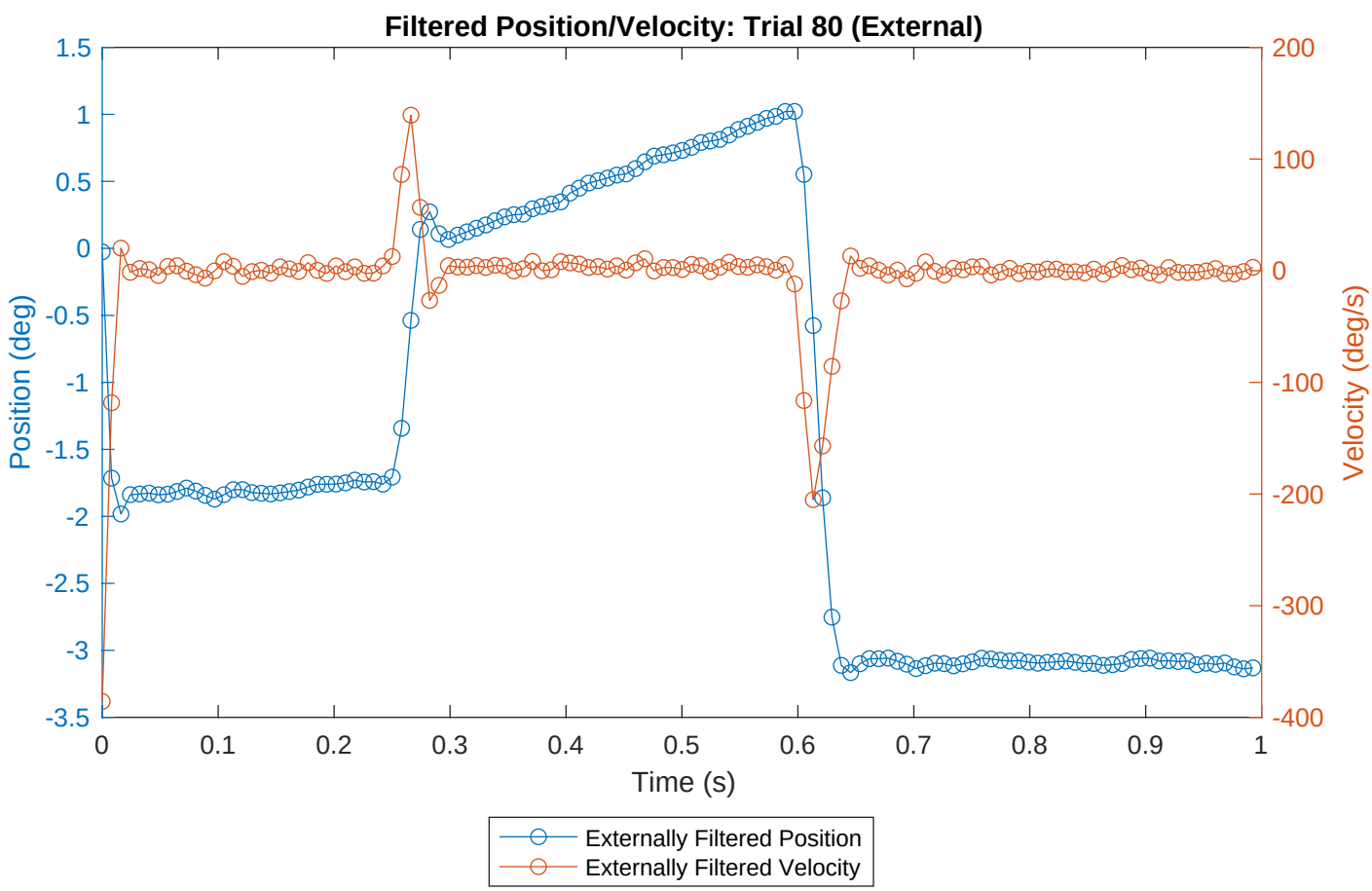

Position (deg)
Time (s)

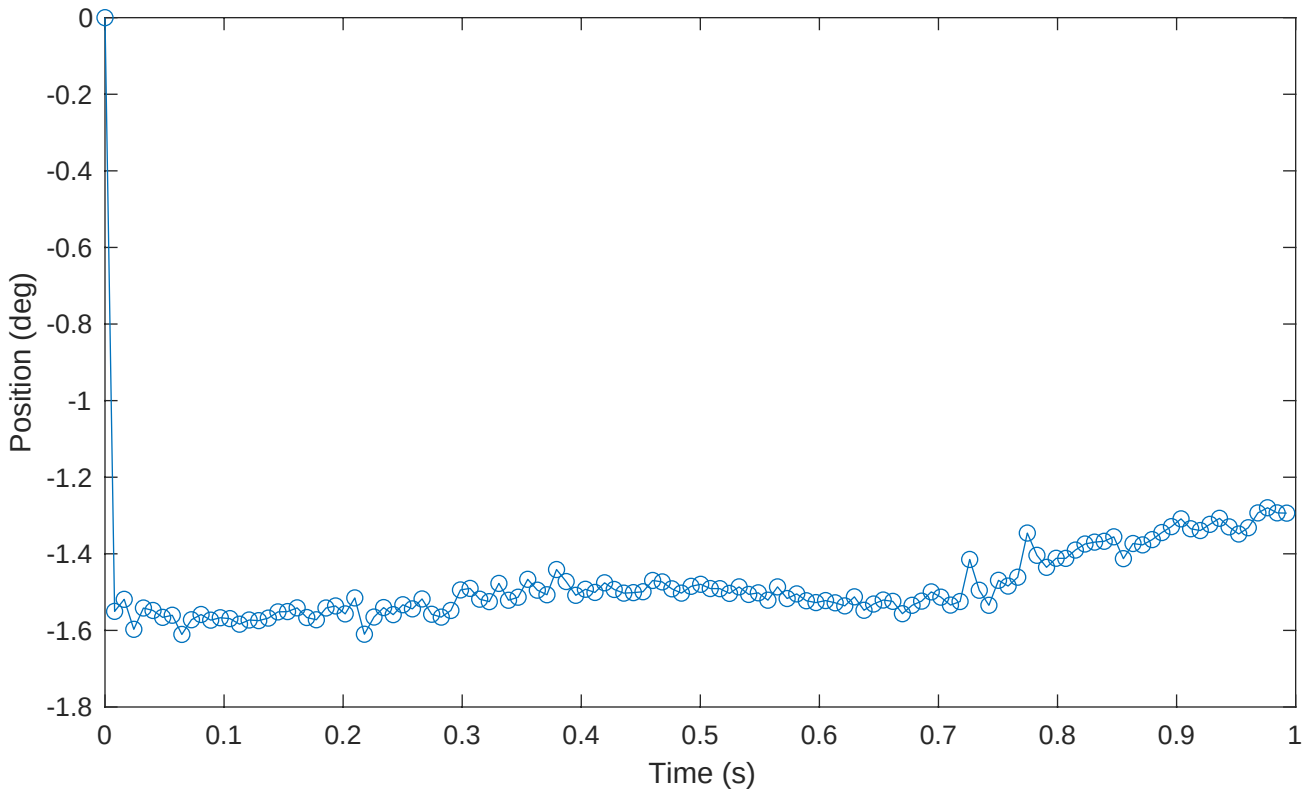

Filtered Position/Velocity: Trial 78 (External)
Position (deg)
Velocity (deg/s)
Time (s)
Externally Filtered Position
Externally Filtered Velocity

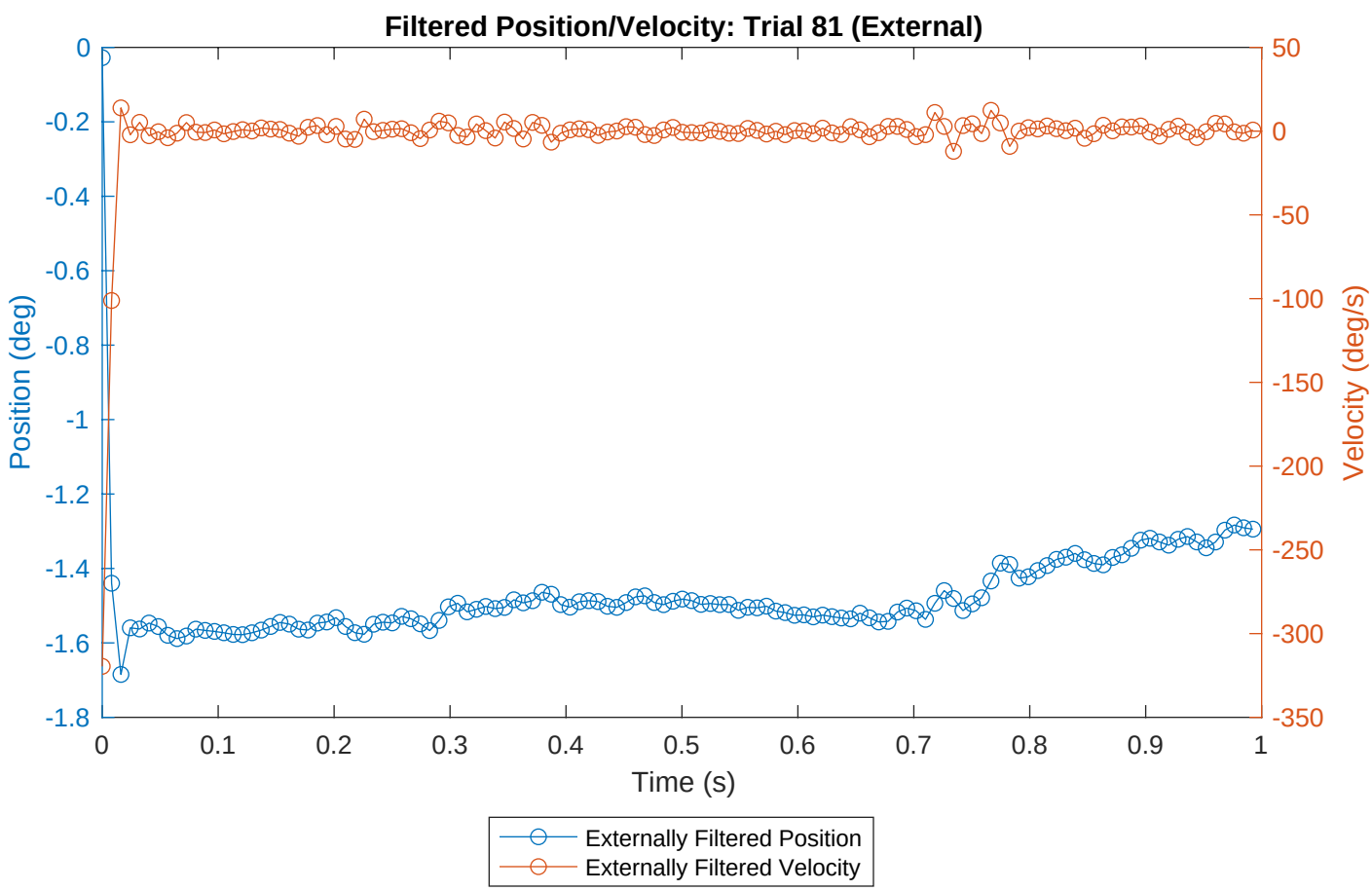

Position (deg)
Time (s)

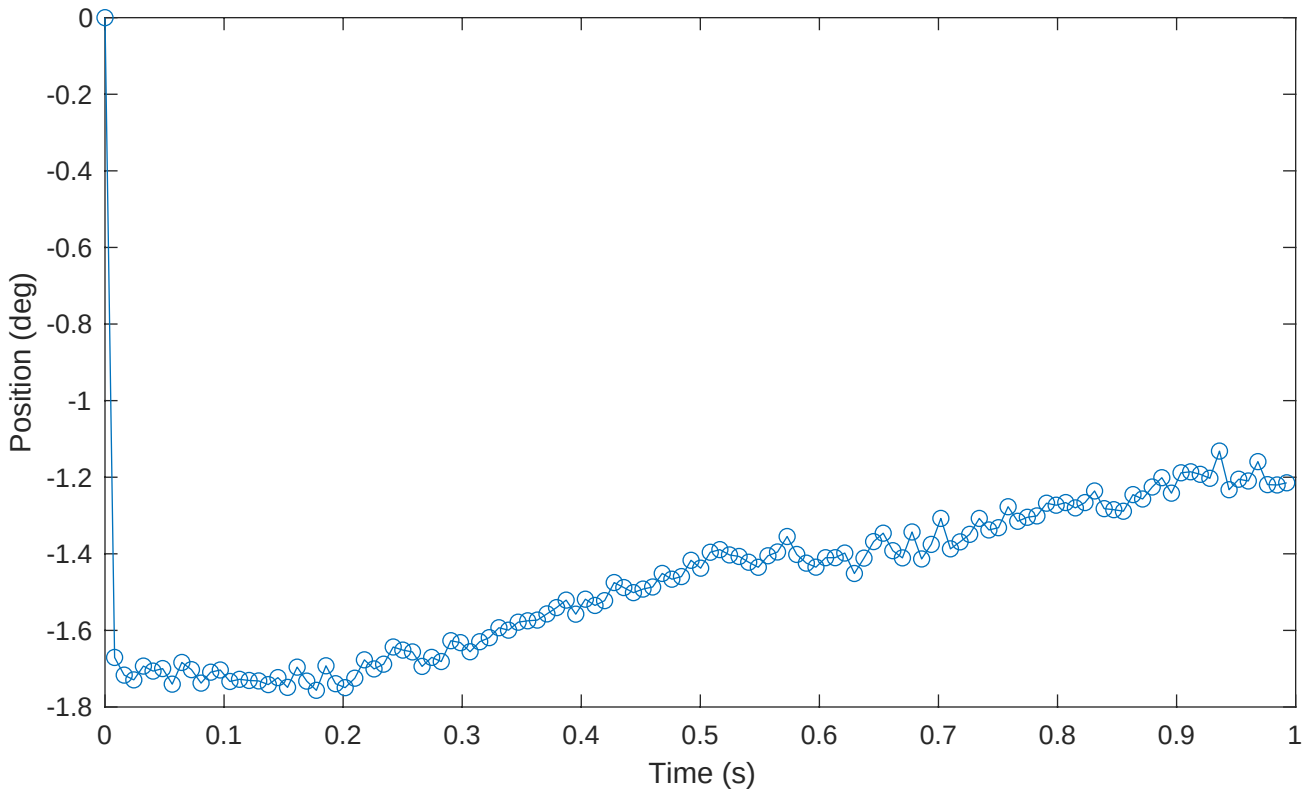

Filtered Position/Velocity: Trial 79 (External)
Position (deg)
Velocity (deg/s)
Time (s)
Externally Filtered Position
Externally Filtered Velocity

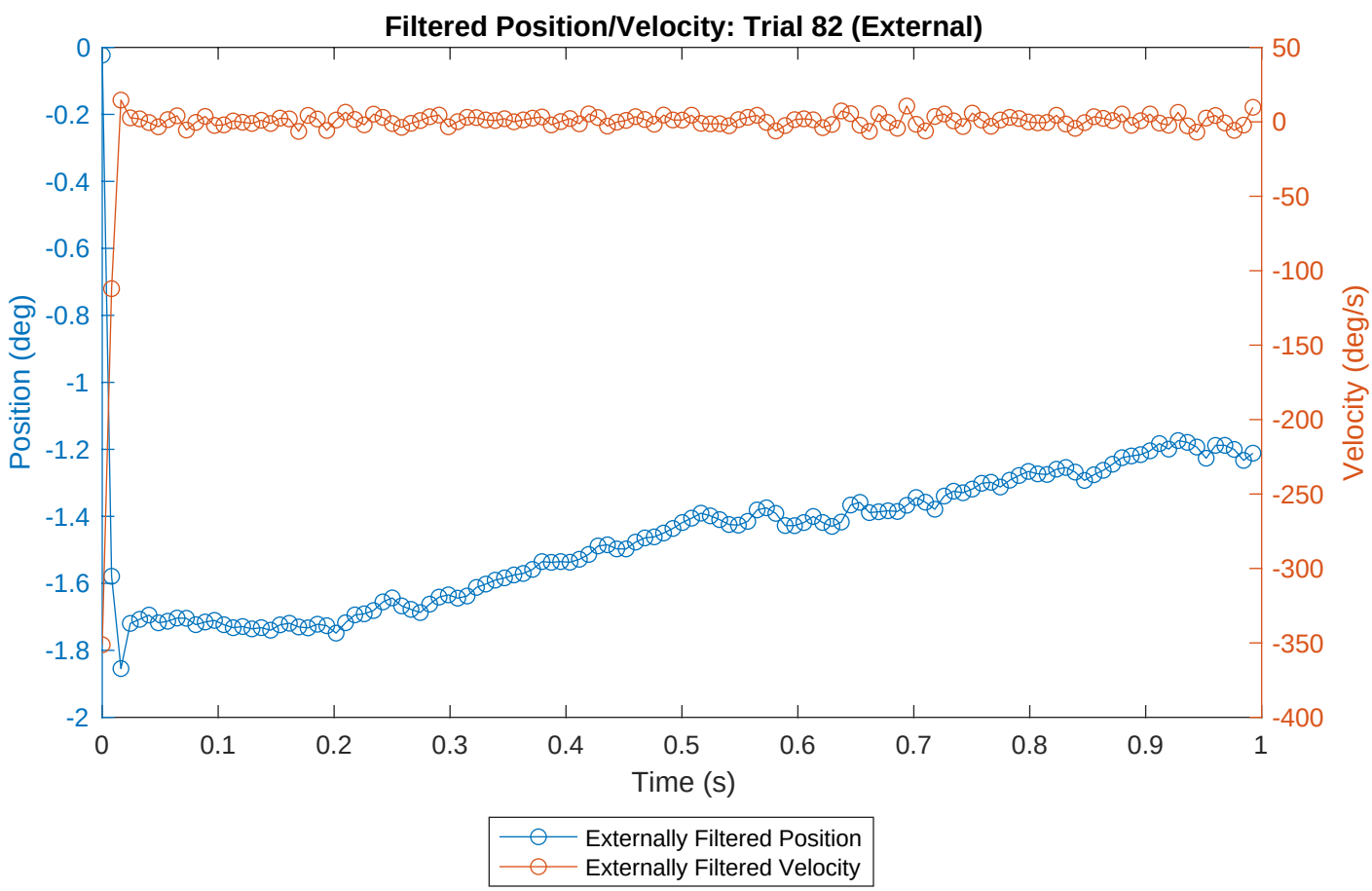

Position (deg)
Time (s)

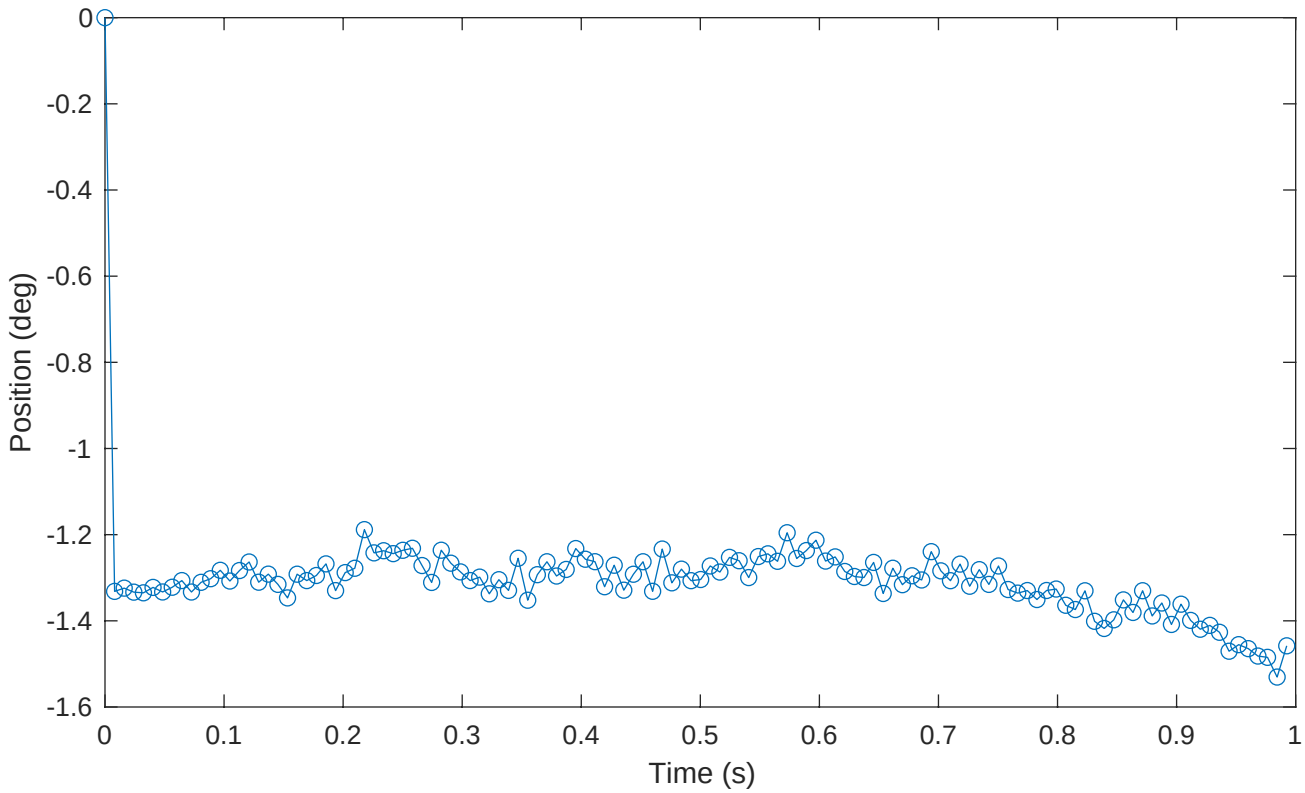

Filtered Position/Velocity: Trial 80 (External)
Position (deg)
Velocity (deg/s)
Time (s)
Externally Filtered Position
Externally Filtered Velocity

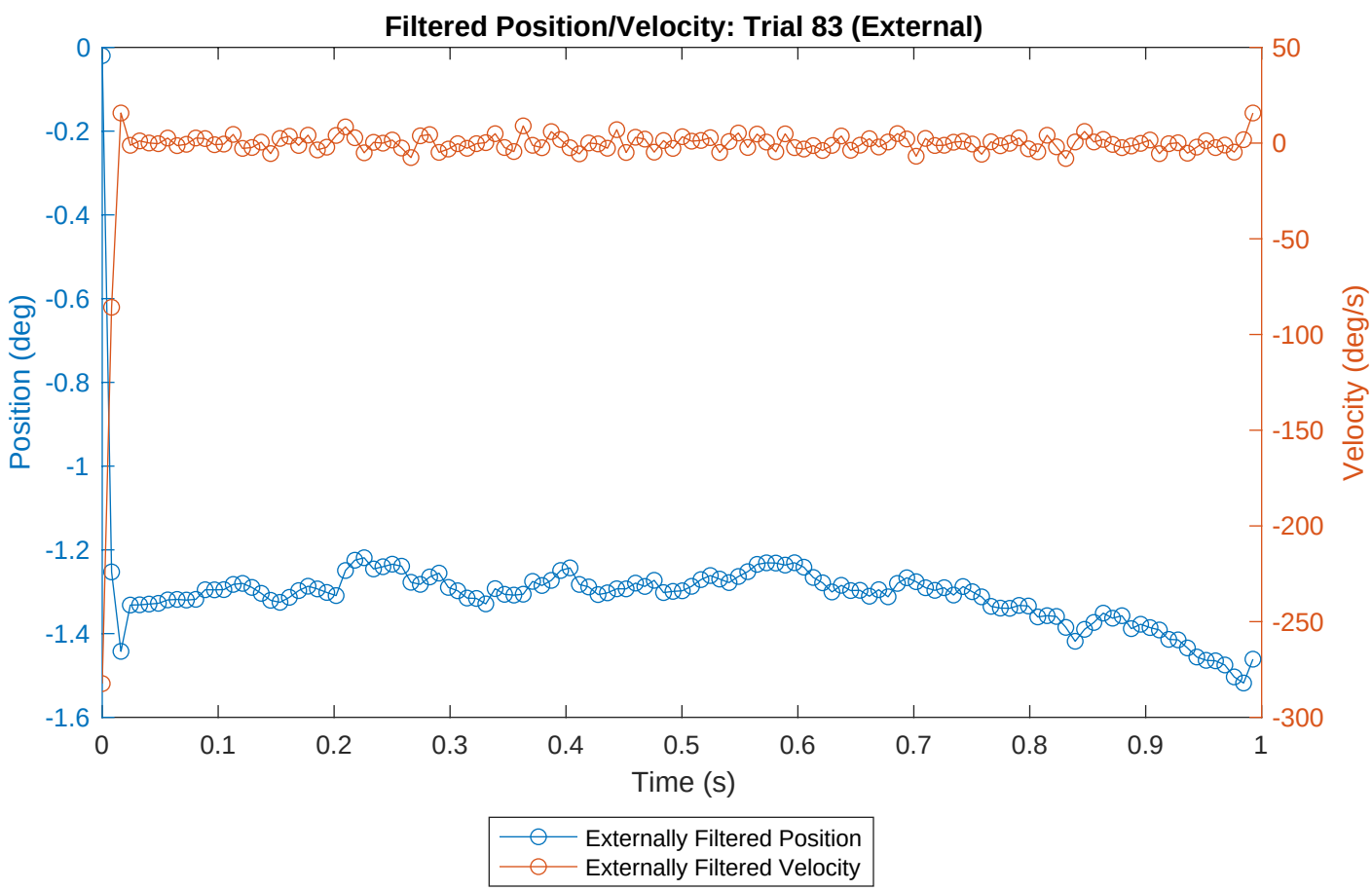

Position (deg)
Time (s)

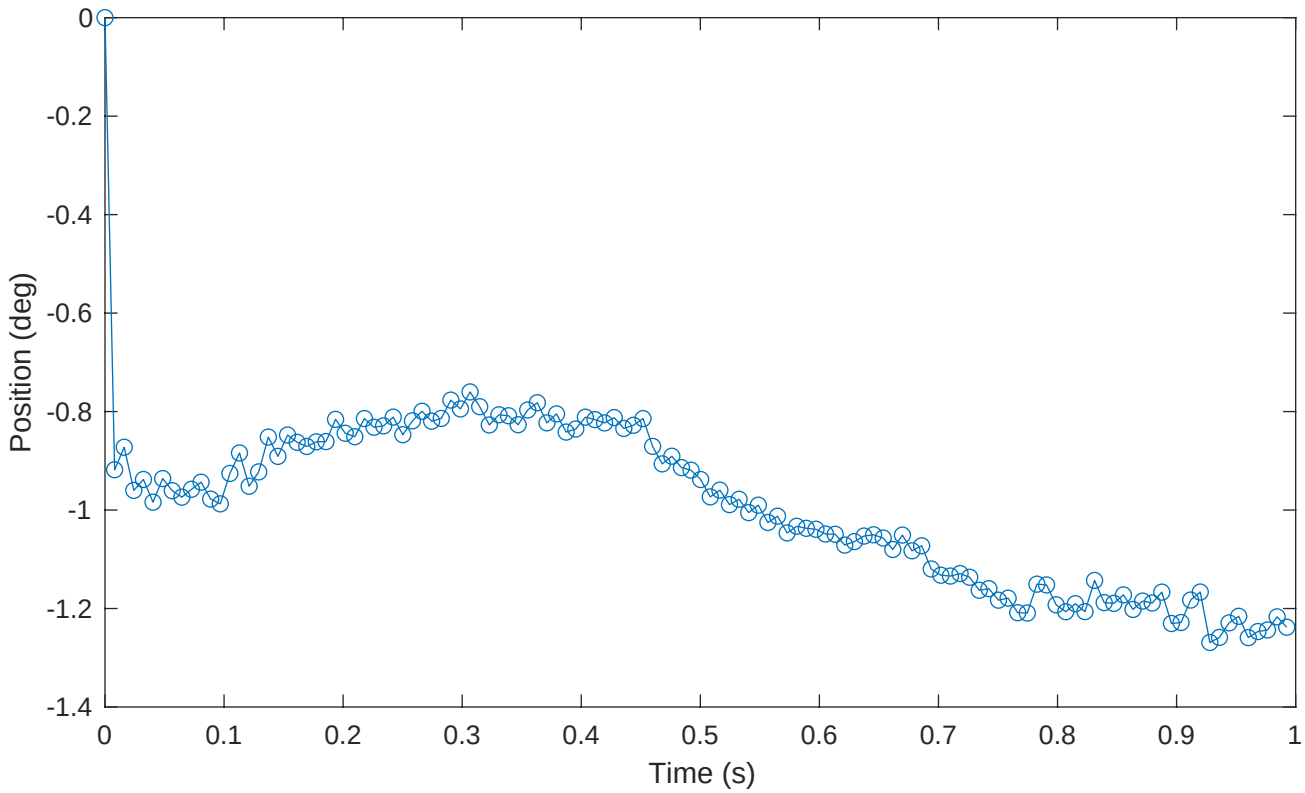

Filtered Position/Velocity: Trial 81 (External)
Position (deg)
Velocity (deg/s)
Time (s)
Externally Filtered Position
Externally Filtered Velocity

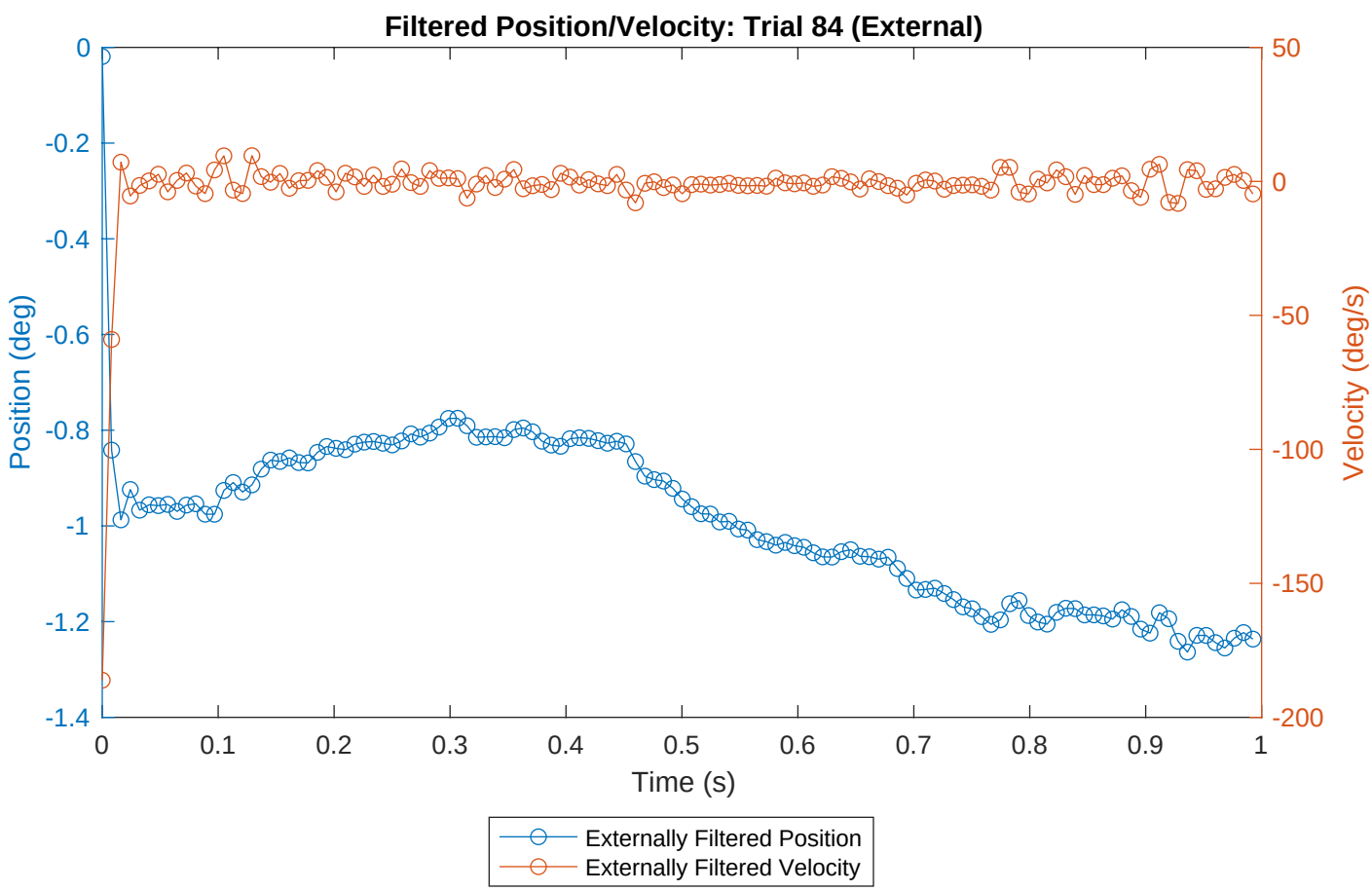

Position (deg)
Time (s)
0
-0.2
-0.4
-0.6
-0.8
-1
-1.2
-1.4
-1.6
-1.8
0
0.1
0.2
0.3
0.4
0.5
0.6
0.7
0.8
0.9
1

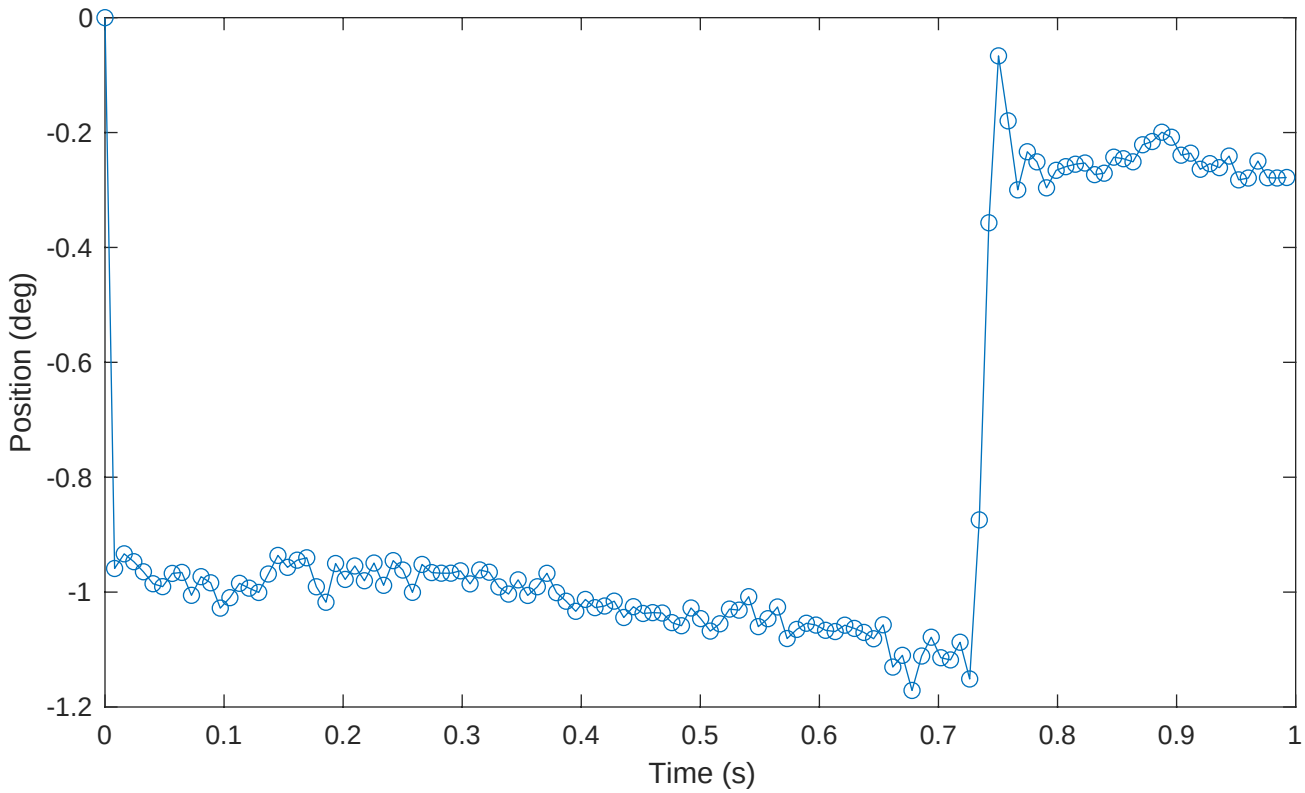

Filtered Position/Velocity: Trial 82 (External)
Position (deg)
Velocity (deg/s)
Time (s)
0
-0.2
-0.4
-0.6
-0.8
-1
-1.2
-1.4
-1.6
-1.8
-2
50
0
-50
-100
-150
-200
-250
-300
-350
-400
0
0.1
0.2
0.3
0.4
0.5
0.6
0.7
0.8
0.9
1
Externally Filtered Position
Externally Filtered Velocity

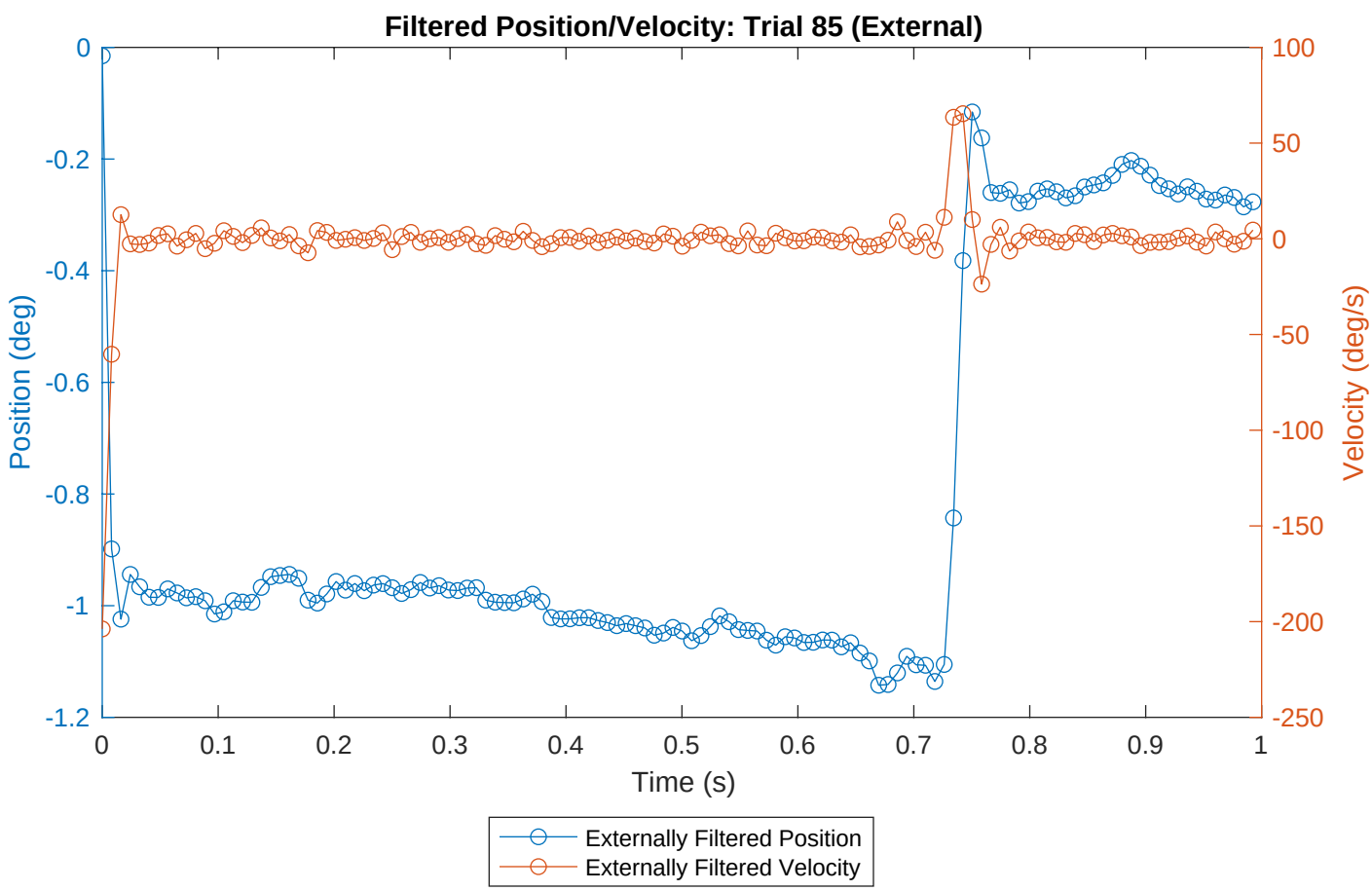

Position (deg)
Time (s)
0
-0.2
-0.4
-0.6
-0.8
-1
-1.2
-1.4
-1.6
0
0.1
0.2
0.3
0.4
0.5
0.6
0.7
0.8
0.9
1

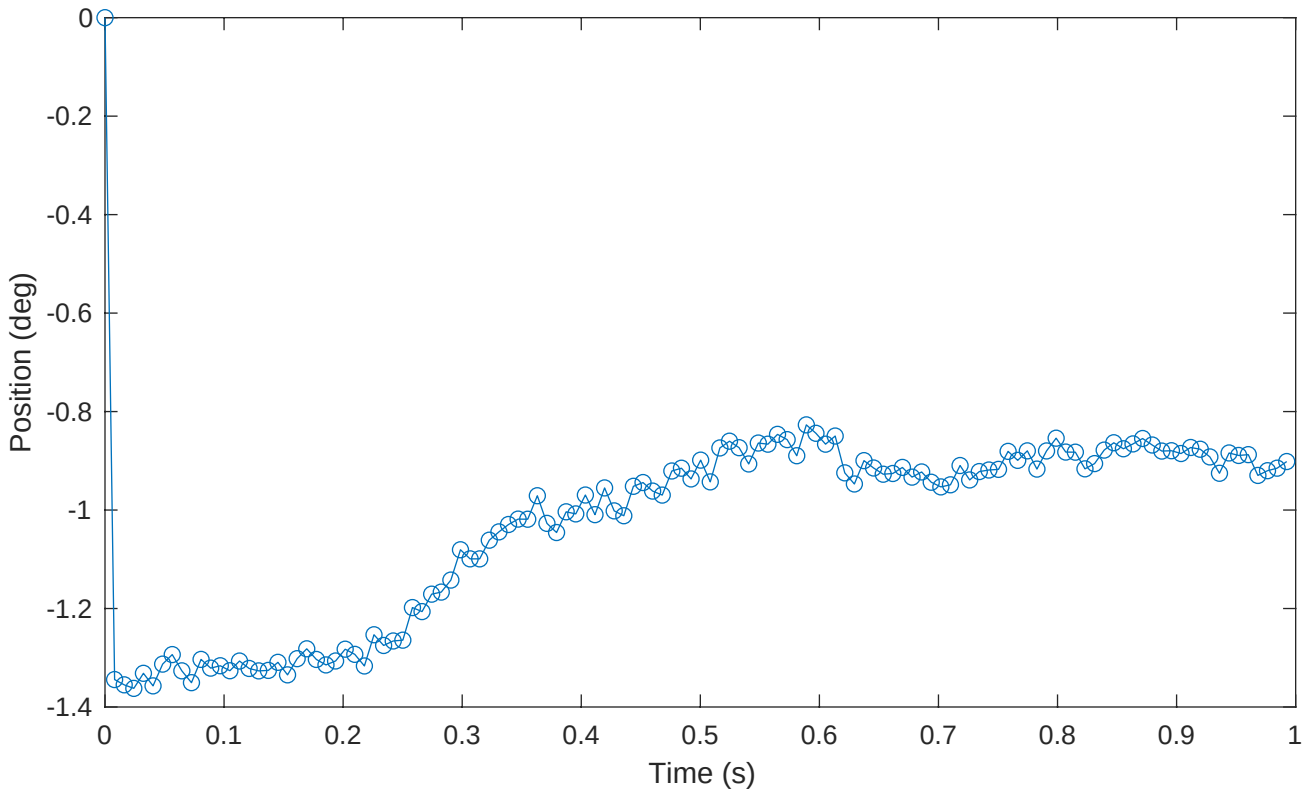

Filtered Position/Velocity: Trial 83 (External)
Position (deg)
Velocity (deg/s)
Time (s)
0
-0.2
-0.4
-0.6
-0.8
-1
-1.2
-1.4
-1.6
50
0
-50
-100
-150
-200
-250
-300
0
0.1
0.2
0.3
0.4
0.5
0.6
0.7
0.8
0.9
1
Externally Filtered Position
Externally Filtered Velocity

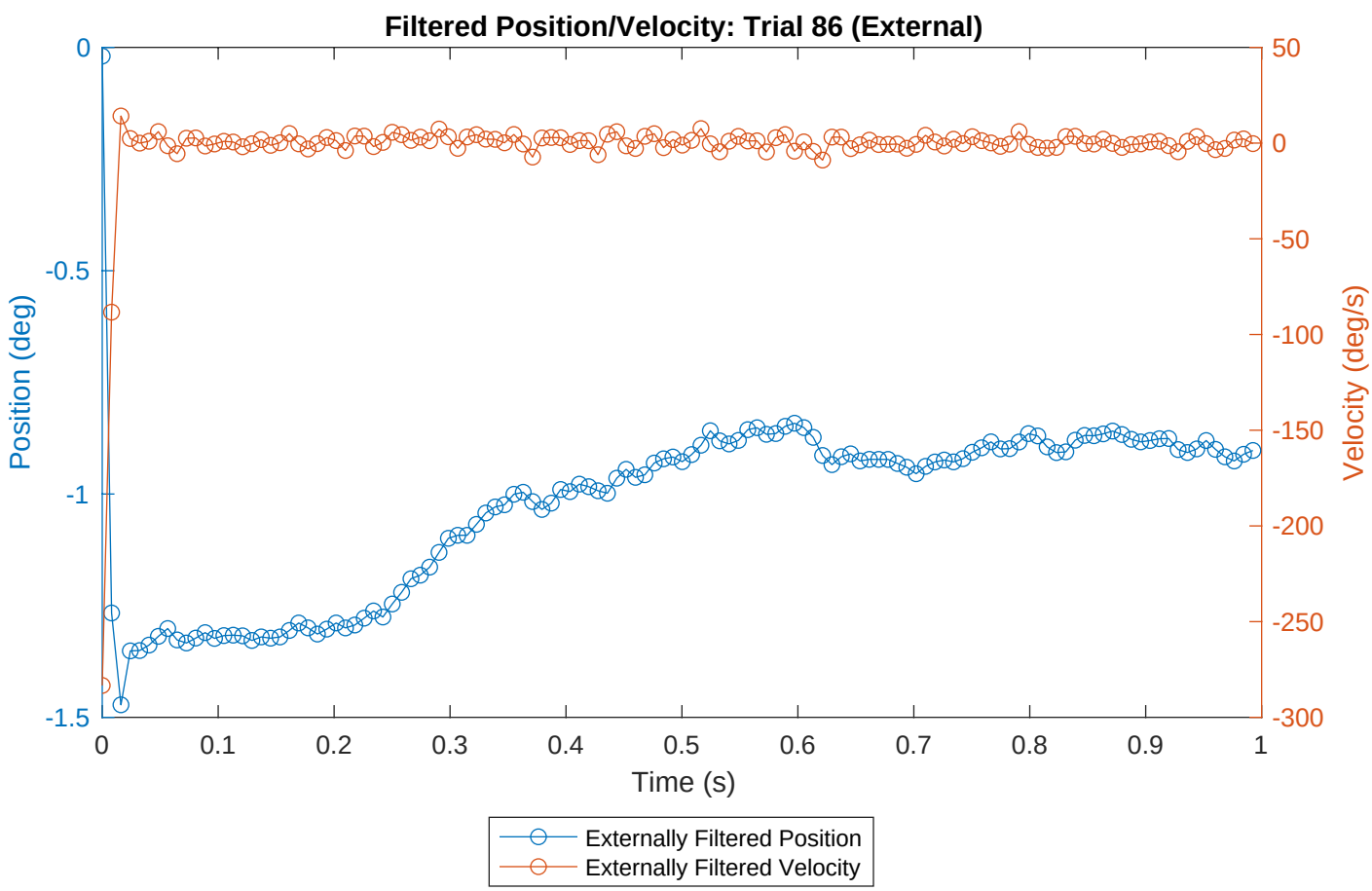

Position (deg)
Time (s)
0
-0.2
-0.4
-0.6
-0.8
-1
-1.2
-1.4
0
0.1
0.2
0.3
0.4
0.5
0.6
0.7
0.8
0.9
1

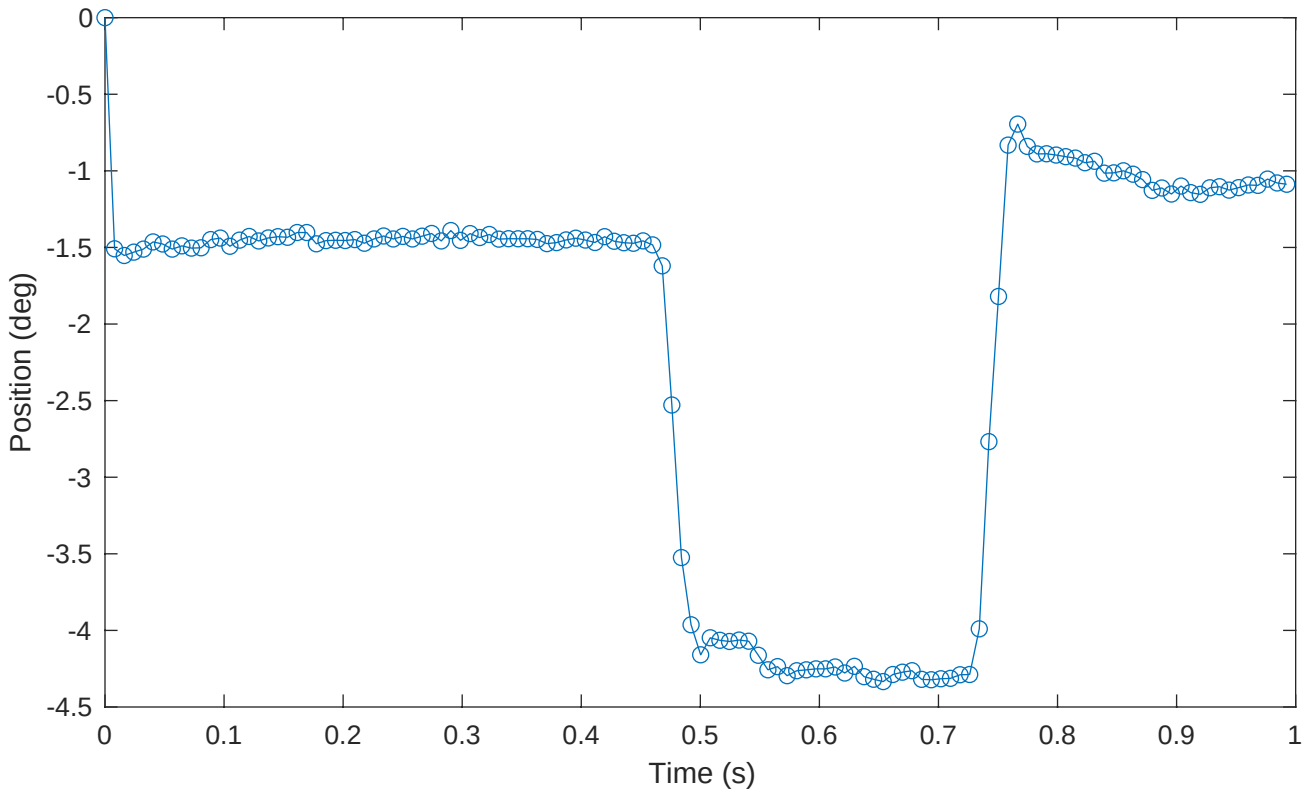

Filtered Position/Velocity: Trial 84 (External)
Position (deg)
Velocity (deg/s)
Time (s)
0
-0.2
-0.4
-0.6
-0.8
-1
-1.2
-1.4
50
0
-50
-100
-150
-200
0
0.1
0.2
0.3
0.4
0.5
0.6
0.7
0.8
0.9
1
Externally Filtered Position
Externally Filtered Velocity

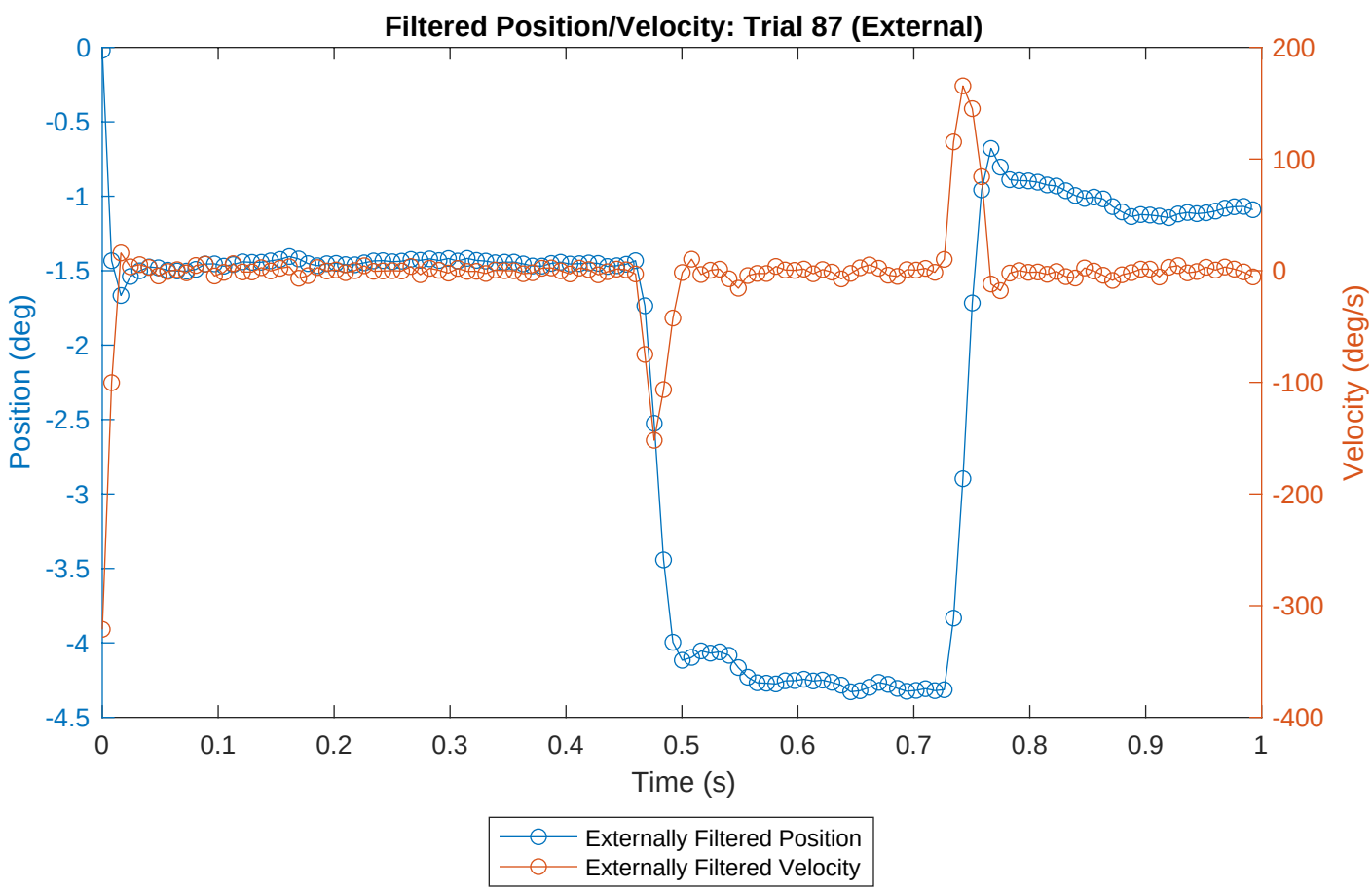

0
-0.2
-0.4
-0.6
-0.8
-1
-1.2
Position (deg)
0
0.1
0.2
0.3
0.4
0.5
0.6
0.7
0.8
0.9
1
Time (s)

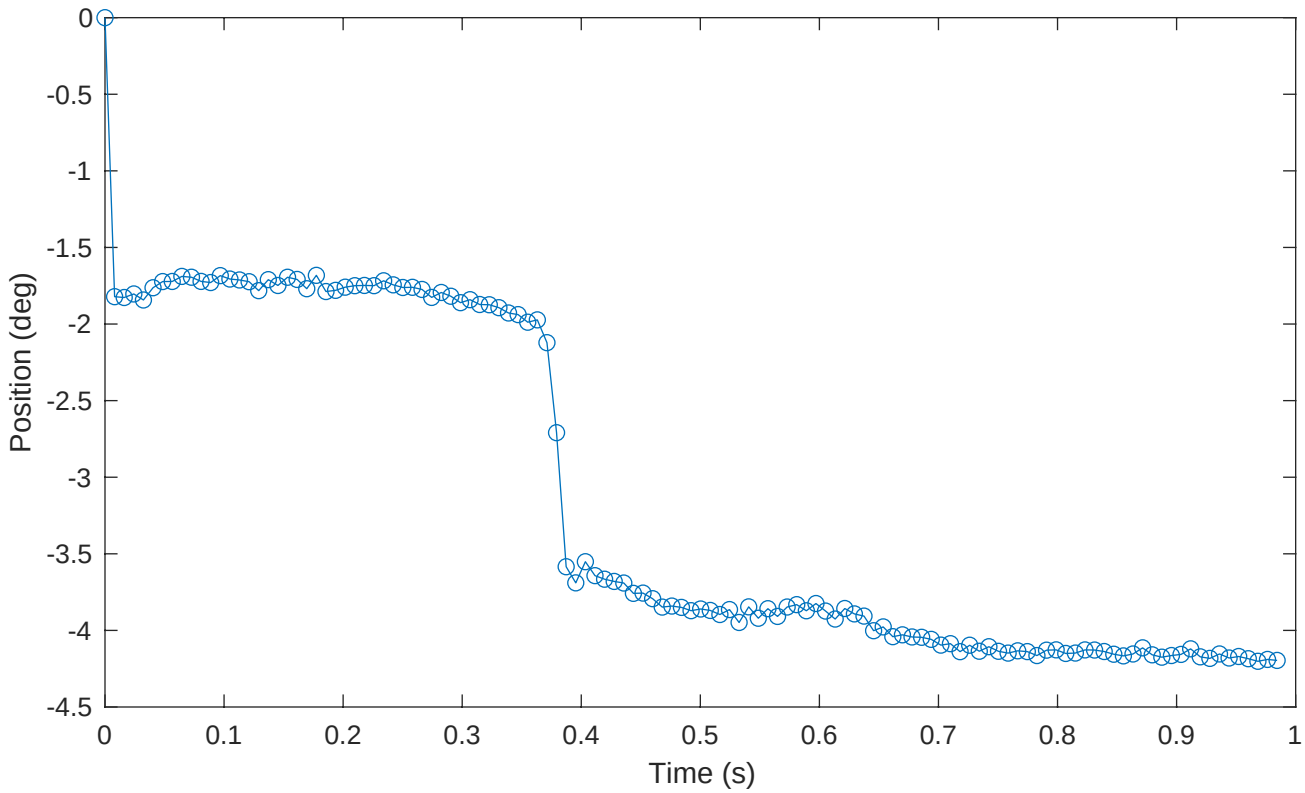

Filtered Position/Velocity: Trial 85 (External)
0
-0.2
-0.4
-0.6
-0.8
-1
-1.2
Position (deg)
100
50
0
-50
-100
-150
-200
-250
Velocity (deg/s)
0
0.1
0.2
0.3
0.4
0.5
0.6
0.7
0.8
0.9
1
Time (s)
Externally Filtered Position
Externally Filtered Velocity

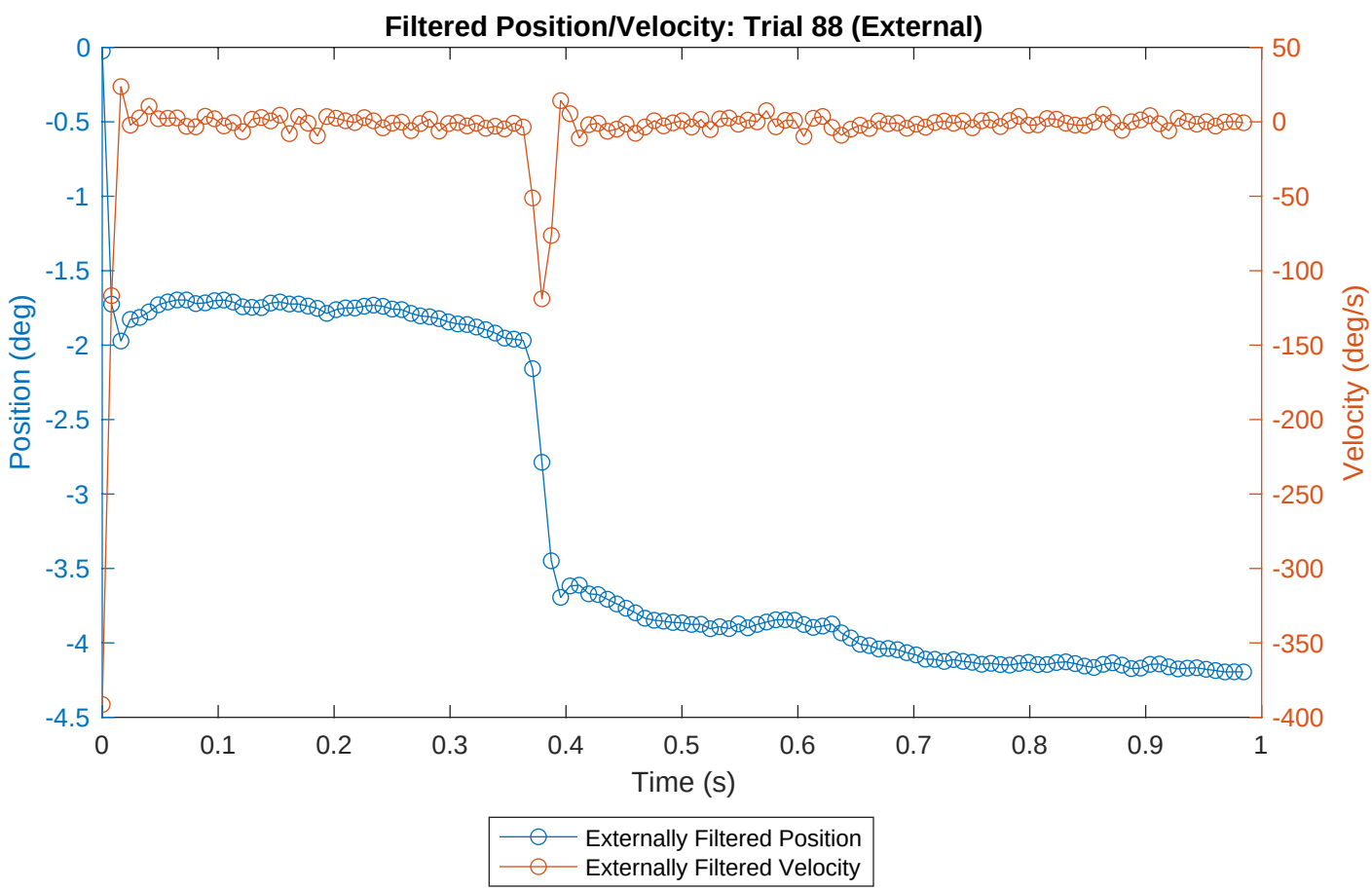

0
-0.2
-0.4
-0.6
-0.8
-1
-1.2
-1.4
Position (deg)
0
0.1
0.2
0.3
0.4
0.5
0.6
0.7
0.8
0.9
1
Time (s)

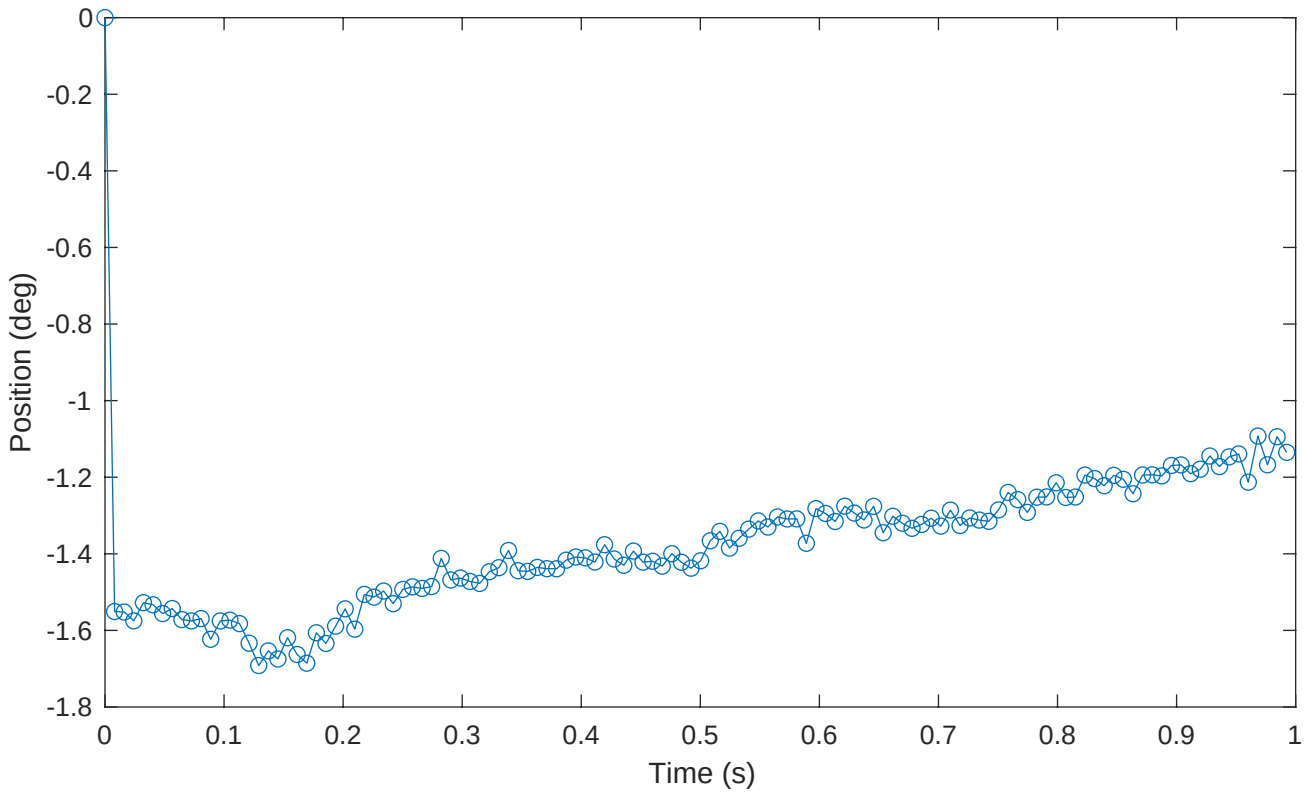

Filtered Position/Velocity: Trial 86 (External)
0
-0.5
-1
-1.5
Position (deg)
50
0
-50
-100
-150
-200
-250
-300
Velocity (deg/s)
0
0.1
0.2
0.3
0.4
0.5
0.6
0.7
0.8
0.9
1
Time (s)
Externally Filtered Position
Externally Filtered Velocity

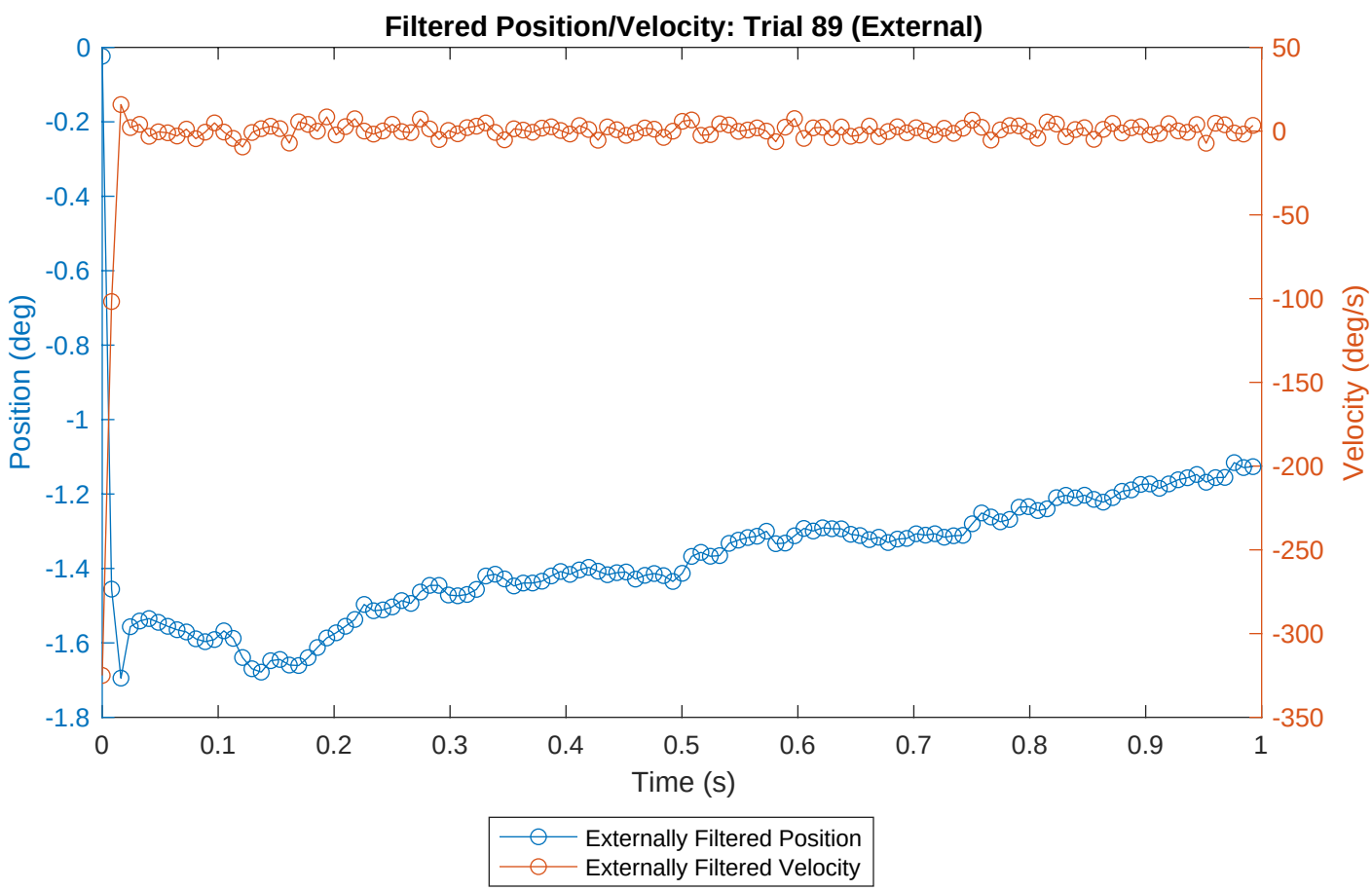

Position (deg)
Time (s)
0
-0.5
-1
-1.5
-2
-2.5
-3
-3.5
-4
-4.5
0
0.1
0.2
0.3
0.4
0.5
0.6
0.7
0.8
0.9
1

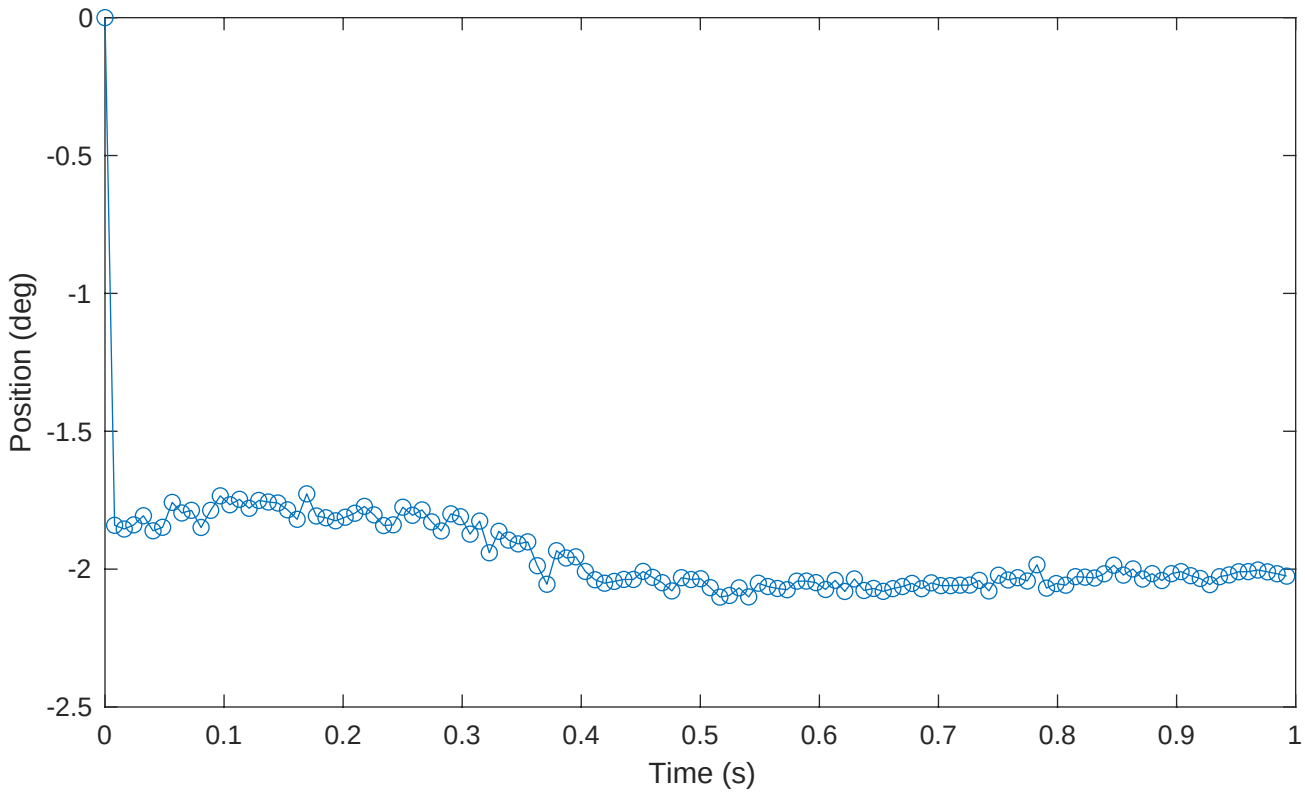

Filtered Position/Velocity: Trial 87 (External)
Position (deg)
Velocity (deg/s)
Time (s)
0
-0.5
-1
-1.5
-2
-2.5
-3
-3.5
-4
-4.5
200
100
0
-100
-200
-300
-400
0
0.1
0.2
0.3
0.4
0.5
0.6
0.7
0.8
0.9
1
Externally Filtered Position
Externally Filtered Velocity

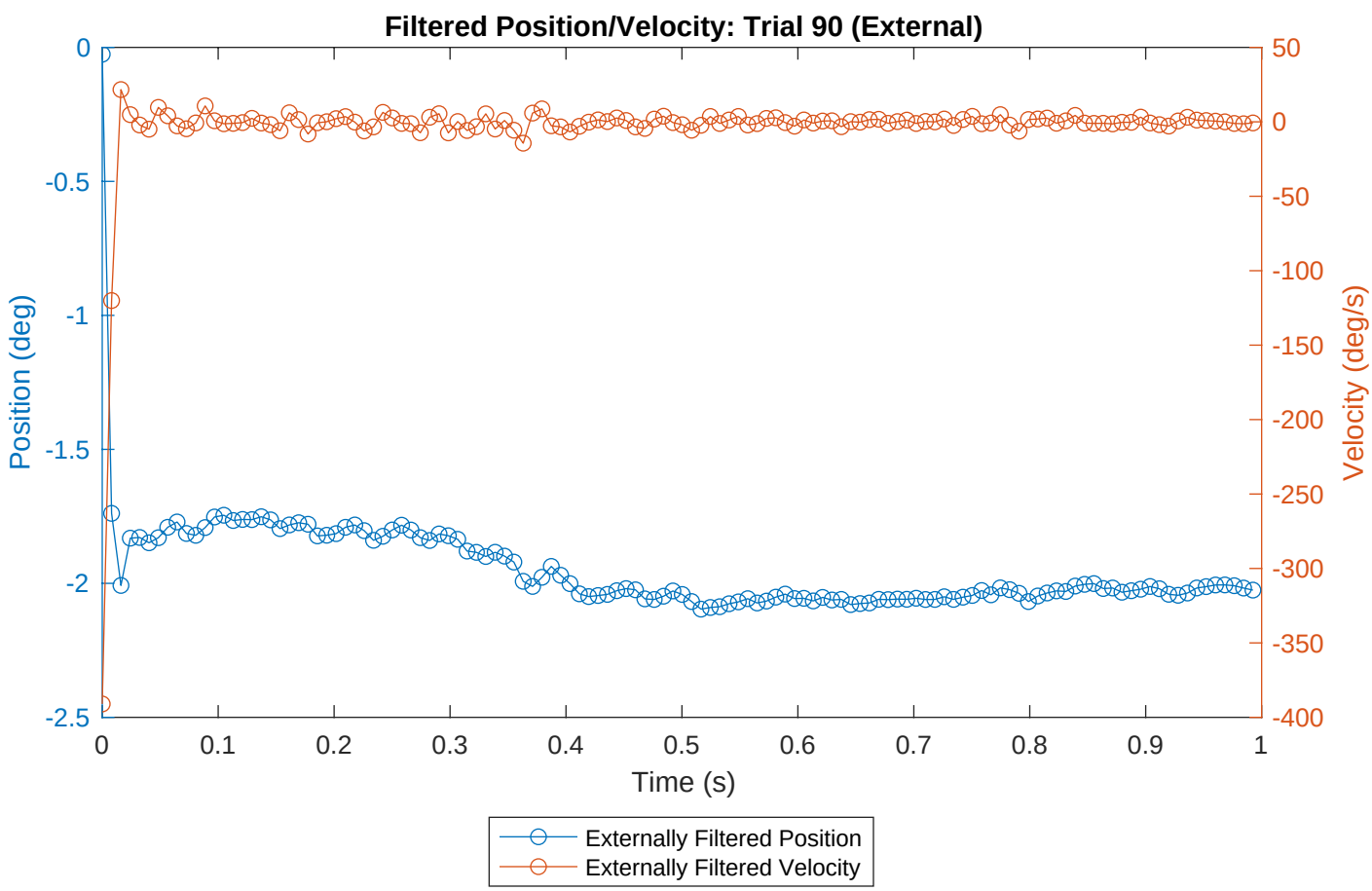

Position (deg)
Time (s)

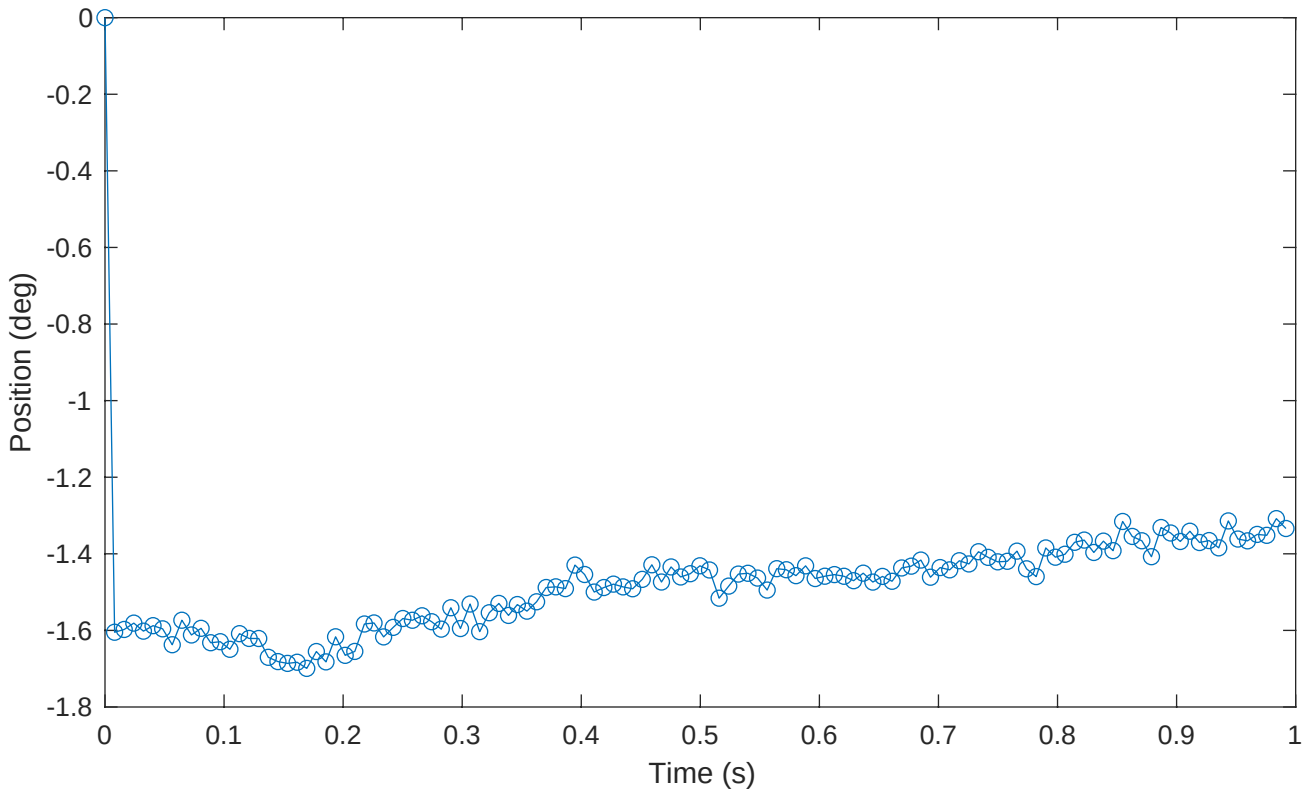

Filtered Position/Velocity: Trial 88 (External)
Position (deg)
Velocity (deg/s)
Time (s)
Externally Filtered Position
Externally Filtered Velocity

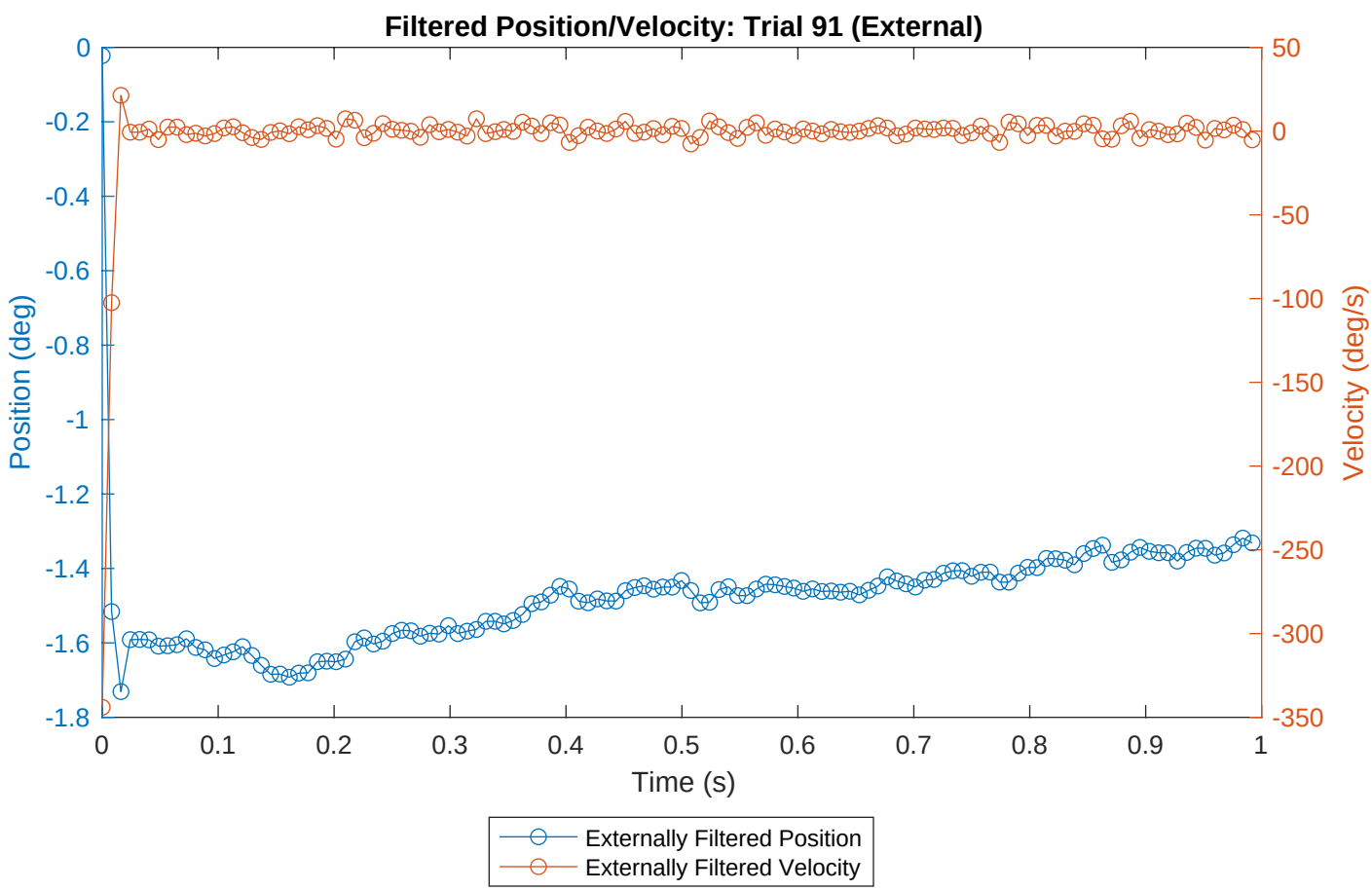

Position (deg)
Time (s)

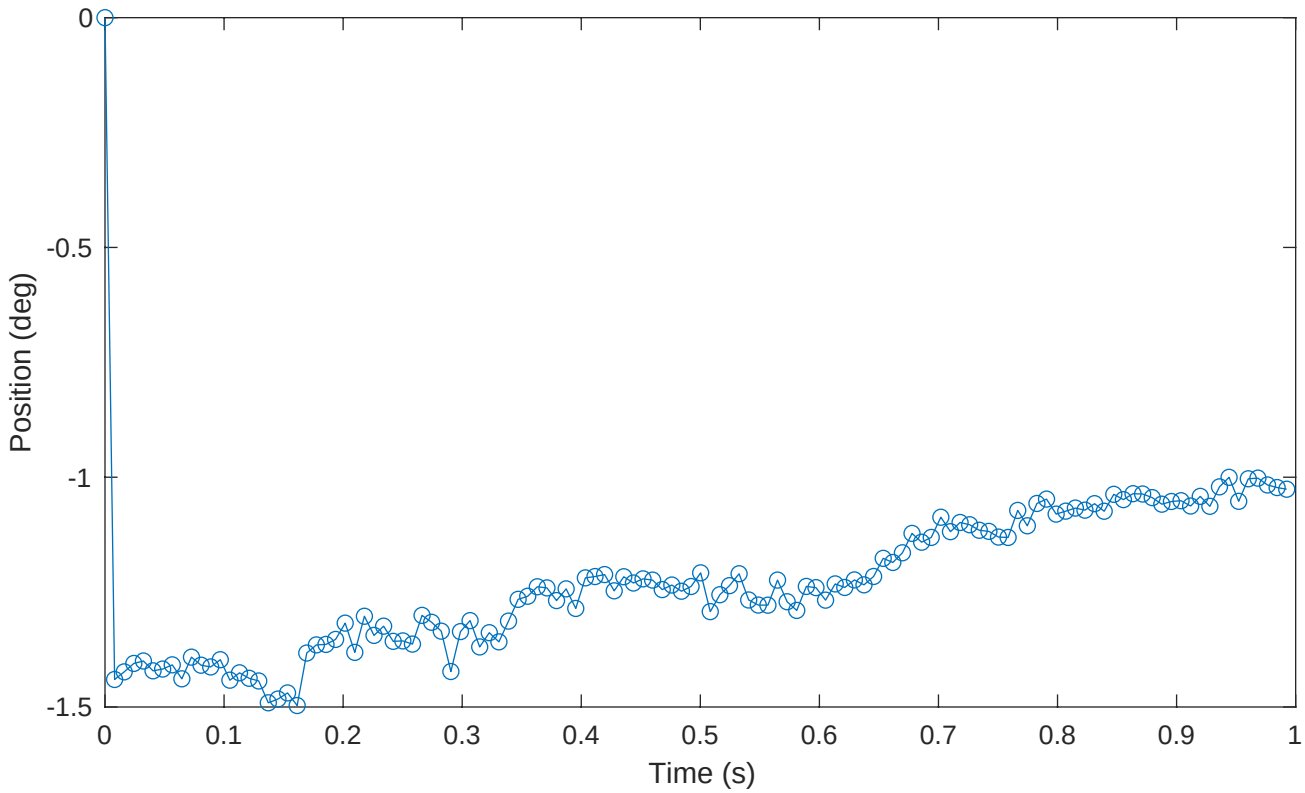

Filtered Position/Velocity: Trial 89 (External)
Position (deg)
Velocity (deg/s)
Time (s)
Externally Filtered Position
Externally Filtered Velocity

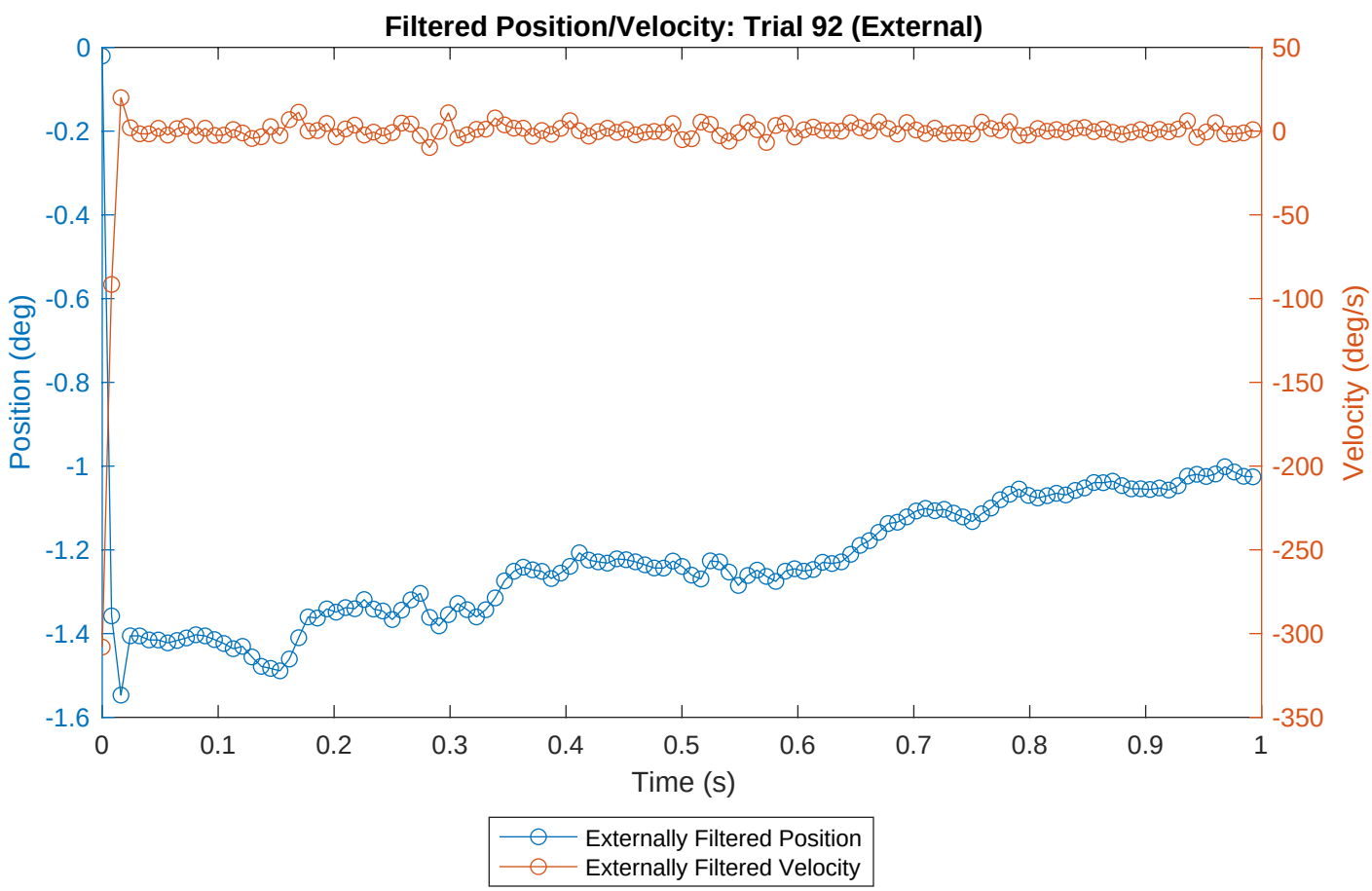

0
-0.5
-1
-1.5
-2
-2.5
Position (deg)
0
0.1
0.2
0.3
0.4
0.5
0.6
0.7
0.8
0.9
1
Time (s)

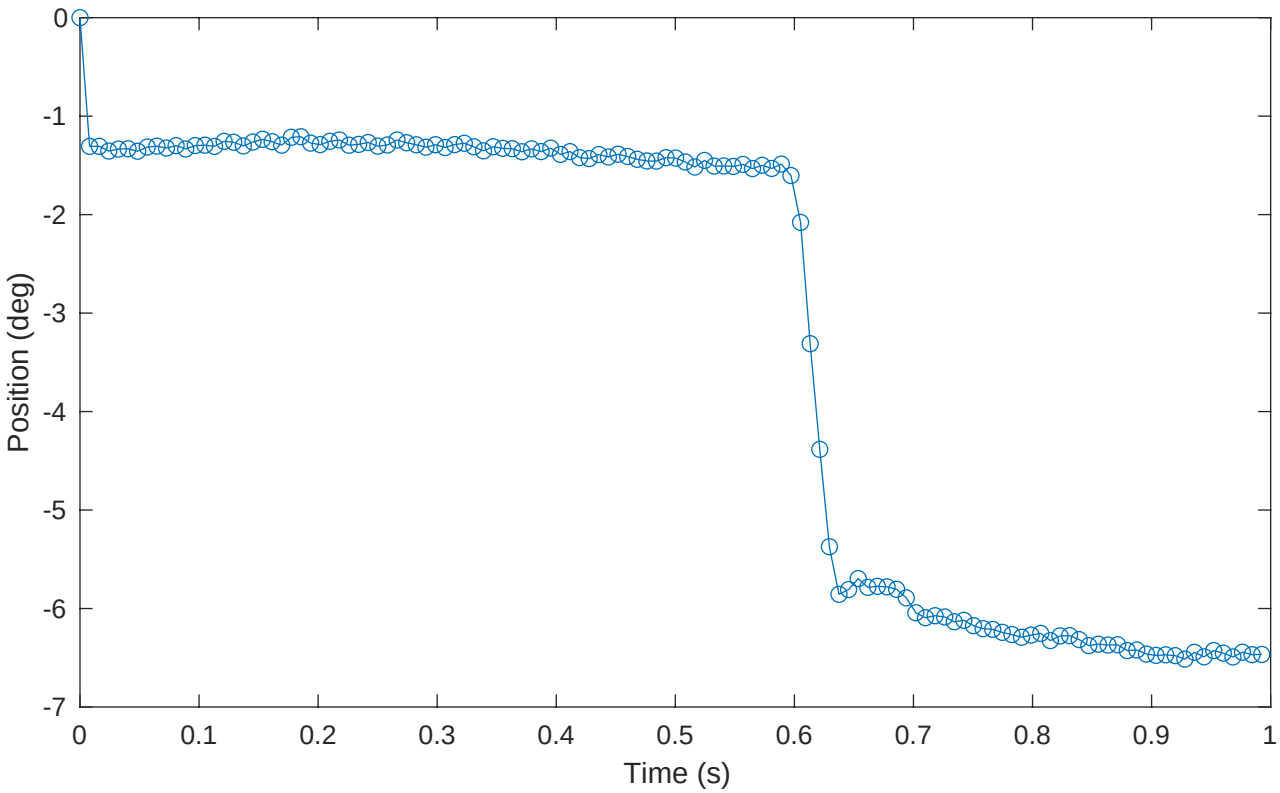

Filtered Position/Velocity: Trial 90 (External)
0
-0.5
-1
-1.5
-2
-2.5
Position (deg)
50
0
-50
-100
-150
-200
-250
-300
-350
-400
Velocity (deg/s)
0
0.1
0.2
0.3
0.4
0.5
0.6
0.7
0.8
0.9
1
Time (s)
Externally Filtered Position
Externally Filtered Velocity

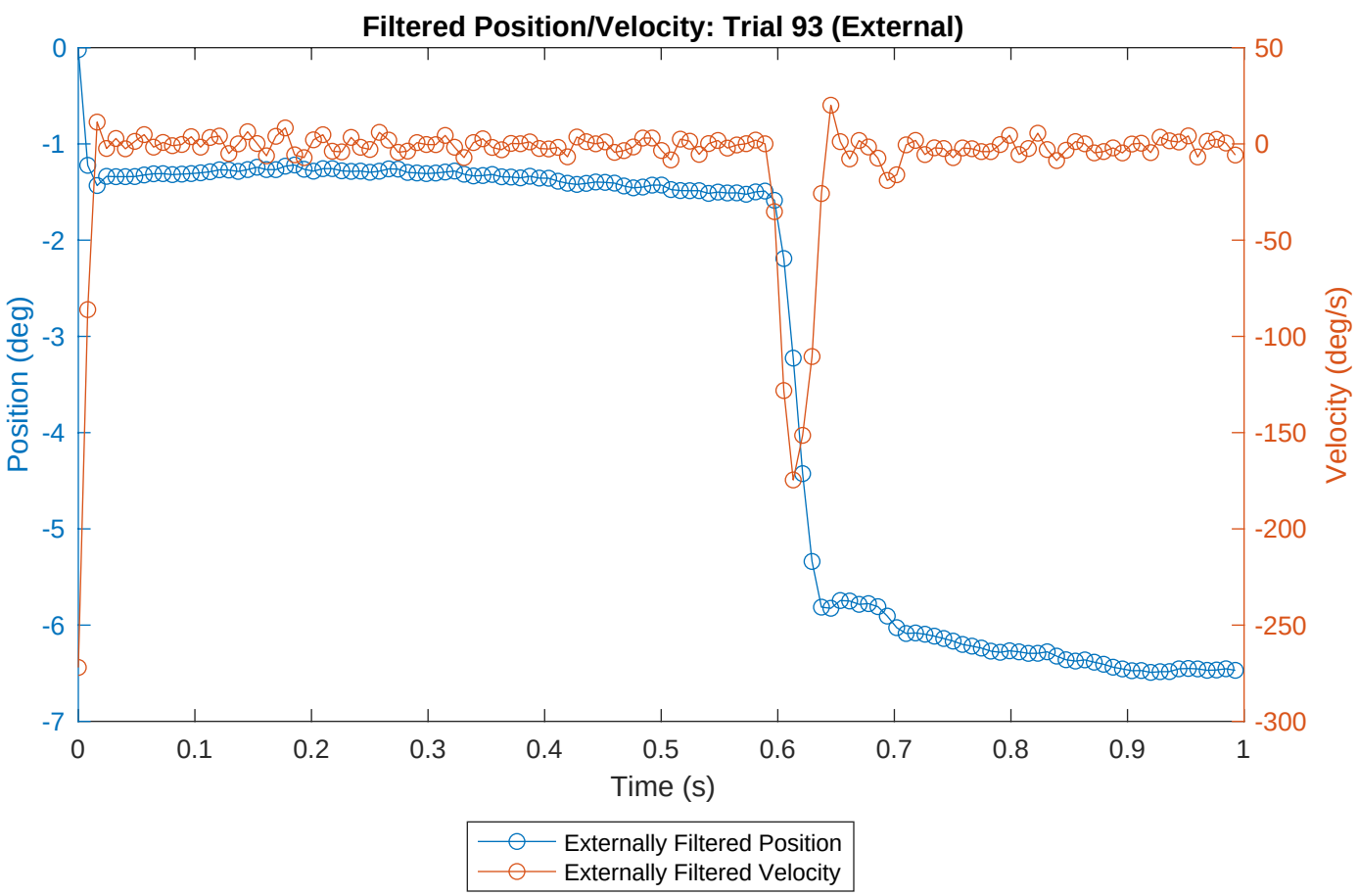

Position (deg)
Time (s)

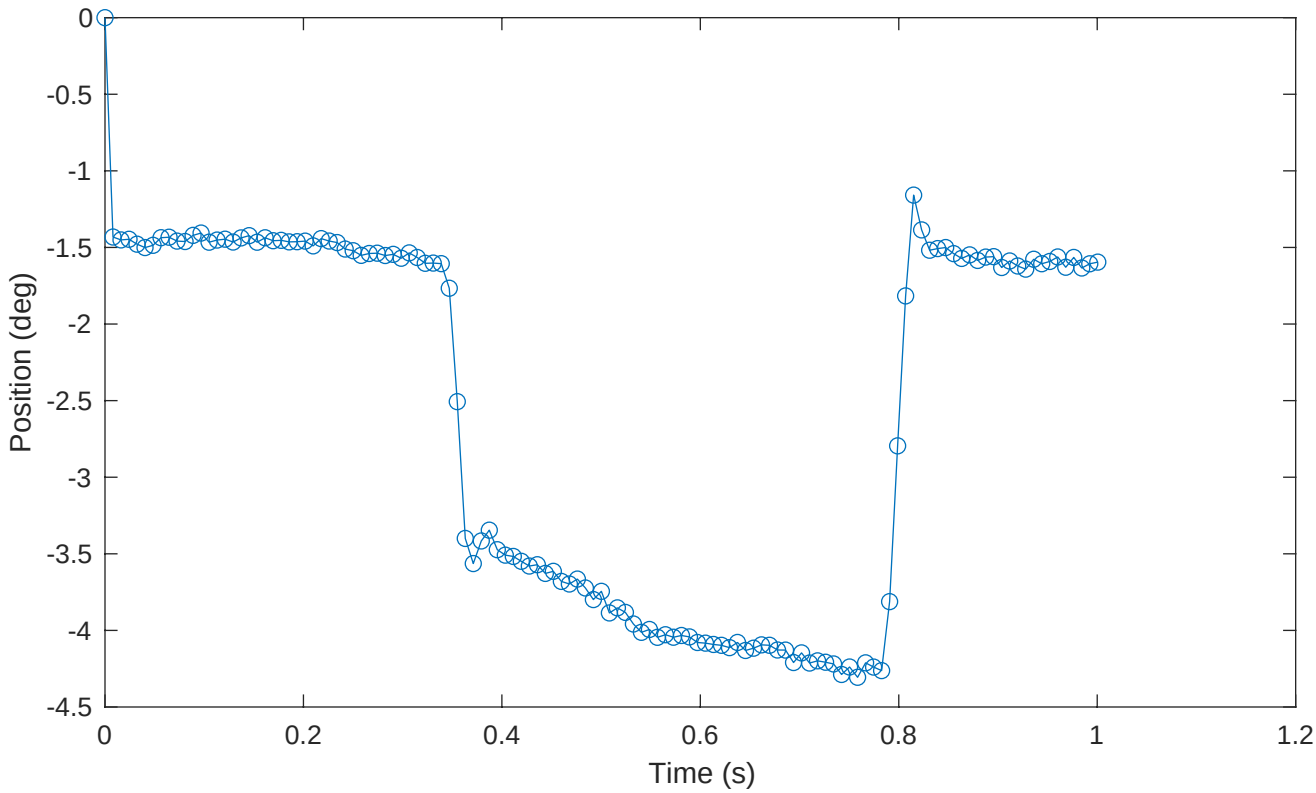

Filtered Position/Velocity: Trial 91 (External)
Position (deg)
Velocity (deg/s)
Time (s)
Externally Filtered Position
Externally Filtered Velocity

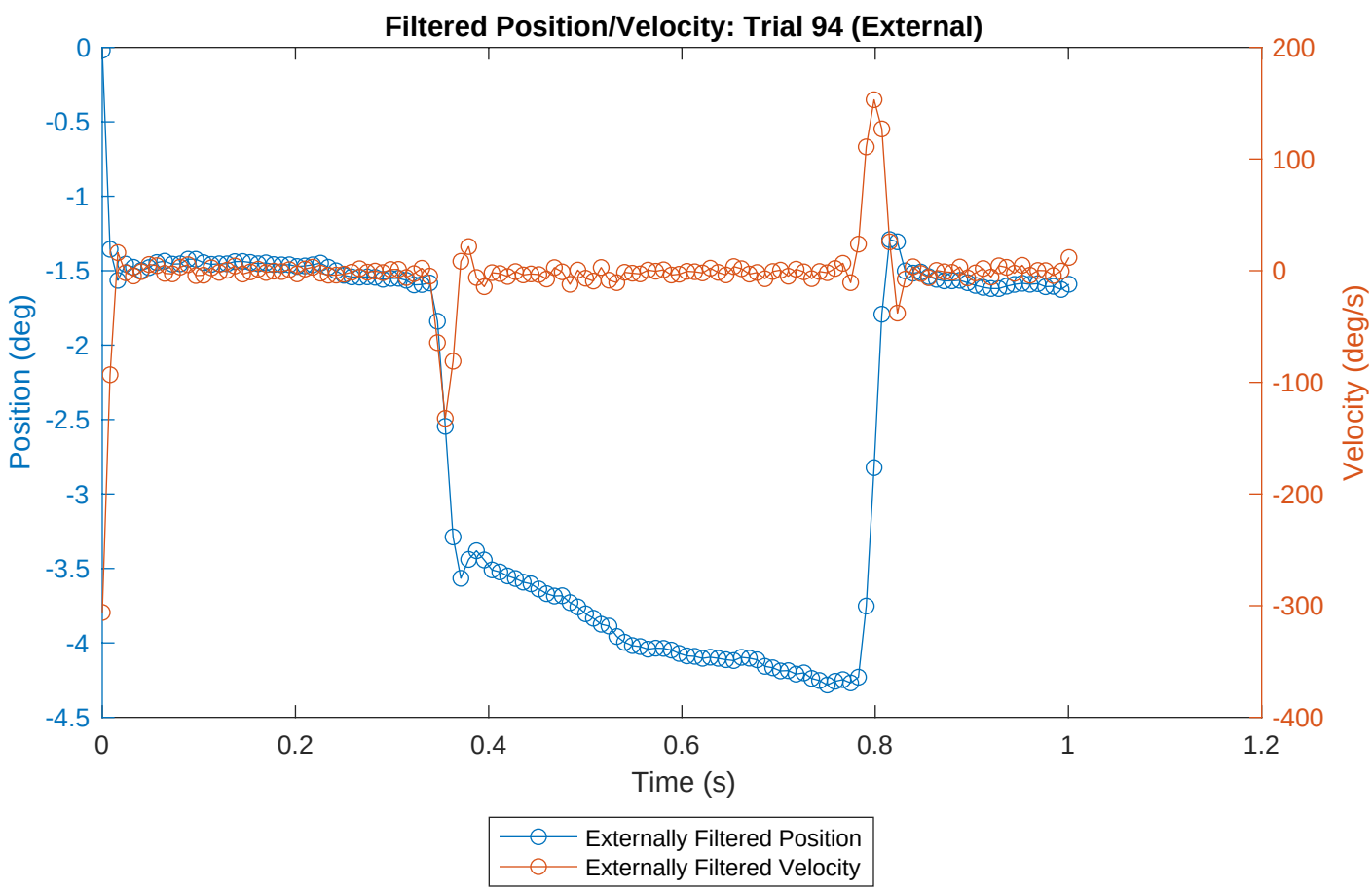

0
-0.5
-1
-1.5
Position (deg)
0
0.1
0.2
0.3
0.4
0.5
0.6
0.7
0.8
0.9
1
Time (s)

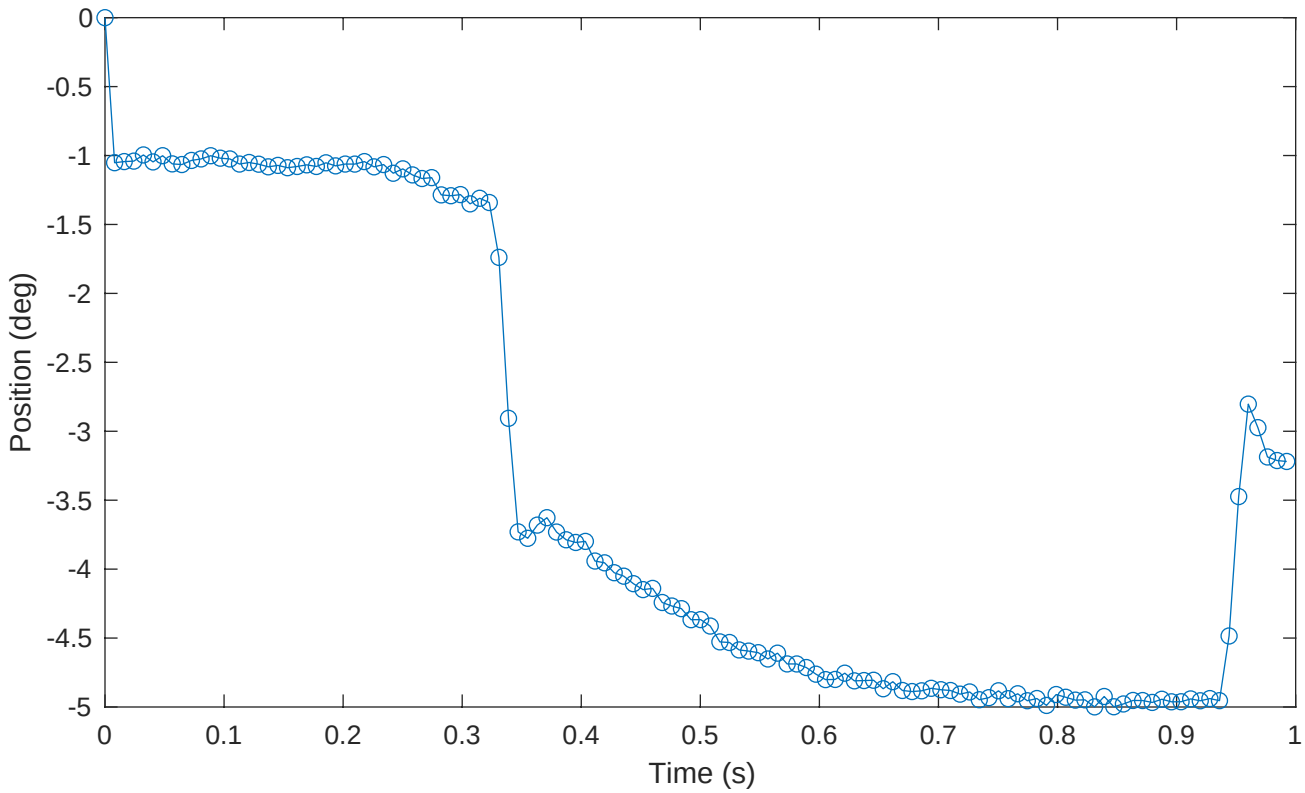

Filtered Position/Velocity: Trial 92 (External)
0
-0.2
-0.4
-0.6
-0.8
-1
-1.2
-1.4
-1.6
Position (deg)
50
0
-50
-100
-150
-200
-250
-300
-350
Velocity (deg/s)
0
0.1
0.2
0.3
0.4
0.5
0.6
0.7
0.8
0.9
1
Time (s)
Externally Filtered Position
Externally Filtered Velocity

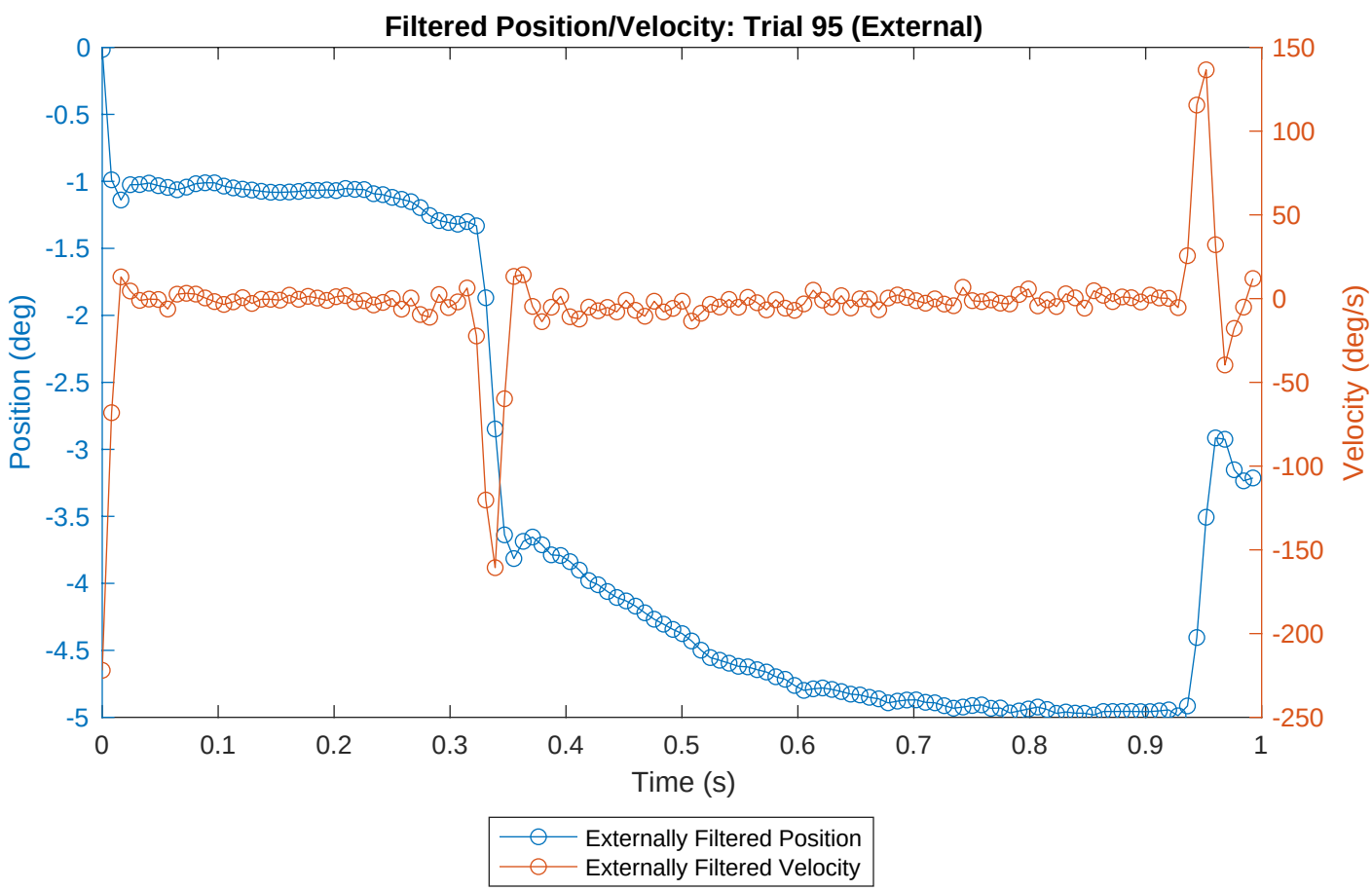

Position (deg)
Time (s)
0
-1
-2
-3
-4
-5
-6
-7
0
0.1
0.2
0.3
0.4
0.5
0.6
0.7
0.8
0.9
1

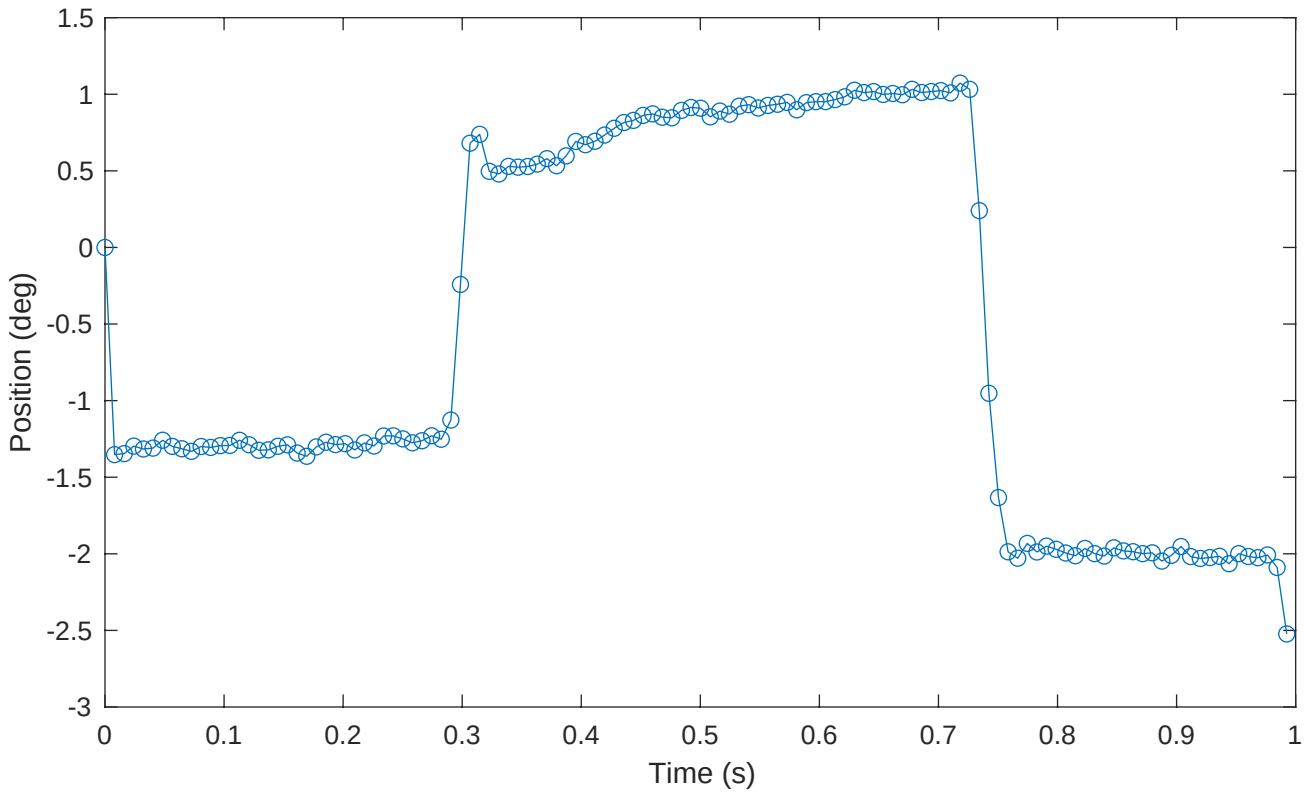

Filtered Position/Velocity: Trial 93 (External)
Position (deg)
Velocity (deg/s)
Time (s)
0
-1
-2
-3
-4
-5
-6
-7
50
0
-50
-100
-150
-200
-250
-300
0
0.1
0.2
0.3
0.4
0.5
0.6
0.7
0.8
0.9
1
Externally Filtered Position
Externally Filtered Velocity

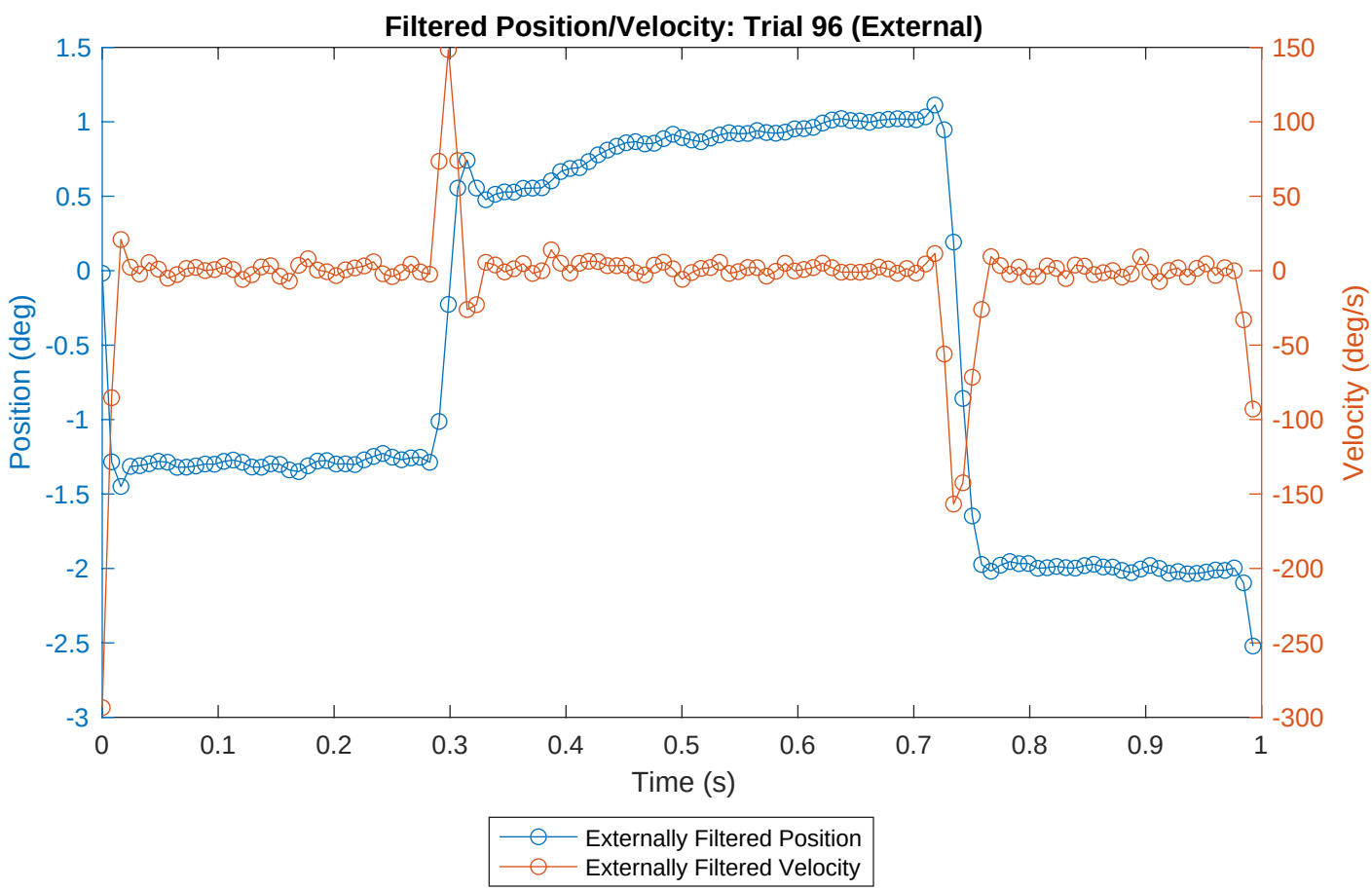

Position (deg)
Time (s)
0
-0.5
-1
-1.5
-2
-2.5
-3
-3.5
-4
-4.5
0
0.2
0.4
0.6
0.8
1
1.2

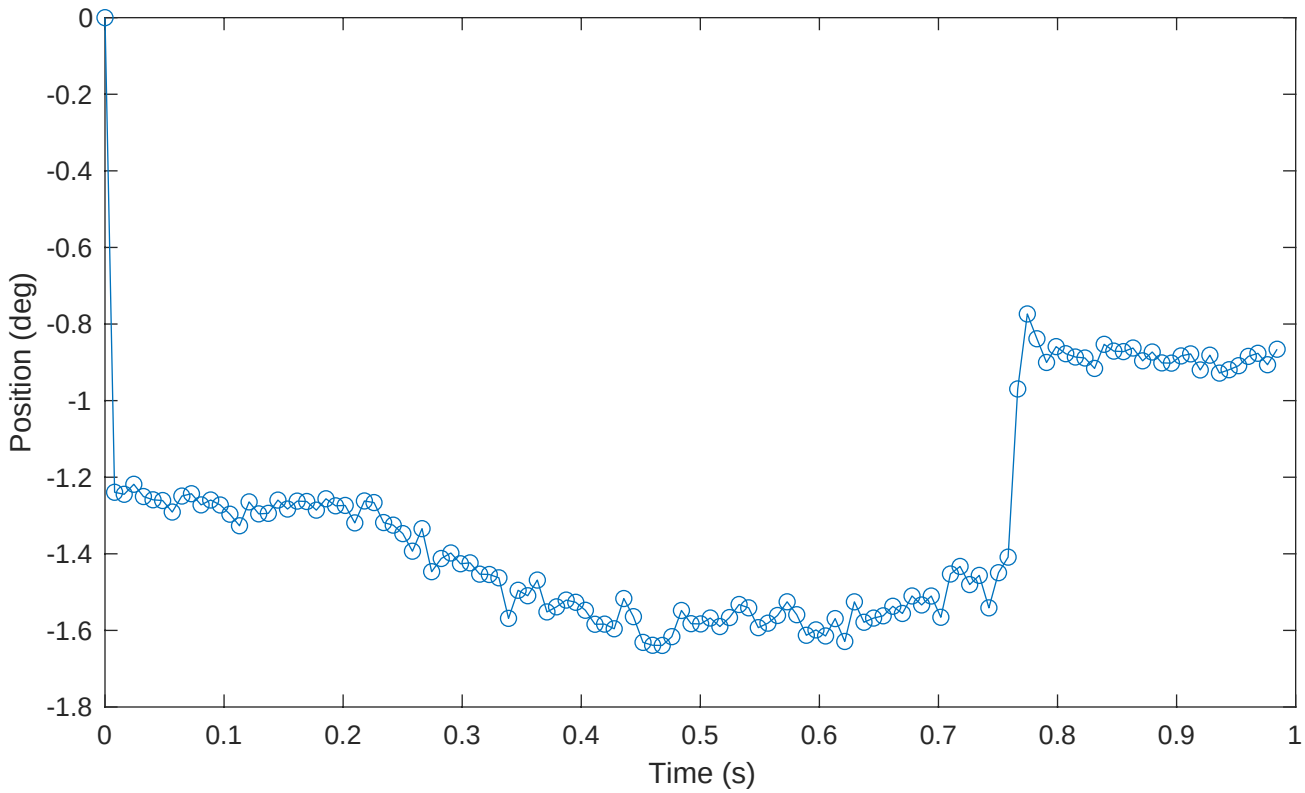

Filtered Position/Velocity: Trial 94 (External)
Position (deg)
Velocity (deg/s)
Time (s)
0
-0.5
-1
-1.5
-2
-2.5
-3
-3.5
-4
-4.5
200
100
0
-100
-200
-300
-400
0
0.2
0.4
0.6
0.8
1
1.2
Externally Filtered Position
Externally Filtered Velocity

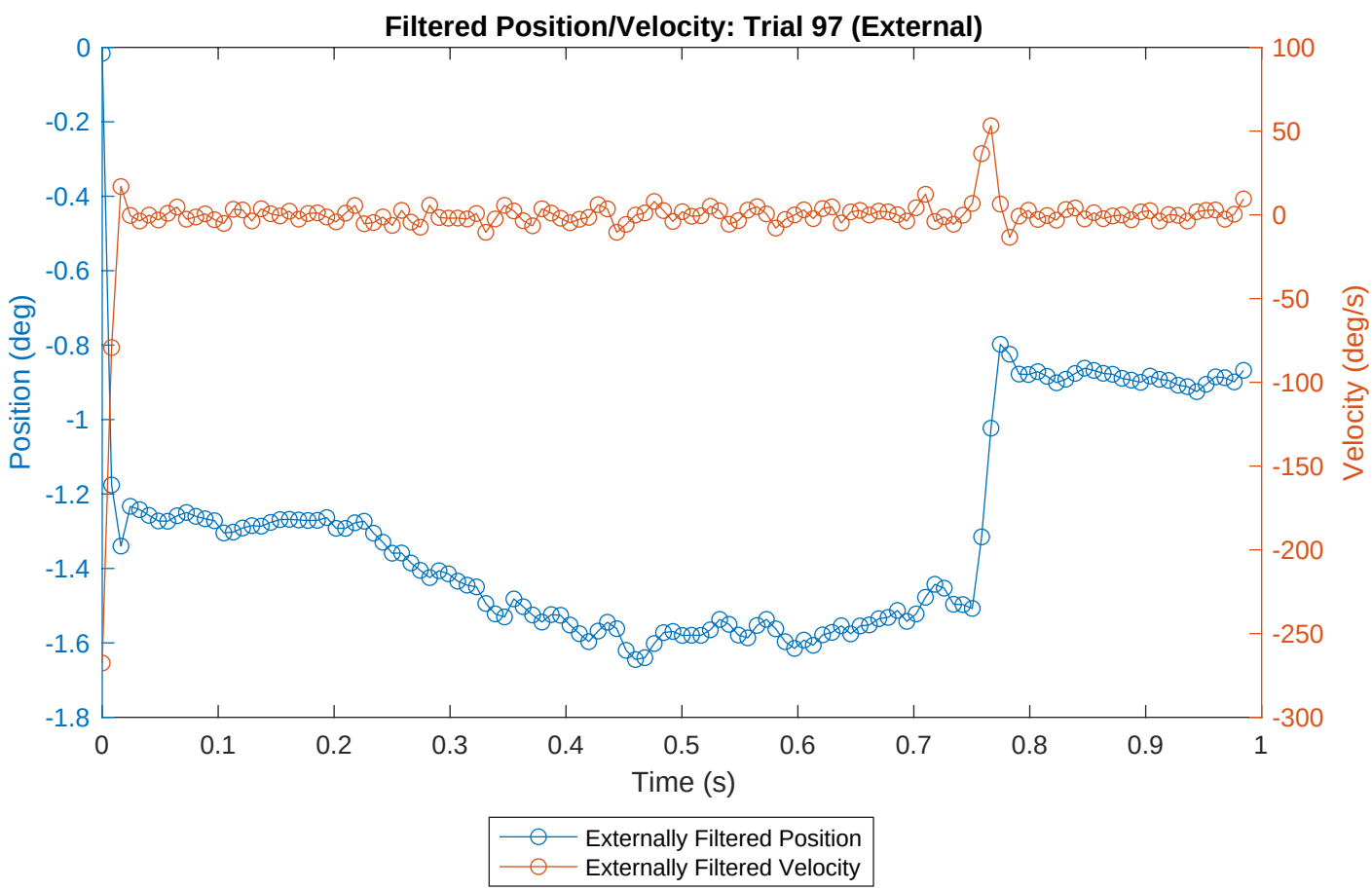

Position (deg)
Time (s)

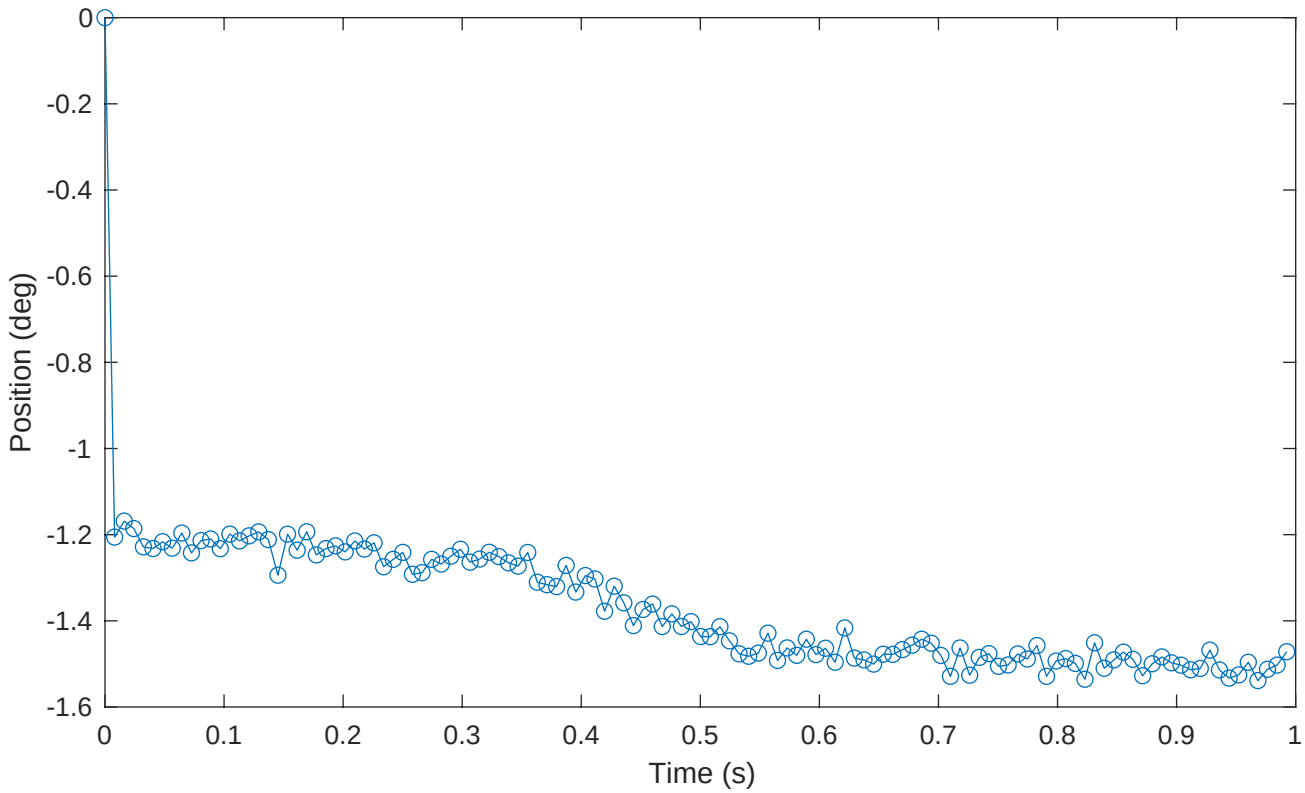

Filtered Position/Velocity: Trial 95 (External)
Position (deg)
Velocity (deg/s)
Time (s)
Externally Filtered Position
Externally Filtered Velocity

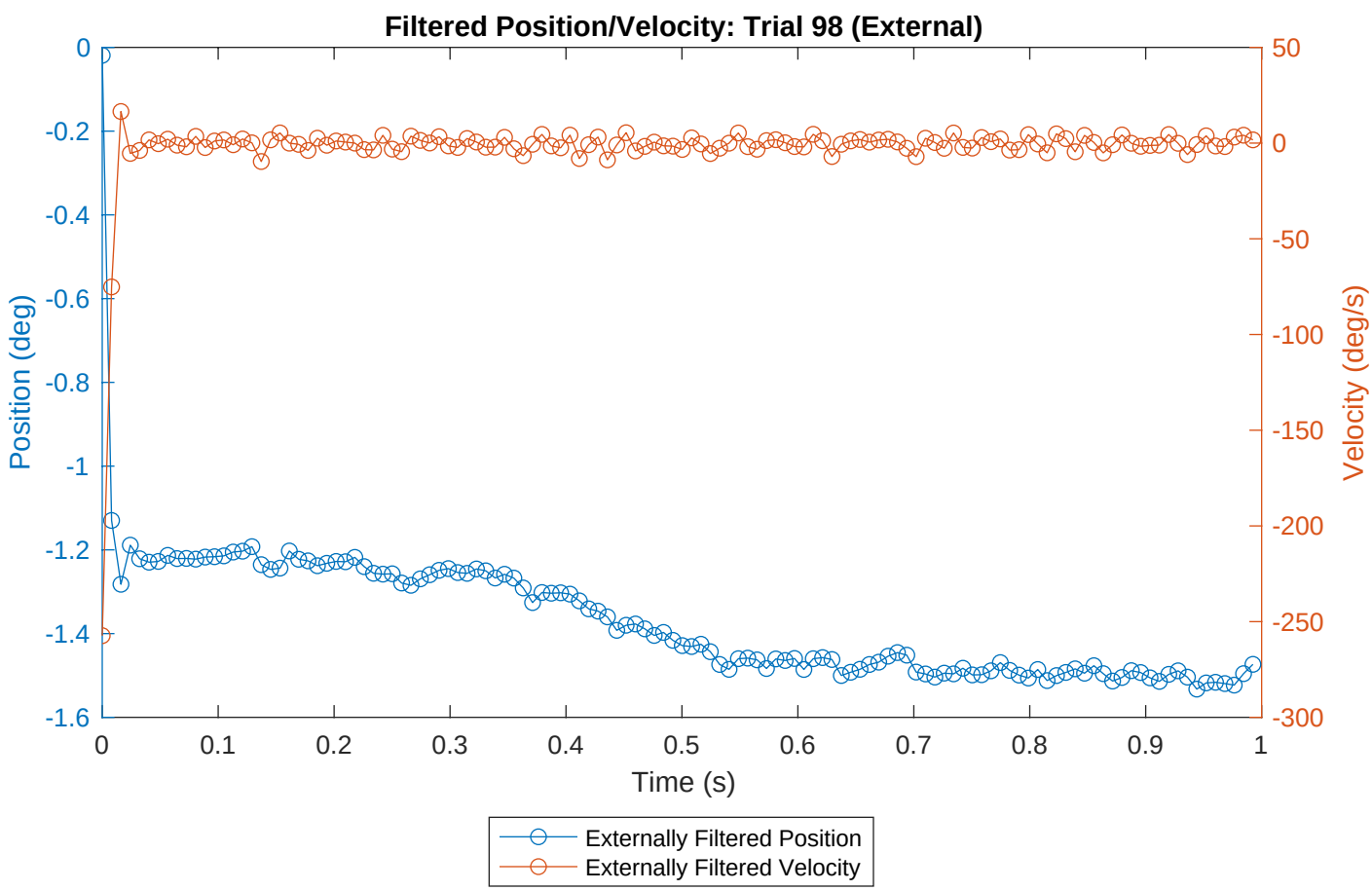

Position (deg)
Time (s)

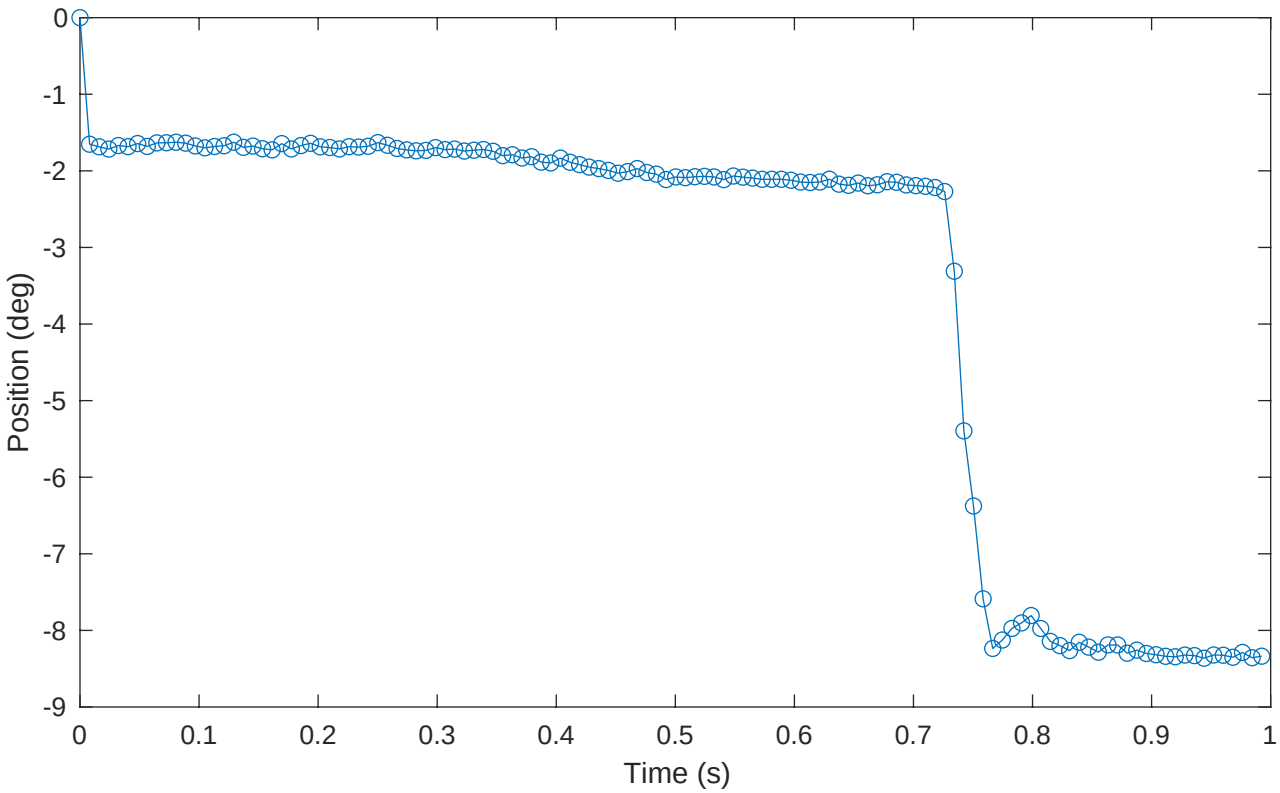

Filtered Position/Velocity: Trial 96 (External)
Position (deg)
Velocity (deg/s)
Time (s)
Externally Filtered Position
Externally Filtered Velocity

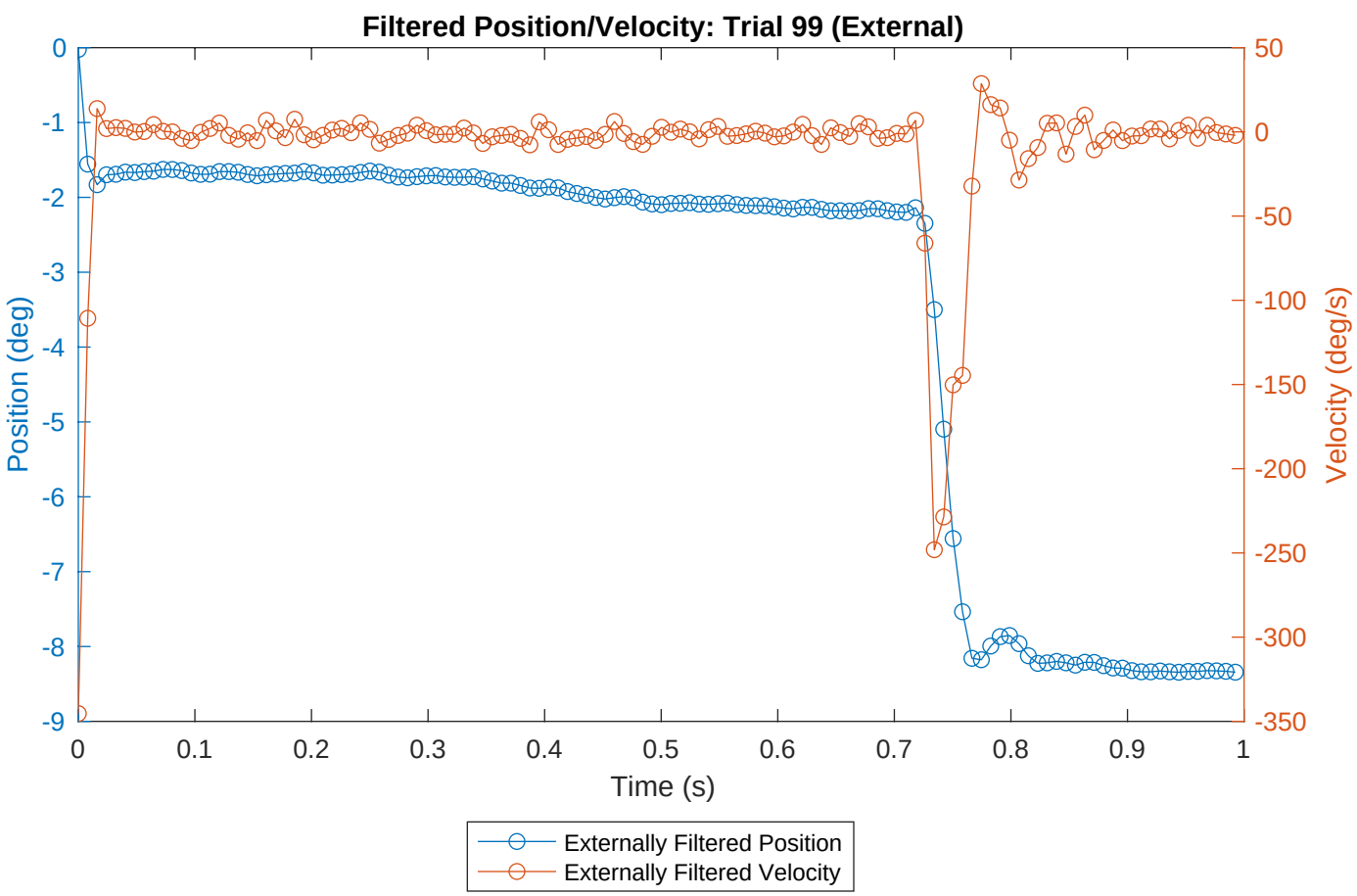

Position (deg)
Time (s)

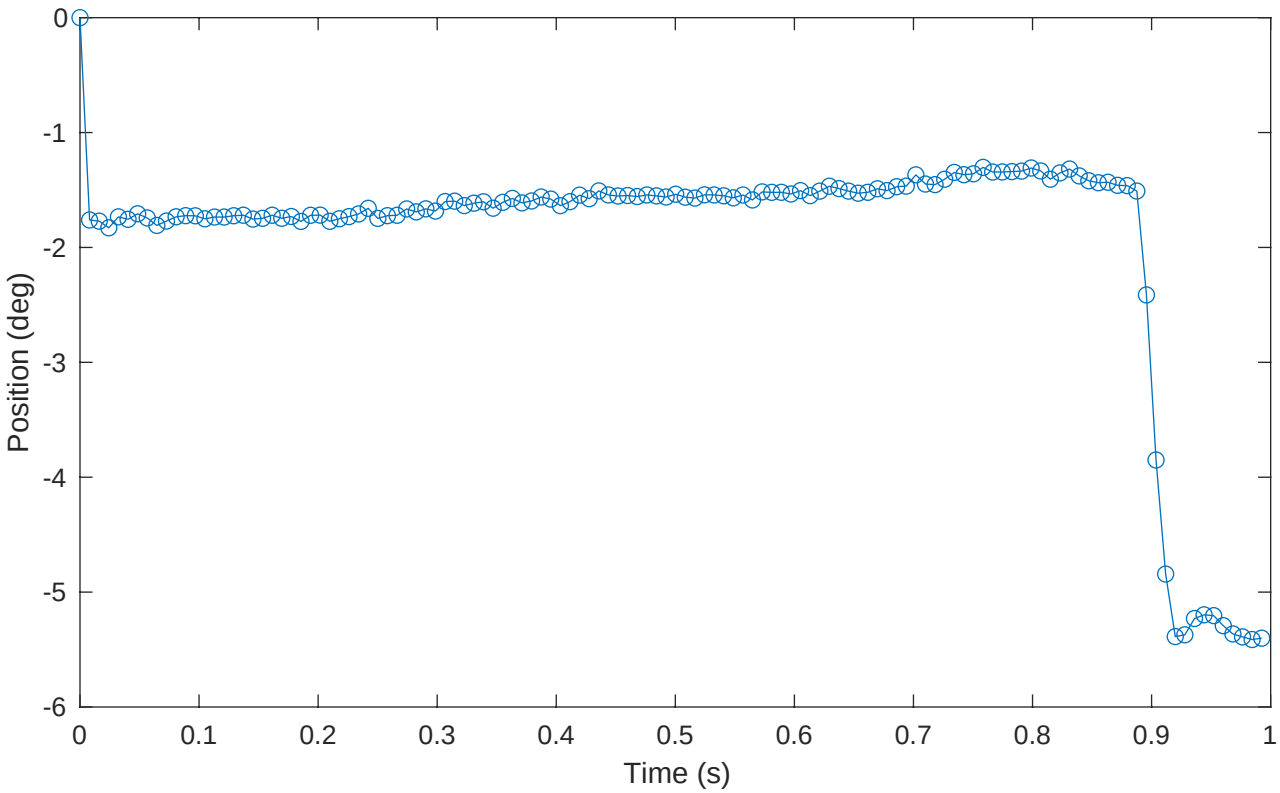

Filtered Position/Velocity: Trial 97 (External)
Position (deg)
Velocity (deg/s)
Time (s)
Externally Filtered Position
Externally Filtered Velocity

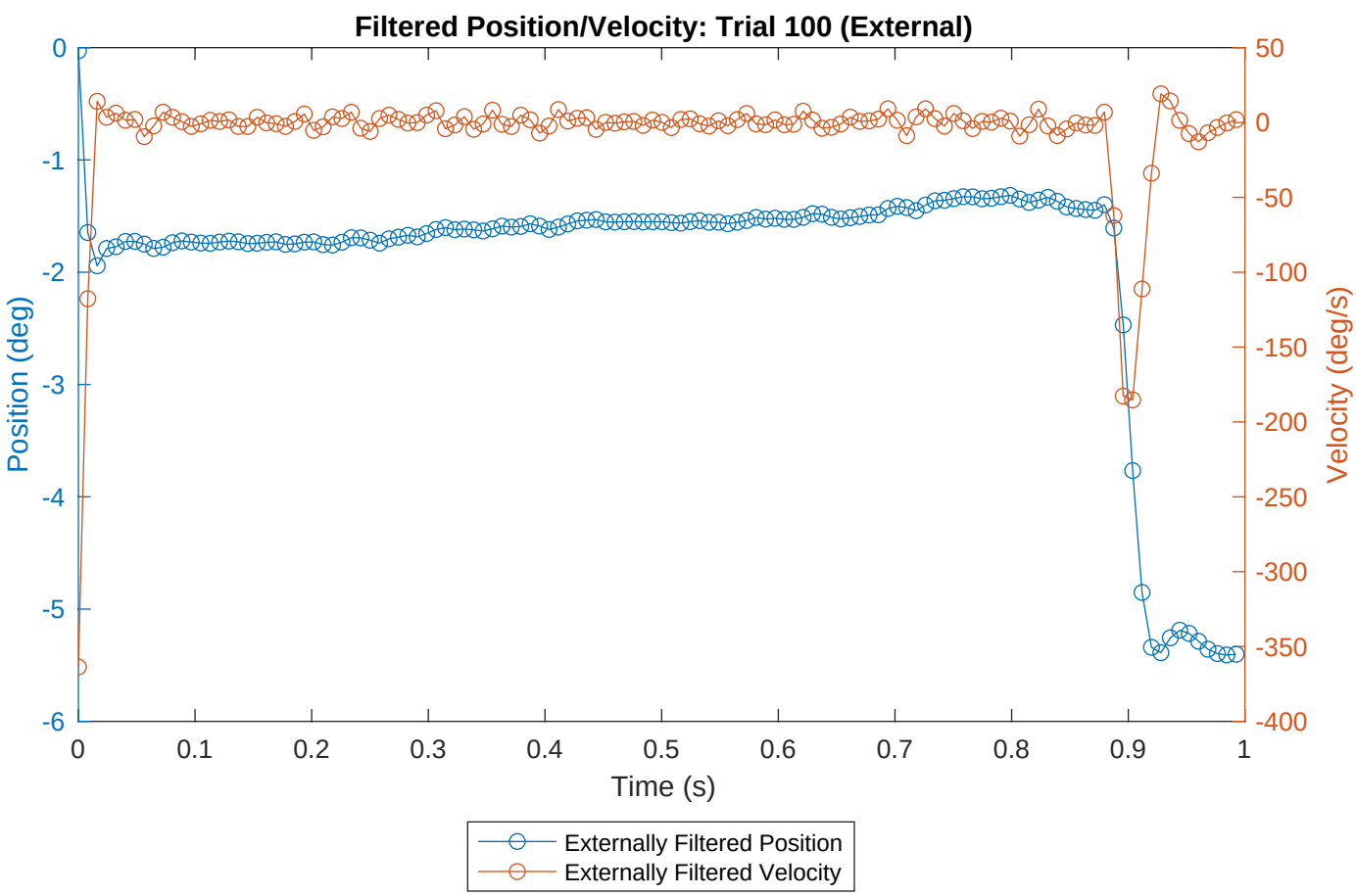

0
-0.2
-0.4
-0.6
-0.8
-1
-1.2
-1.4
-1.6
Position (deg)
0
0.1
0.2
0.3
0.4
0.5
0.6
0.7
0.8
0.9
1
Time (s)

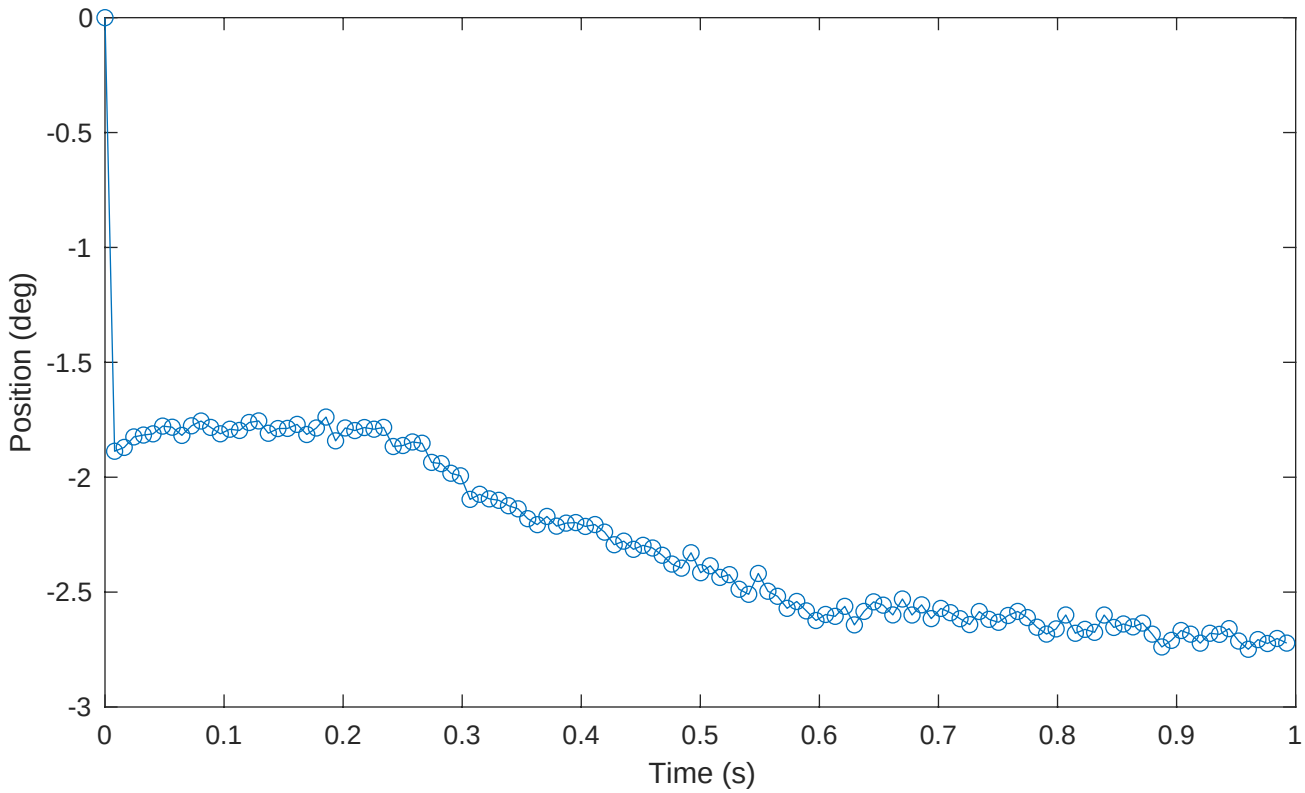

Filtered Position/Velocity: Trial 98 (External)
0
-0.2
-0.4
-0.6
-0.8
-1
-1.2
-1.4
-1.6
Position (deg)
50
0
-50
-100
-150
-200
-250
-300
Velocity (deg/s)
0
0.1
0.2
0.3
0.4
0.5
0.6
0.7
0.8
0.9
1
Time (s)
Externally Filtered Position
Externally Filtered Velocity

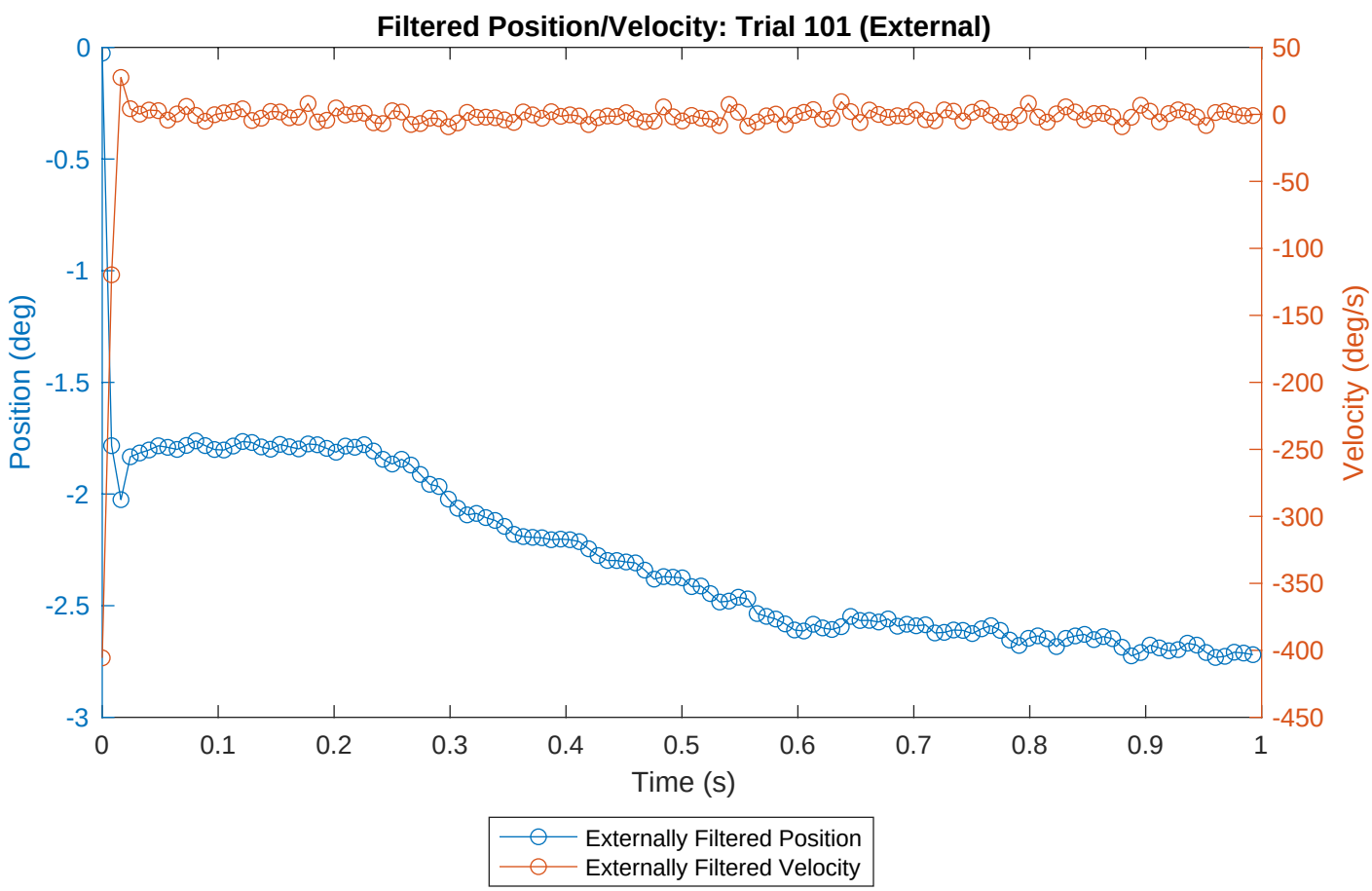

Position (deg)
Time (s)
0
-1
-2
-3
-4
-5
-6
-7
-8
-9
0
0.1
0.2
0.3
0.4
0.5
0.6
0.7
0.8
0.9
1

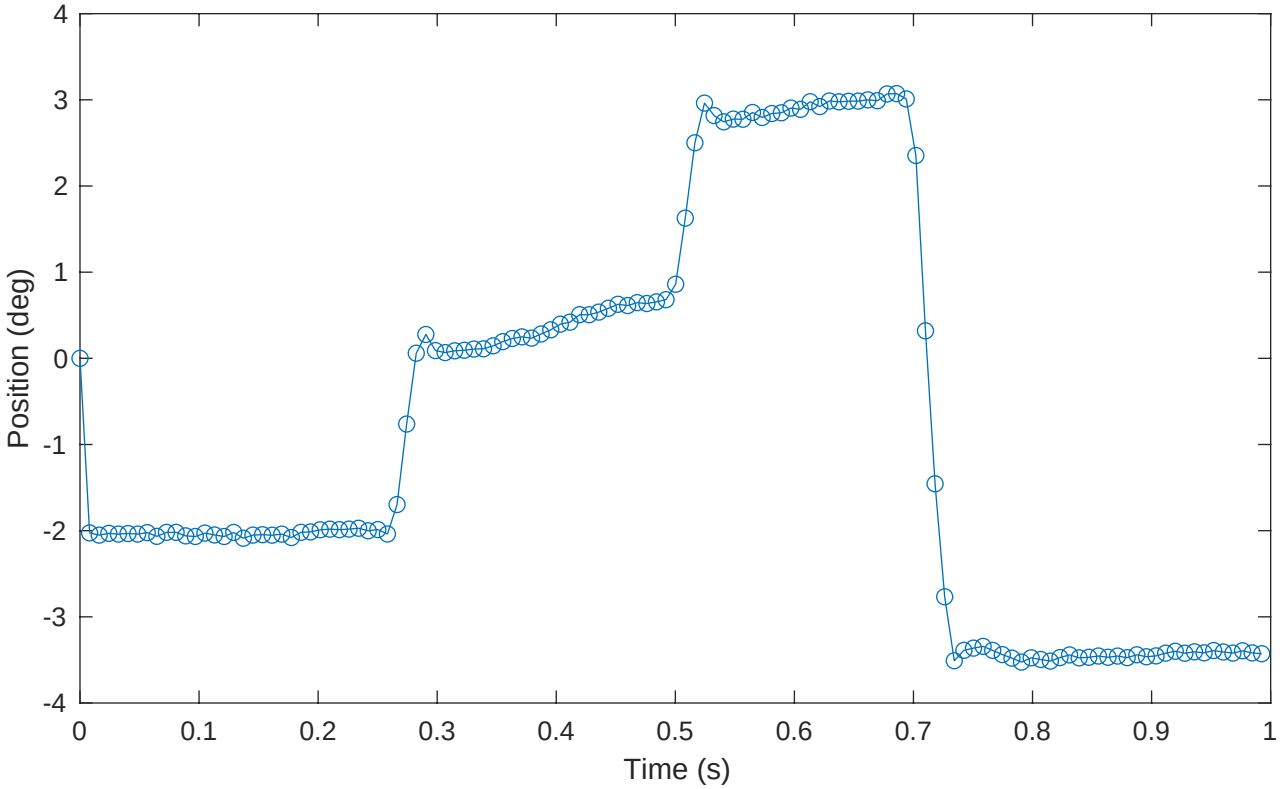

Filtered Position/Velocity: Trial 99 (External)
Position (deg)
Velocity (deg/s)
Time (s)
0
-1
-2
-3
-4
-5
-6
-7
-8
-9
50
0
-50
-100
-150
-200
-250
-300
-350
0
0.1
0.2
0.3
0.4
0.5
0.6
0.7
0.8
0.9
1
Externally Filtered Position
Externally Filtered Velocity

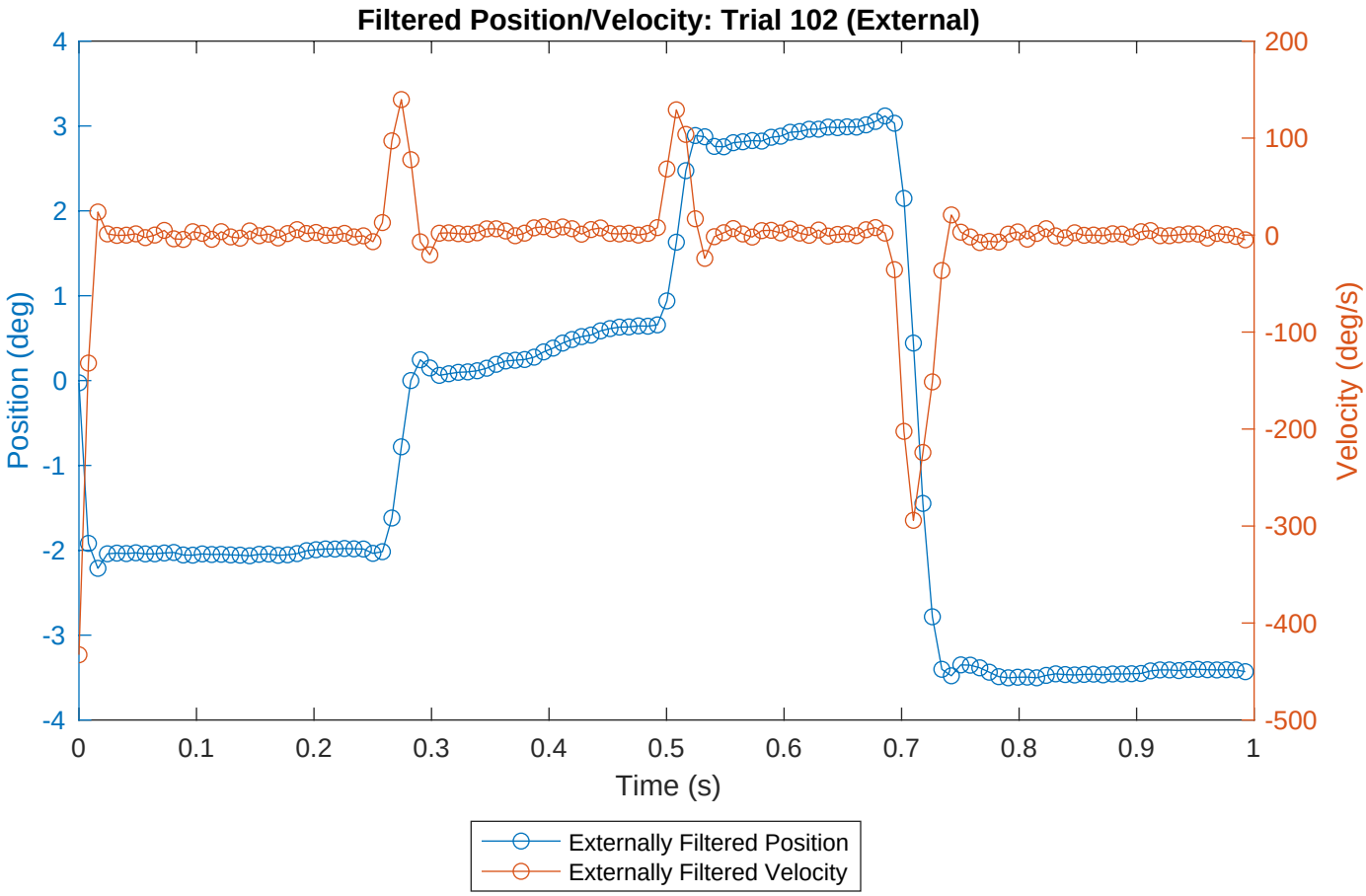

0
-1
-2
-3
-4
-5
-6
Position (deg)
0
0.1
0.2
0.3
0.4
0.5
0.6
0.7
0.8
0.9
1
Time (s)

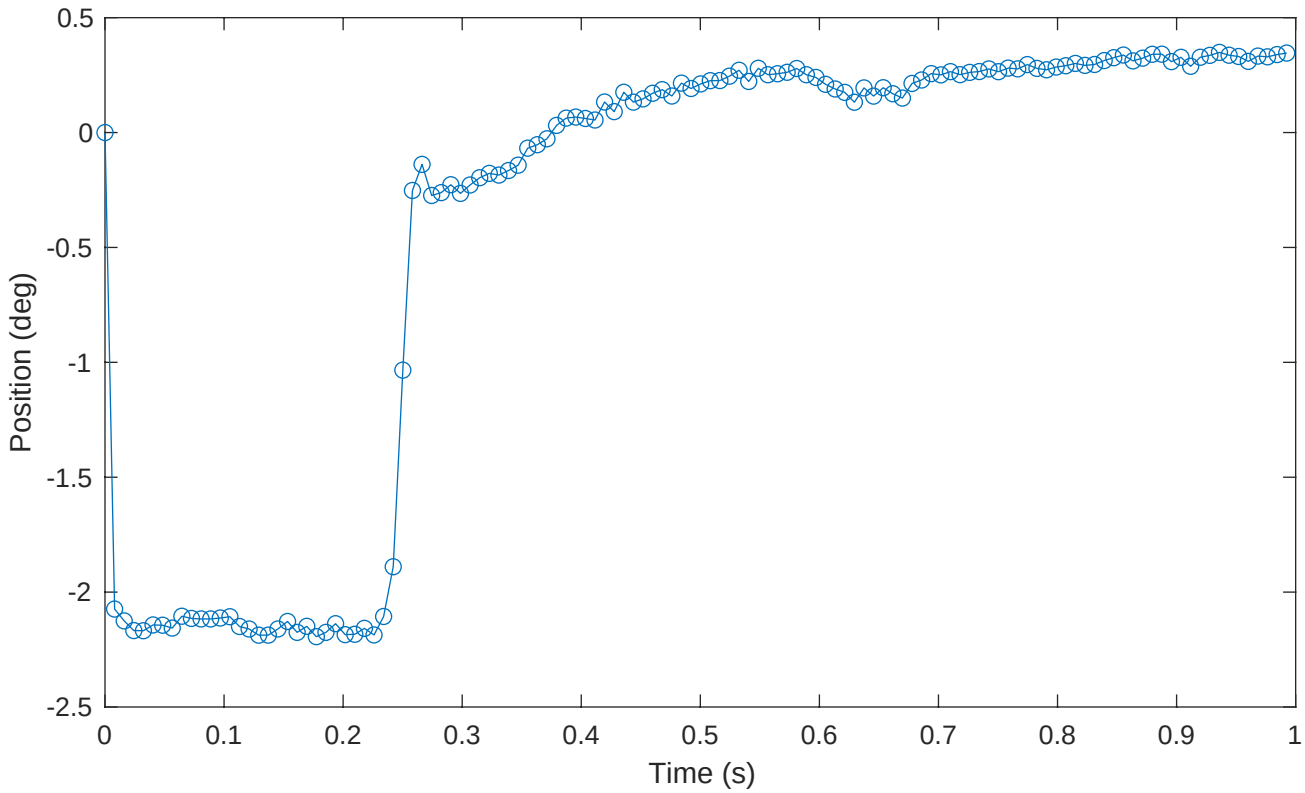

Filtered Position/Velocity: Trial 100 (External)
0
-1
-2
-3
-4
-5
-6
Position (deg)
50
0
-50
-100
-150
-200
-250
-300
-350
-400
Velocity (deg/s)
0
0.1
0.2
0.3
0.4
0.5
0.6
0.7
0.8
0.9
1
Time (s)
Externally Filtered Position
Externally Filtered Velocity

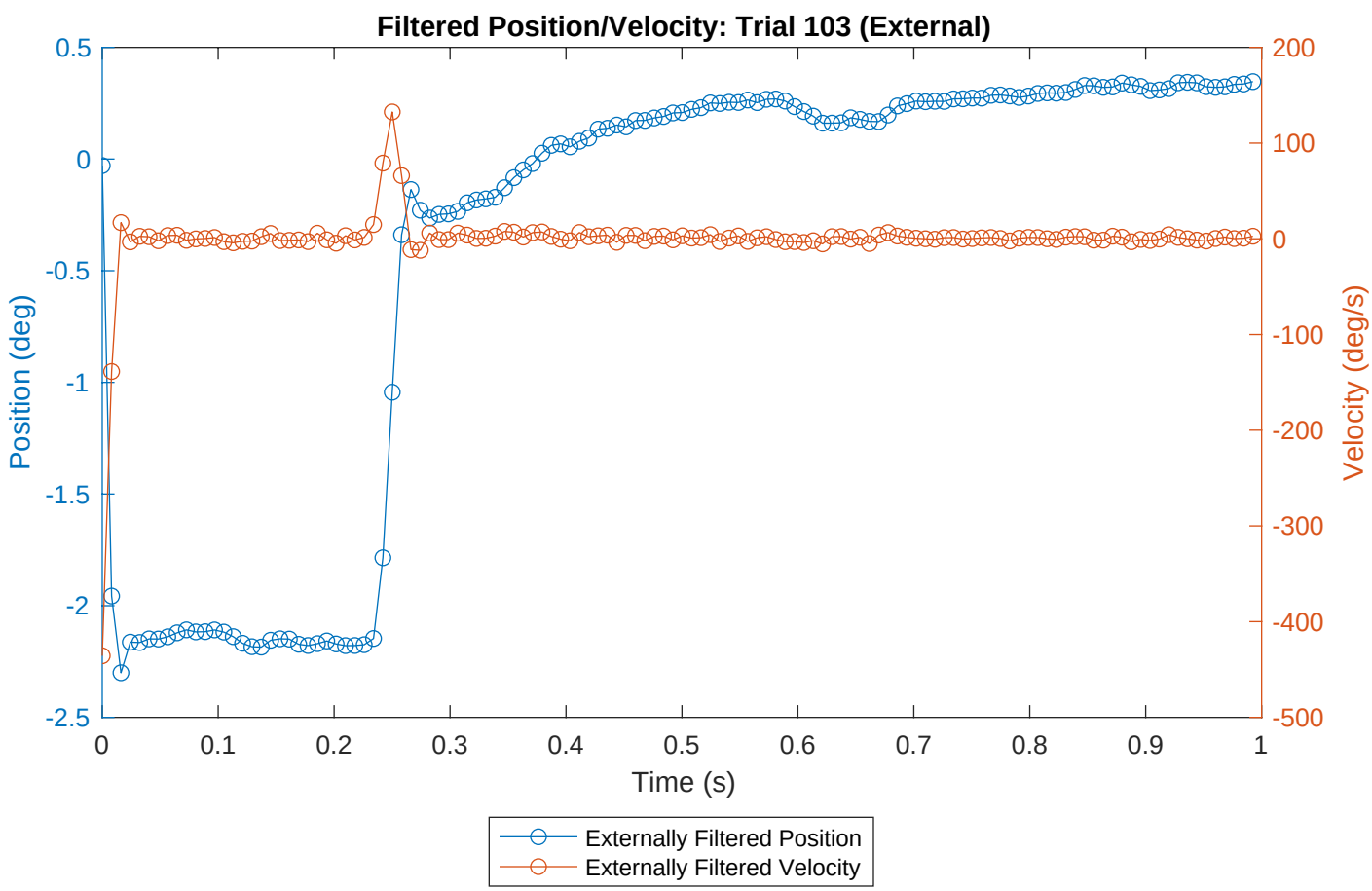

Position (deg)
Time (s)
0
-0.5
-1
-1.5
-2
-2.5
-3
0
0.1
0.2
0.3
0.4
0.5
0.6
0.7
0.8
0.9
1

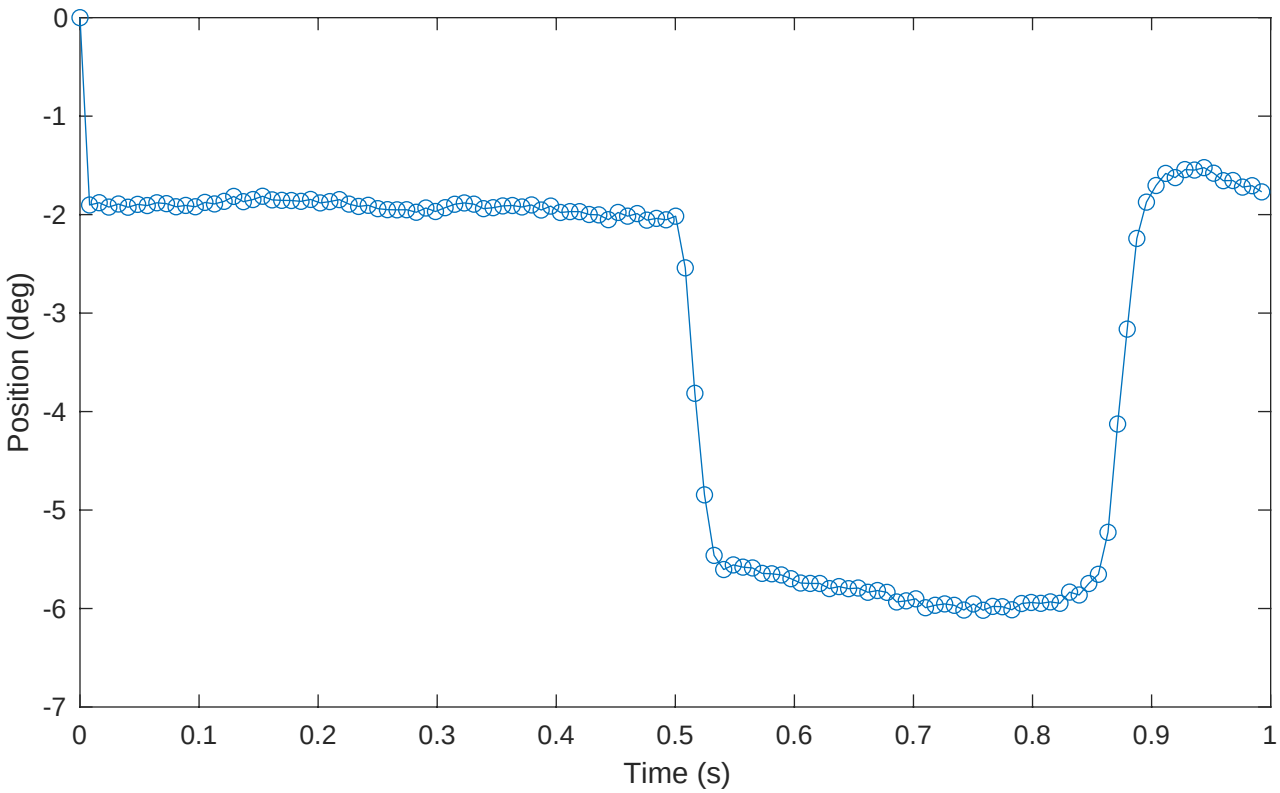

Filtered Position/Velocity: Trial 101 (External)
Position (deg)
Velocity (deg/s)
Time (s)
0
-0.5
-1
-1.5
-2
-2.5
-3
50
0
-50
-100
-150
-200
-250
-300
-350
-400
-450
0
0.1
0.2
0.3
0.4
0.5
0.6
0.7
0.8
0.9
1
Externally Filtered Position
Externally Filtered Velocity

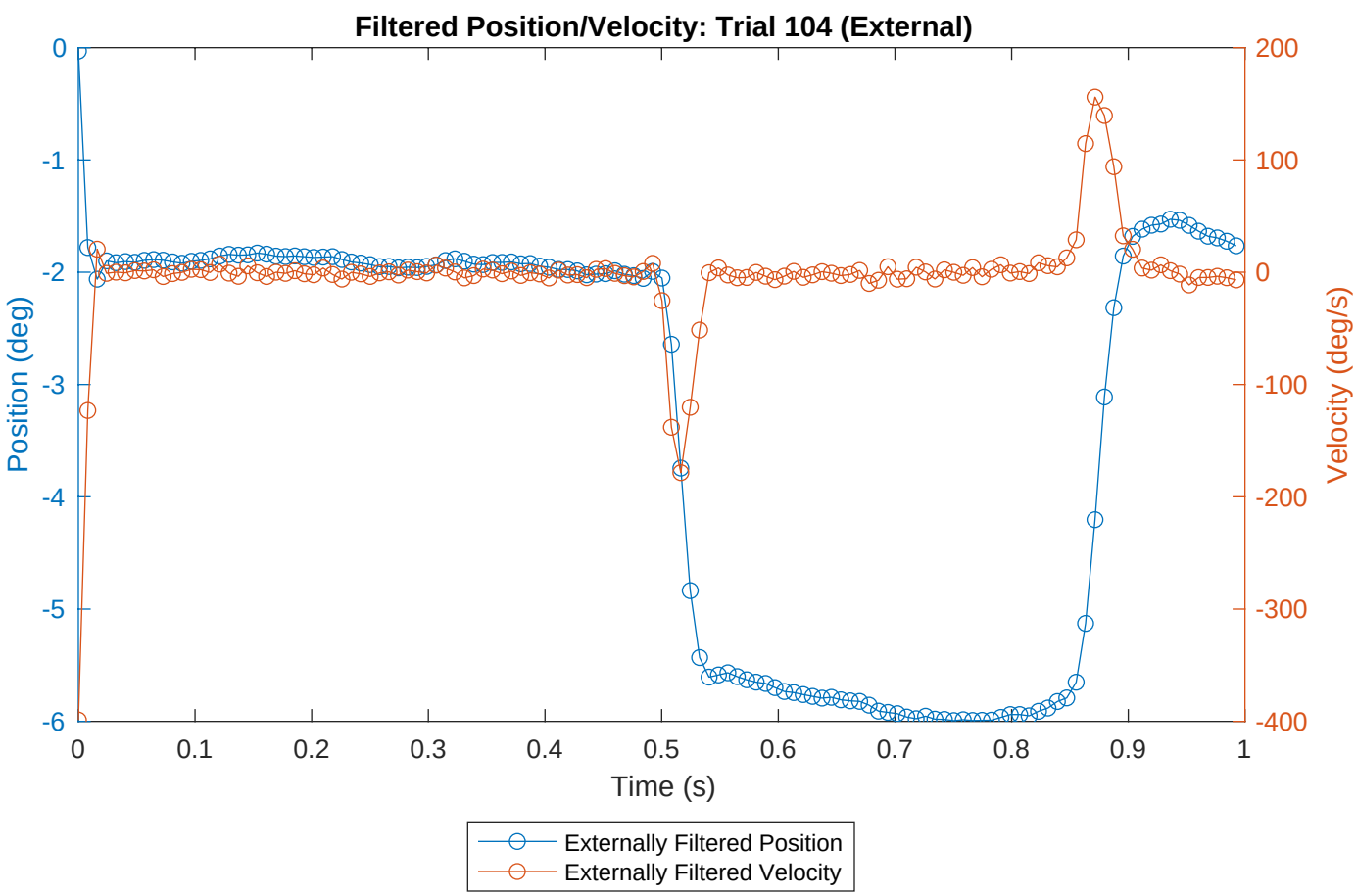

Position (deg)
Time (s)

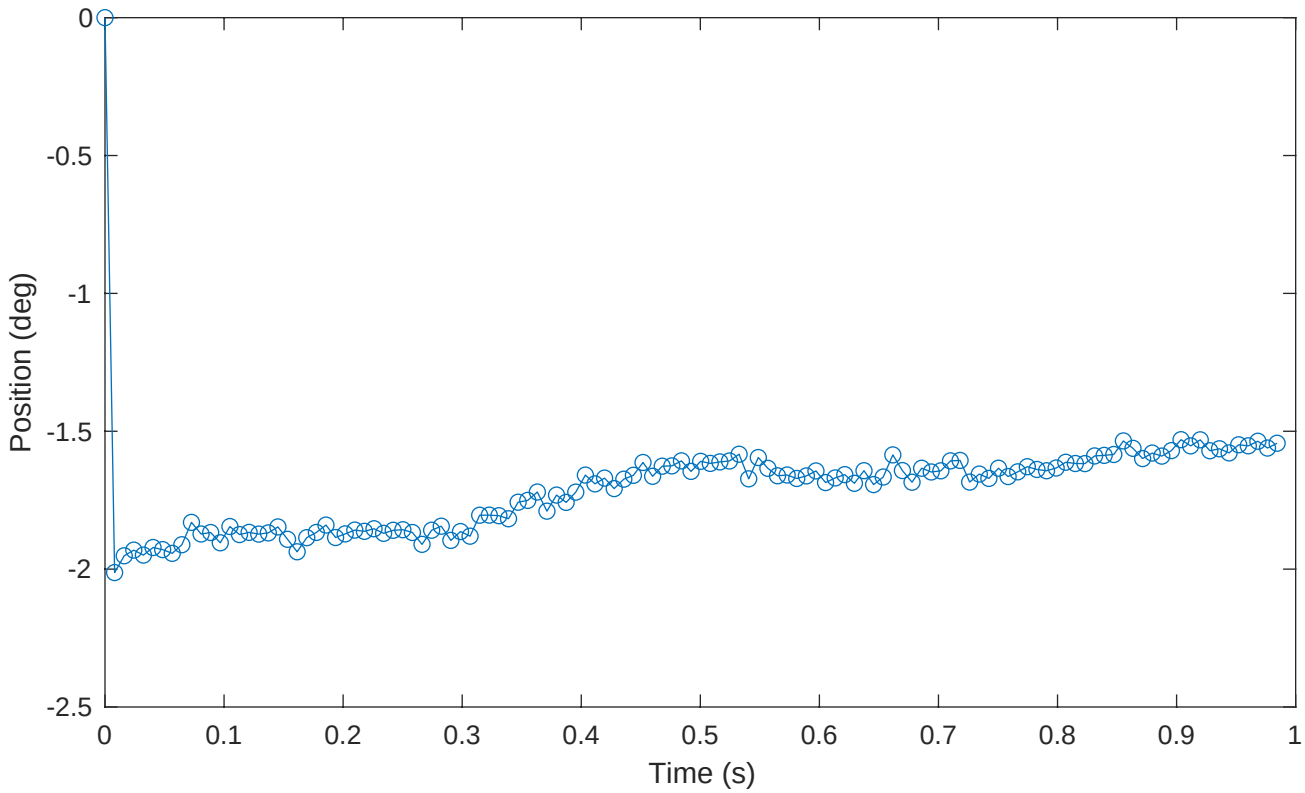

Filtered Position/Velocity: Trial 102 (External)
Position (deg)
Velocity (deg/s)
Time (s)
Externally Filtered Position
Externally Filtered Velocity

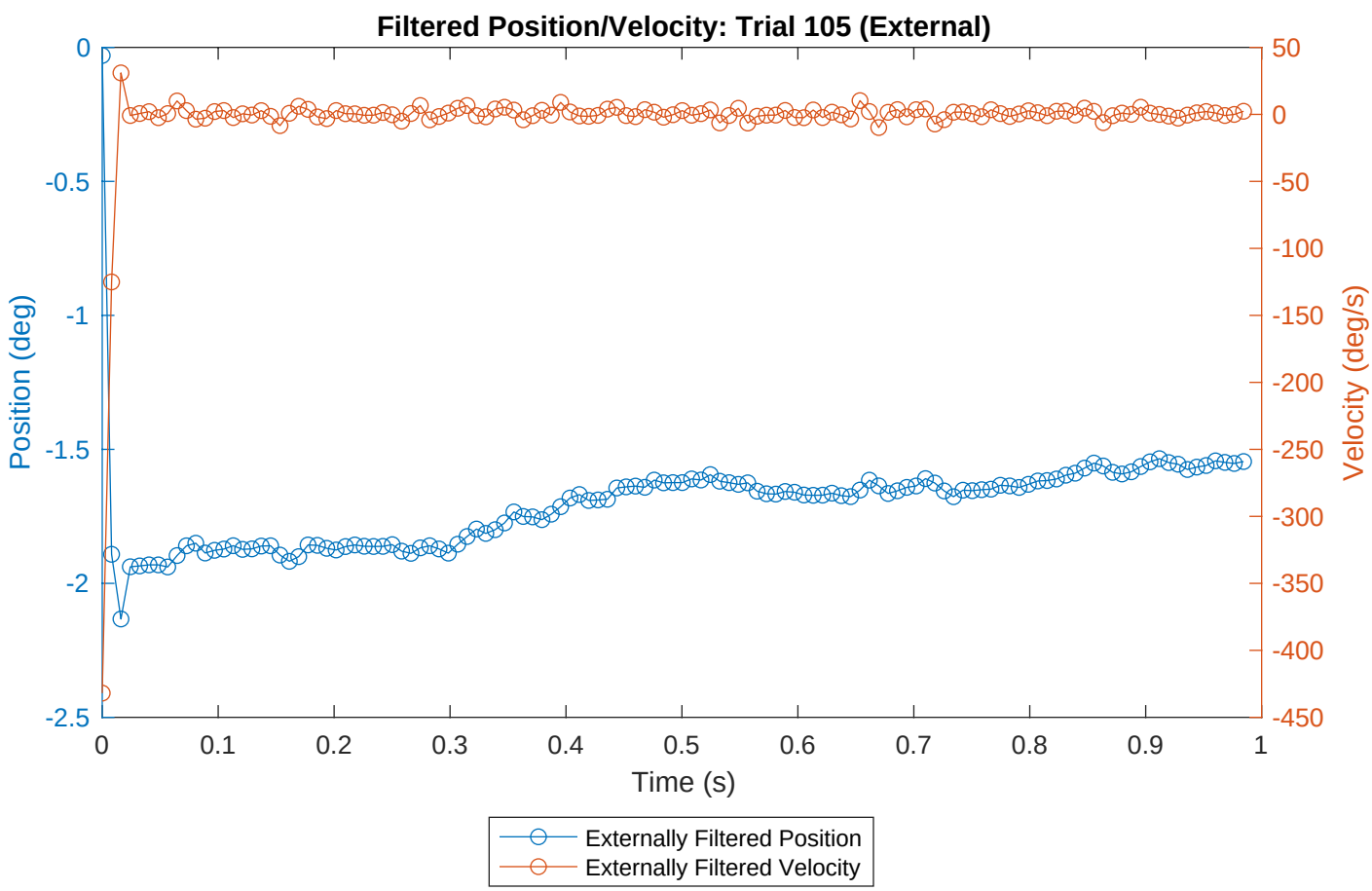

0.5
0
-0.5
-1
-1.5
-2
-2.5
Position (deg)
0
0.1
0.2
0.3
0.4
0.5
0.6
0.7
0.8
0.9
1
Time (s)

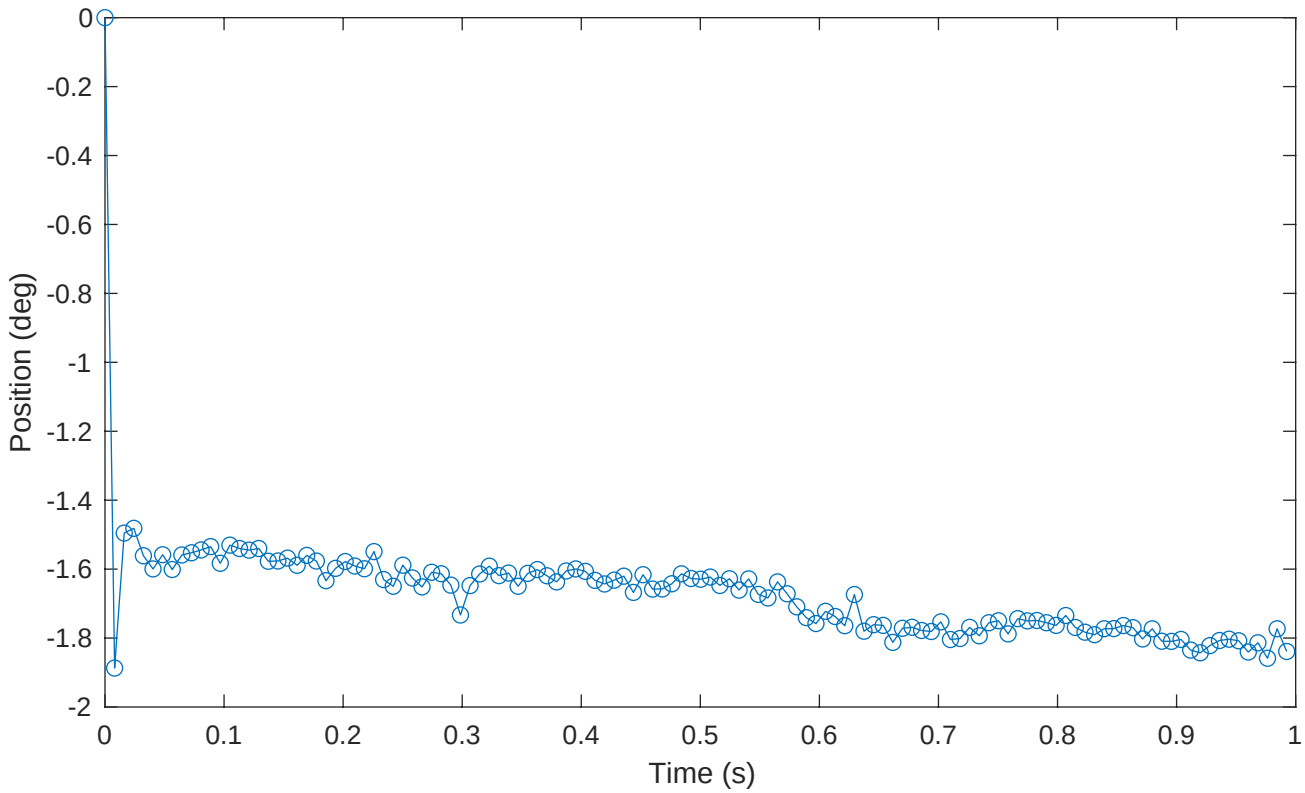

Filtered Position/Velocity: Trial 103 (External)
0.5
0
-0.5
-1
-1.5
-2
-2.5
Position (deg)
200
100
0
-100
-200
-300
-400
-500
Velocity (deg/s)
0
0.1
0.2
0.3
0.4
0.5
0.6
0.7
0.8
0.9
1
Time (s)
Externally Filtered Position
Externally Filtered Velocity

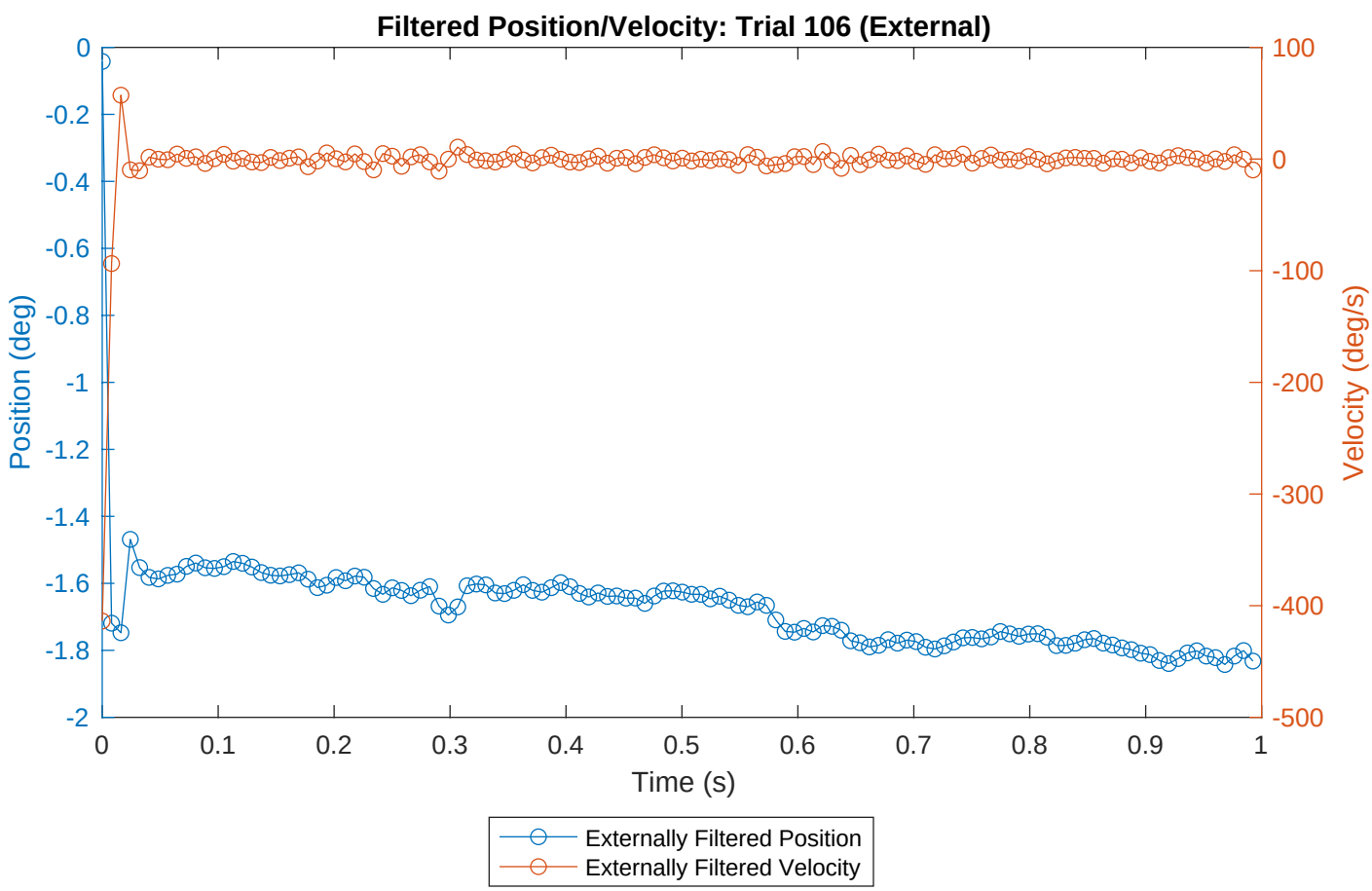

Position (deg)
Time (s)
0
-1
-2
-3
-4
-5
-6
-7
0
0.1
0.2
0.3
0.4
0.5
0.6
0.7
0.8
0.9
1

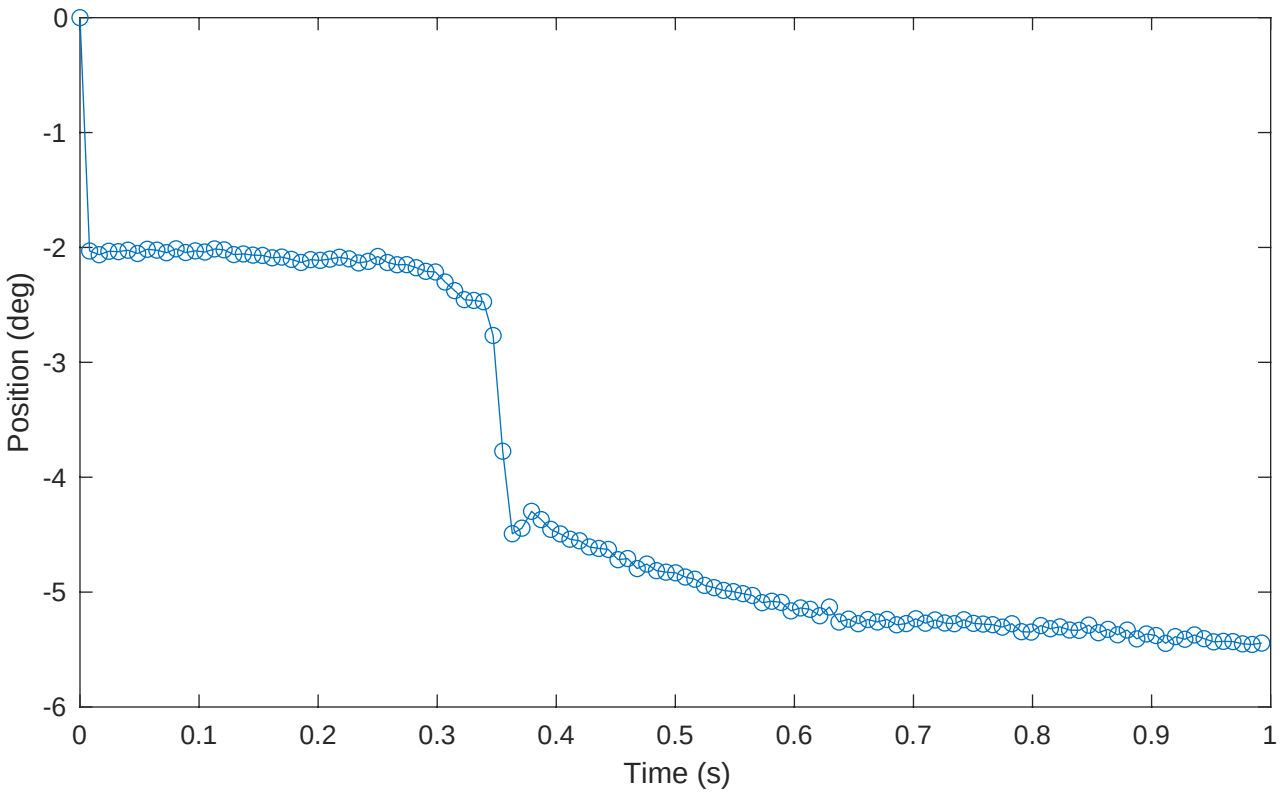

Filtered Position/Velocity: Trial 104 (External)
Position (deg)
Velocity (deg/s)
Time (s)
0
-1
-2
-3
-4
-5
-6
200
100
0
-100
-200
-300
-400
0
0.1
0.2
0.3
0.4
0.5
0.6
0.7
0.8
0.9
1
Externally Filtered Position
Externally Filtered Velocity

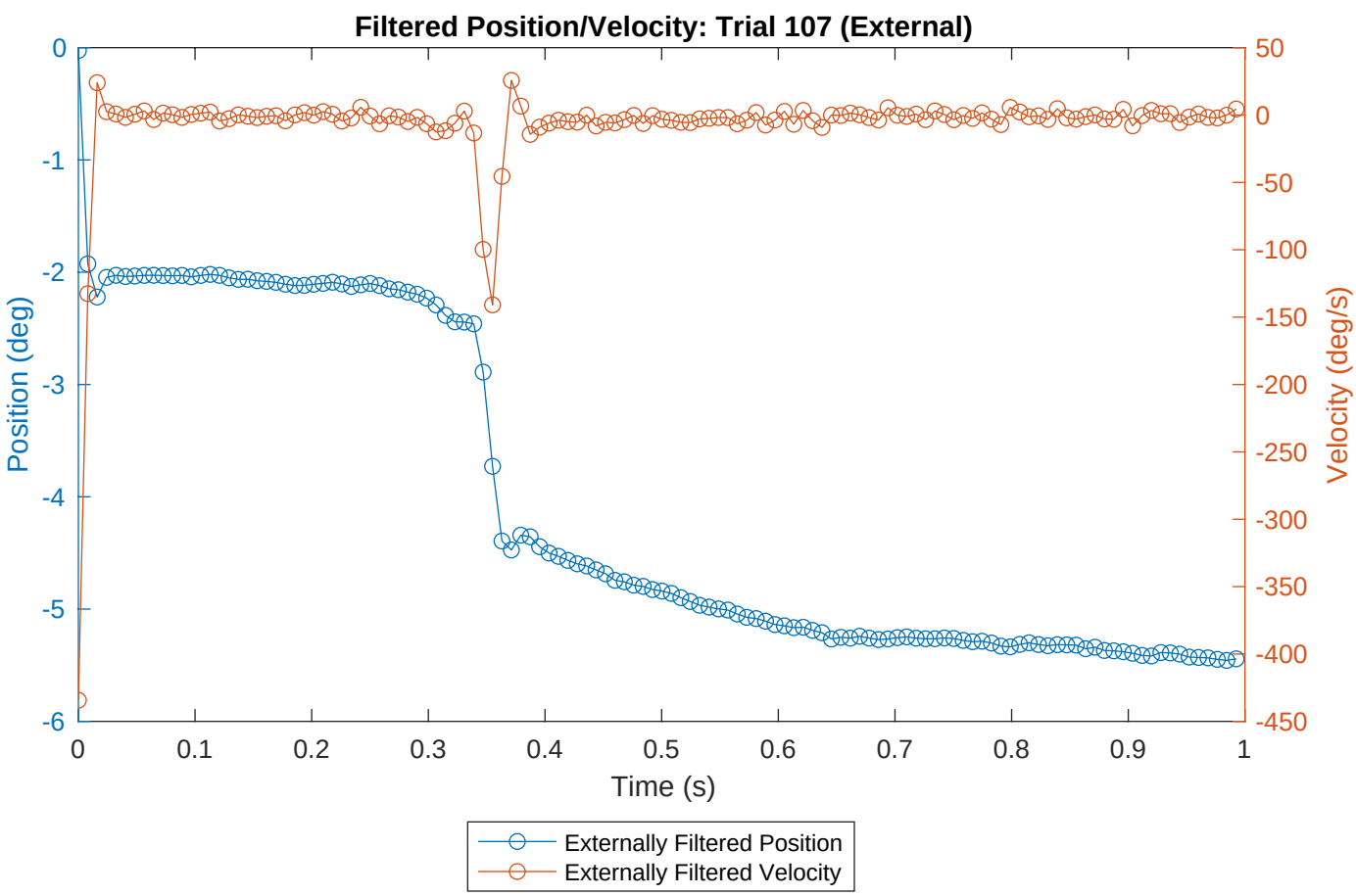

0
-0.5
-1
-1.5
-2
-2.5
Position (deg)
0
0.1
0.2
0.3
0.4
0.5
0.6
0.7
0.8
0.9
1
Time (s)

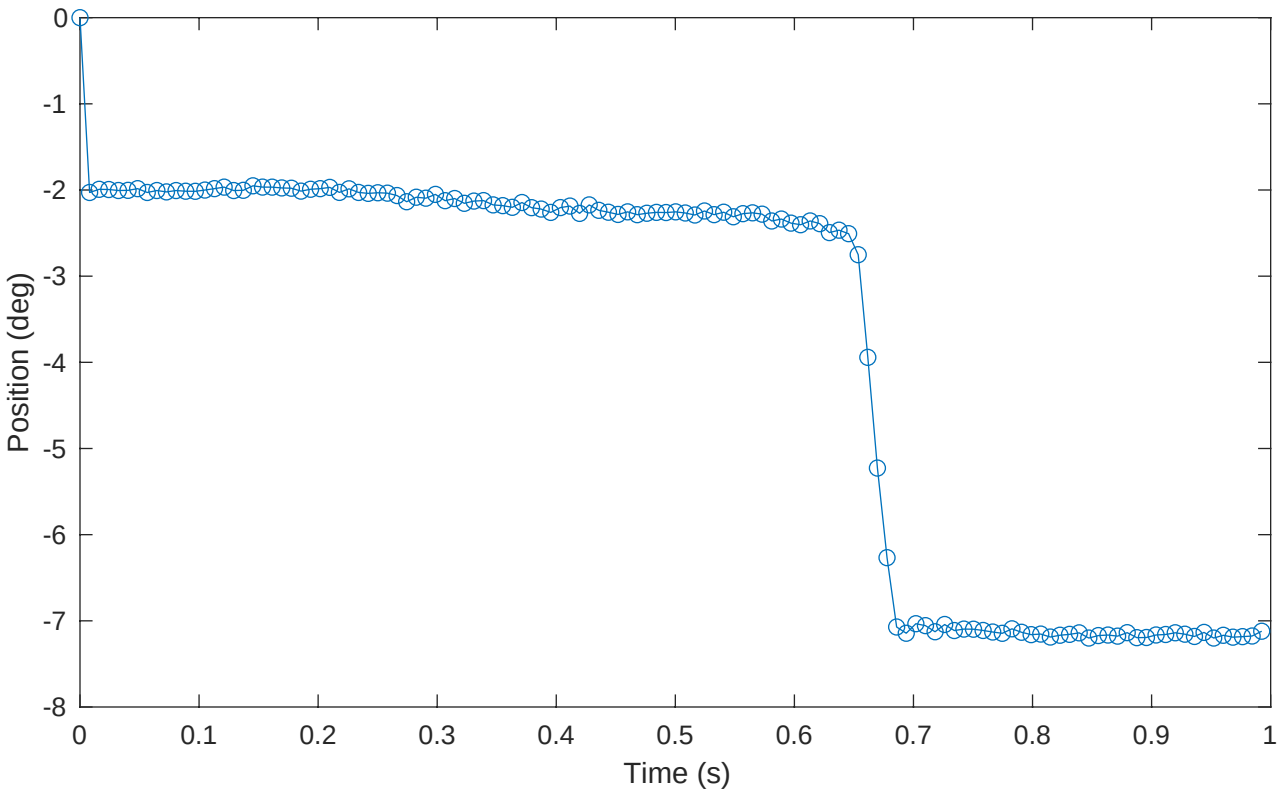

Filtered Position/Velocity: Trial 105 (External)
0
-0.5
-1
-1.5
-2
-2.5
Position (deg)
50
0
-50
-100
-150
-200
-250
-300
-350
-400
-450
Velocity (deg/s)
0
0.1
0.2
0.3
0.4
0.5
0.6
0.7
0.8
0.9
1
Time (s)
Externally Filtered Position
Externally Filtered Velocity

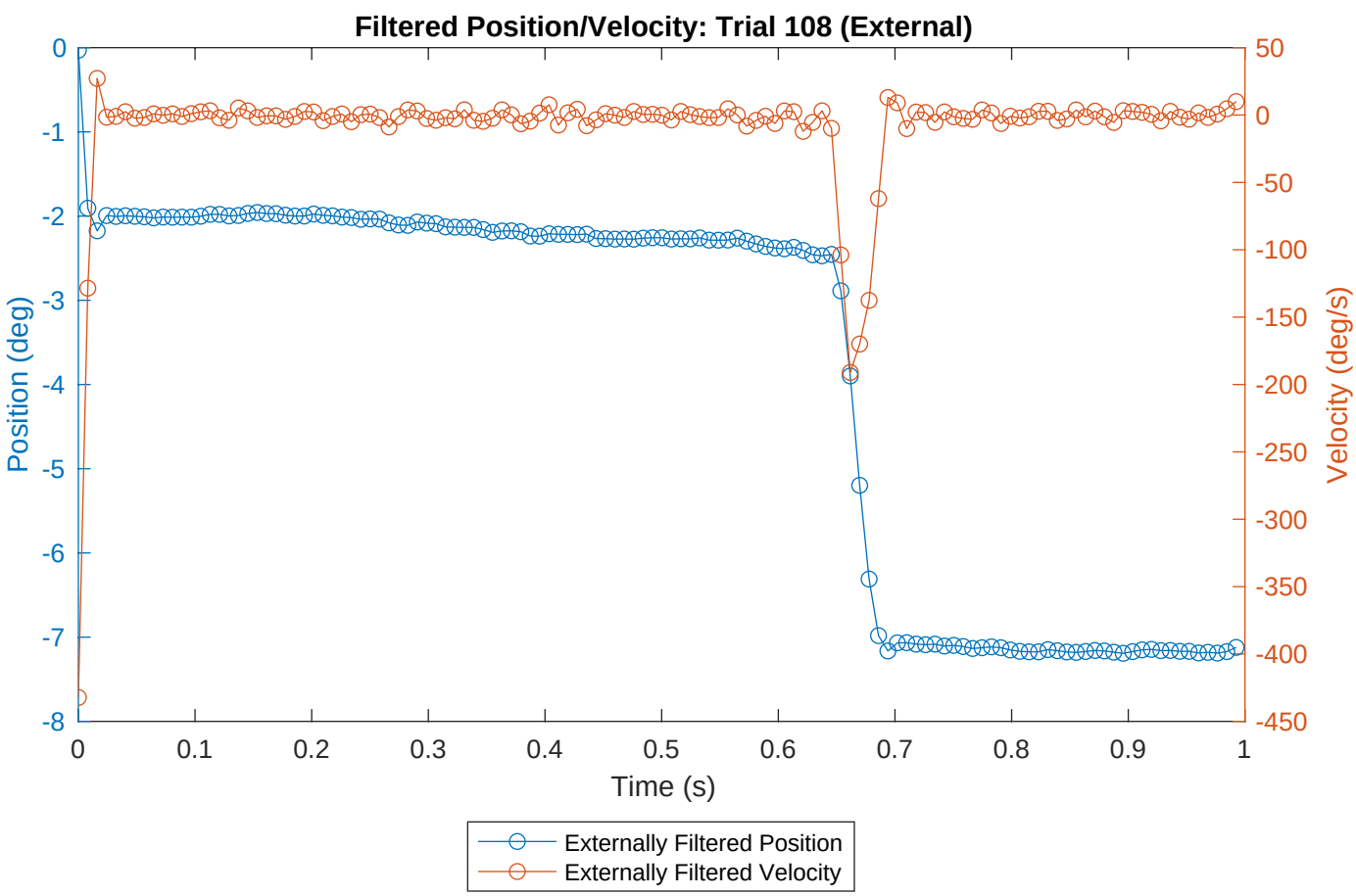

Position (deg)
Time (s)

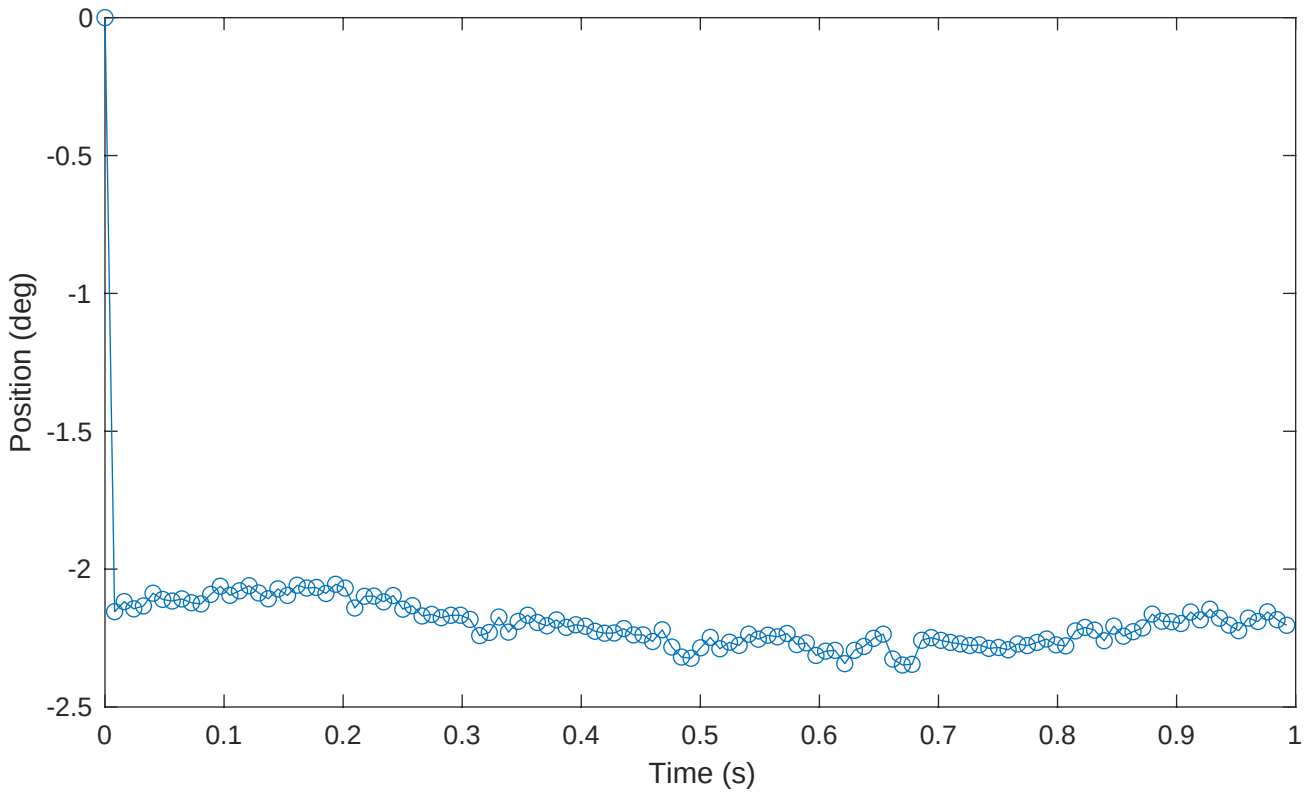

Filtered Position/Velocity: Trial 106 (External)
Position (deg)
Velocity (deg/s)
Time (s)
Externally Filtered Position
Externally Filtered Velocity

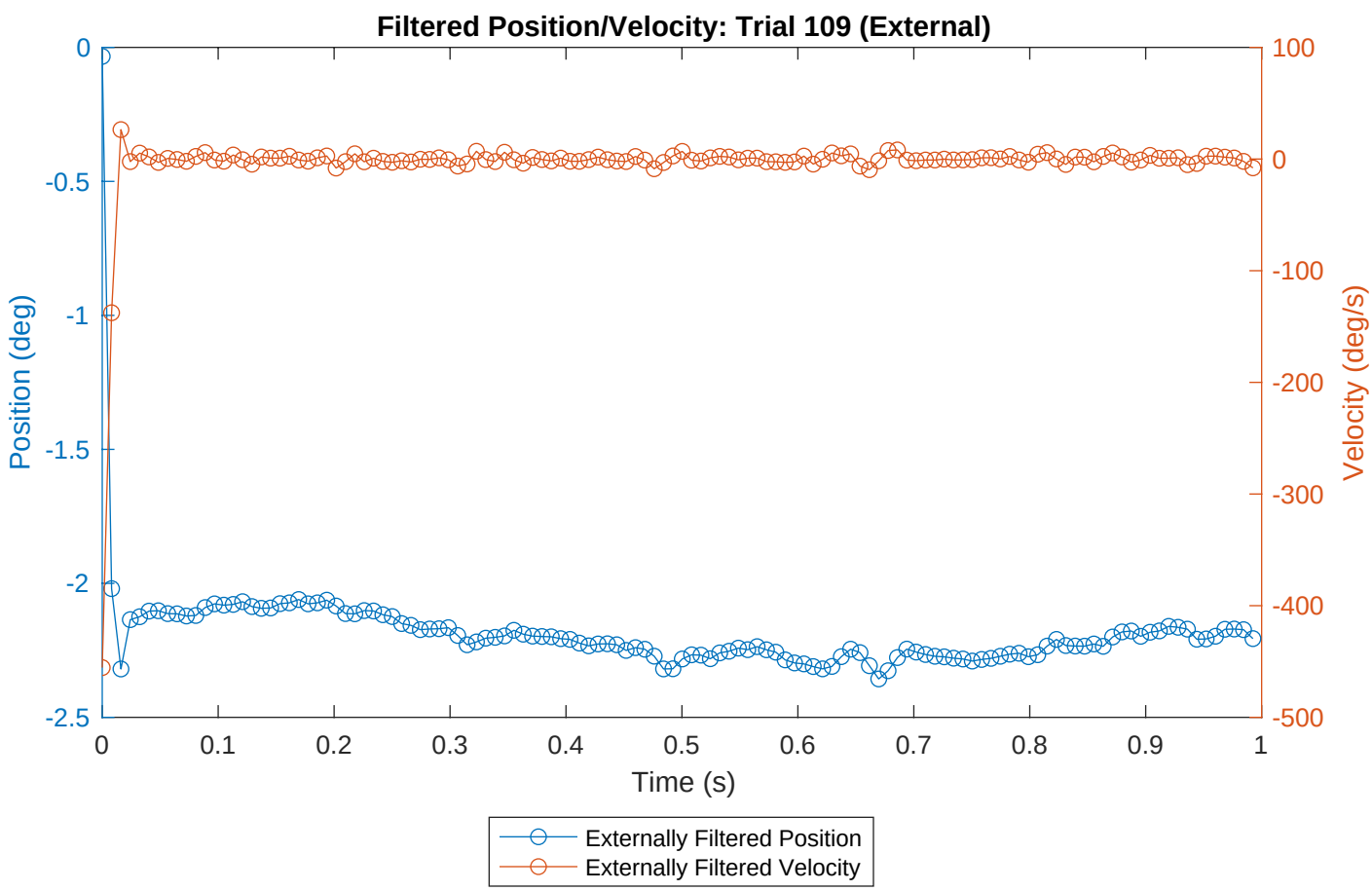

Position (deg)
Time (s)
0
-1
-2
-3
-4
-5
-6
0
0.1
0.2
0.3
0.4
0.5
0.6
0.7
0.8
0.9
1

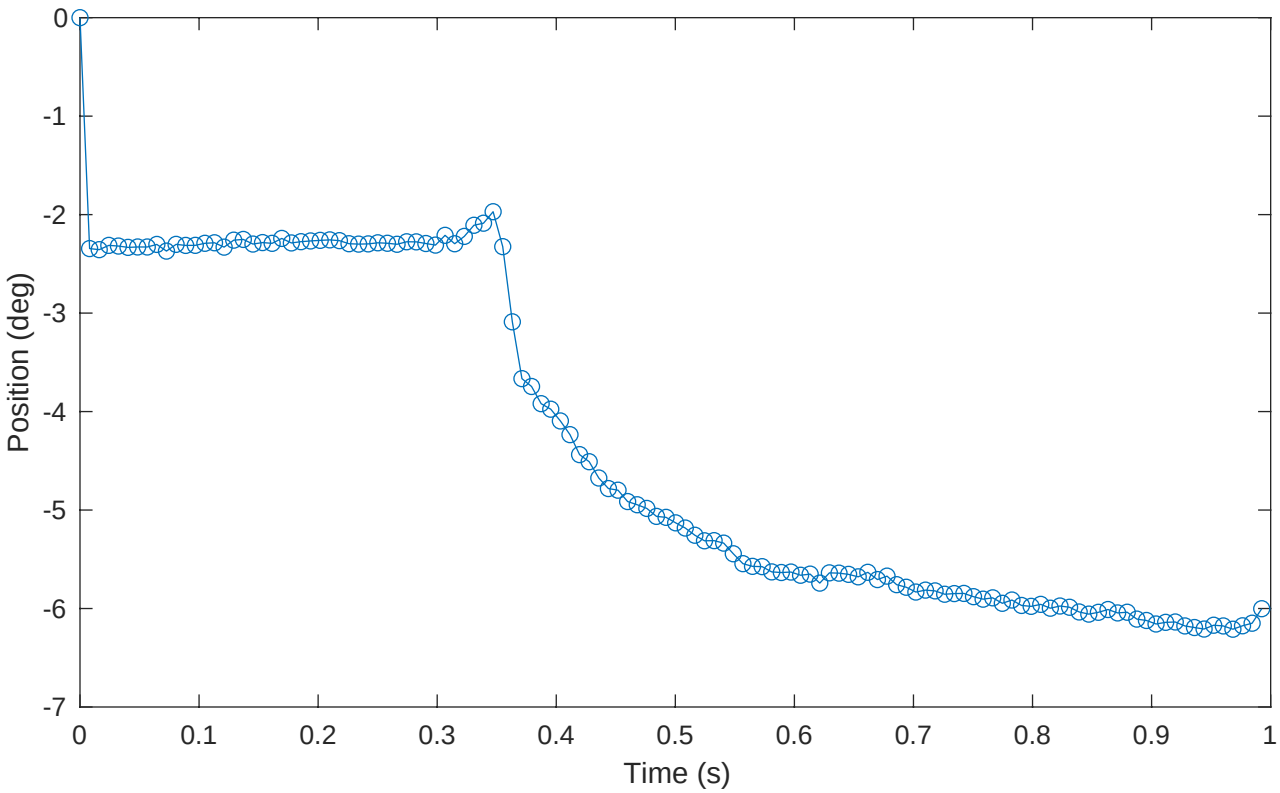

Filtered Position/Velocity: Trial 107 (External)
Position (deg)
Velocity (deg/s)
Time (s)
0
-1
-2
-3
-4
-5
-6
50
0
-50
-100
-150
-200
-250
-300
-350
-400
-450
0
0.1
0.2
0.3
0.4
0.5
0.6
0.7
0.8
0.9
1
Externally Filtered Position
Externally Filtered Velocity

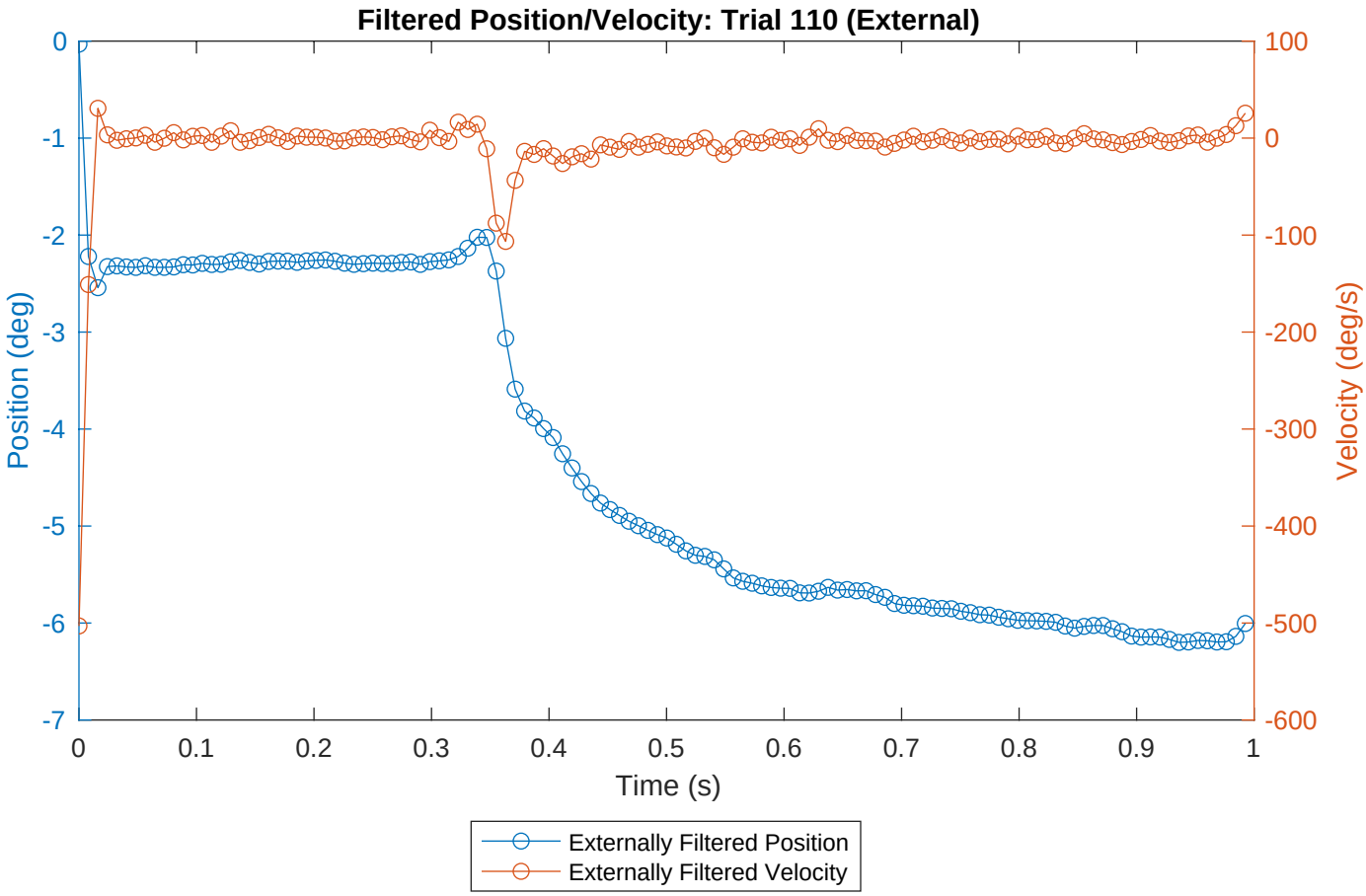

Position (deg)
Time (s)
0
-1
-2
-3
-4
-5
-6
-7
-8
0
0.1
0.2
0.3
0.4
0.5
0.6
0.7
0.8
0.9
1

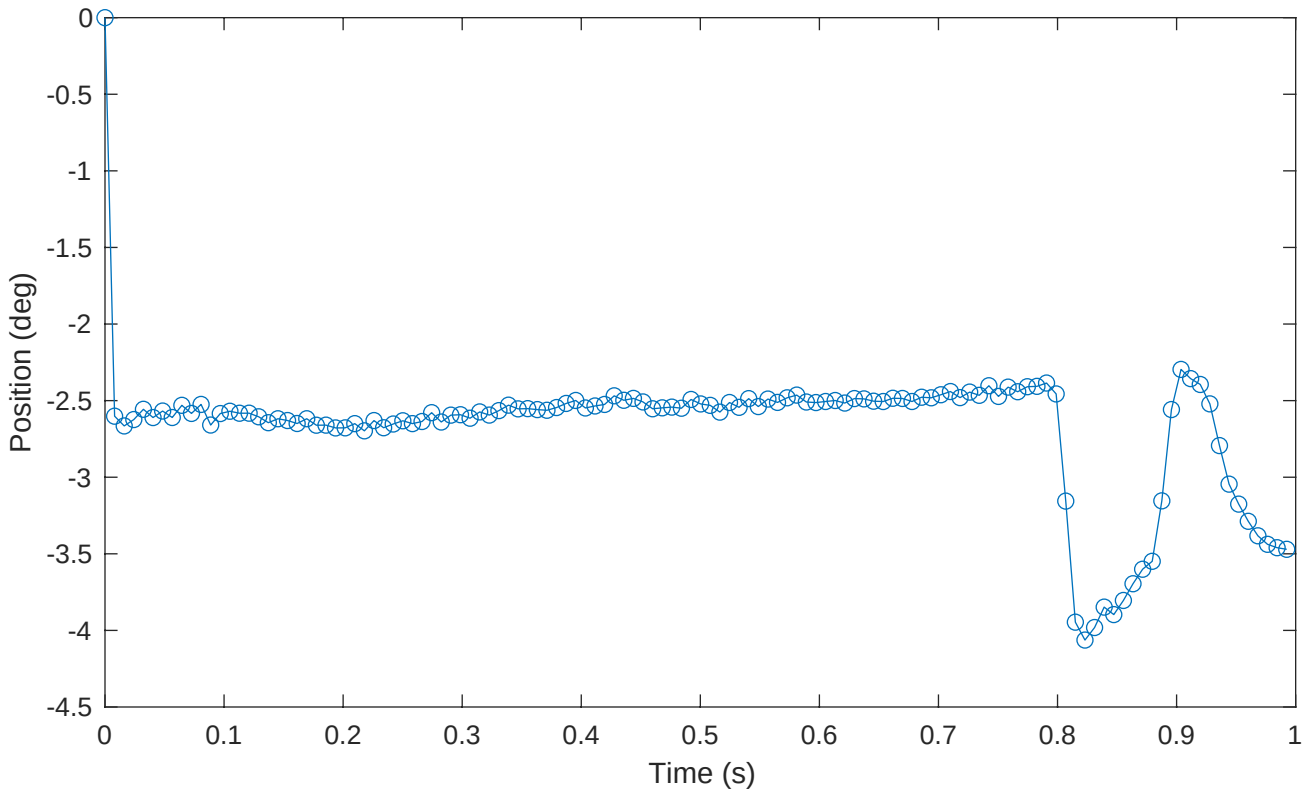

Filtered Position/Velocity: Trial 108 (External)
Position (deg)
Velocity (deg/s)
Time (s)
0
-1
-2
-3
-4
-5
-6
-7
-8
50
0
-50
-100
-150
-200
-250
-300
-350
-400
-450
0
0.1
0.2
0.3
0.4
0.5
0.6
0.7
0.8
0.9
1
Externally Filtered Position
Externally Filtered Velocity

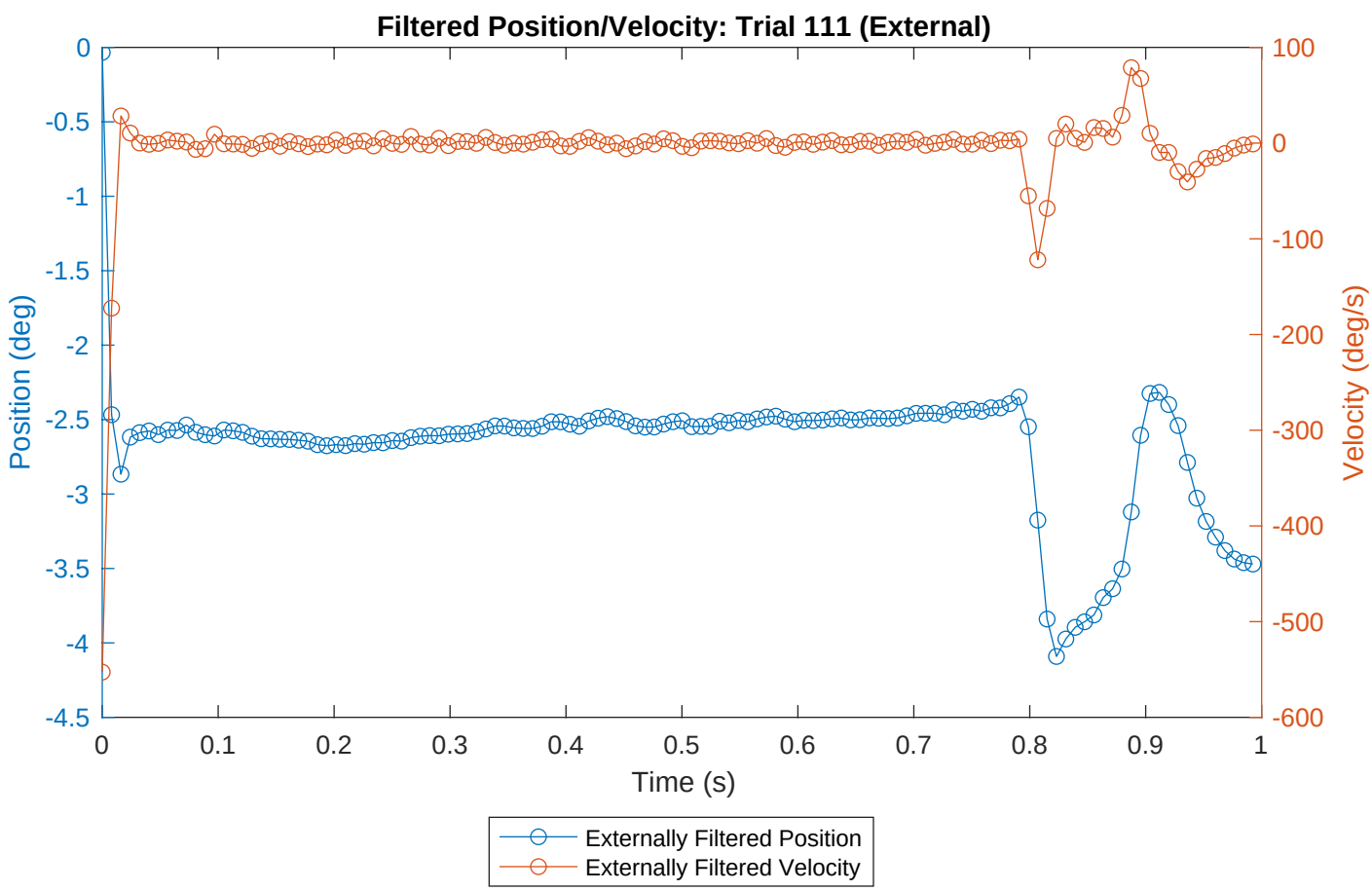

0
-0.5
-1
-1.5
-2
-2.5
Position (deg)
0
0.1
0.2
0.3
0.4
0.5
0.6
0.7
0.8
0.9
1
Time (s)

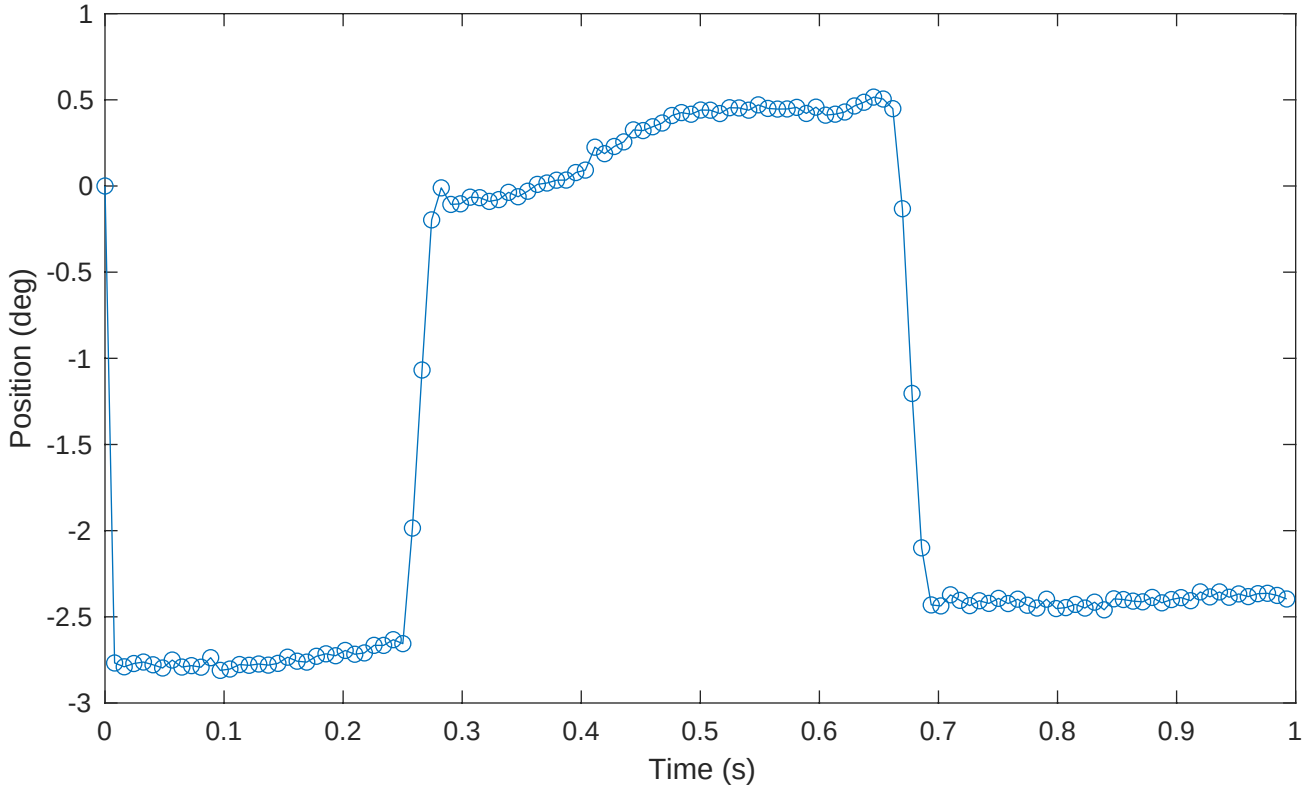

Filtered Position/Velocity: Trial 109 (External)
0
-0.5
-1
-1.5
-2
-2.5
Position (deg)
100
0
-100
-200
-300
-400
-500
Velocity (deg/s)
0
0.1
0.2
0.3
0.4
0.5
0.6
0.7
0.8
0.9
1
Time (s)
Externally Filtered Position
Externally Filtered Velocity

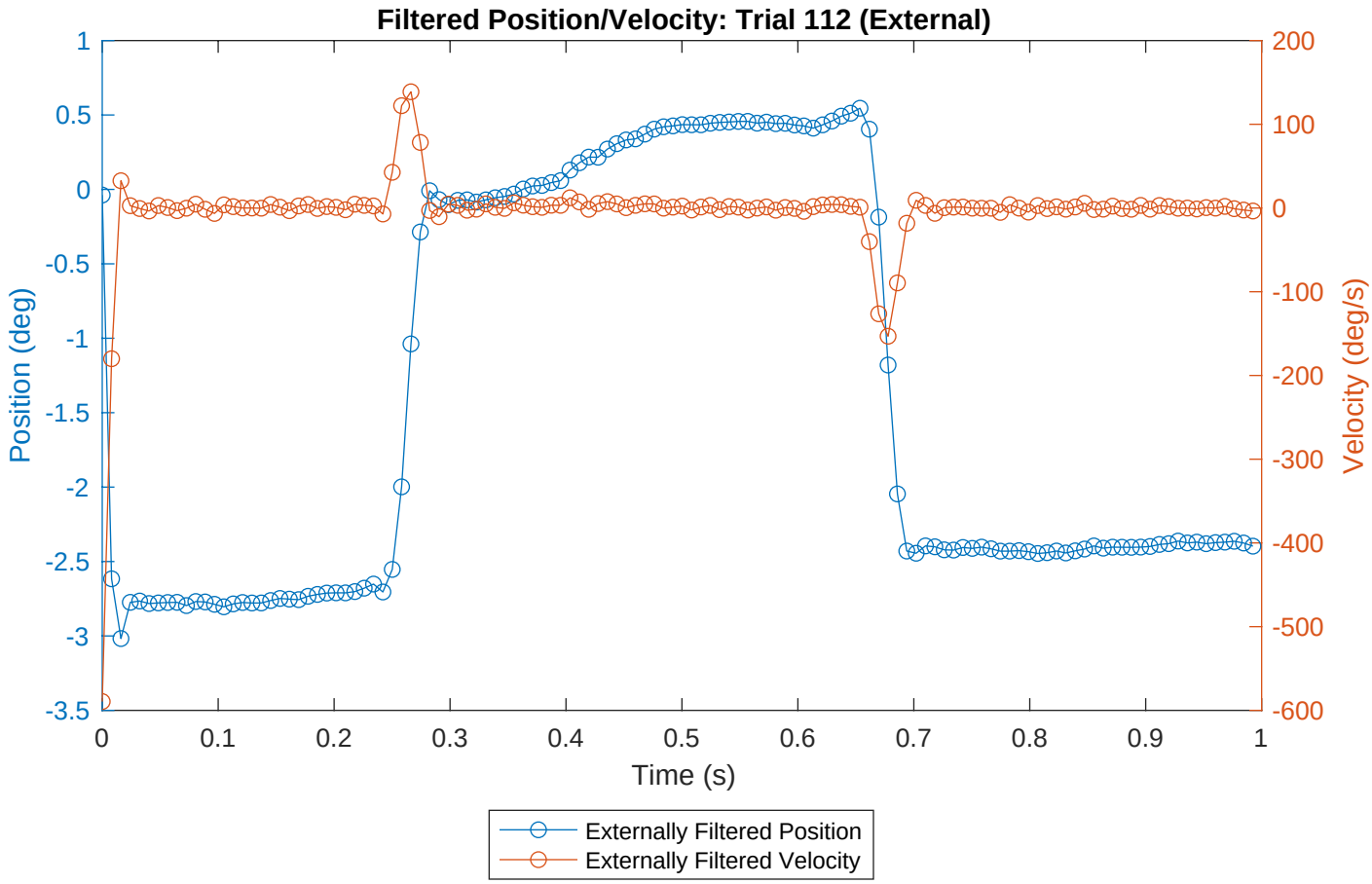

Position (deg)
Time (s)

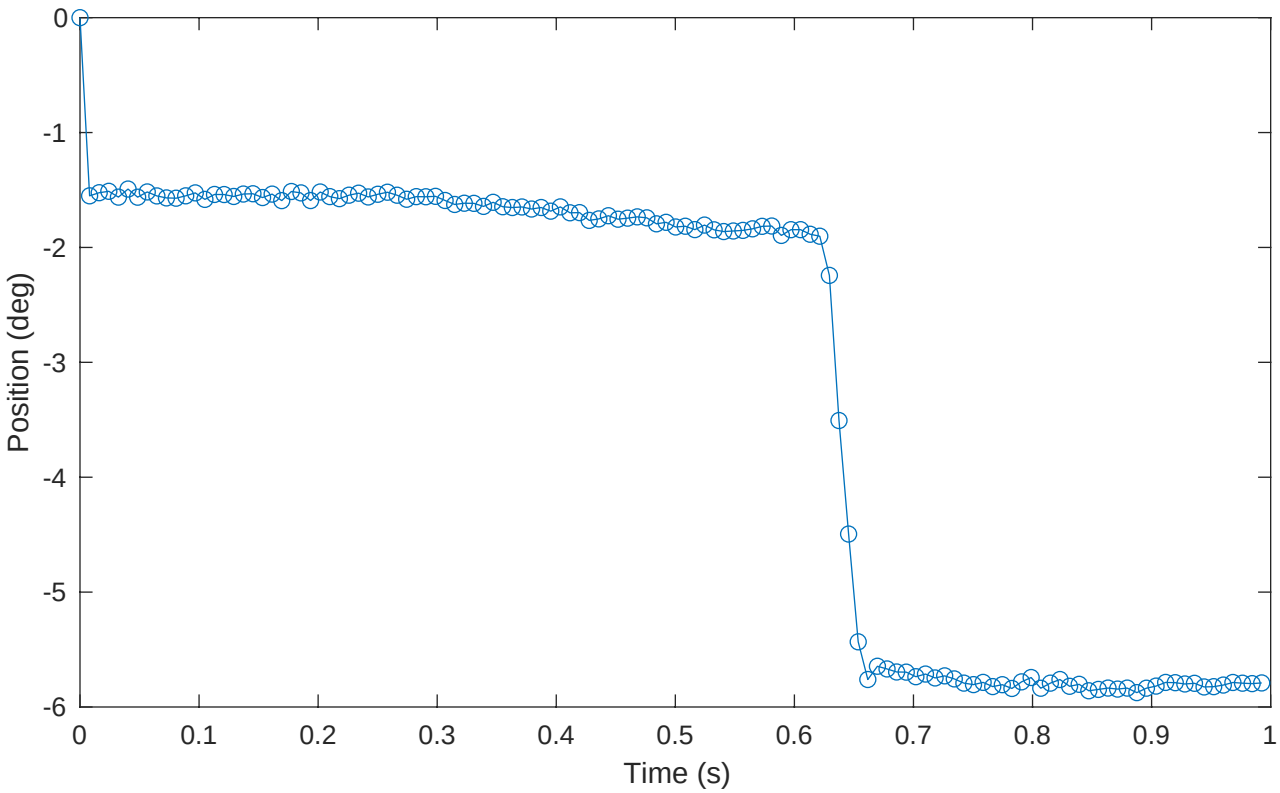

Filtered Position/Velocity: Trial 110 (External)
Position (deg)
Velocity (deg/s)
Time (s)
Externally Filtered Position
Externally Filtered Velocity

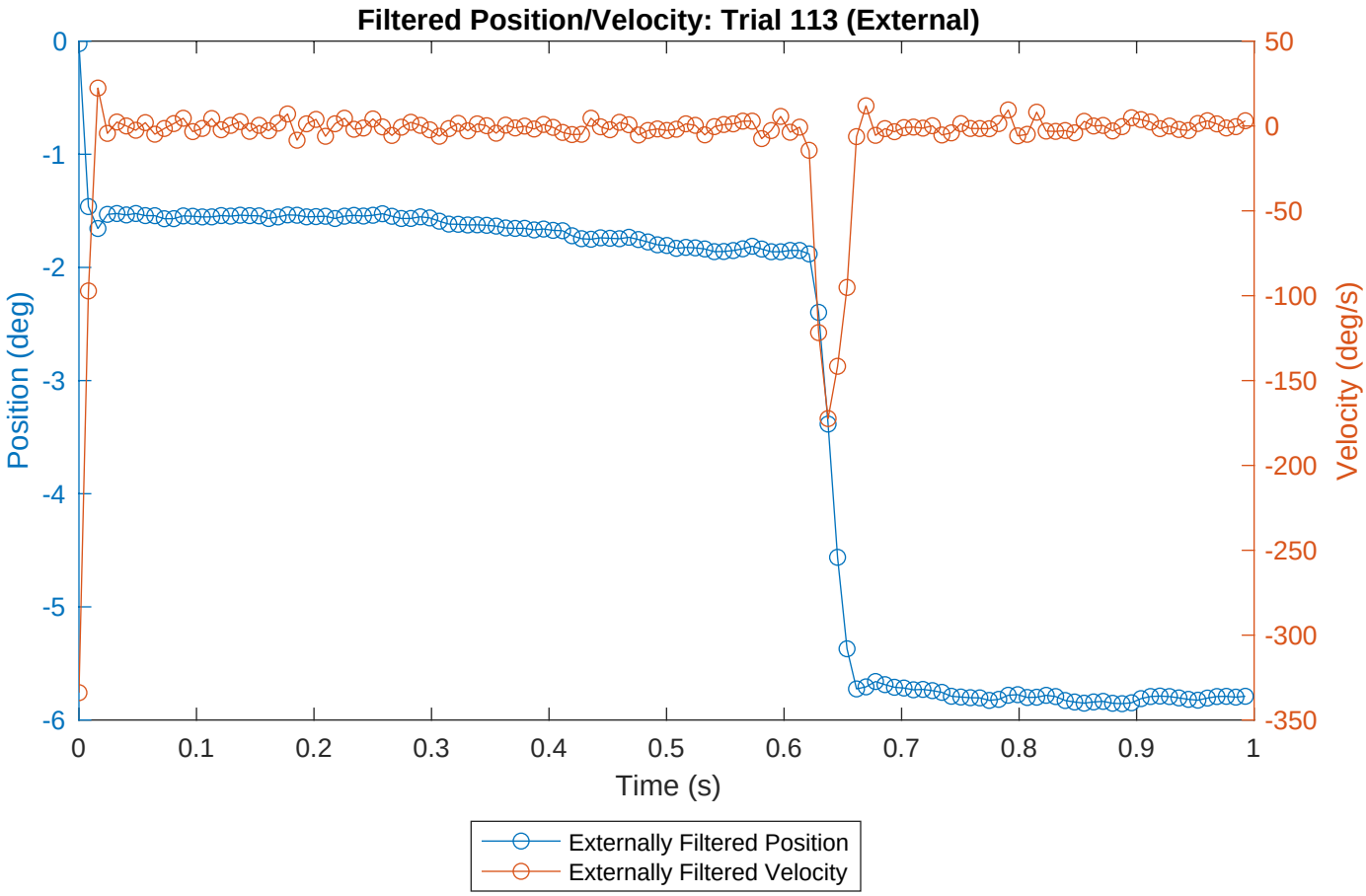

Position (deg)
Time (s)

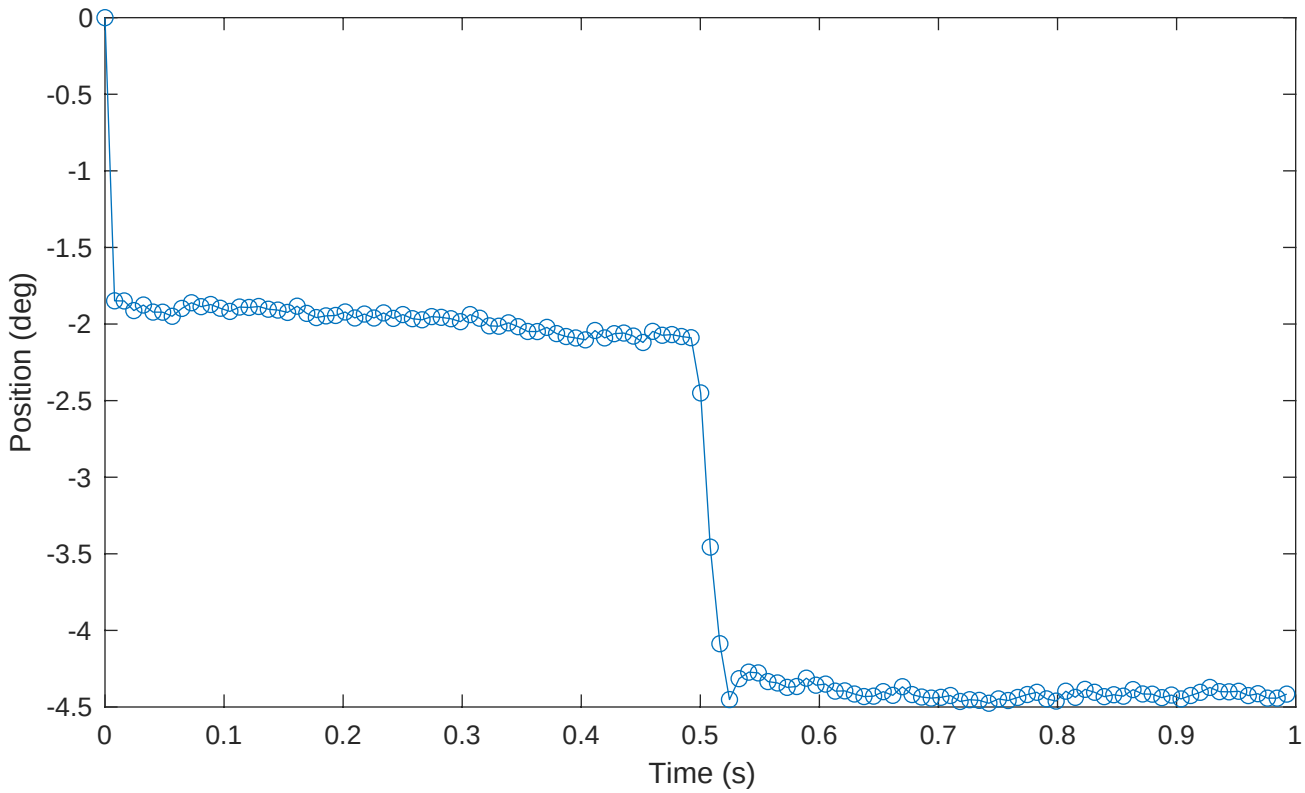

Filtered Position/Velocity: Trial 111 (External)
Position (deg)
Velocity (deg/s)
Time (s)
Externally Filtered Position
Externally Filtered Velocity

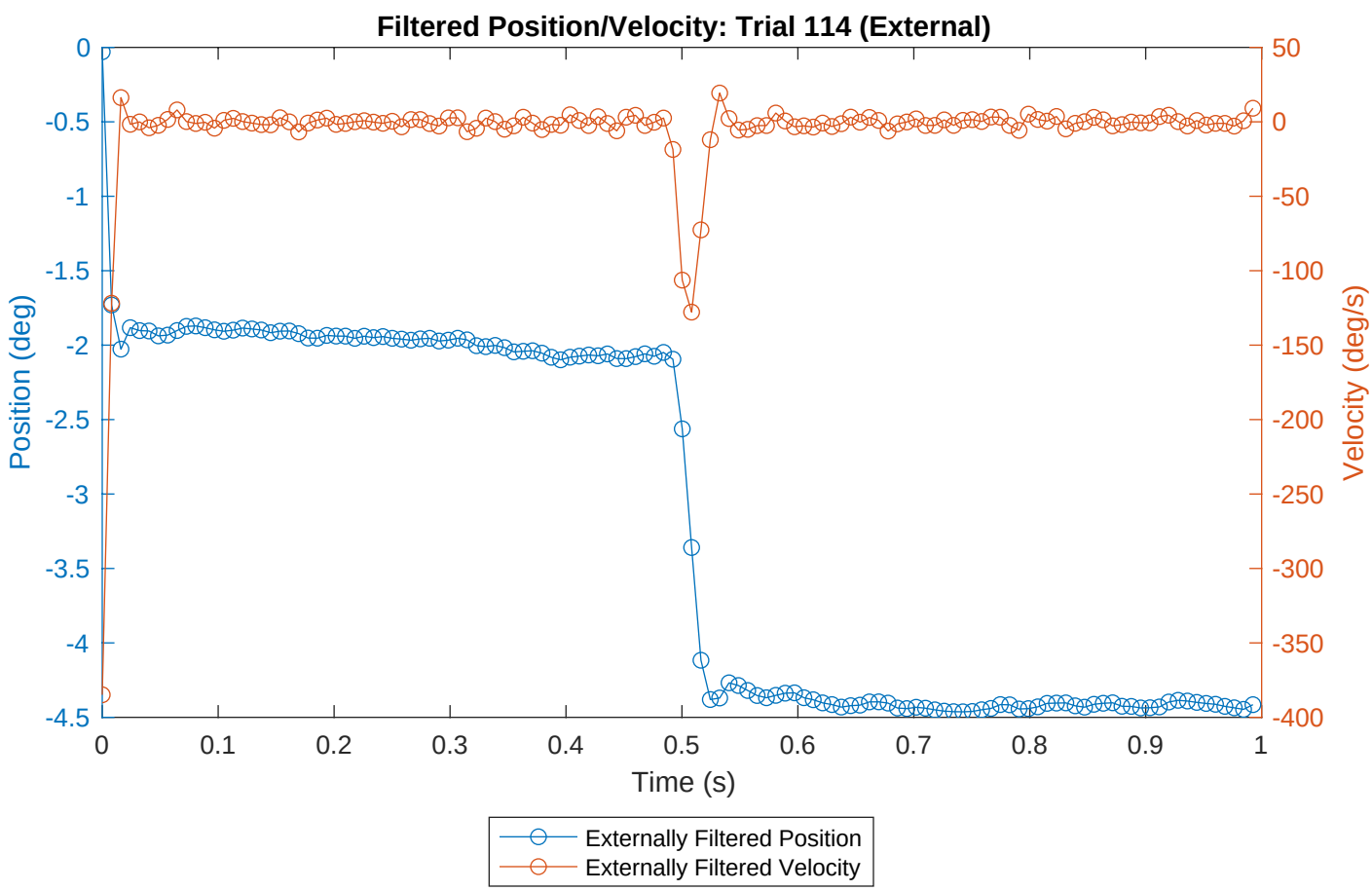

Position (deg)
Time (s)

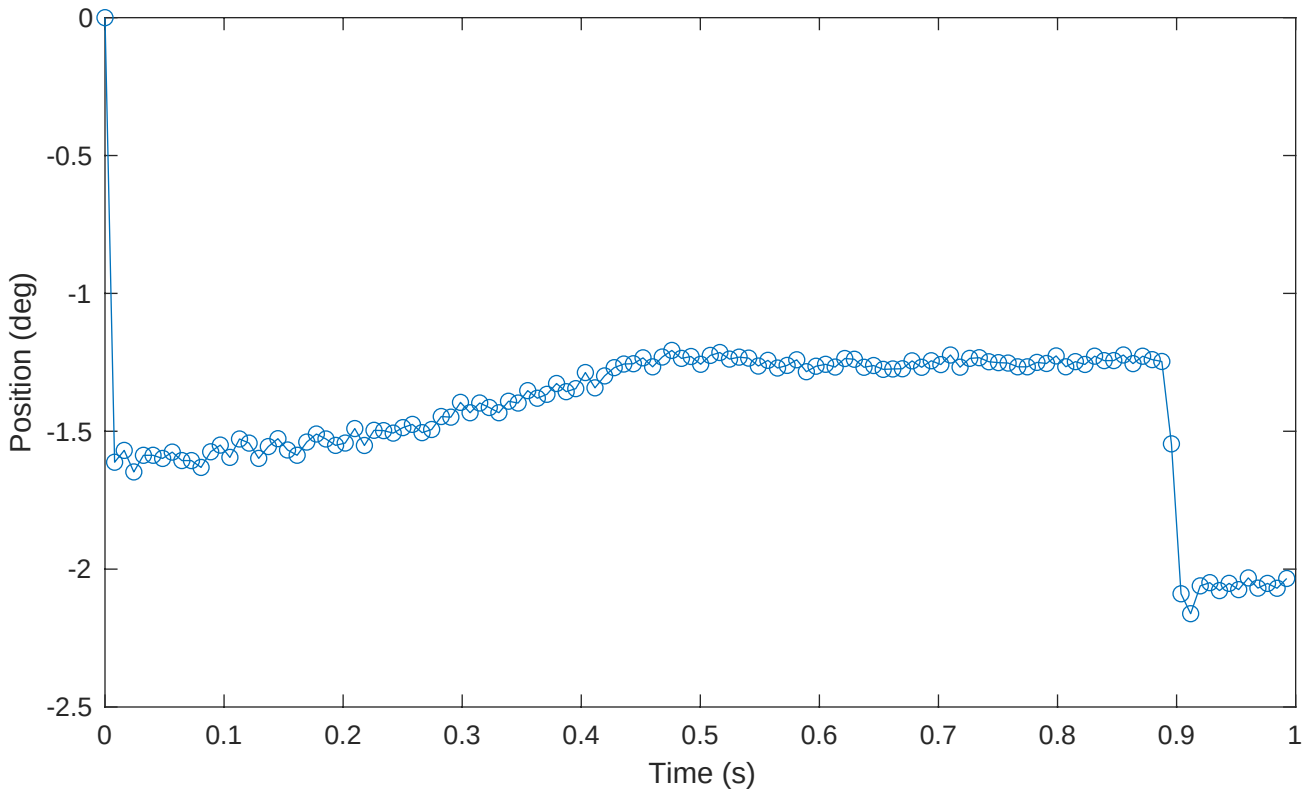

Filtered Position/Velocity: Trial 112 (External)
Position (deg)
Velocity (deg/s)
Time (s)
Externally Filtered Position
Externally Filtered Velocity

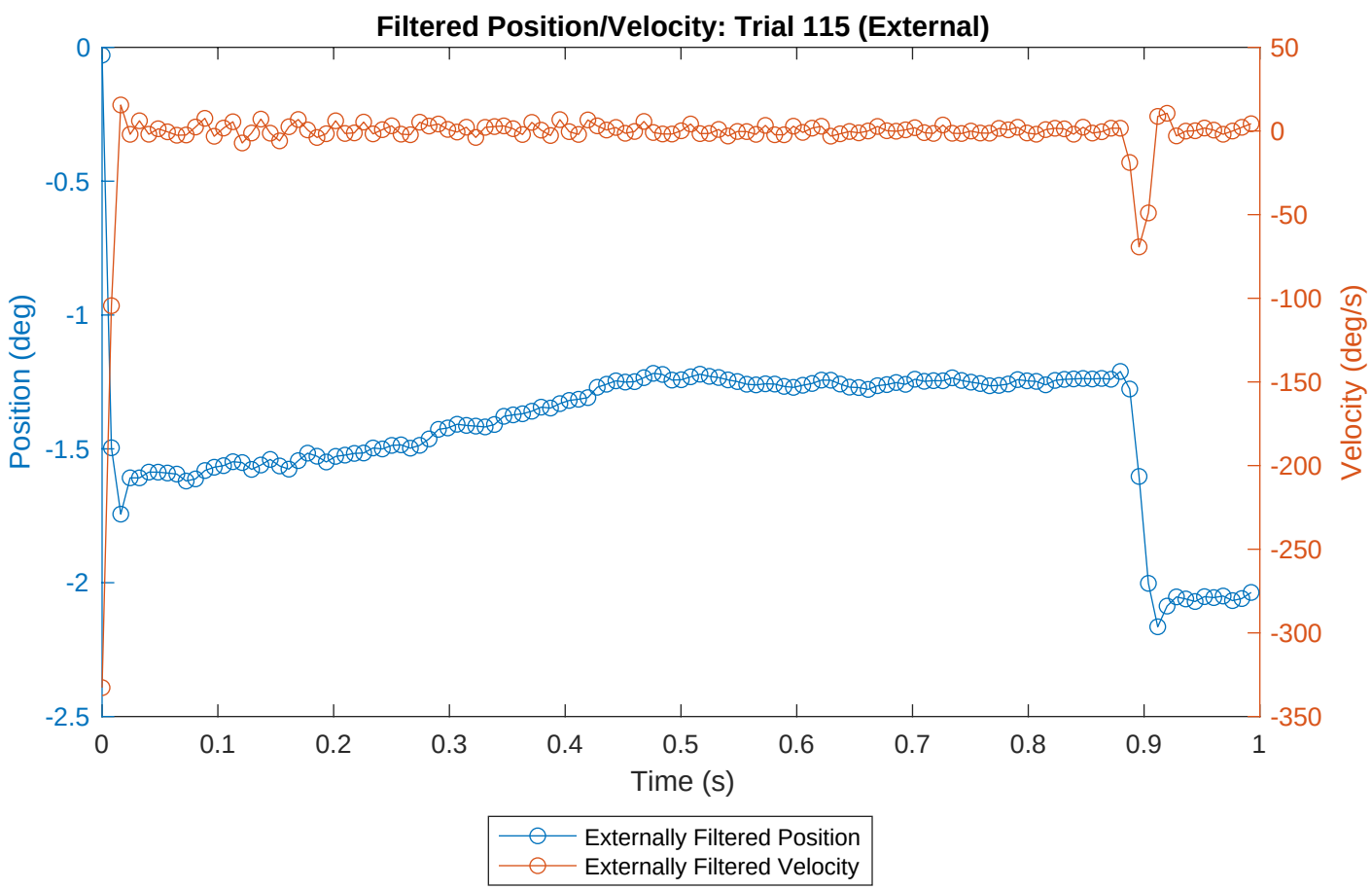

Position (deg)
Time (s)

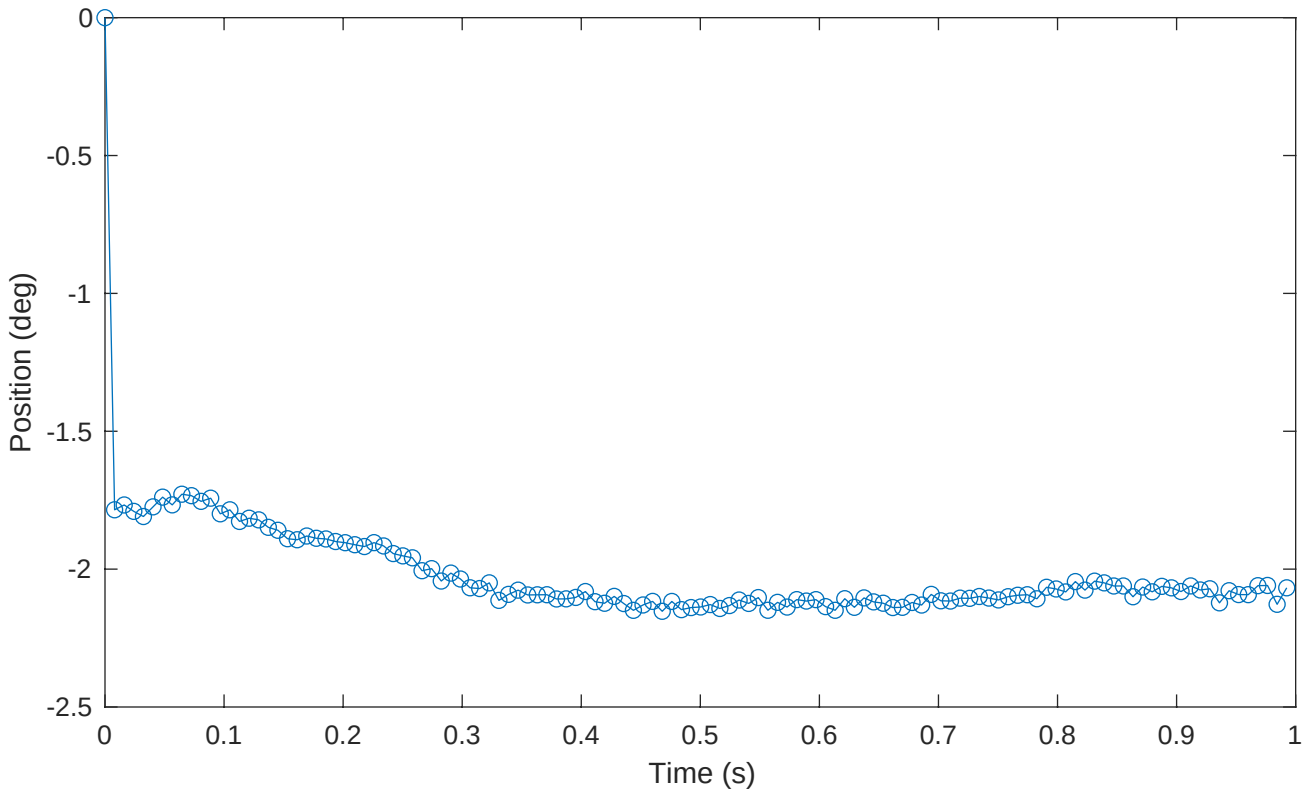

Filtered Position/Velocity: Trial 113 (External)
Position (deg)
Velocity (deg/s)
Time (s)
Externally Filtered Position
Externally Filtered Velocity

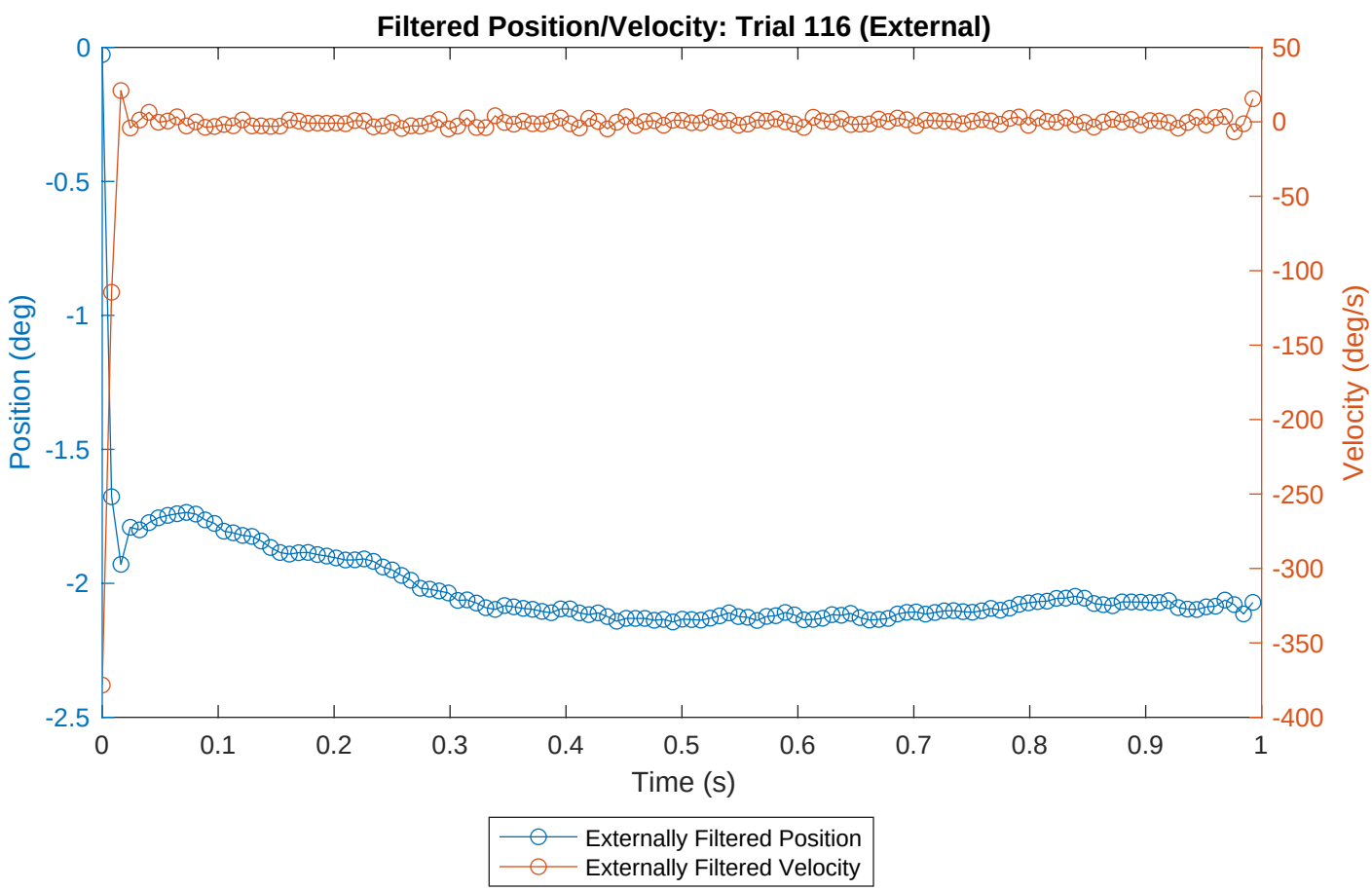

Position (deg)
Time (s)

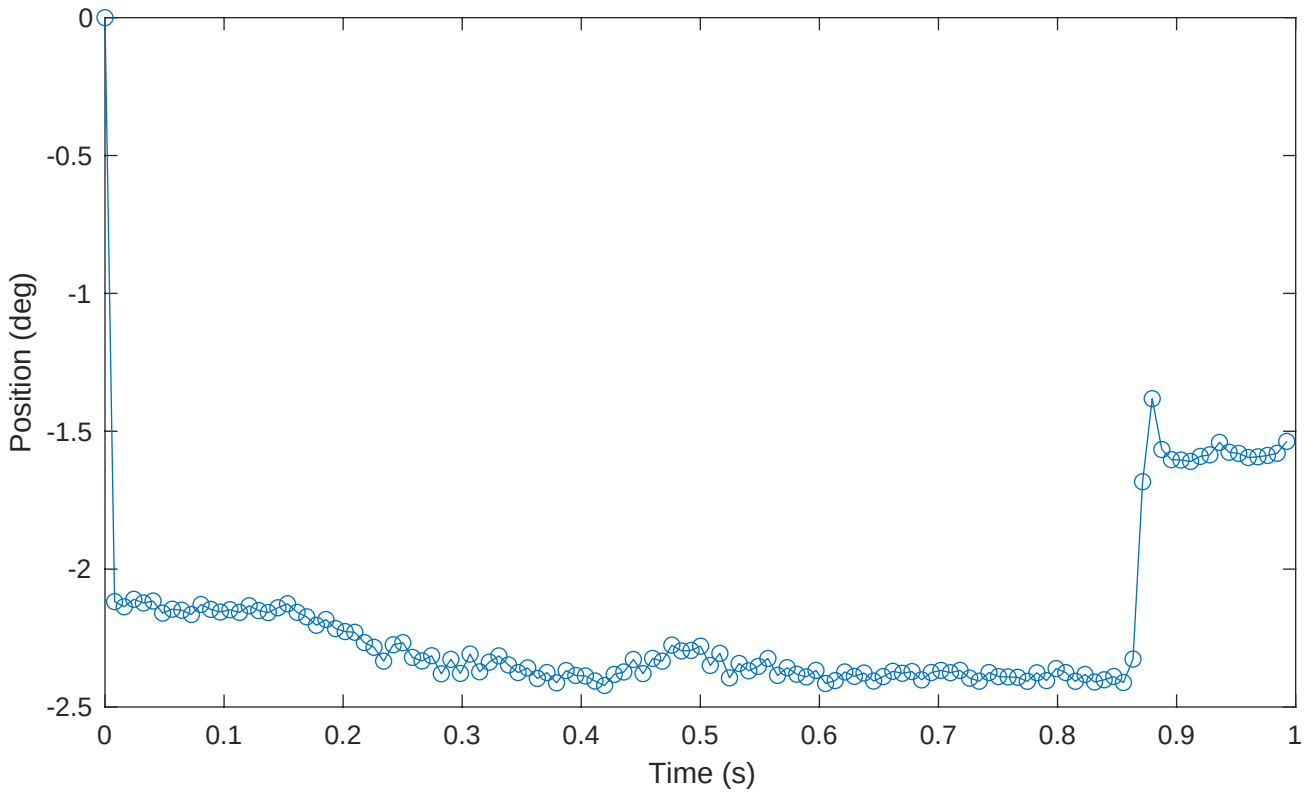

Filtered Position/Velocity: Trial 114 (External)
Position (deg)
Velocity (deg/s)
Time (s)
Externally Filtered Position
Externally Filtered Velocity

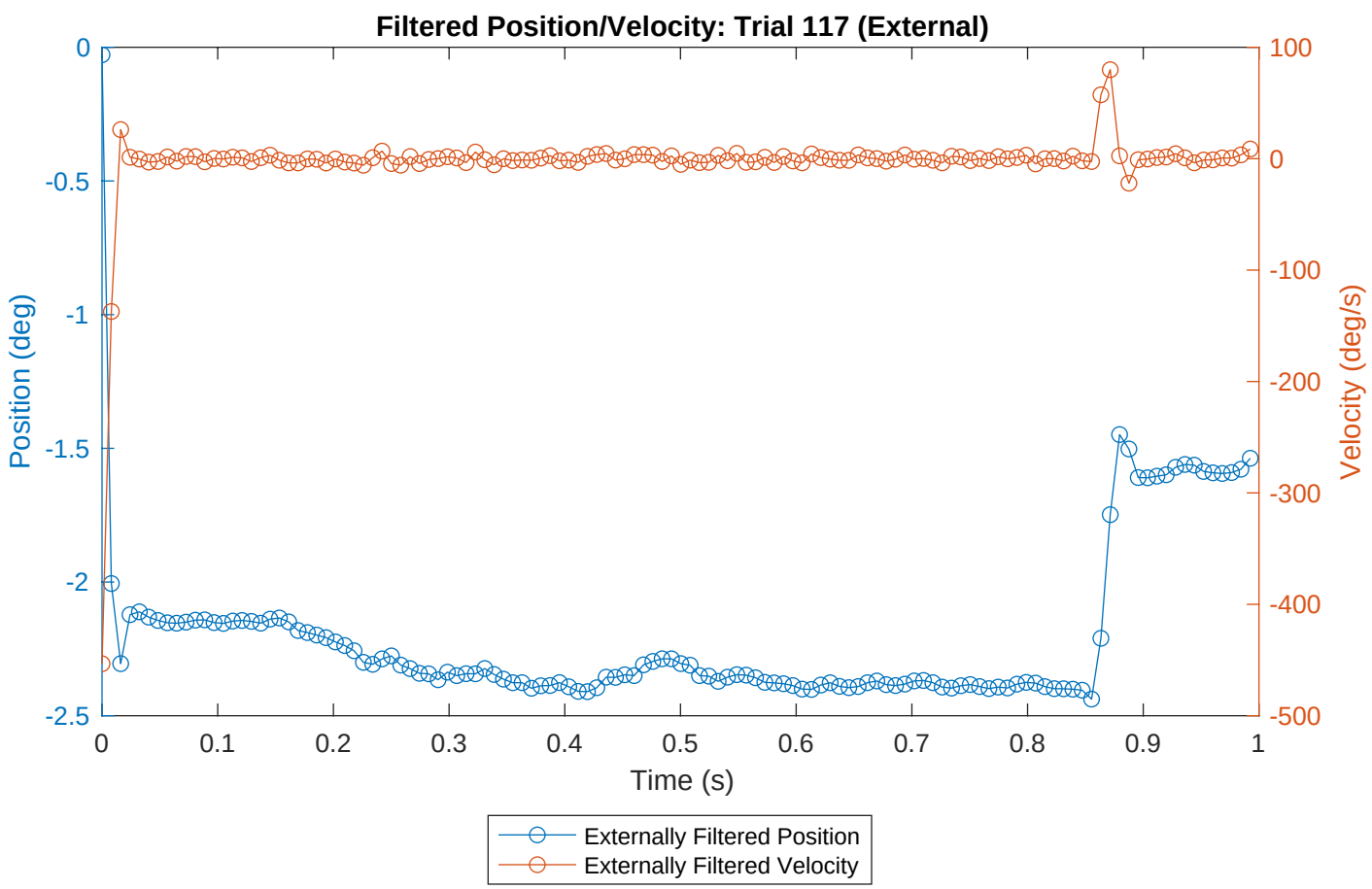

Position (deg)
Time (s)
0
-0.5
-1
-1.5
-2
-2.5
0
0.1
0.2
0.3
0.4
0.5
0.6
0.7
0.8
0.9
1

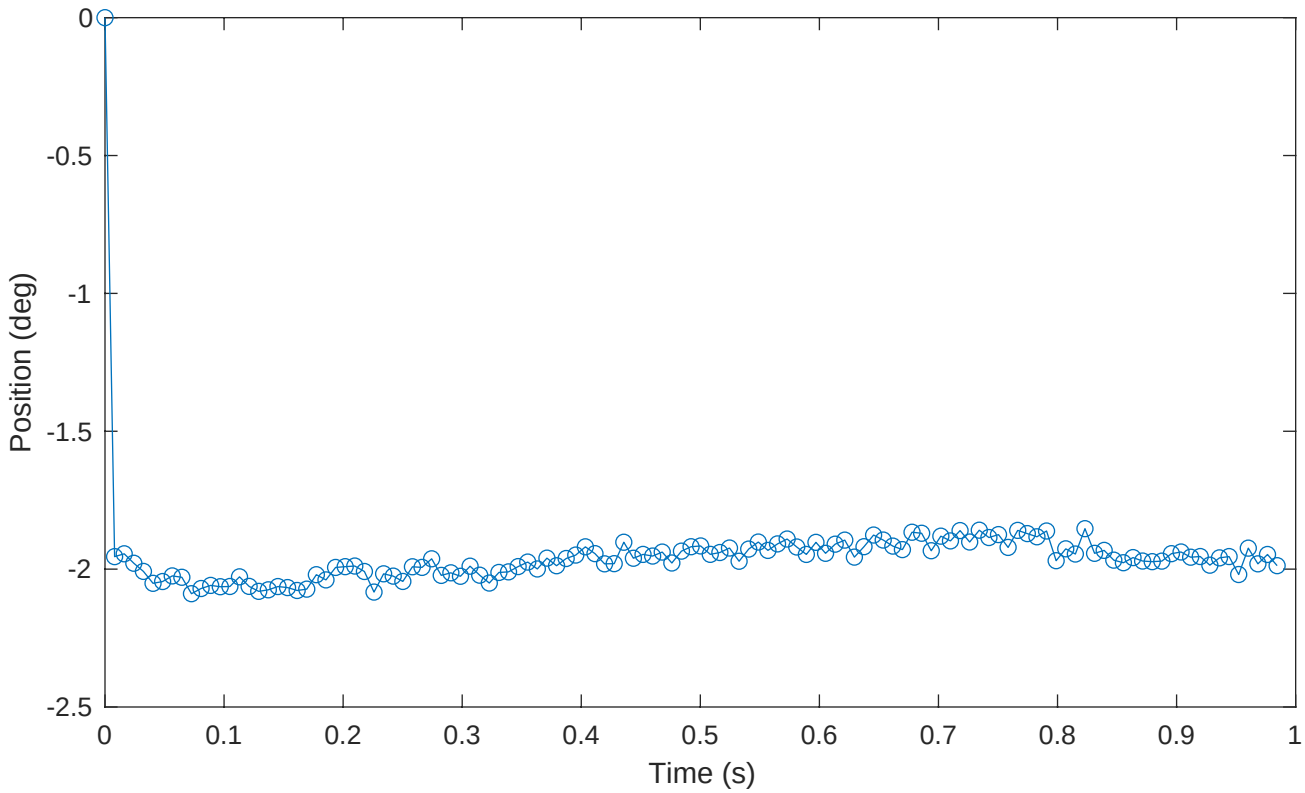

Filtered Position/Velocity: Trial 115 (External)
Position (deg)
Velocity (deg/s)
Time (s)
0
-0.5
-1
-1.5
-2
-2.5
50
0
-50
-100
-150
-200
-250
-300
-350
0
0.1
0.2
0.3
0.4
0.5
0.6
0.7
0.8
0.9
1
Externally Filtered Position
Externally Filtered Velocity

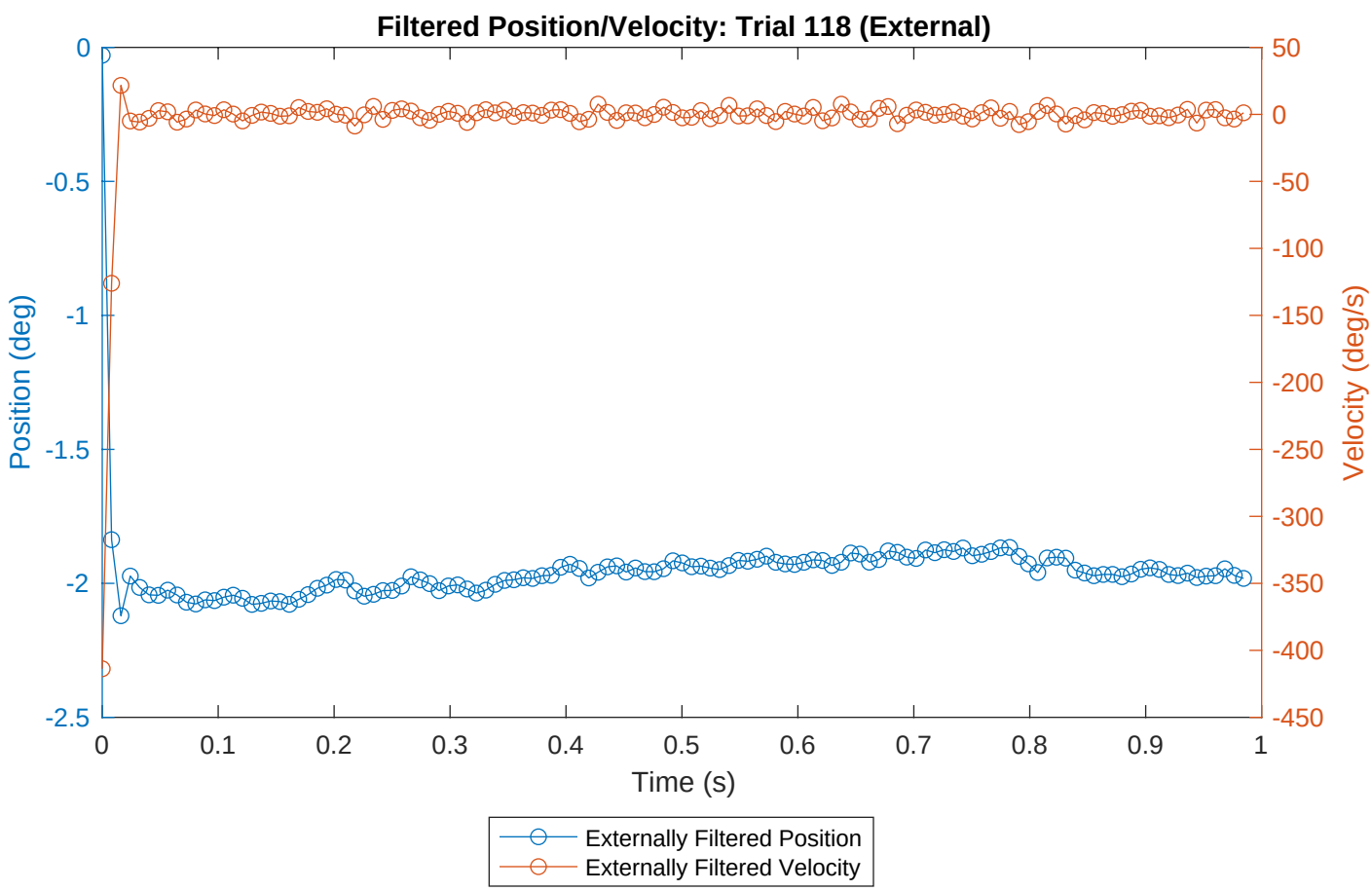

0
-0.5
-1
-1.5
-2
-2.5
Position (deg)
0
0.1
0.2
0.3
0.4
0.5
0.6
0.7
0.8
0.9
1
Time (s)

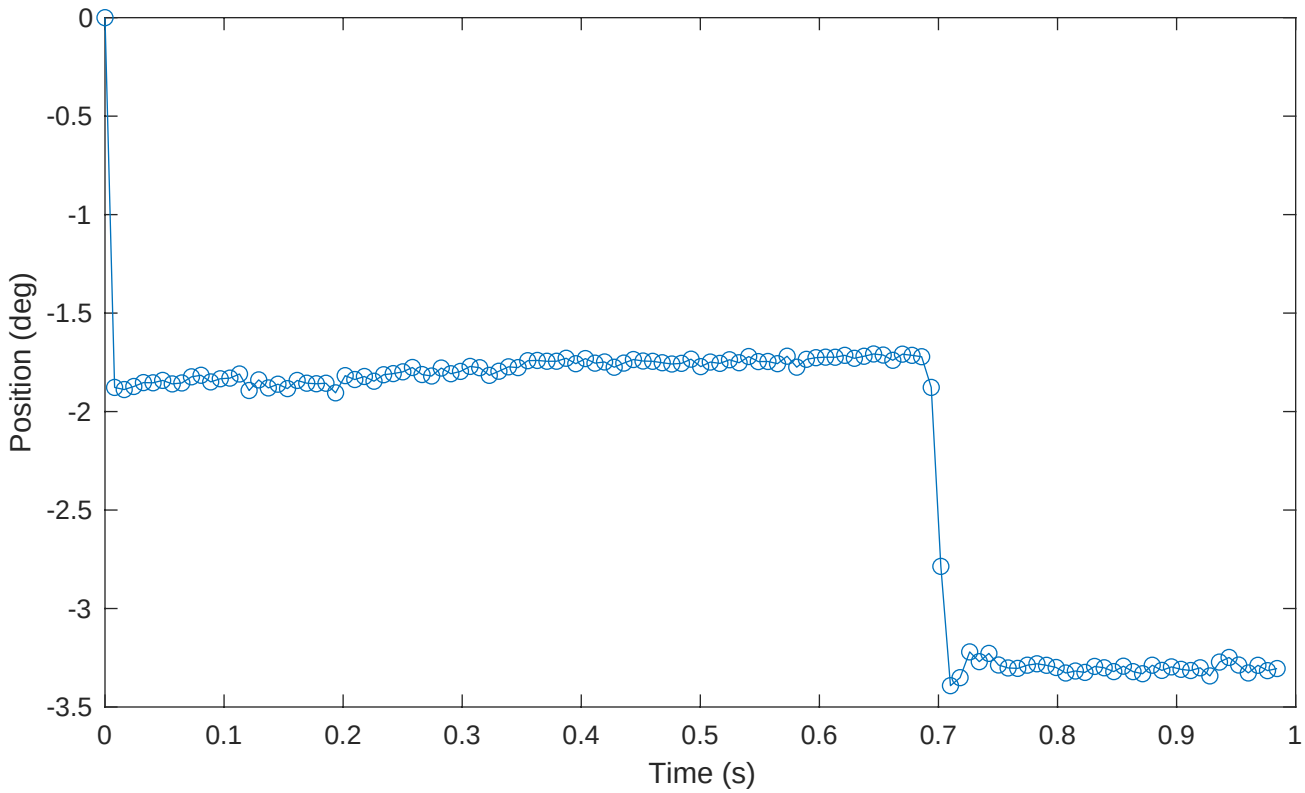

Filtered Position/Velocity: Trial 116 (External)
0
-0.5
-1
-1.5
-2
-2.5
Position (deg)
50
0
-50
-100
-150
-200
-250
-300
-350
-400
Velocity (deg/s)
0
0.1
0.2
0.3
0.4
0.5
0.6
0.7
0.8
0.9
1
Time (s)
Externally Filtered Position
Externally Filtered Velocity

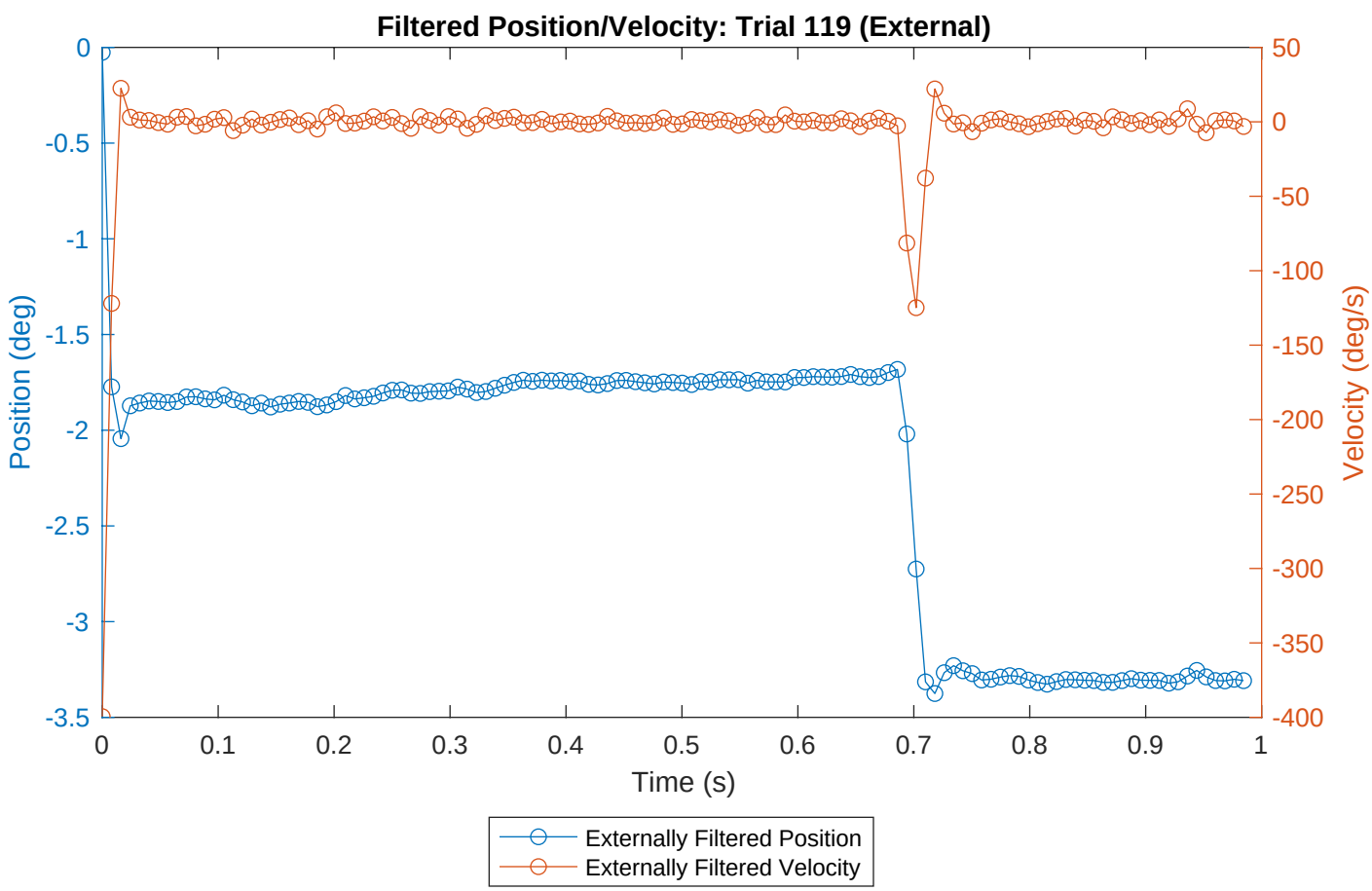

0
-0.5
-1
-1.5
-2
-2.5
Position (deg)
0
0.1
0.2
0.3
0.4
0.5
0.6
0.7
0.8
0.9
1
Time (s)

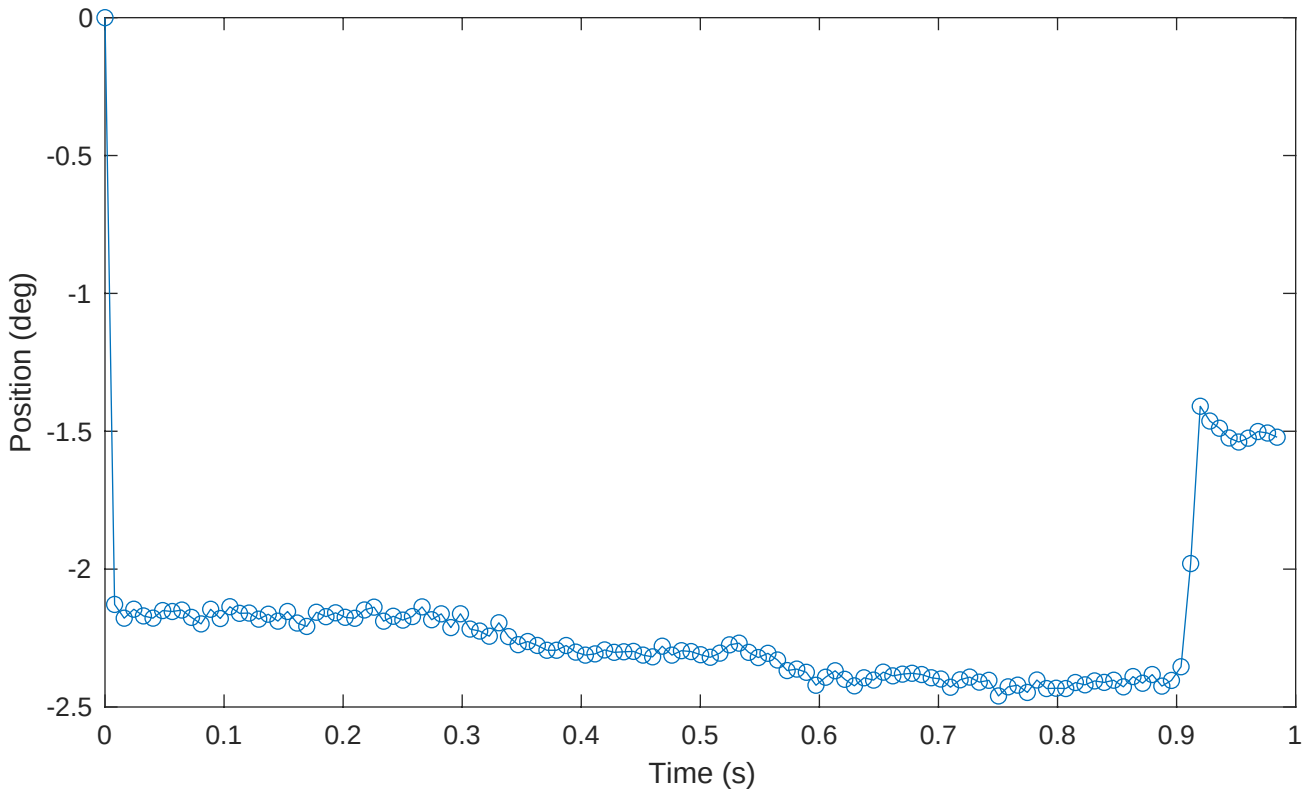

Filtered Position/Velocity: Trial 117 (External)
0
-0.5
-1
-1.5
-2
-2.5
Position (deg)
100
0
-100
-200
-300
-400
-500
Velocity (deg/s)
0
0.1
0.2
0.3
0.4
0.5
0.6
0.7
0.8
0.9
1
Time (s)
Externally Filtered Position
Externally Filtered Velocity

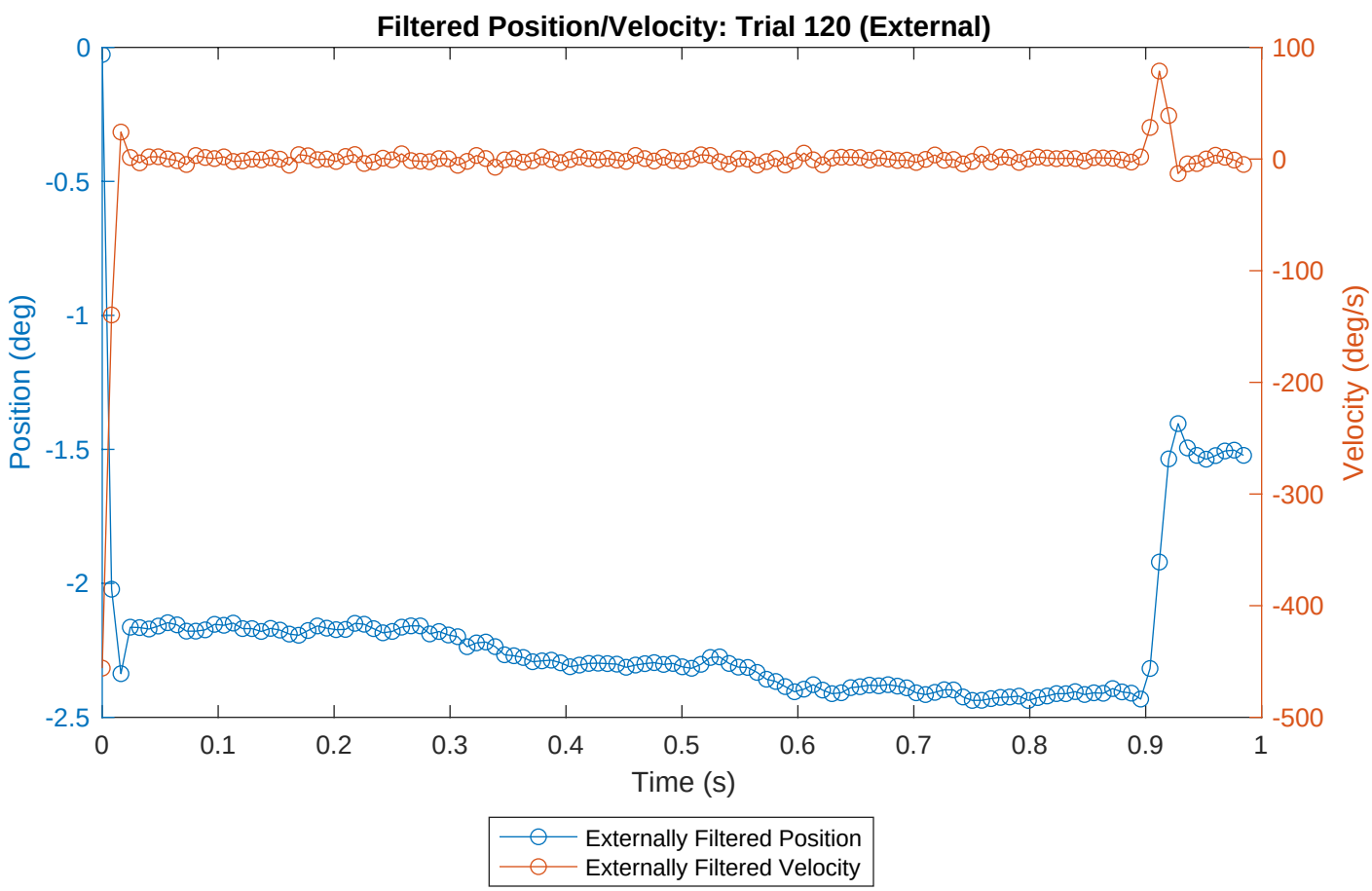

0
-0.5
-1
-1.5
-2
-2.5
Position (deg)
0
0.1
0.2
0.3
0.4
0.5
0.6
0.7
0.8
0.9
1
Time (s)

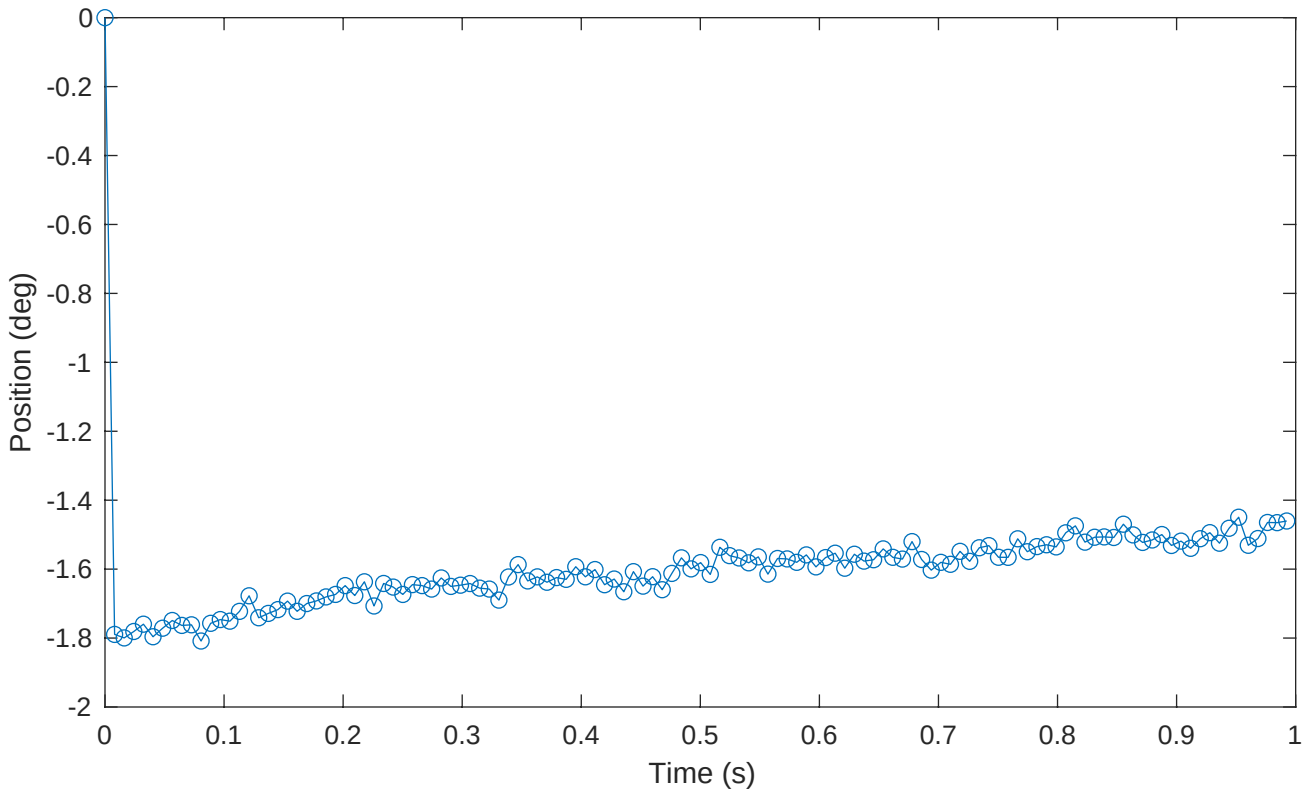

Filtered Position/Velocity: Trial 118 (External)
0
-0.5
-1
-1.5
-2
-2.5
Position (deg)
50
0
-50
-100
-150
-200
-250
-300
-350
-400
-450
Velocity (deg/s)
0
0.1
0.2
0.3
0.4
0.5
0.6
0.7
0.8
0.9
1
Time (s)
Externally Filtered Position
Externally Filtered Velocity

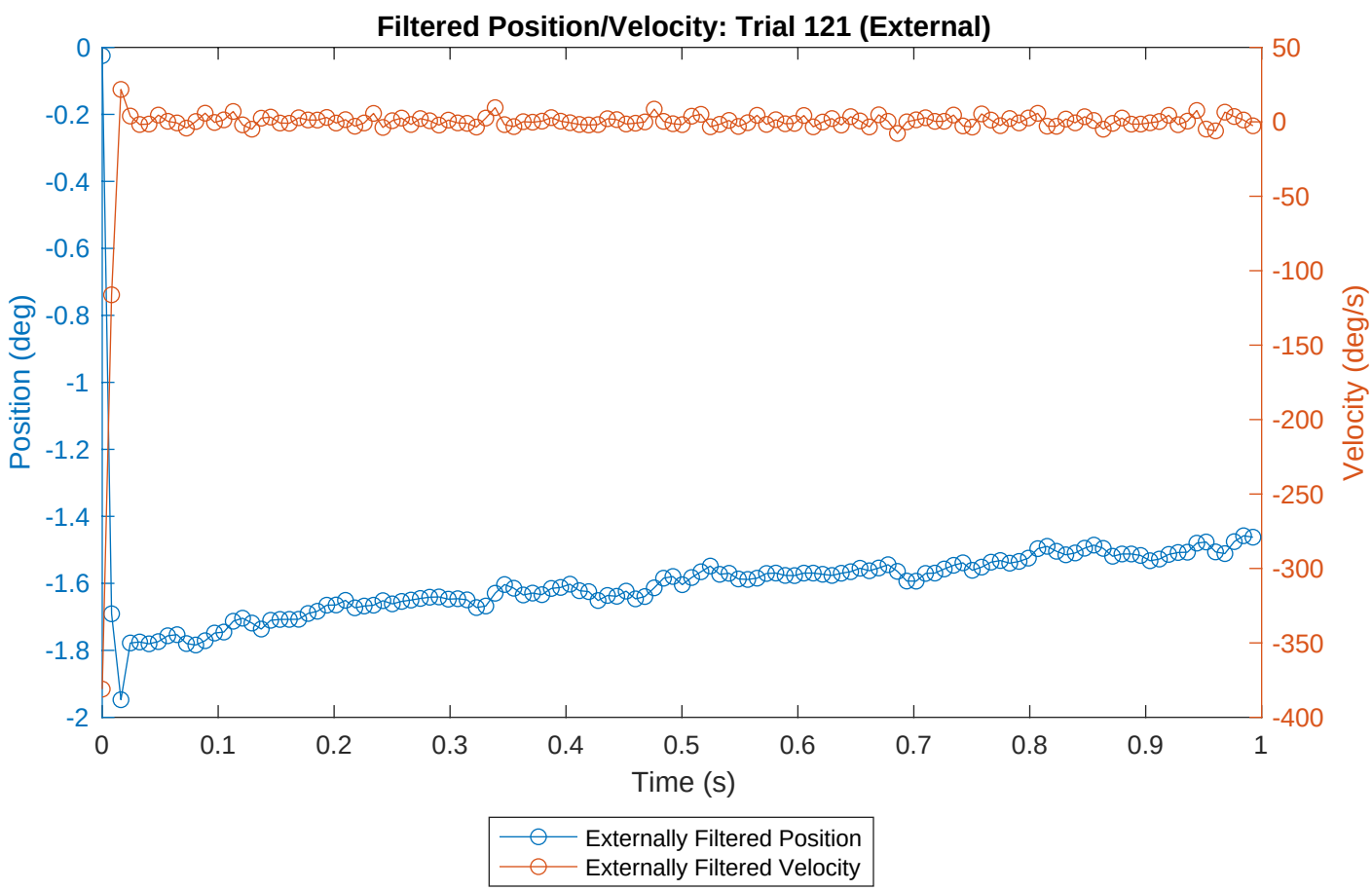

Position (deg)
Time (s)
0
-0.5
-1
-1.5
-2
-2.5
-3
-3.5
0
0.1
0.2
0.3
0.4
0.5
0.6
0.7
0.8
0.9
1

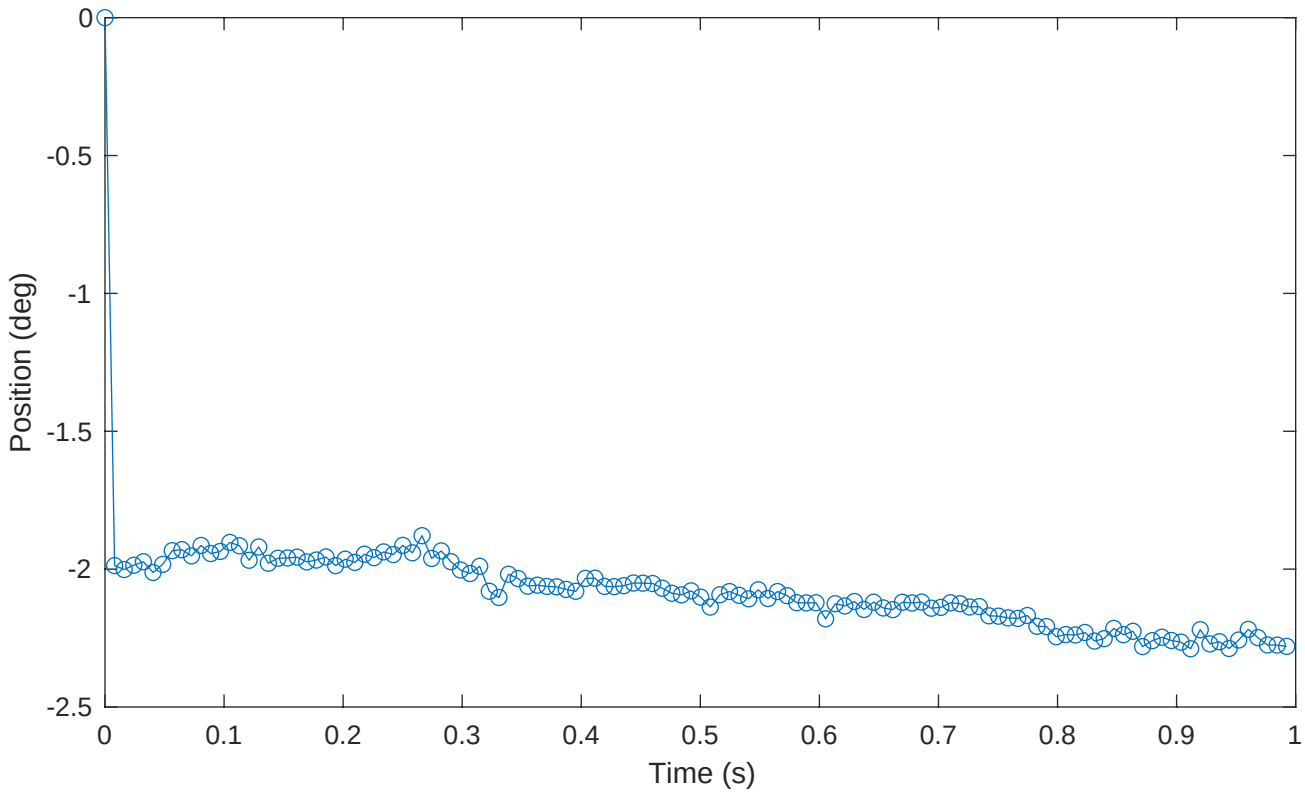

Filtered Position/Velocity: Trial 119 (External)
Position (deg)
Velocity (deg/s)
Time (s)
0
-0.5
-1
-1.5
-2
-2.5
-3
-3.5
50
0
-50
-100
-150
-200
-250
-300
-350
-400
0
0.1
0.2
0.3
0.4
0.5
0.6
0.7
0.8
0.9
1
Externally Filtered Position
Externally Filtered Velocity

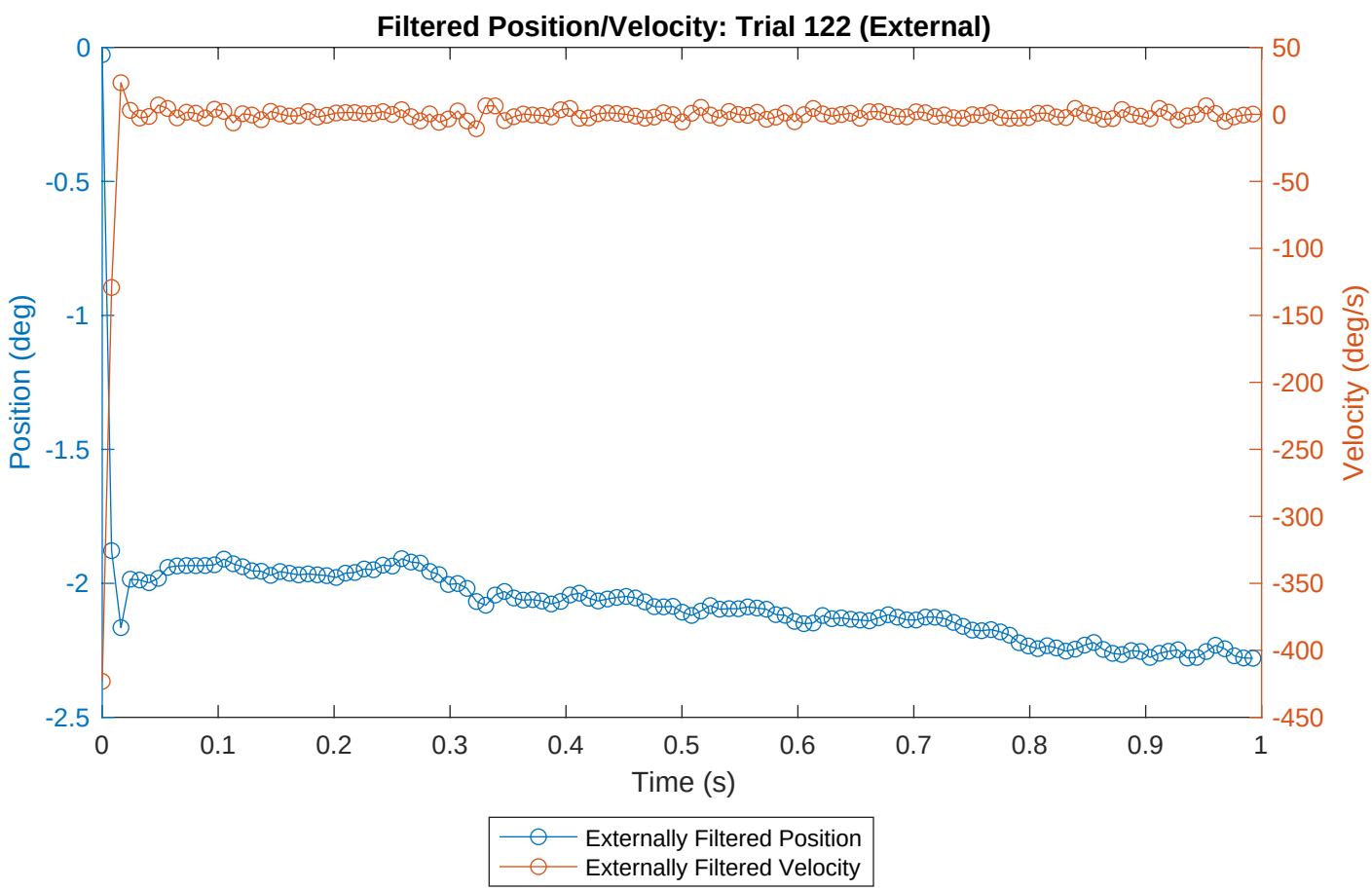

0
-0.5
-1
-1.5
-2
-2.5
Position (deg)
0
0.1
0.2
0.3
0.4
0.5
0.6
0.7
0.8
0.9
1
Time (s)

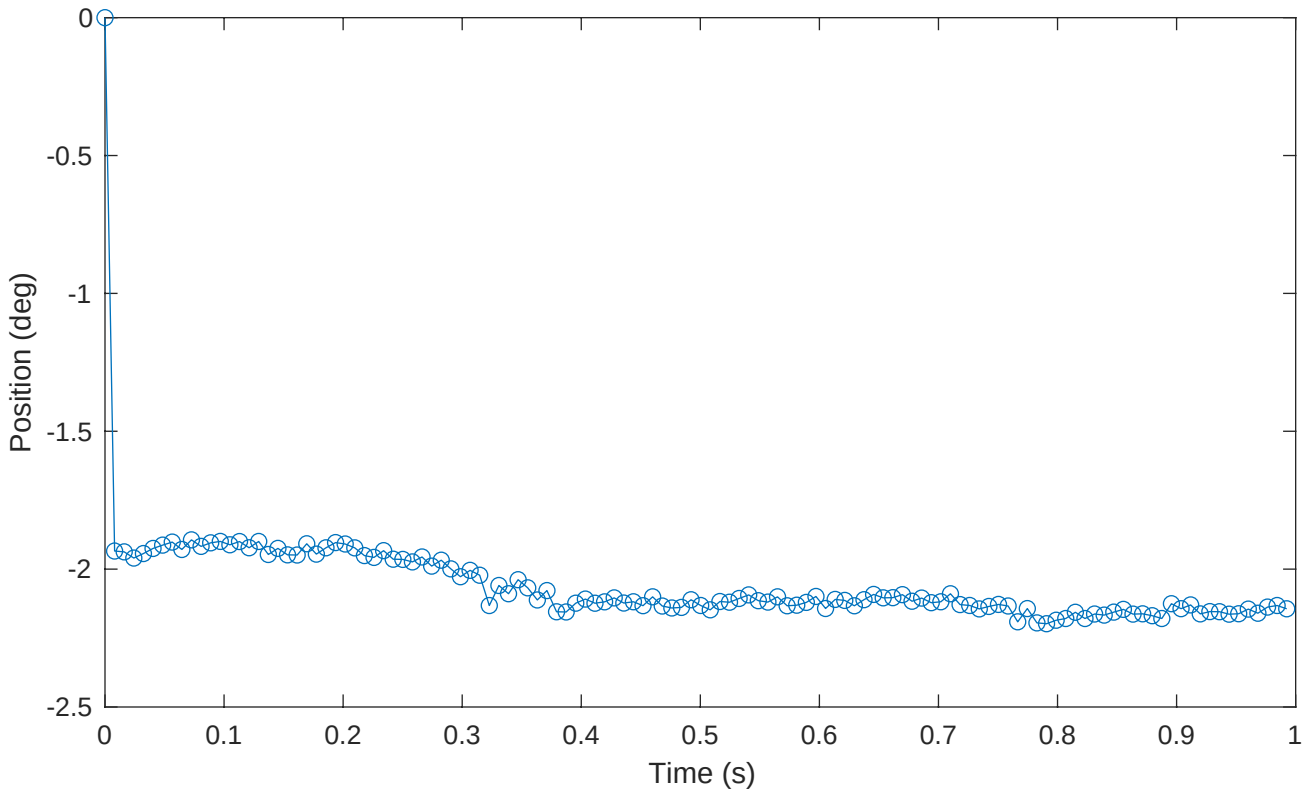

Filtered Position/Velocity: Trial 120 (External)
0
-0.5
-1
-1.5
-2
-2.5
Position (deg)
100
0
-100
-200
-300
-400
-500
Velocity (deg/s)
0
0.1
0.2
0.3
0.4
0.5
0.6
0.7
0.8
0.9
1
Time (s)
Externally Filtered Position
Externally Filtered Velocity

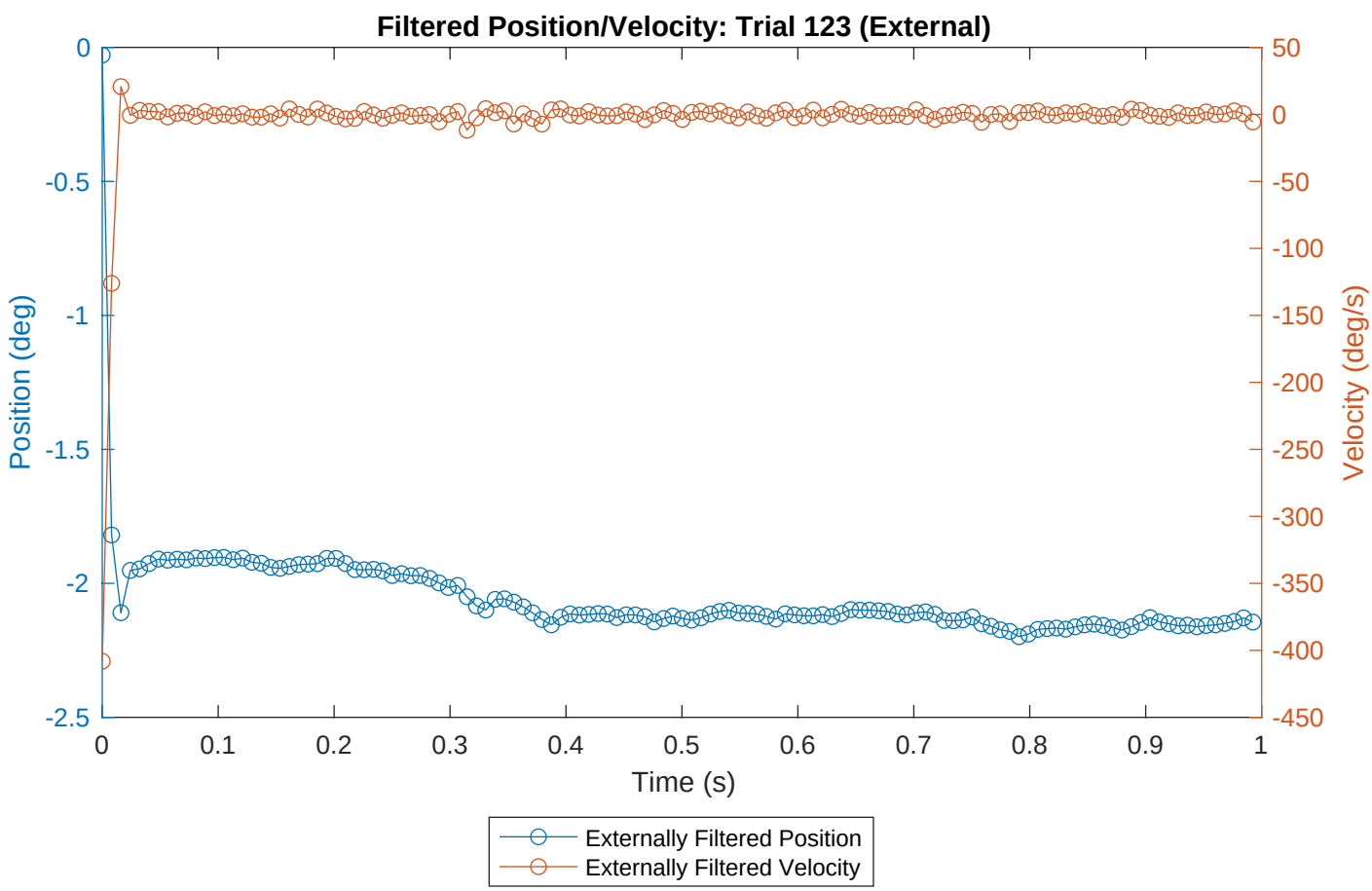

Position (deg)
Time (s)

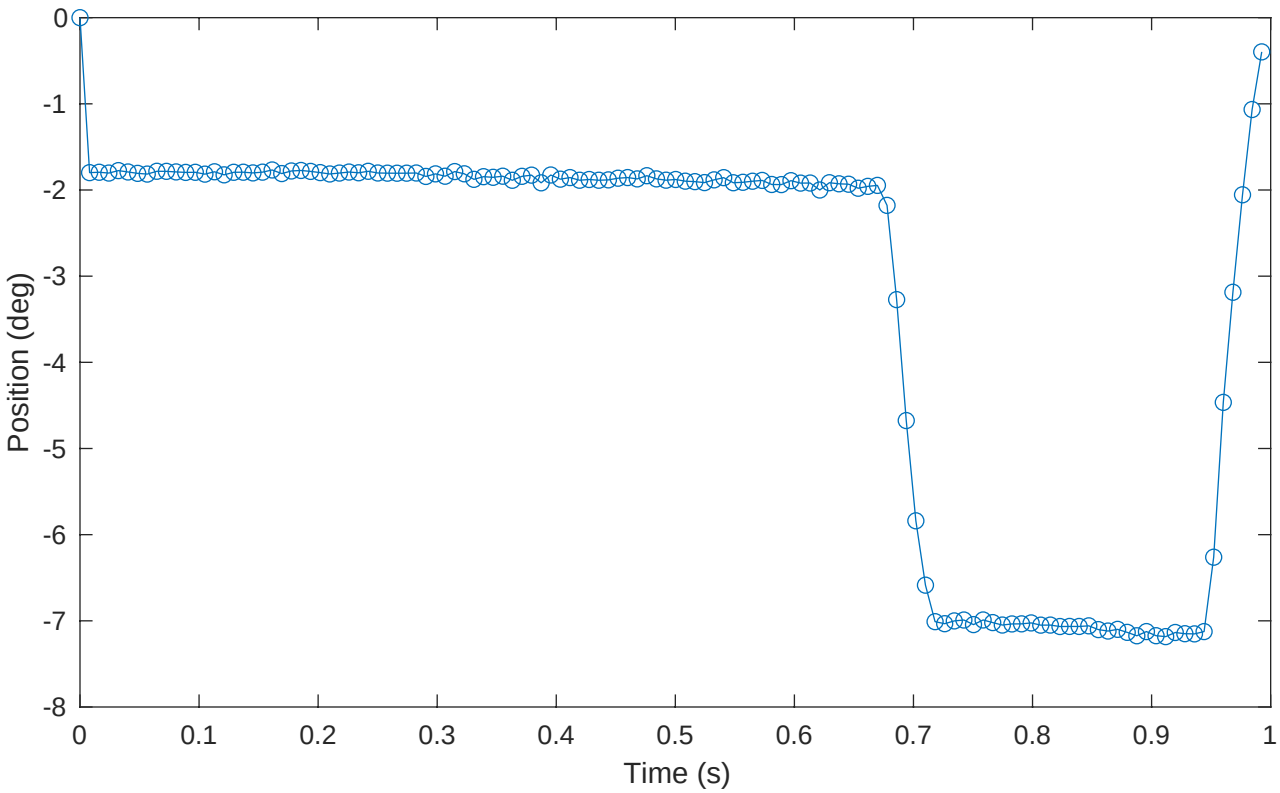

Filtered Position/Velocity: Trial 121 (External)
Position (deg)
Velocity (deg/s)
Time (s)
Externally Filtered Position
Externally Filtered Velocity

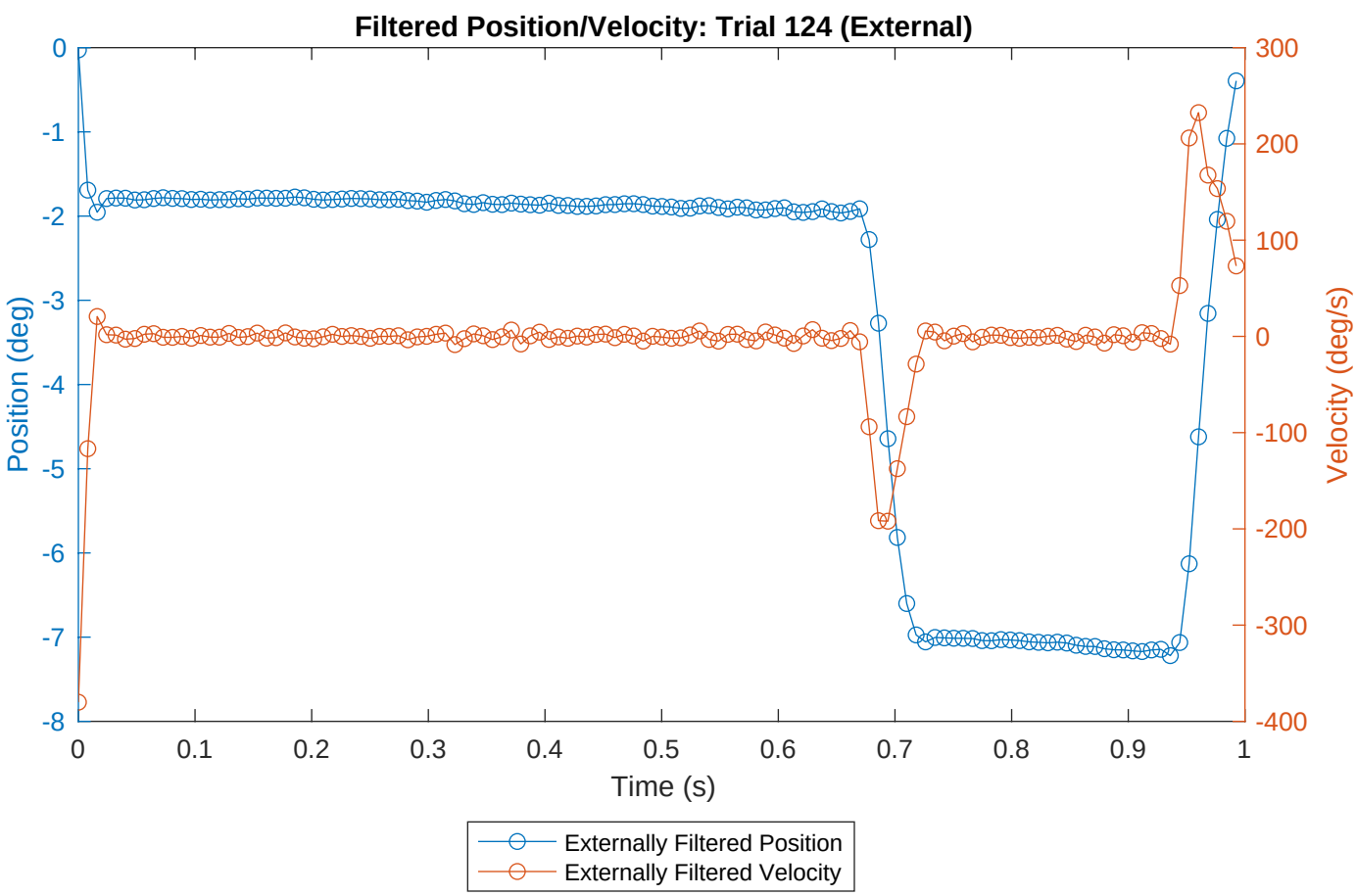

0
-0.5
-1
-1.5
-2
-2.5
Position (deg)
0
0.1
0.2
0.3
0.4
0.5
0.6
0.7
0.8
0.9
1
Time (s)

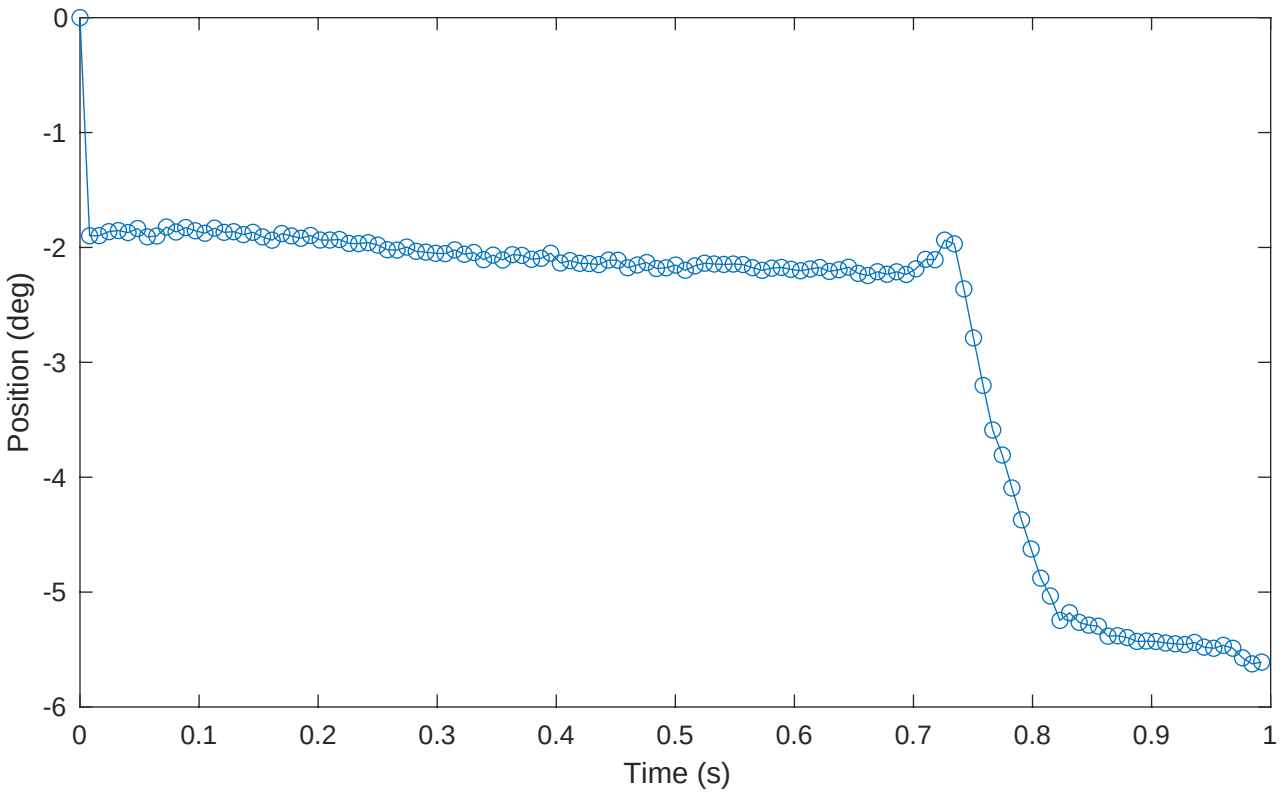

Filtered Position/Velocity: Trial 122 (External)
0
-0.5
-1
-1.5
-2
-2.5
Position (deg)
50
0
-50
-100
-150
-200
-250
-300
-350
-400
-450
Velocity (deg/s)
0
0.1
0.2
0.3
0.4
0.5
0.6
0.7
0.8
0.9
1
Time (s)
Externally Filtered Position
Externally Filtered Velocity

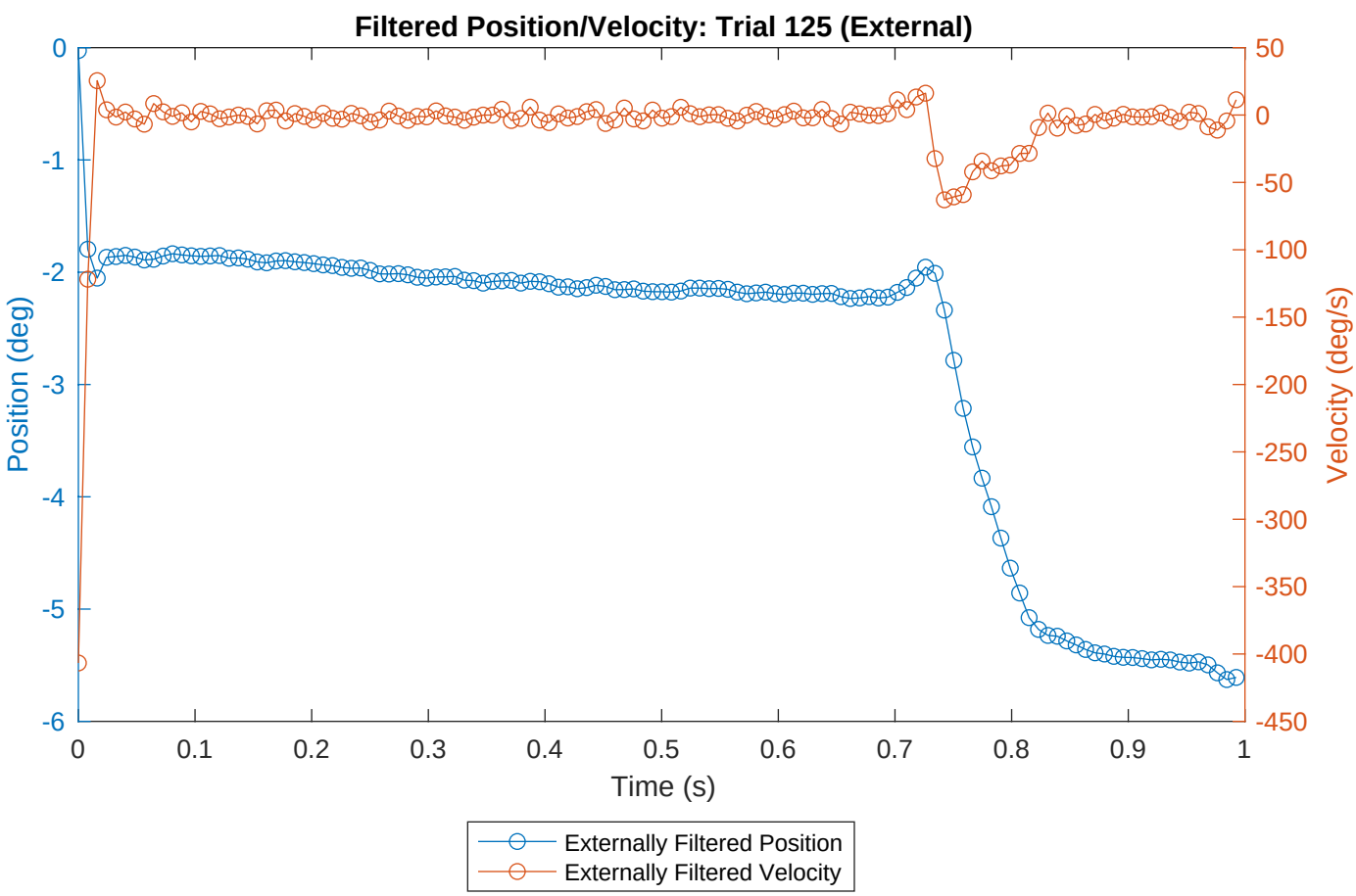

0
-0.5
-1
-1.5
-2
-2.5
Position (deg)
0
0.1
0.2
0.3
0.4
0.5
0.6
0.7
0.8
0.9
1
Time (s)

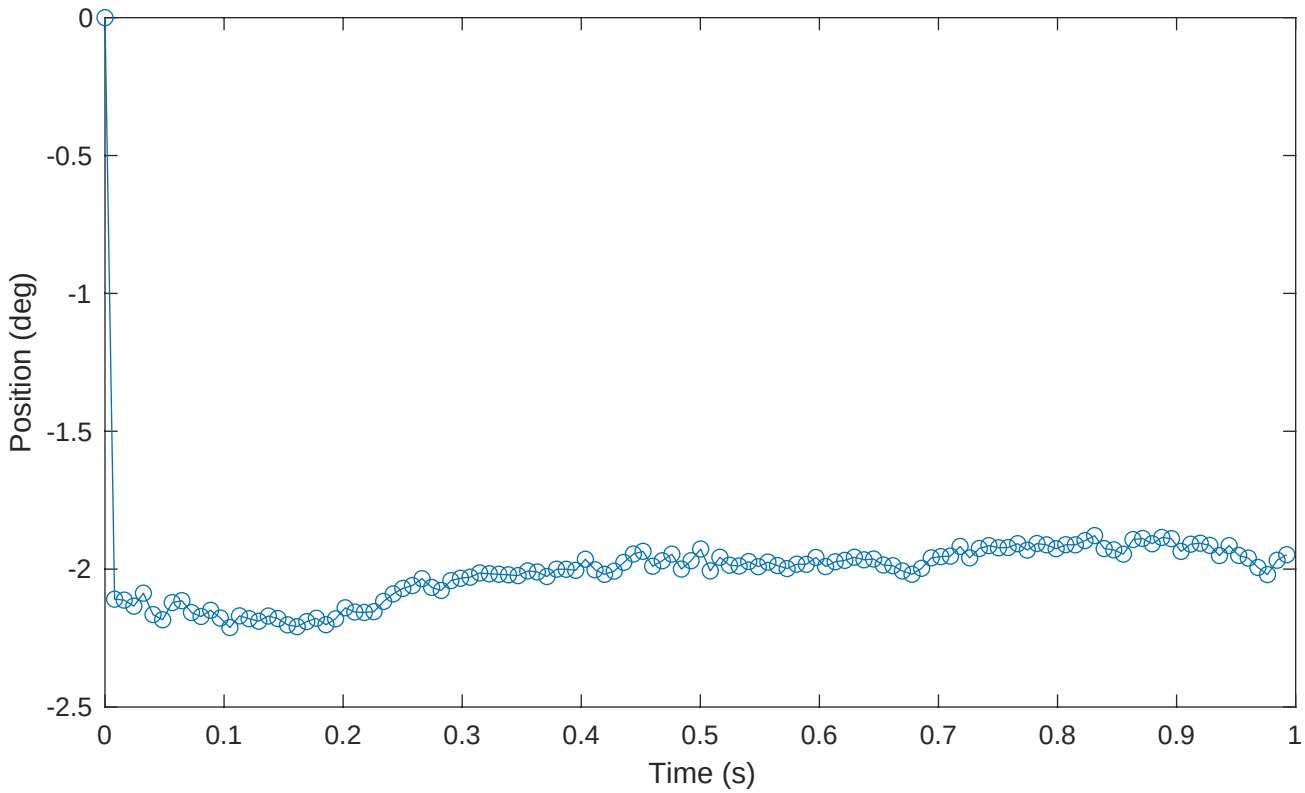

Filtered Position/Velocity: Trial 123 (External)
0
-0.5
-1
-1.5
-2
-2.5
Position (deg)
50
0
-50
-100
-150
-200
-250
-300
-350
-400
-450
Velocity (deg/s)
0
0.1
0.2
0.3
0.4
0.5
0.6
0.7
0.8
0.9
1
Time (s)
Externally Filtered Position
Externally Filtered Velocity

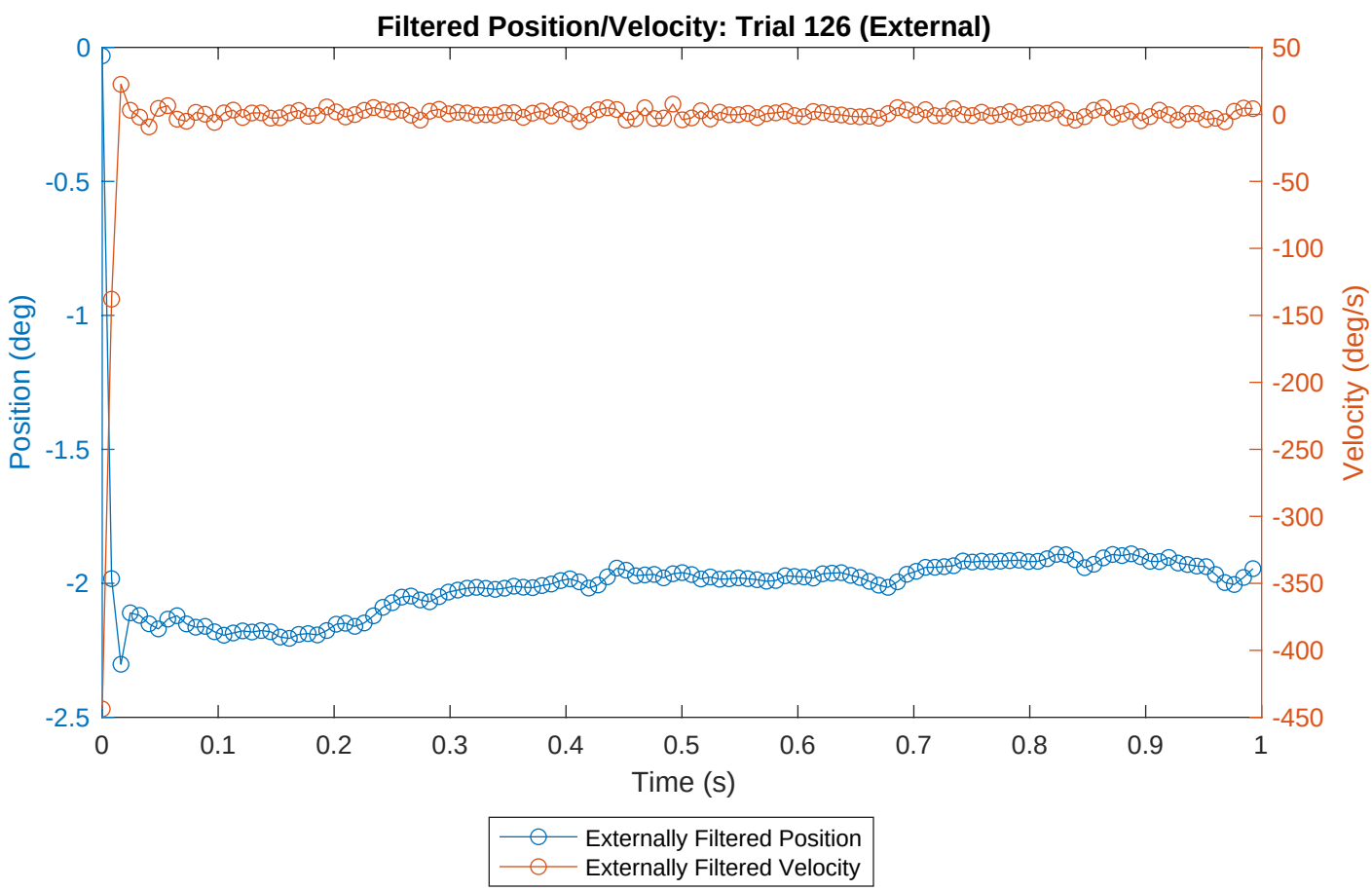

Position (deg)
Time (s)
0
-1
-2
-3
-4
-5
-6
-7
-8
0
0.1
0.2
0.3
0.4
0.5
0.6
0.7
0.8
0.9
1

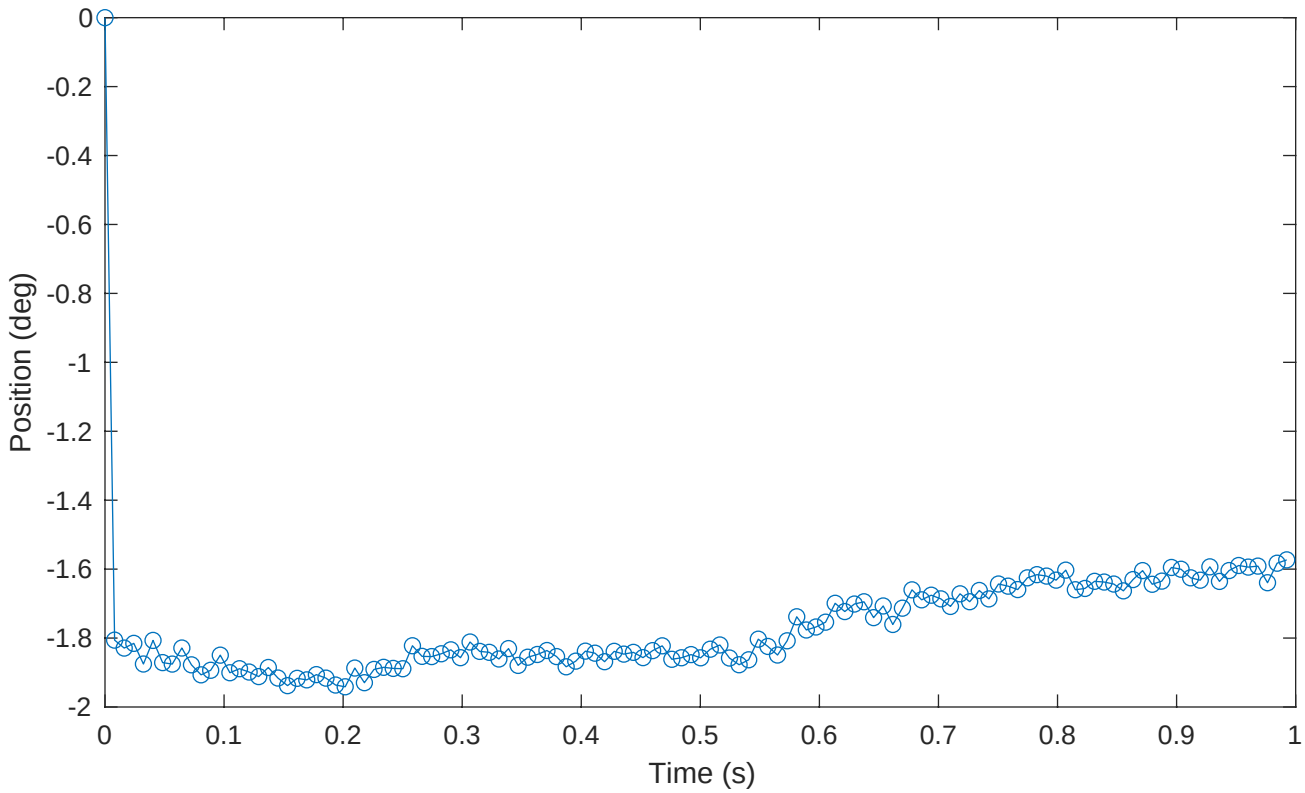

Filtered Position/Velocity: Trial 124 (External)
Position (deg)
Velocity (deg/s)
Time (s)
0
-1
-2
-3
-4
-5
-6
-7
-8
300
200
100
0
-100
-200
-300
-400
0
0.1
0.2
0.3
0.4
0.5
0.6
0.7
0.8
0.9
1
Externally Filtered Position
Externally Filtered Velocity

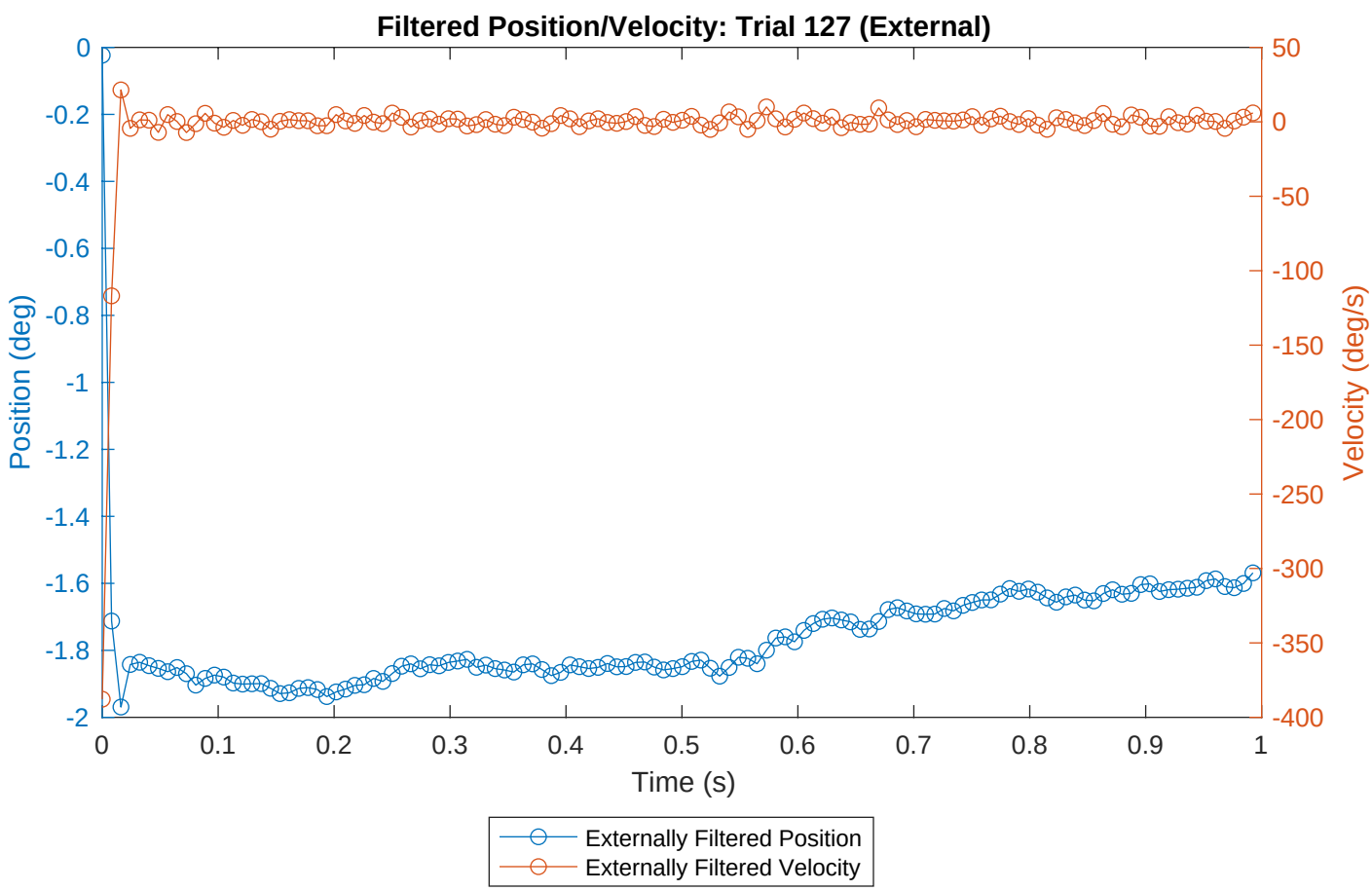

Position (deg)
Time (s)
0
-1
-2
-3
-4
-5
-6
0
0.1
0.2
0.3
0.4
0.5
0.6
0.7
0.8
0.9
1

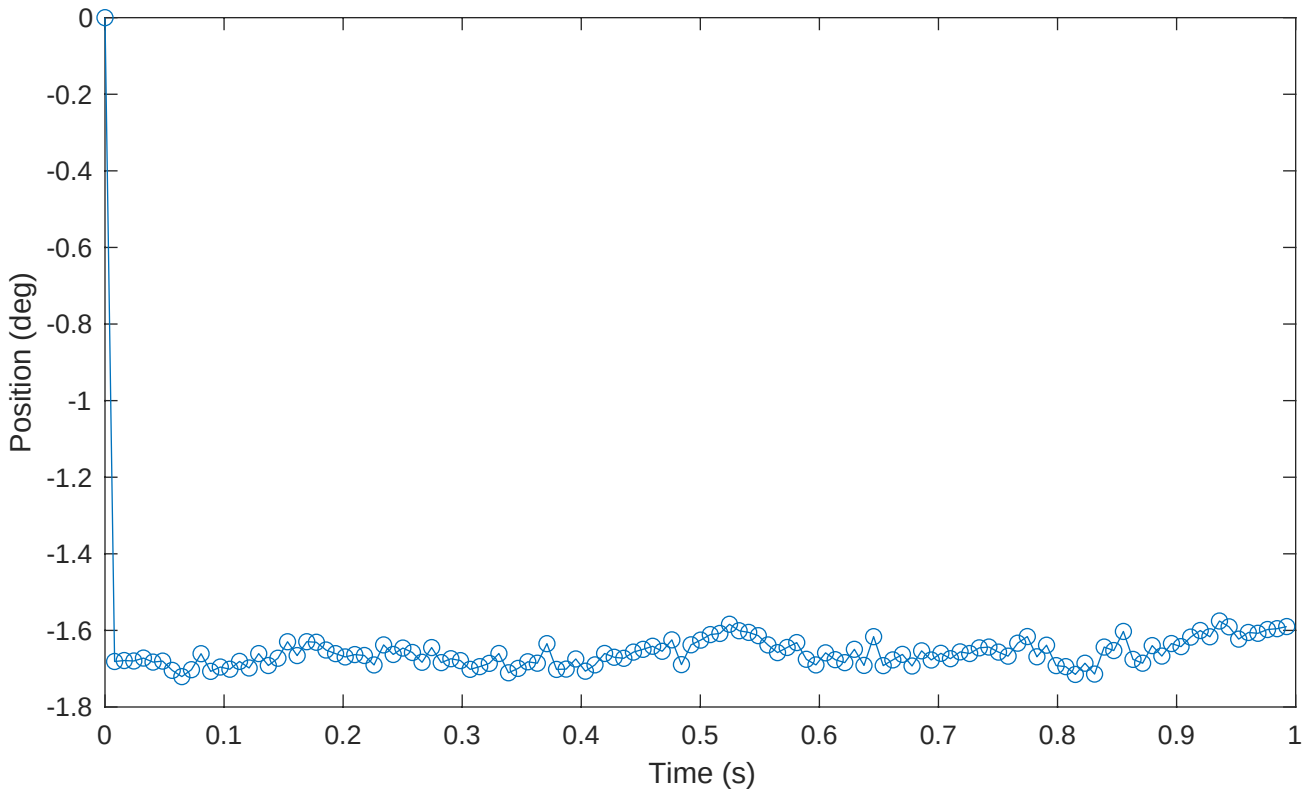

Filtered Position/Velocity: Trial 125 (External)
Position (deg)
Velocity (deg/s)
Time (s)
0
-1
-2
-3
-4
-5
-6
50
0
-50
-100
-150
-200
-250
-300
-350
-400
-450
0
0.1
0.2
0.3
0.4
0.5
0.6
0.7
0.8
0.9
1
Externally Filtered Position
Externally Filtered Velocity

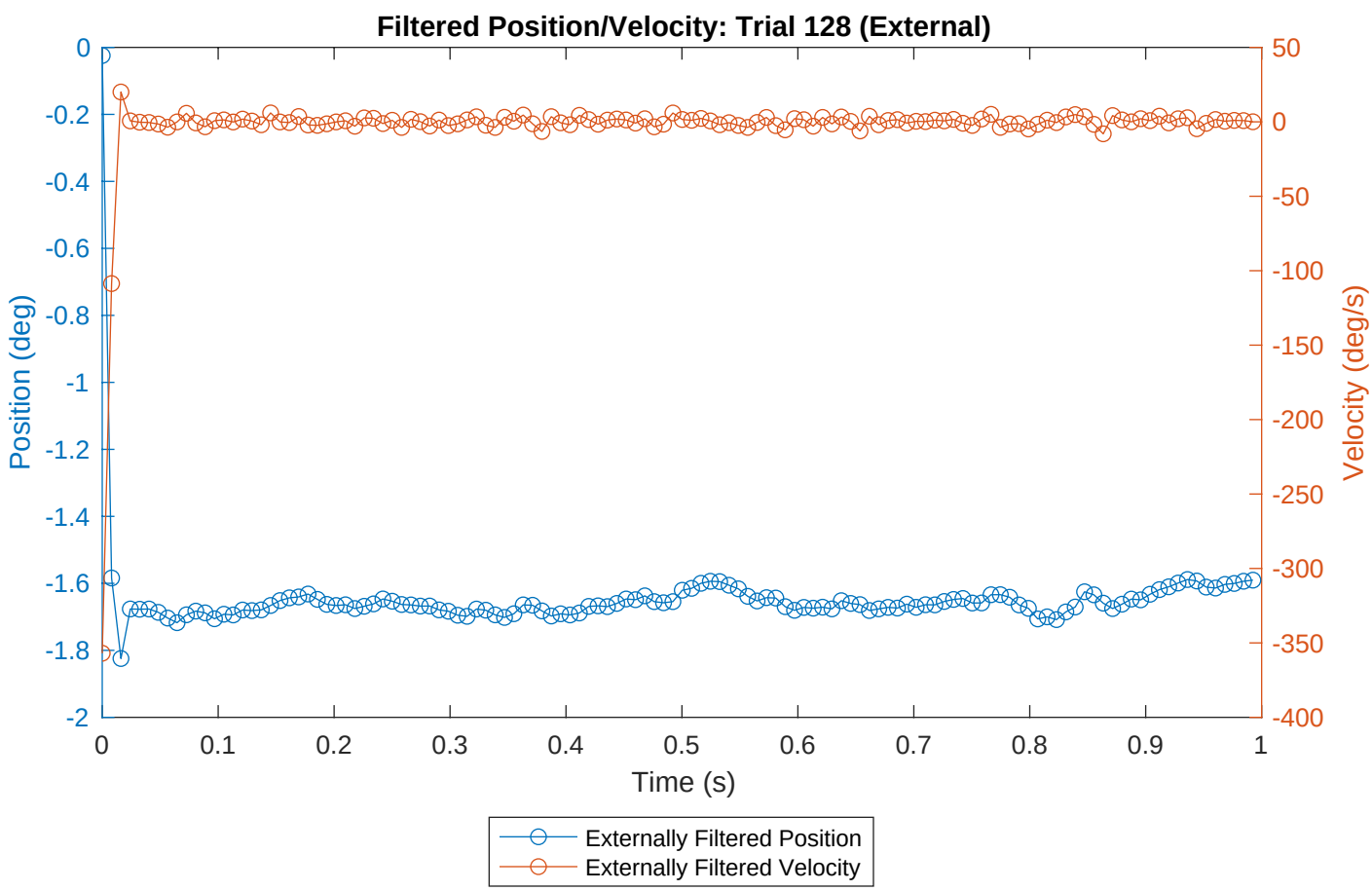

0
-0.5
-1
-1.5
-2
-2.5
Position (deg)
0
0.1
0.2
0.3
0.4
0.5
0.6
0.7
0.8
0.9
1
Time (s)

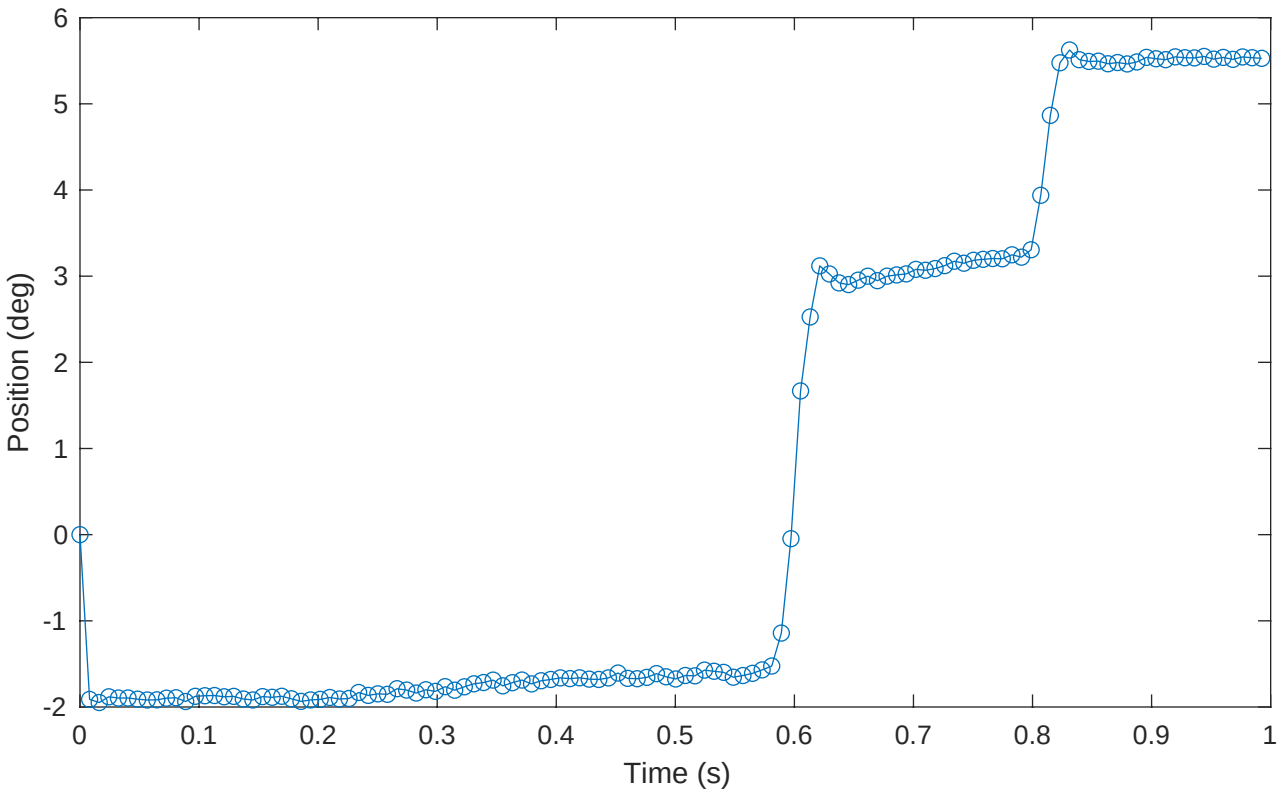

Filtered Position/Velocity: Trial 126 (External)
0
-0.5
-1
-1.5
-2
-2.5
Position (deg)
50
0
-50
-100
-150
-200
-250
-300
-350
-400
-450
Velocity (deg/s)
0
0.1
0.2
0.3
0.4
0.5
0.6
0.7
0.8
0.9
1
Time (s)
Externally Filtered Position
Externally Filtered Velocity

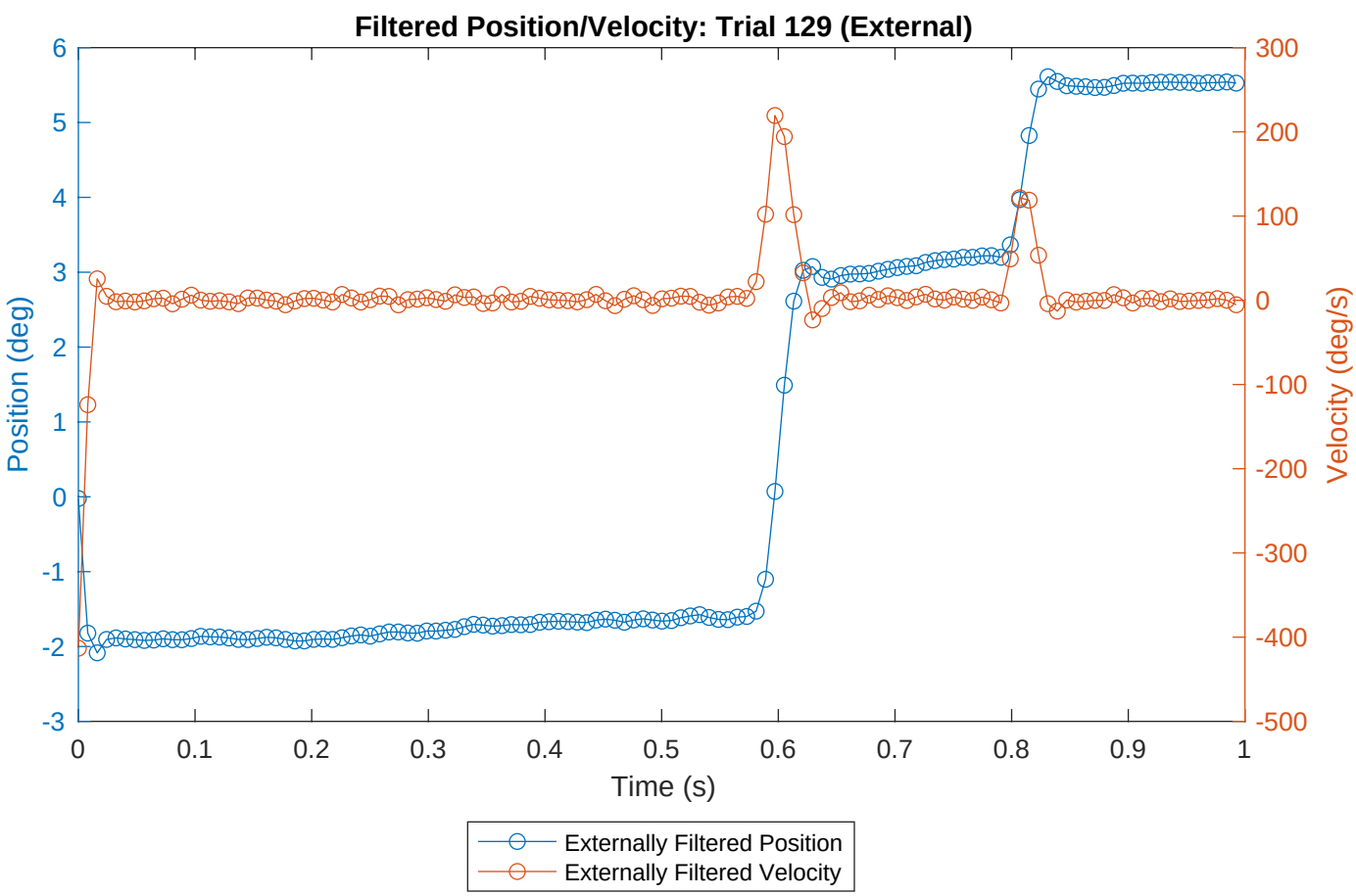

Position (deg)
Time (s)

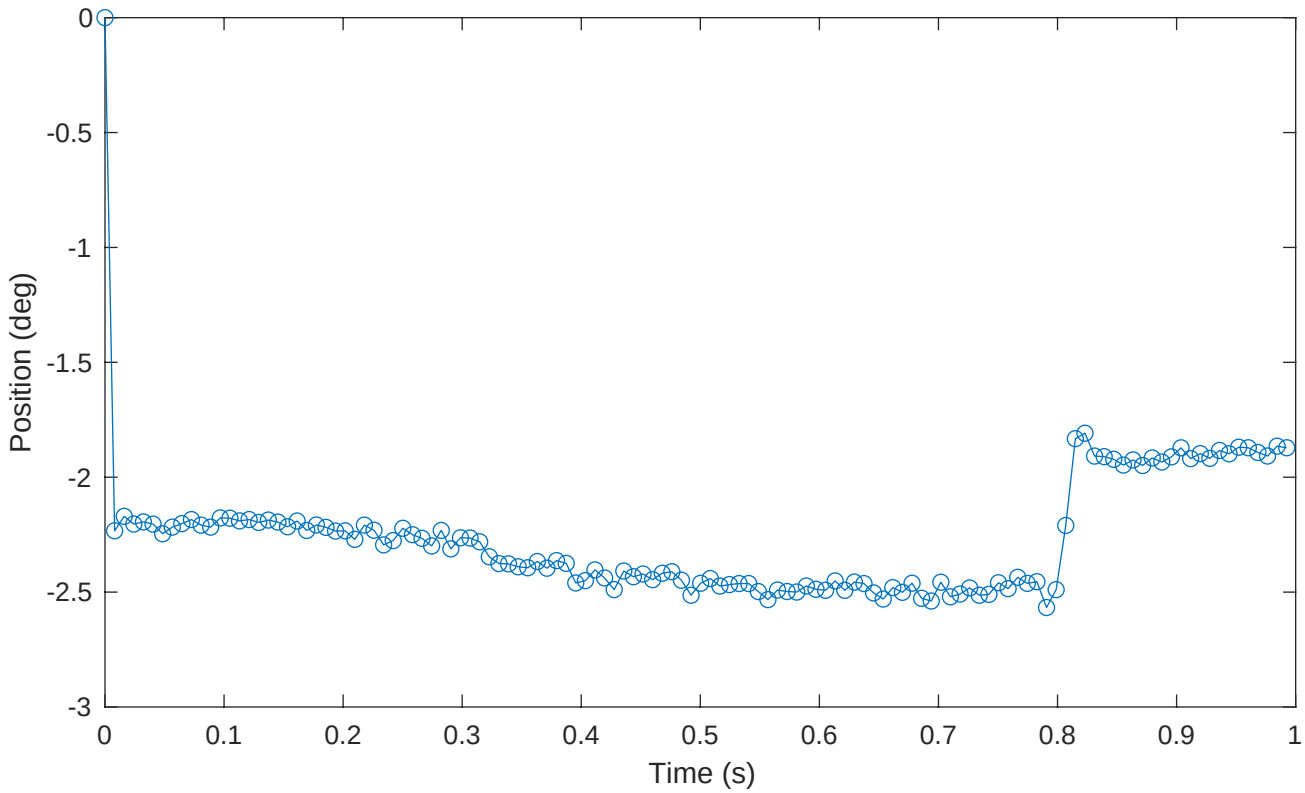

Filtered Position/Velocity: Trial 127 (External)
Position (deg)
Velocity (deg/s)
Time (s)
Externally Filtered Position
Externally Filtered Velocity

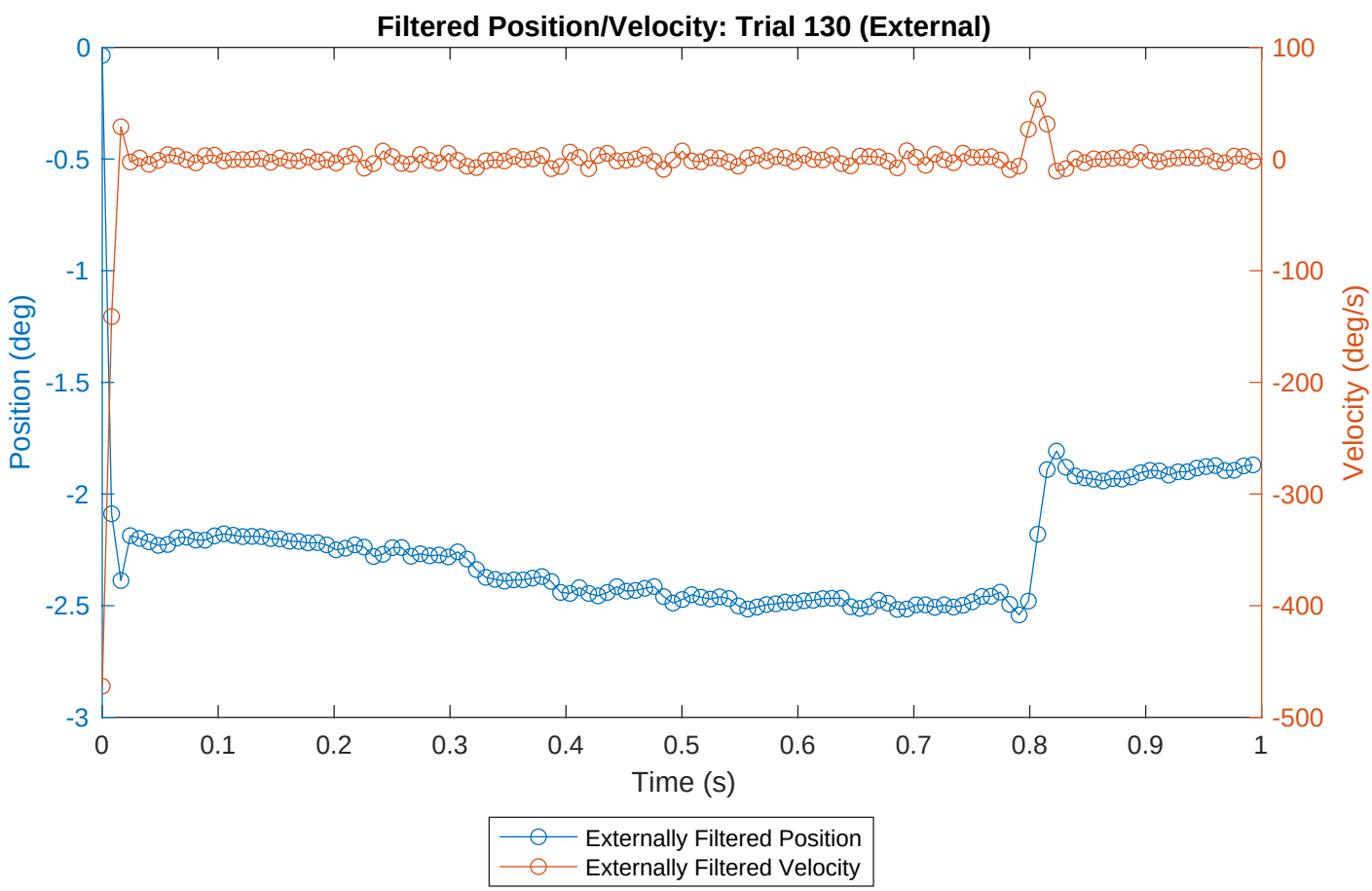

Position (deg)
Time (s)

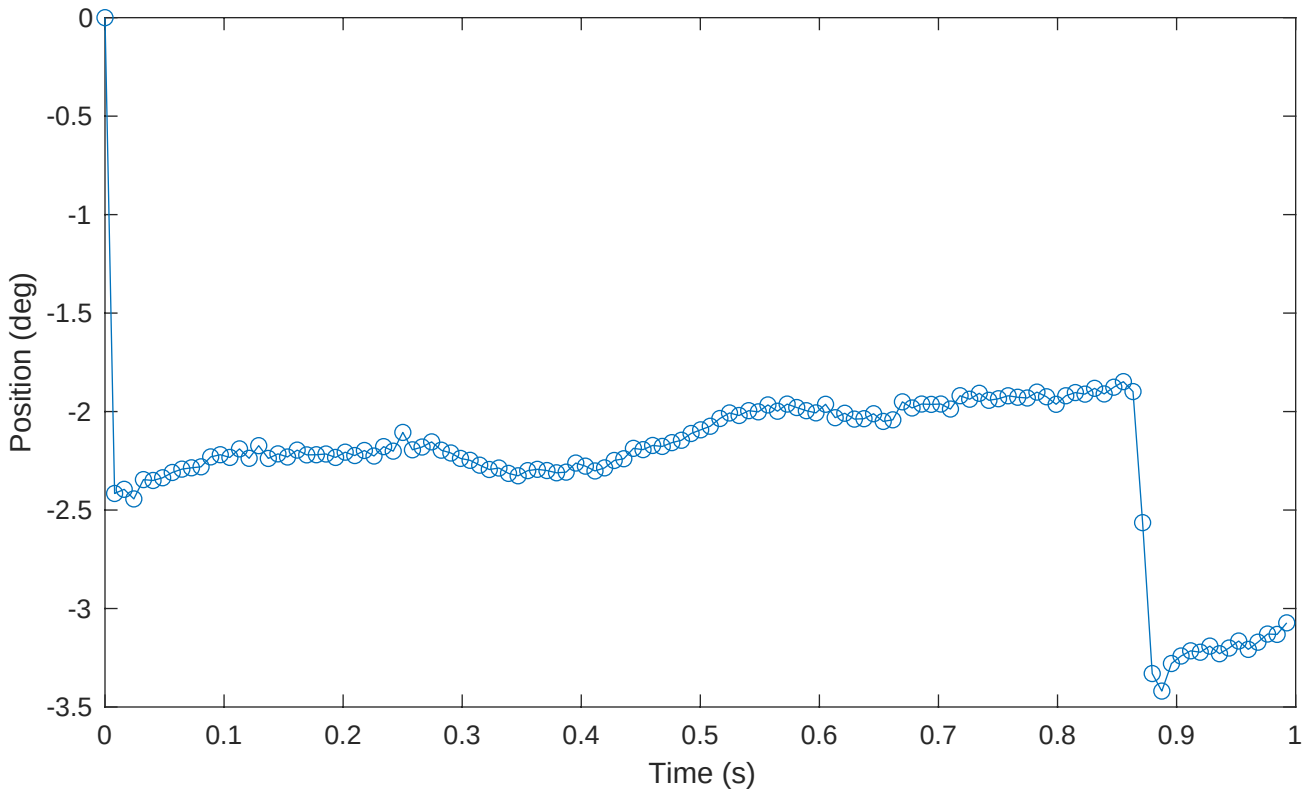

Filtered Position/Velocity: Trial 128 (External)
Position (deg)
Velocity (deg/s)
Time (s)
Externally Filtered Position
Externally Filtered Velocity

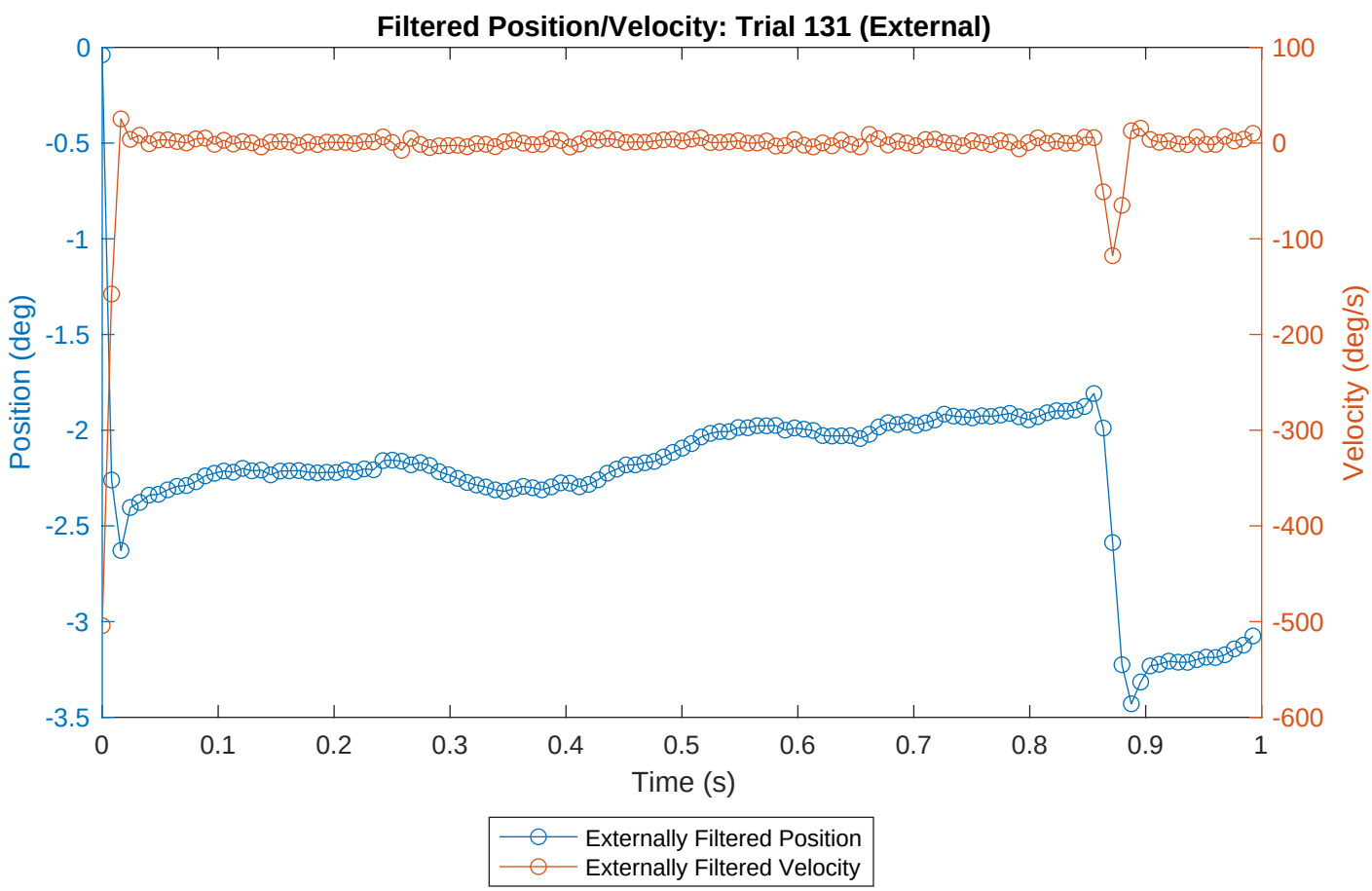

Position (deg)
Time (s)

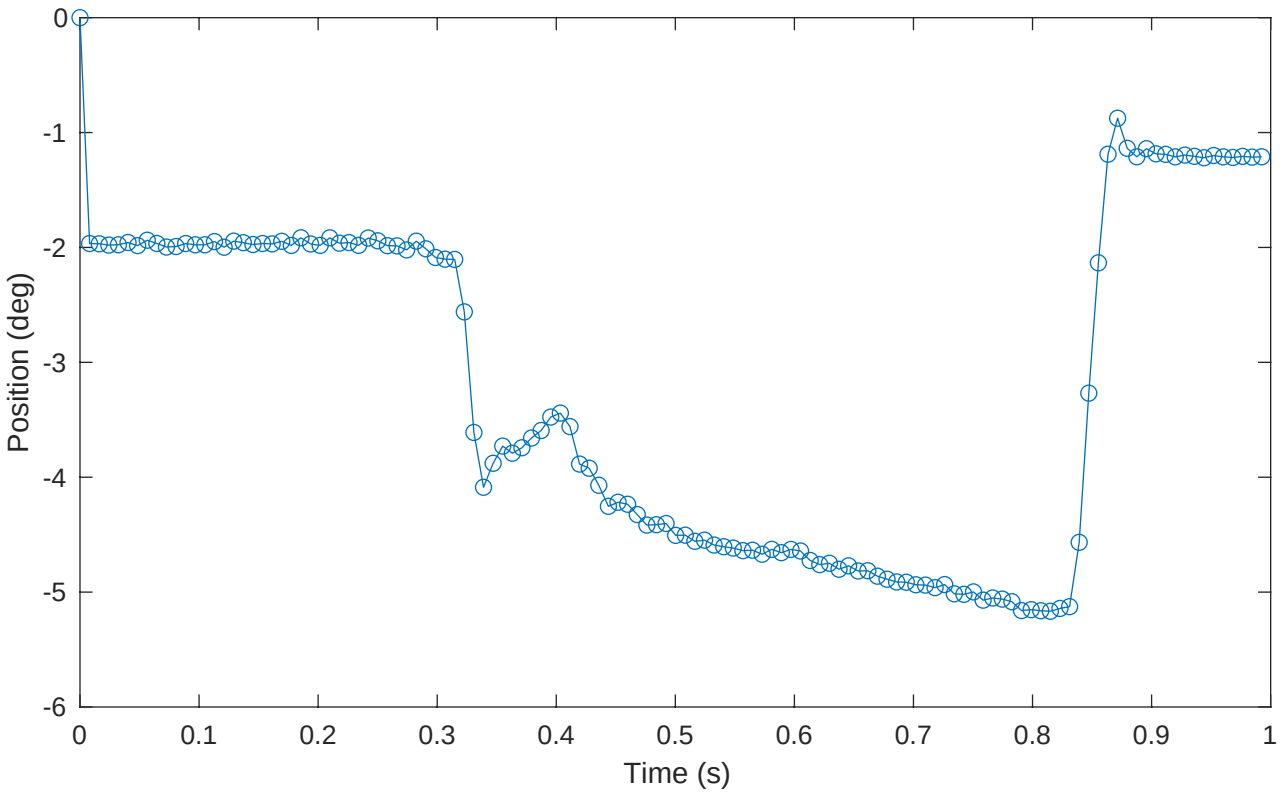

Filtered Position/Velocity: Trial 129 (External)
Position (deg)
Velocity (deg/s)
Time (s)
Externally Filtered Position
Externally Filtered Velocity

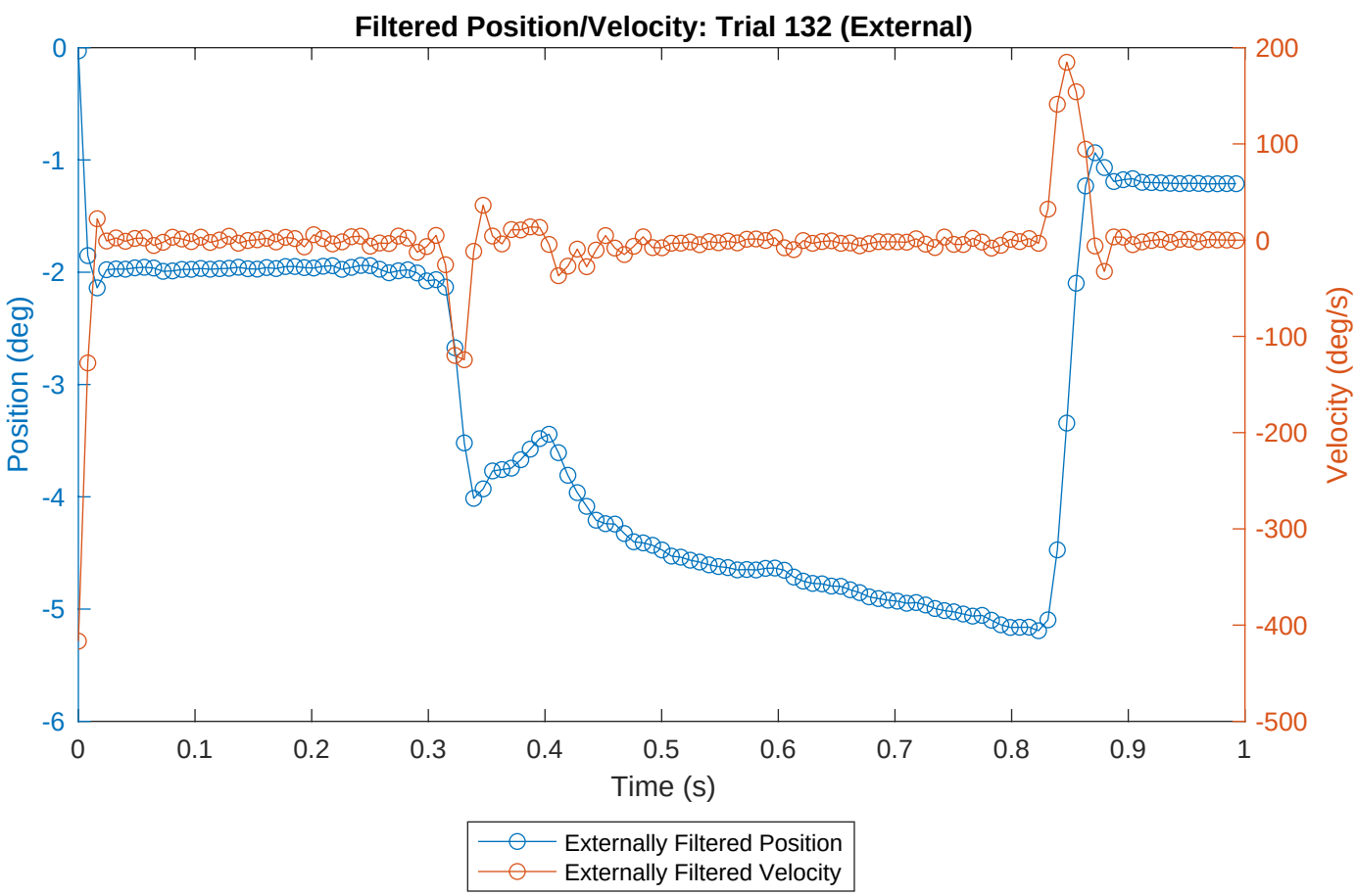

Position (deg)
Time (s)
0
-0.5
-1
-1.5
-2
-2.5
-3
0
0.1
0.2
0.3
0.4
0.5
0.6
0.7
0.8
0.9
1

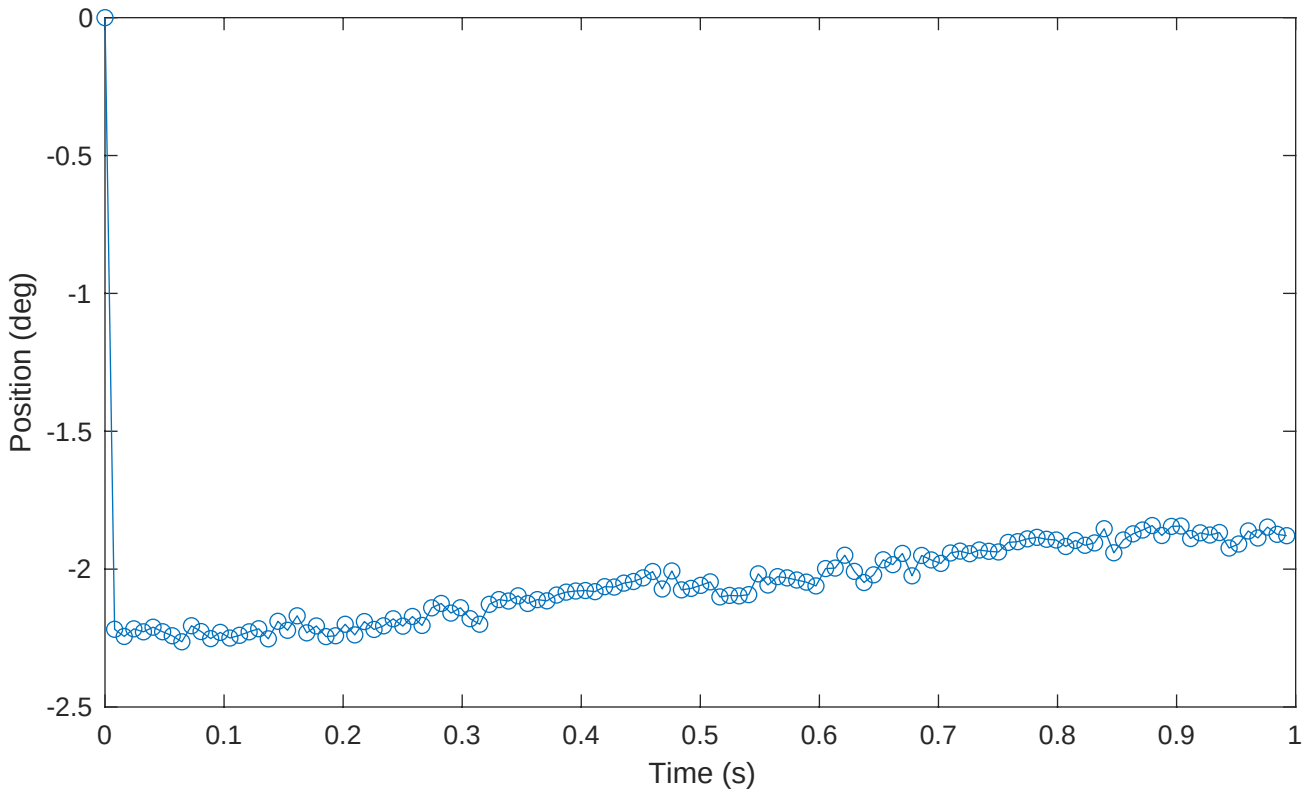

Filtered Position/Velocity: Trial 130 (External)
Position (deg)
Velocity (deg/s)
Time (s)
0
-0.5
-1
-1.5
-2
-2.5
-3
100
0
-100
-200
-300
-400
-500
0
0.1
0.2
0.3
0.4
0.5
0.6
0.7
0.8
0.9
1
Externally Filtered Position
Externally Filtered Velocity

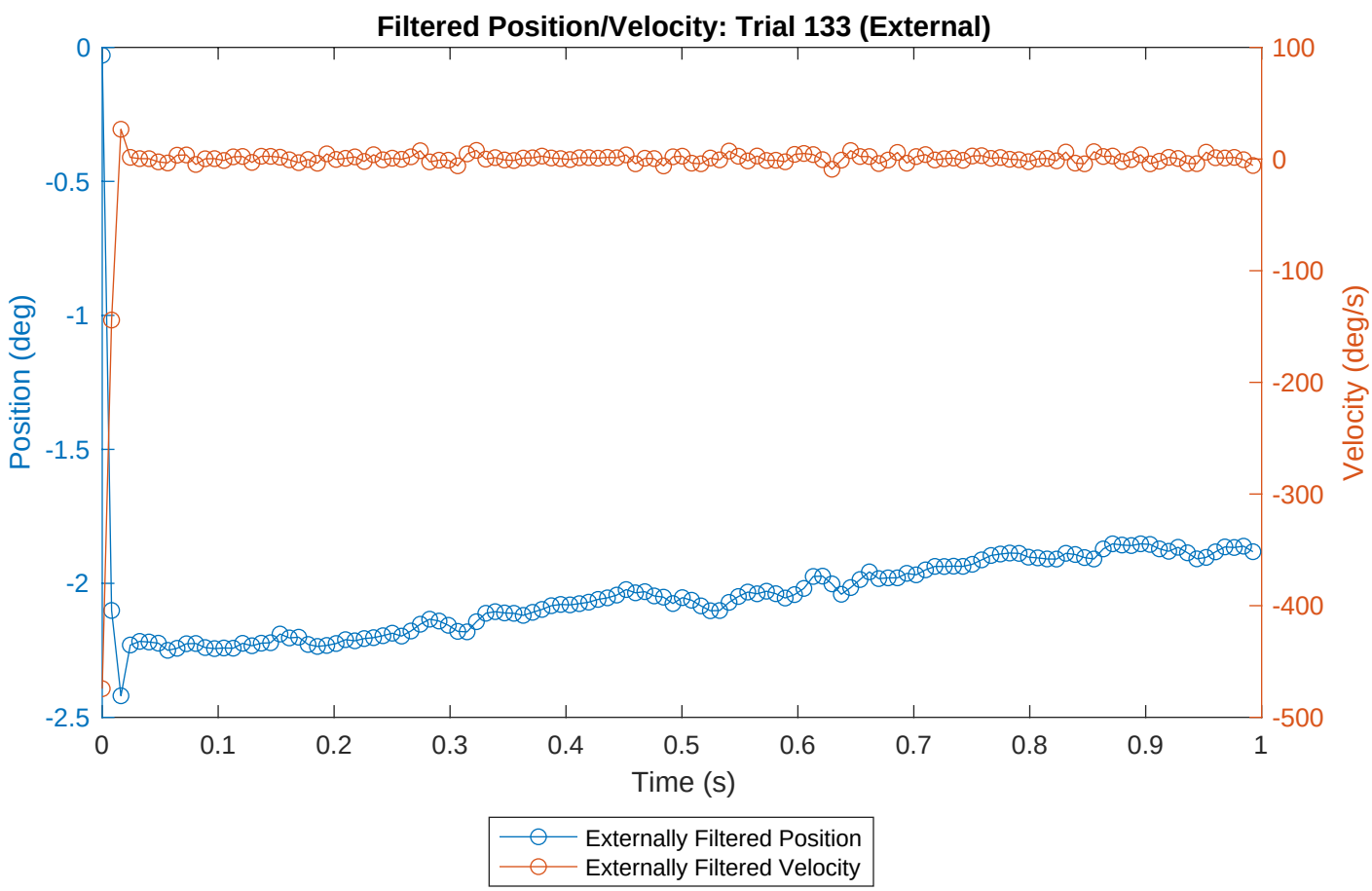

Position (deg)
Time (s)

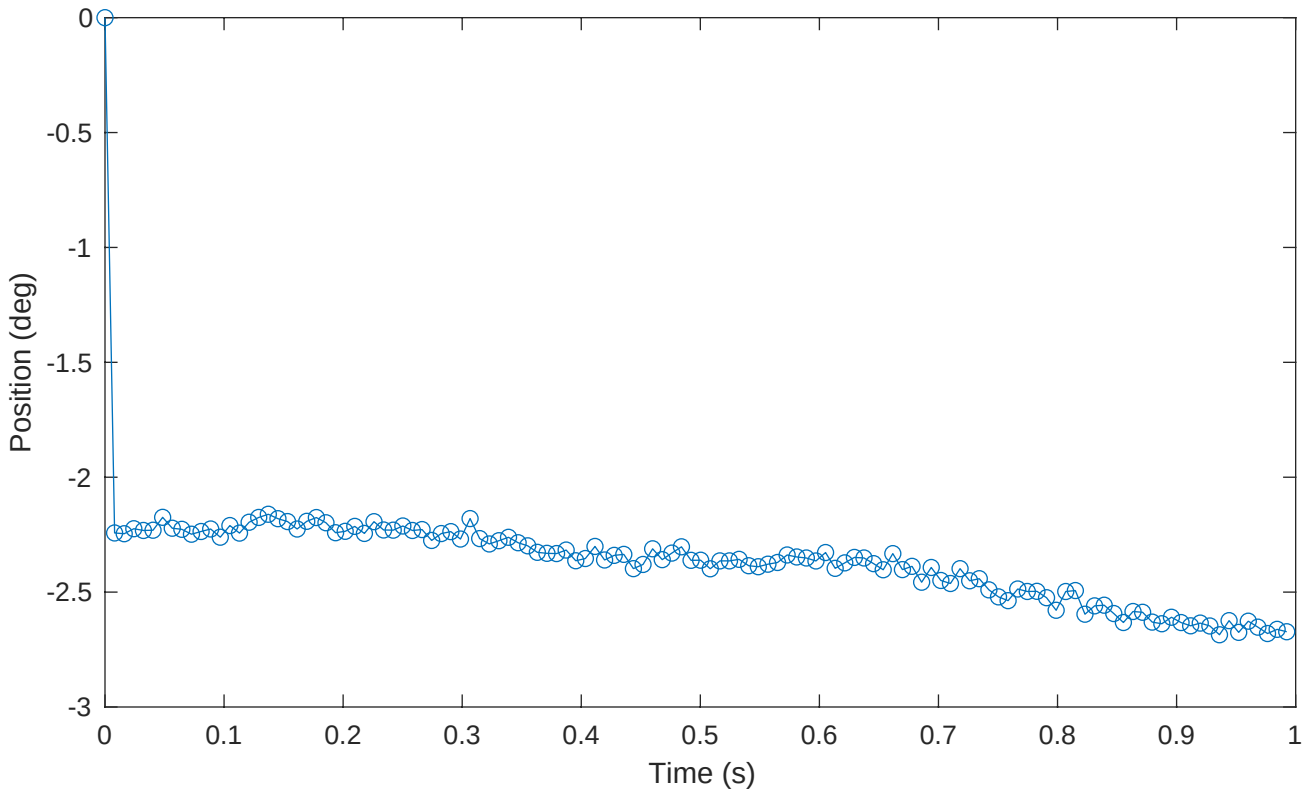

Filtered Position/Velocity: Trial 131 (External)
Position (deg)
Velocity (deg/s)
Time (s)
Externally Filtered Position
Externally Filtered Velocity

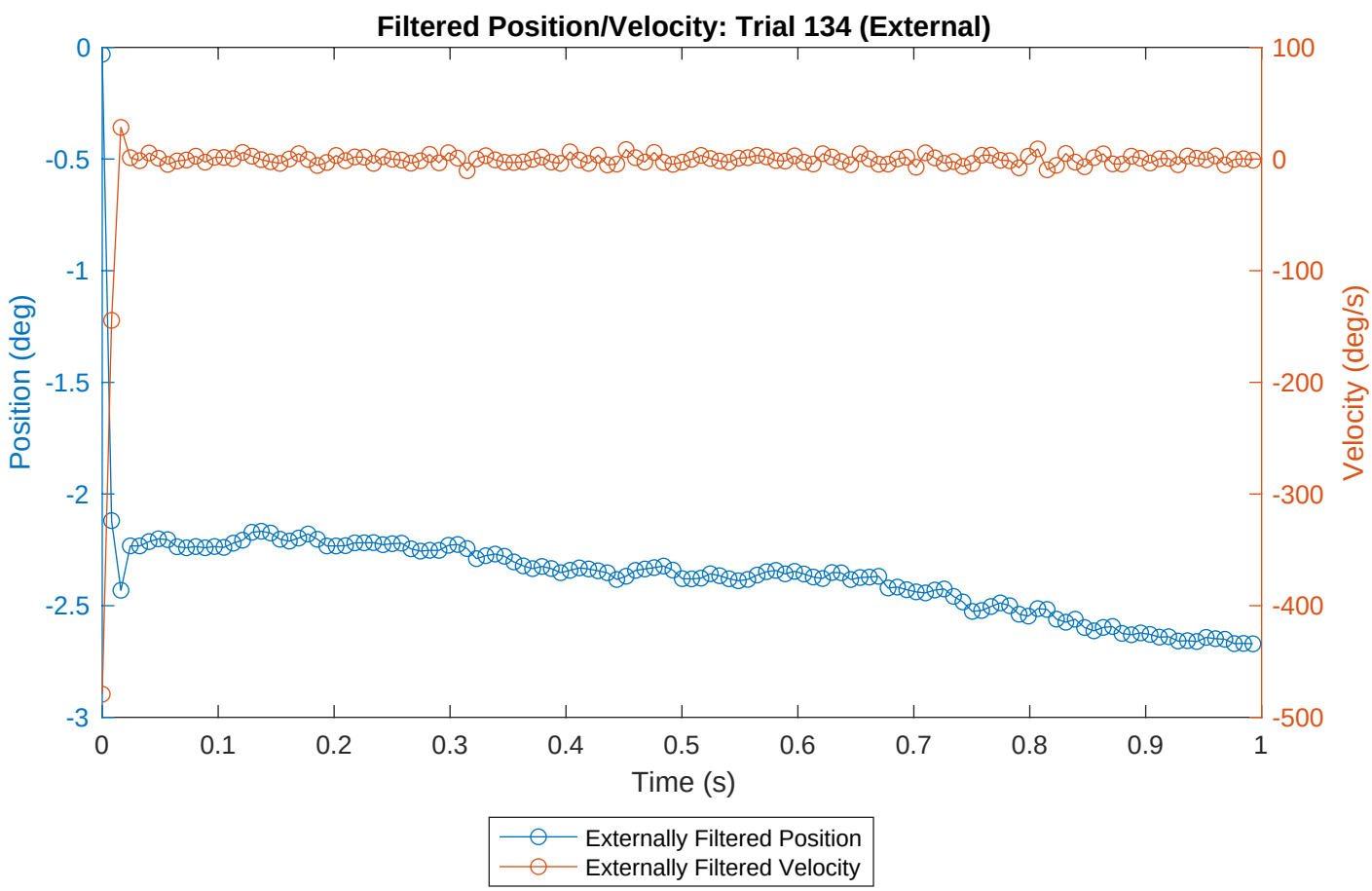

Position (deg)
Time (s)
0
-1
-2
-3
-4
-5
-6
0
0.1
0.2
0.3
0.4
0.5
0.6
0.7
0.8
0.9
1

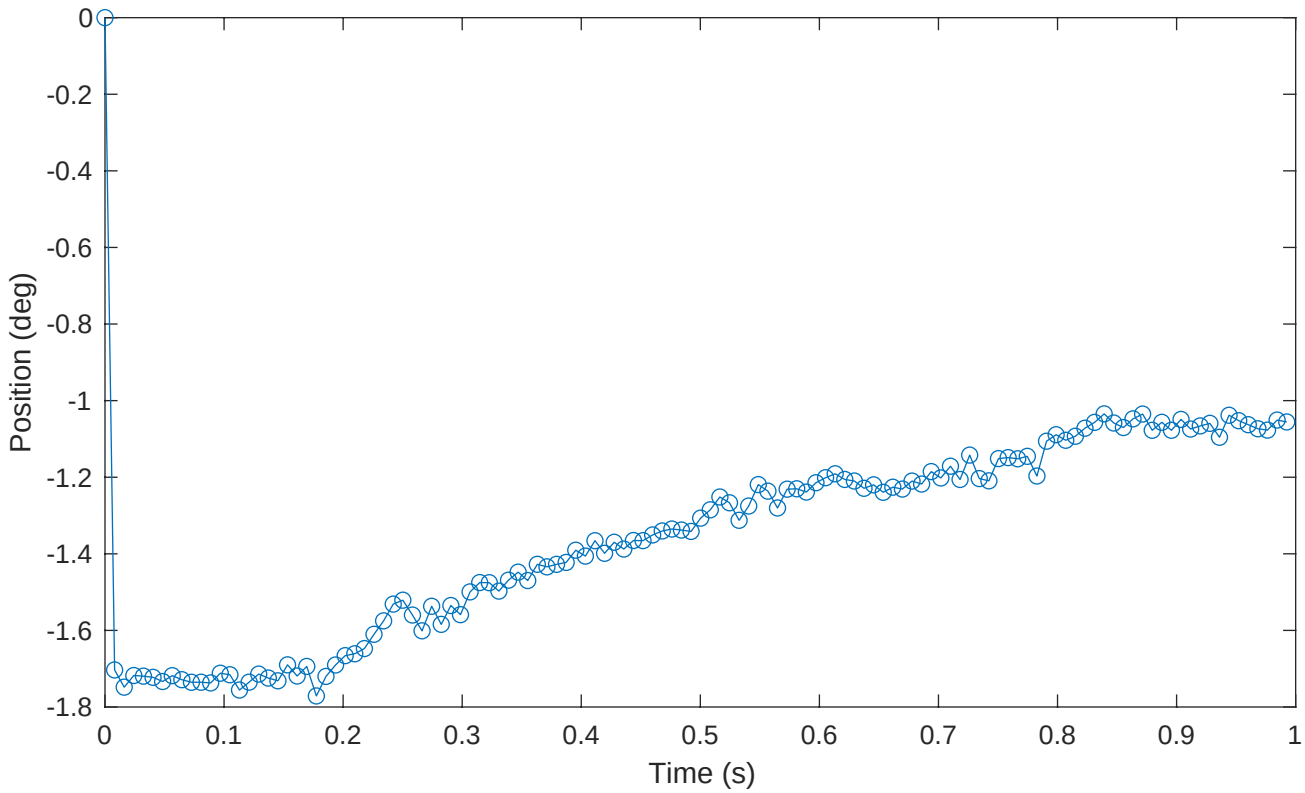

Filtered Position/Velocity: Trial 132 (External)
Position (deg)
Velocity (deg/s)
Time (s)
0
-1
-2
-3
-4
-5
-6
200
100
0
-100
-200
-300
-400
-500
0
0.1
0.2
0.3
0.4
0.5
0.6
0.7
0.8
0.9
1
Externally Filtered Position
Externally Filtered Velocity

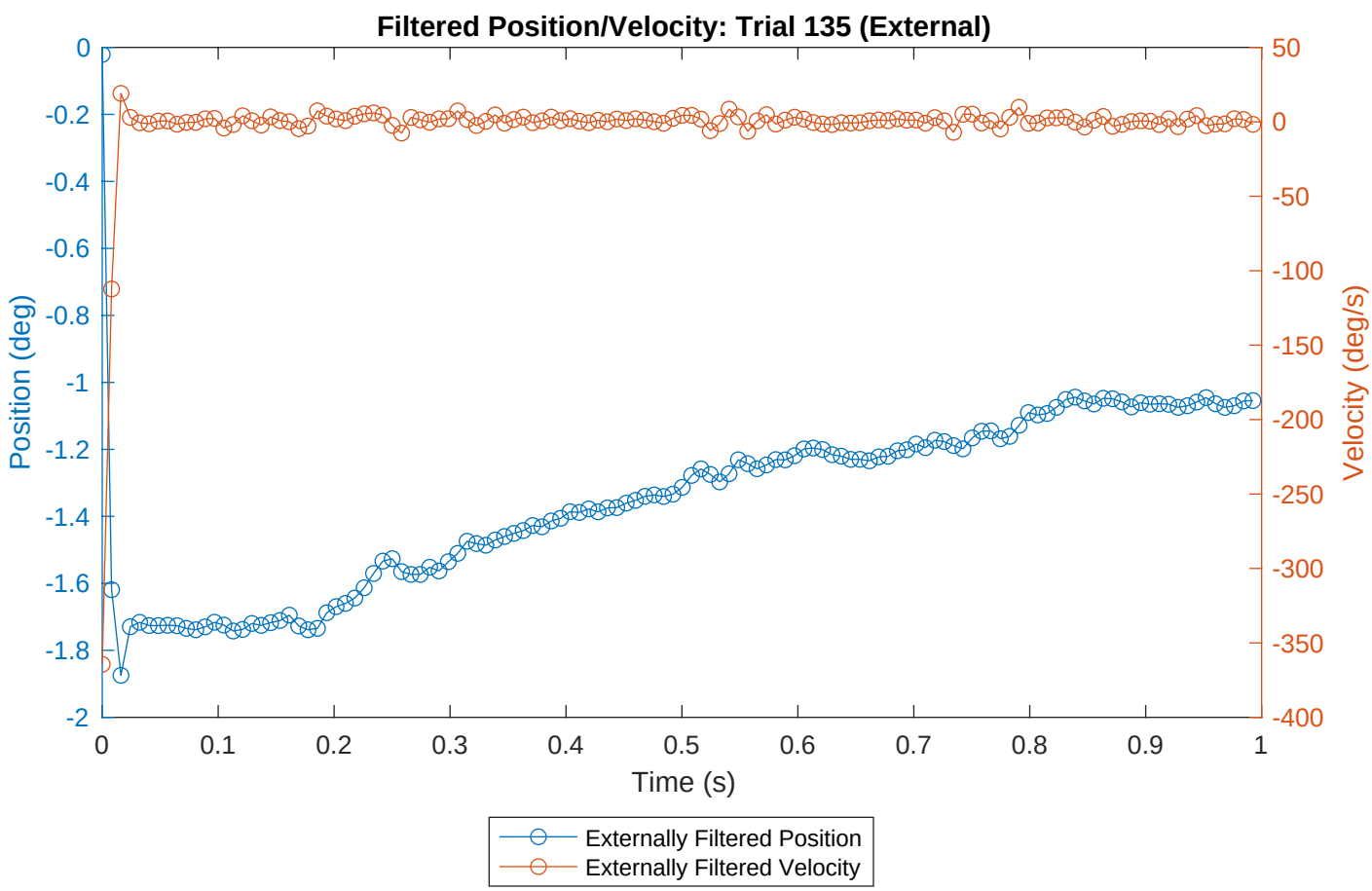

0
-0.5
-1
-1.5
-2
-2.5
Position (deg)
0
0.1
0.2
0.3
0.4
0.5
0.6
0.7
0.8
0.9
1
Time (s)

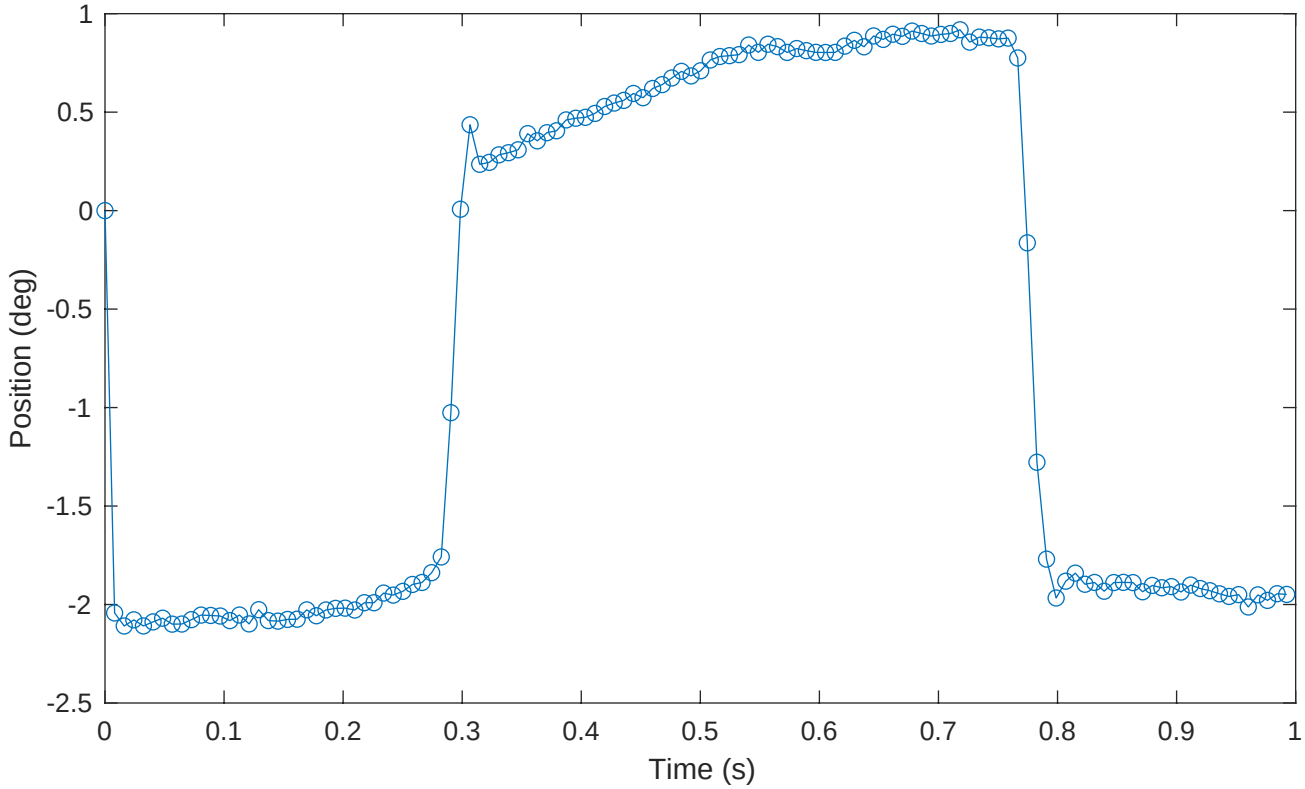

Filtered Position/Velocity: Trial 133 (External)
0
-0.5
-1
-1.5
-2
-2.5
Position (deg)
100
0
-100
-200
-300
-400
-500
Velocity (deg/s)
0
0.1
0.2
0.3
0.4
0.5
0.6
0.7
0.8
0.9
1
Time (s)
Externally Filtered Position
Externally Filtered Velocity

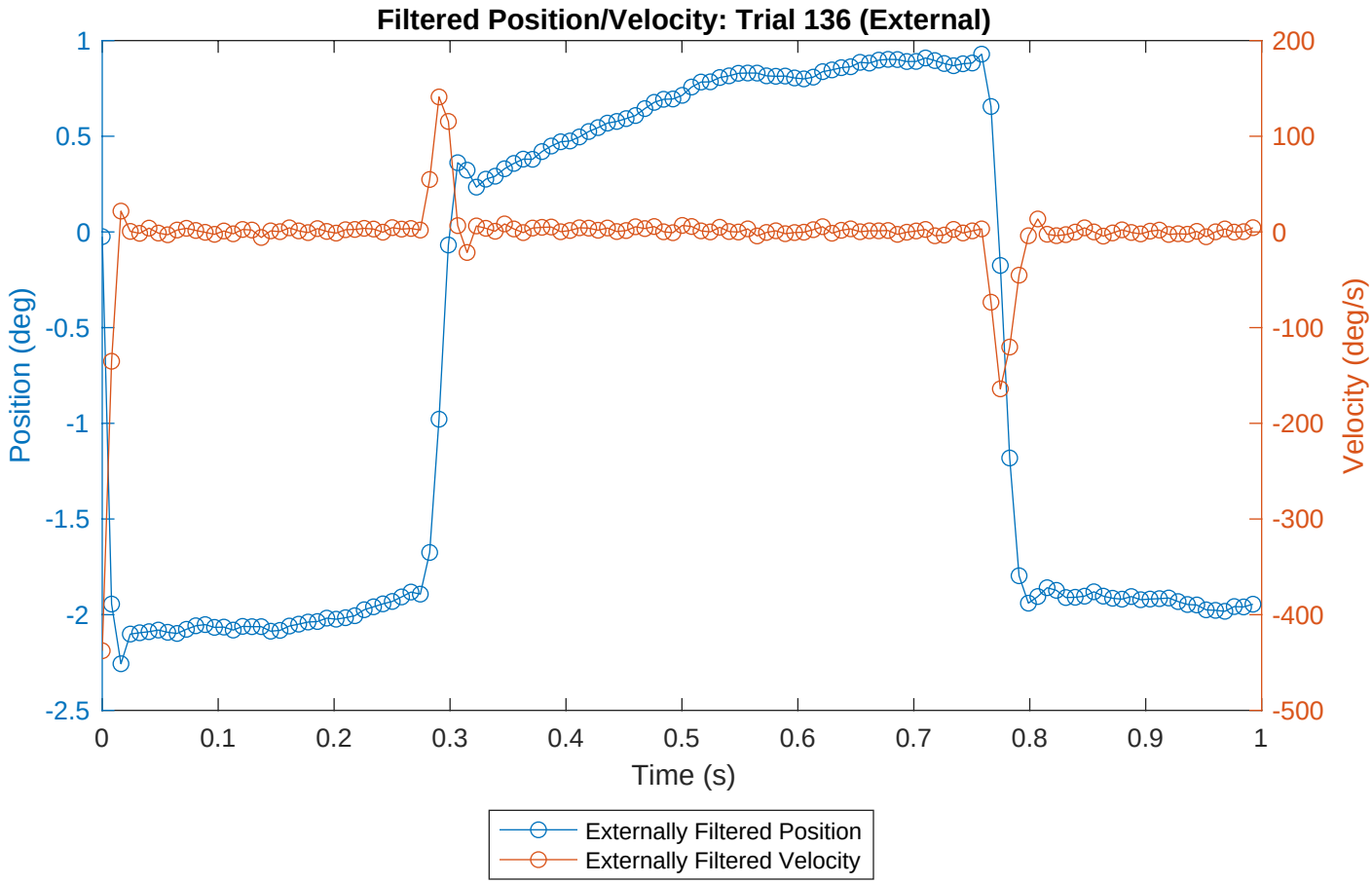

Position (deg)
Time (s)
0
-0.5
-1
-1.5
-2
-2.5
-3
0
0.1
0.2
0.3
0.4
0.5
0.6
0.7
0.8
0.9
1

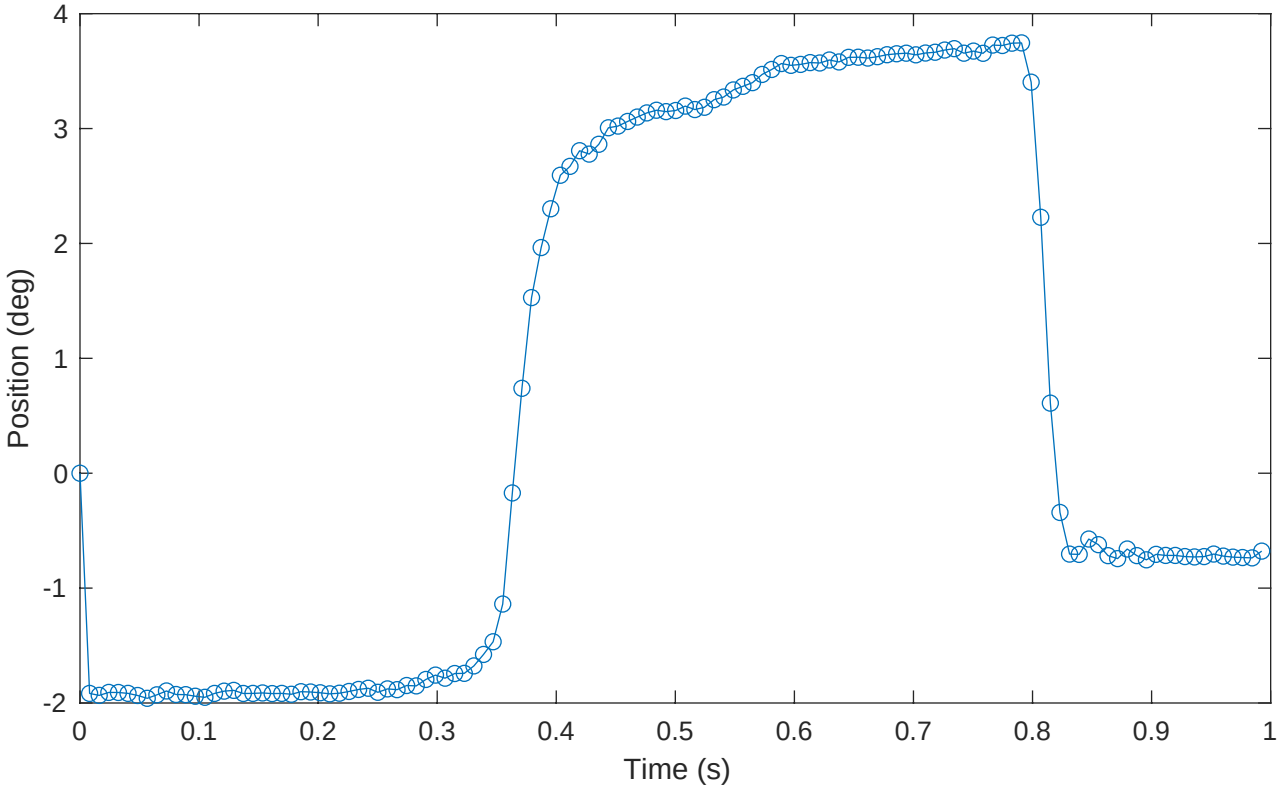

Filtered Position/Velocity: Trial 134 (External)
Position (deg)
Velocity (deg/s)
Time (s)
0
-0.5
-1
-1.5
-2
-2.5
-3
100
0
-100
-200
-300
-400
-500
0
0.1
0.2
0.3
0.4
0.5
0.6
0.7
0.8
0.9
1
Externally Filtered Position
Externally Filtered Velocity

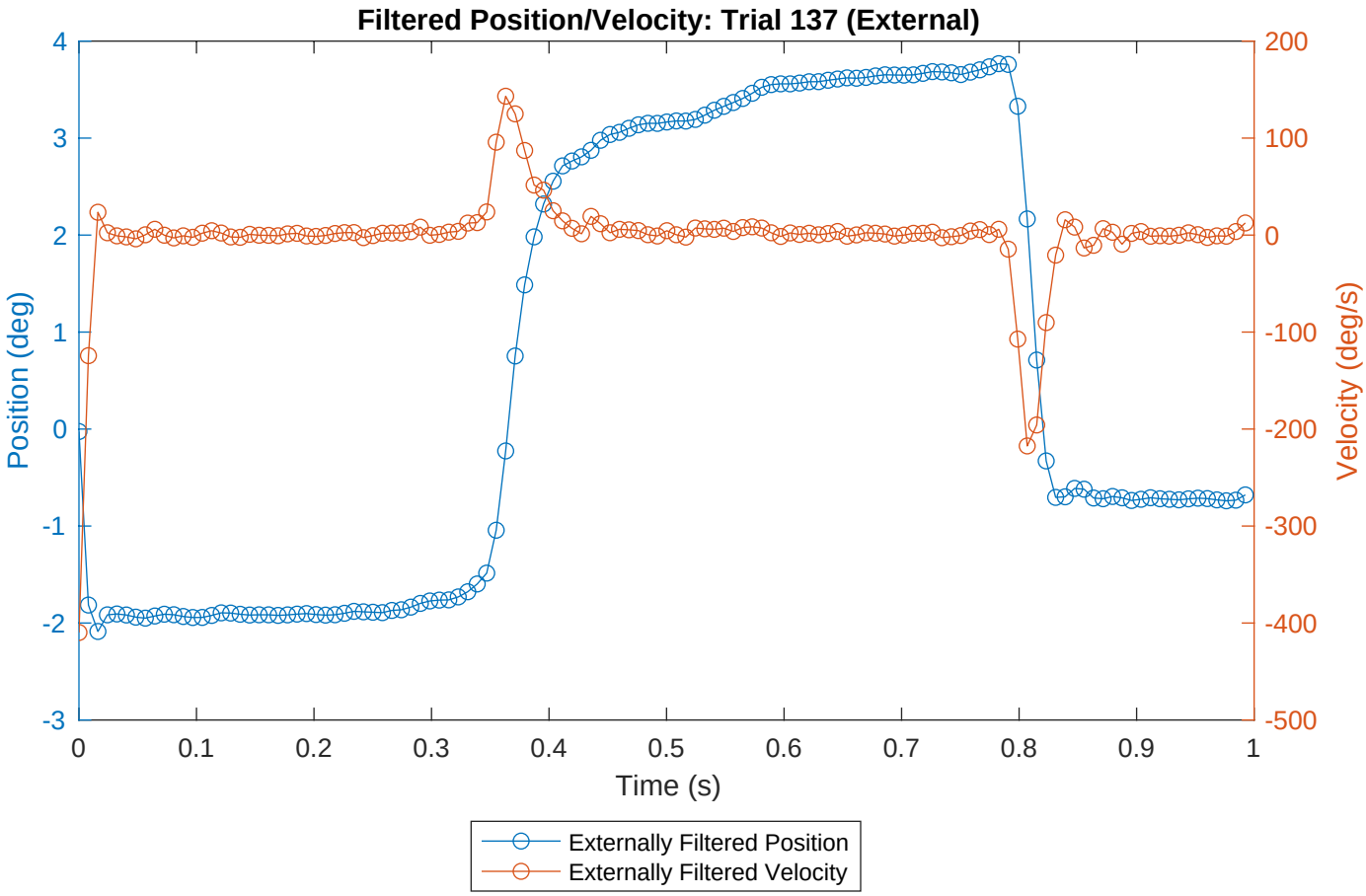

Position (deg)
Time (s)

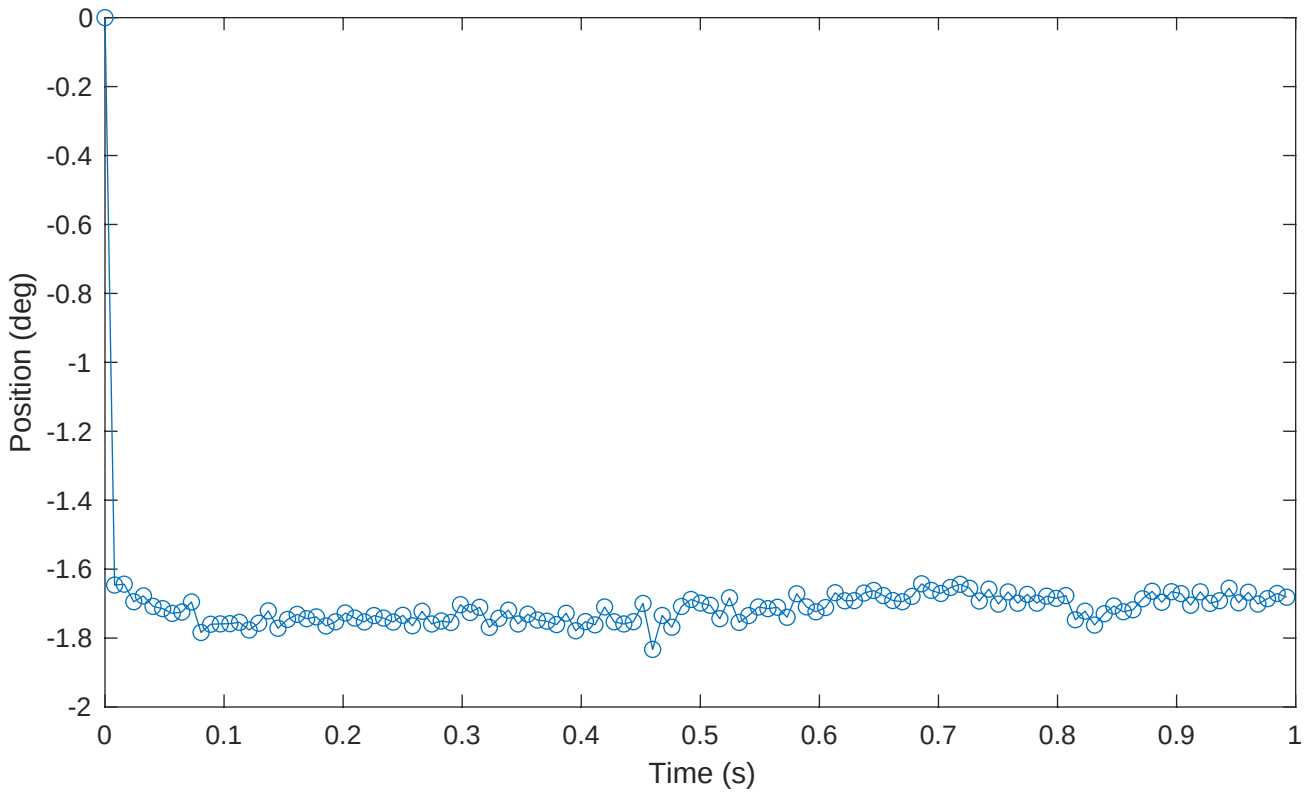

Filtered Position/Velocity: Trial 135 (External)
Position (deg)
Velocity (deg/s)
Time (s)
Externally Filtered Position
Externally Filtered Velocity

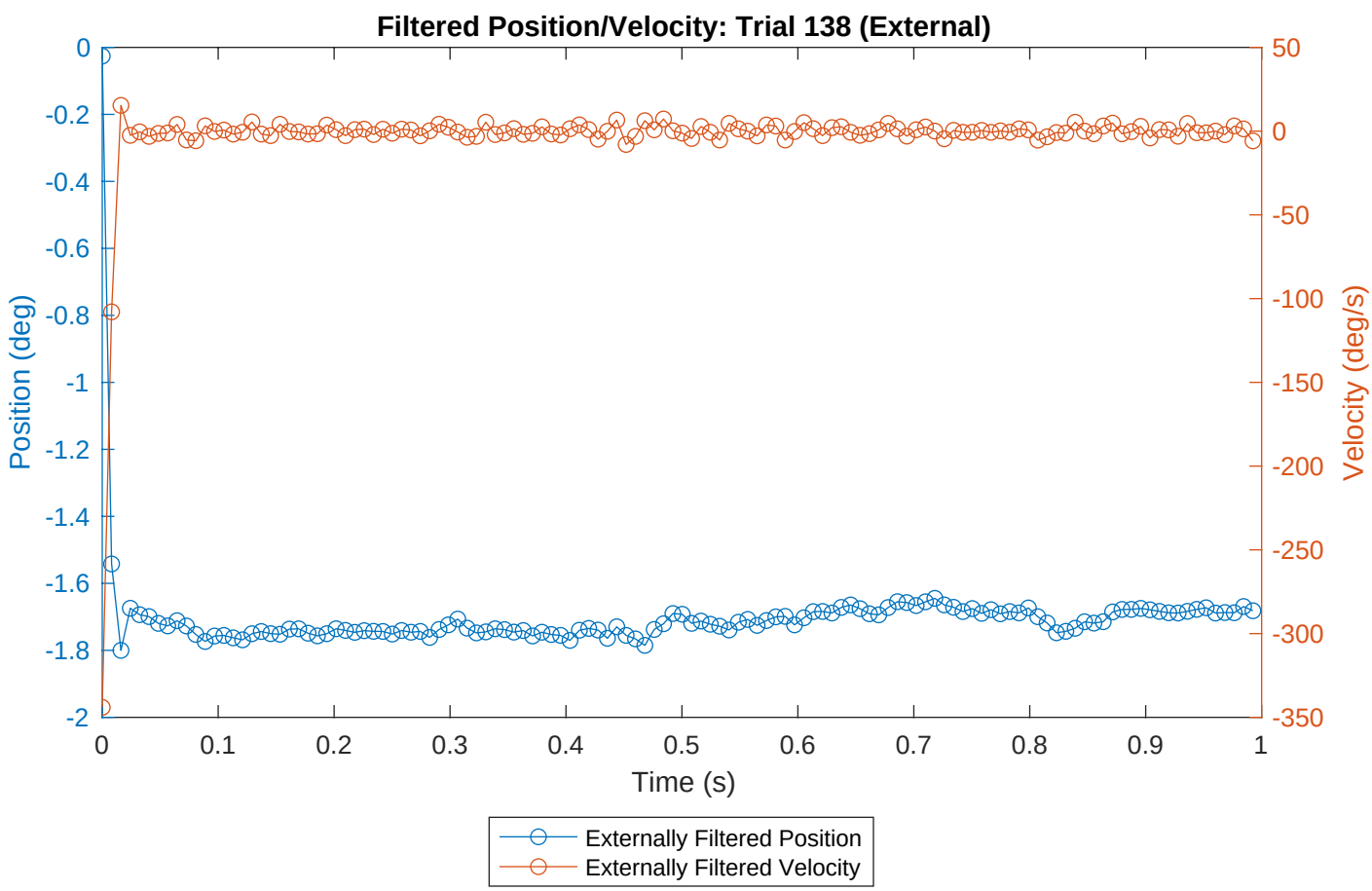

Position (deg)
Time (s)
1
0.5
0
-0.5
-1
-1.5
-2
-2.5
0
0.1
0.2
0.3
0.4
0.5
0.6
0.7
0.8
0.9
1

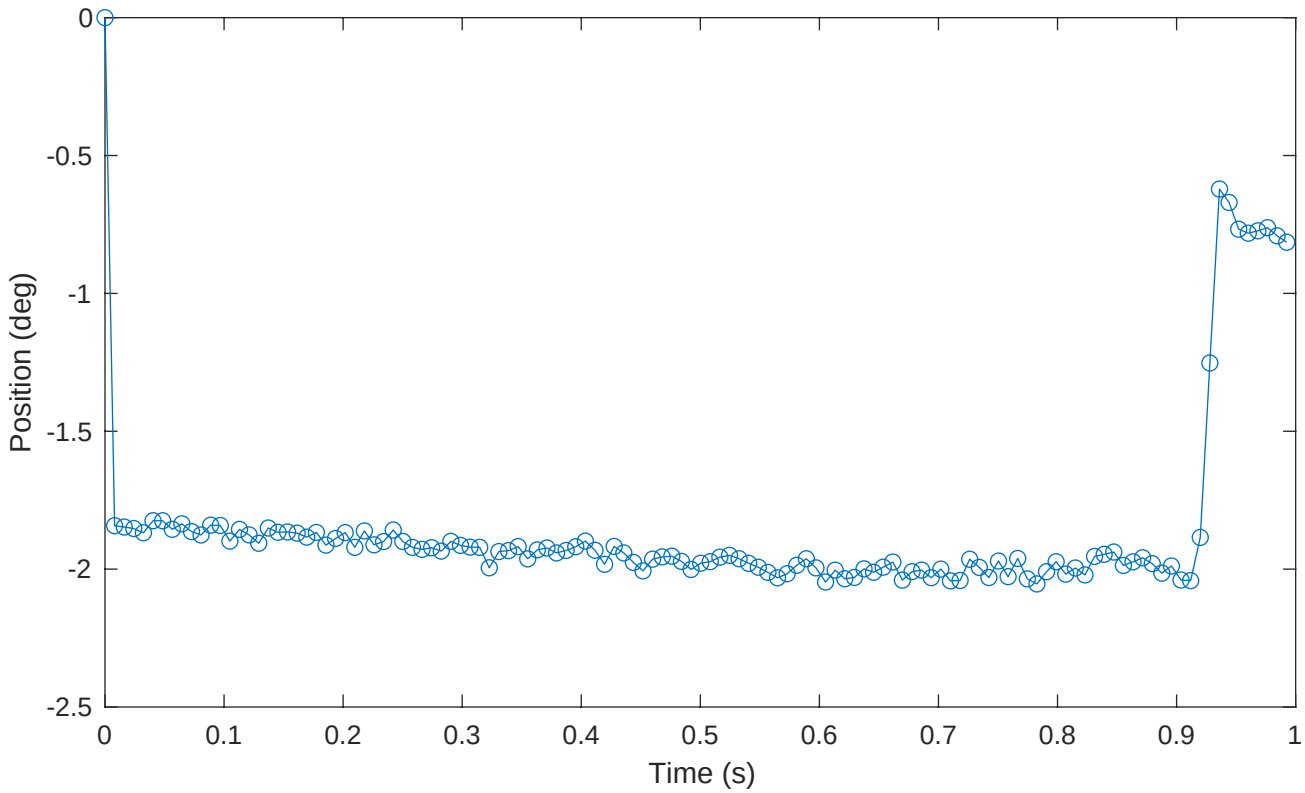

Filtered Position/Velocity: Trial 136 (External)
Position (deg)
Velocity (deg/s)
Time (s)
1
0.5
0
-0.5
-1
-1.5
-2
-2.5
200
100
0
-100
-200
-300
-400
-500
0
0.1
0.2
0.3
0.4
0.5
0.6
0.7
0.8
0.9
1
Externally Filtered Position
Externally Filtered Velocity

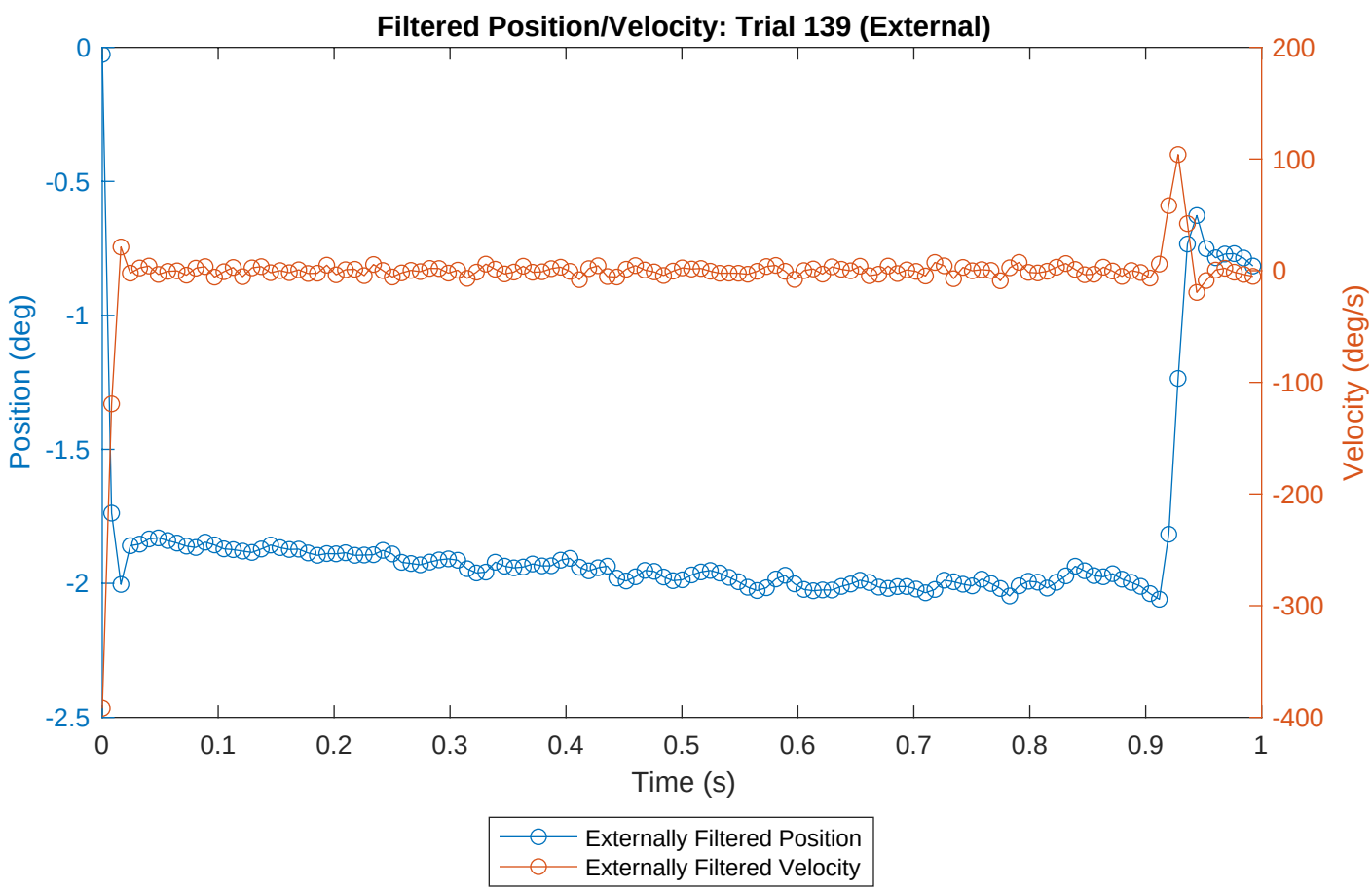

Position (deg)
Time (s)

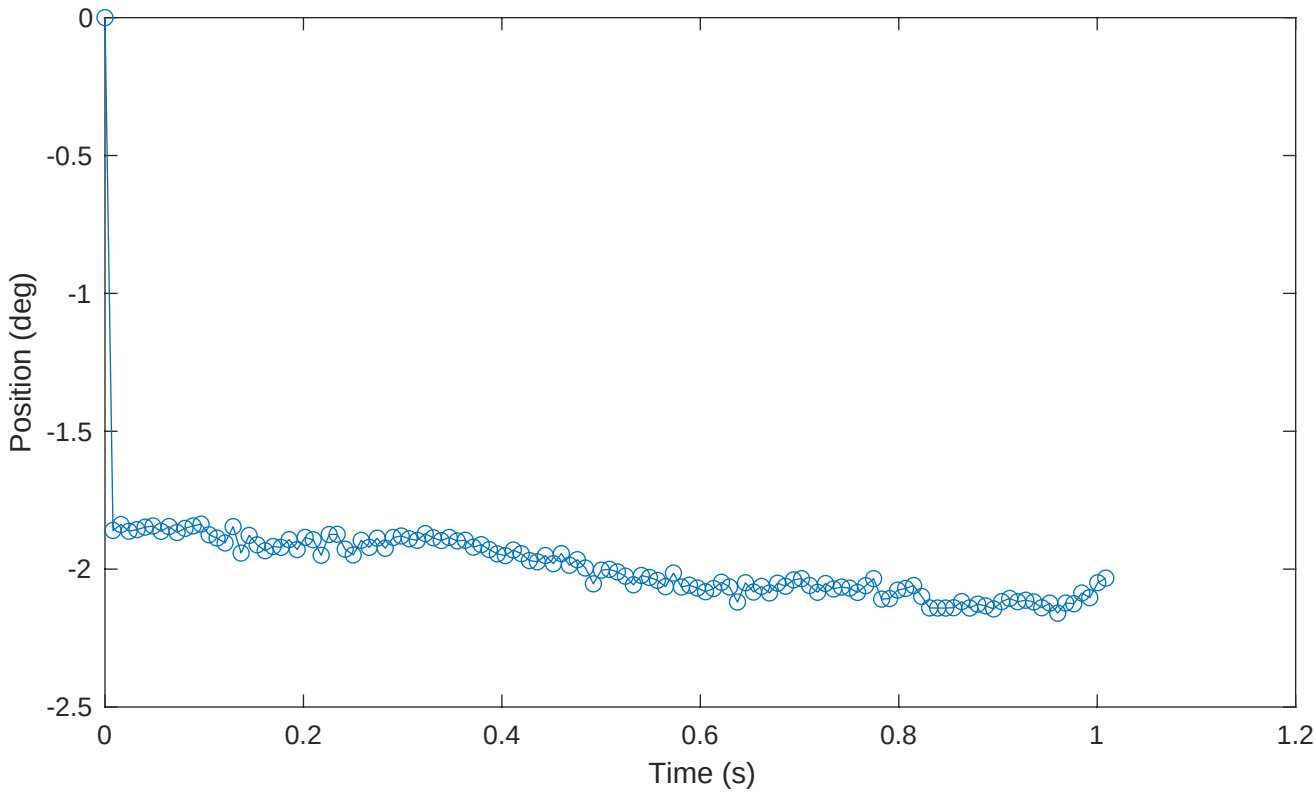

Filtered Position/Velocity: Trial 137 (External)
Position (deg)
Velocity (deg/s)
Time (s)
Externally Filtered Position
Externally Filtered Velocity

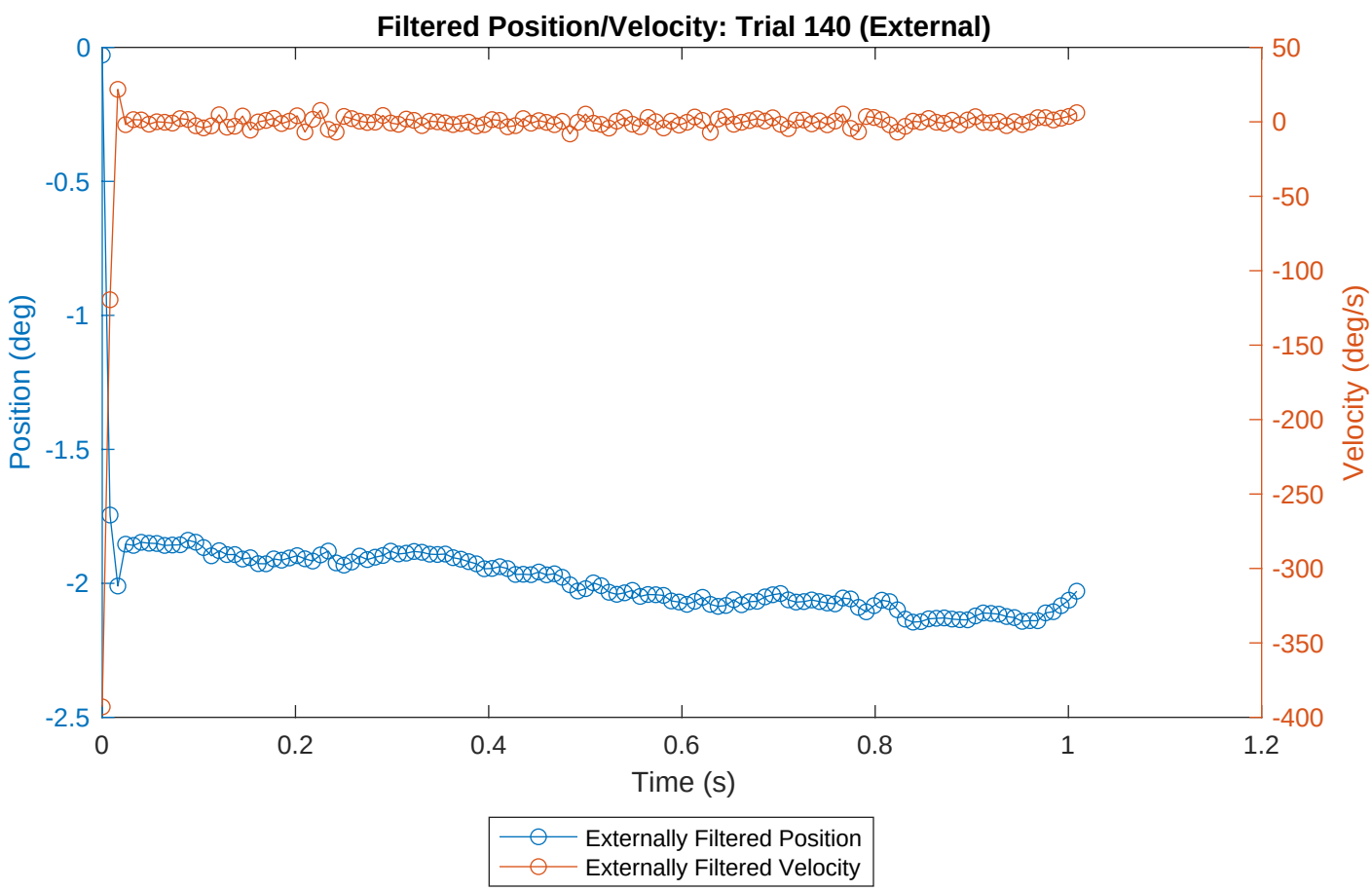

Position (deg)
Time (s)

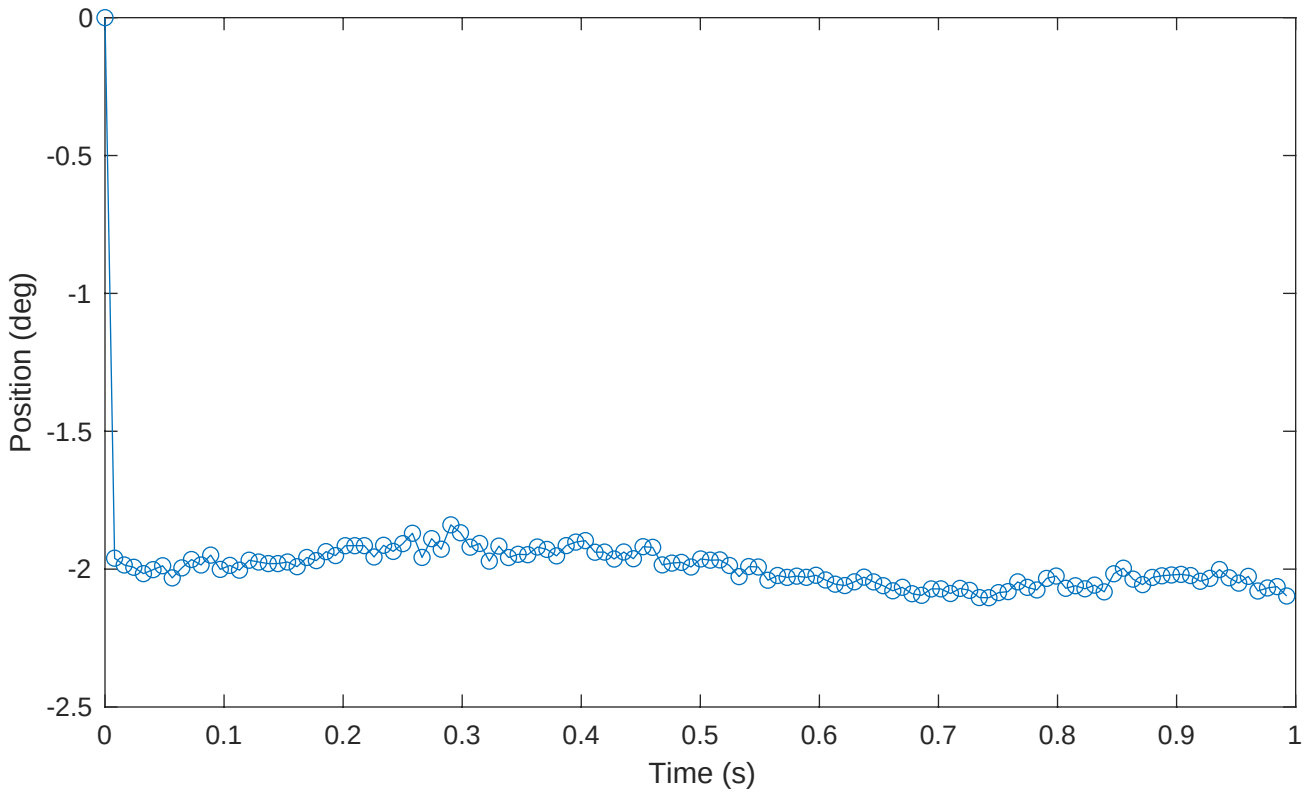

Filtered Position/Velocity: Trial 138 (External)
Position (deg)
Velocity (deg/s)
Time (s)
Externally Filtered Position
Externally Filtered Velocity

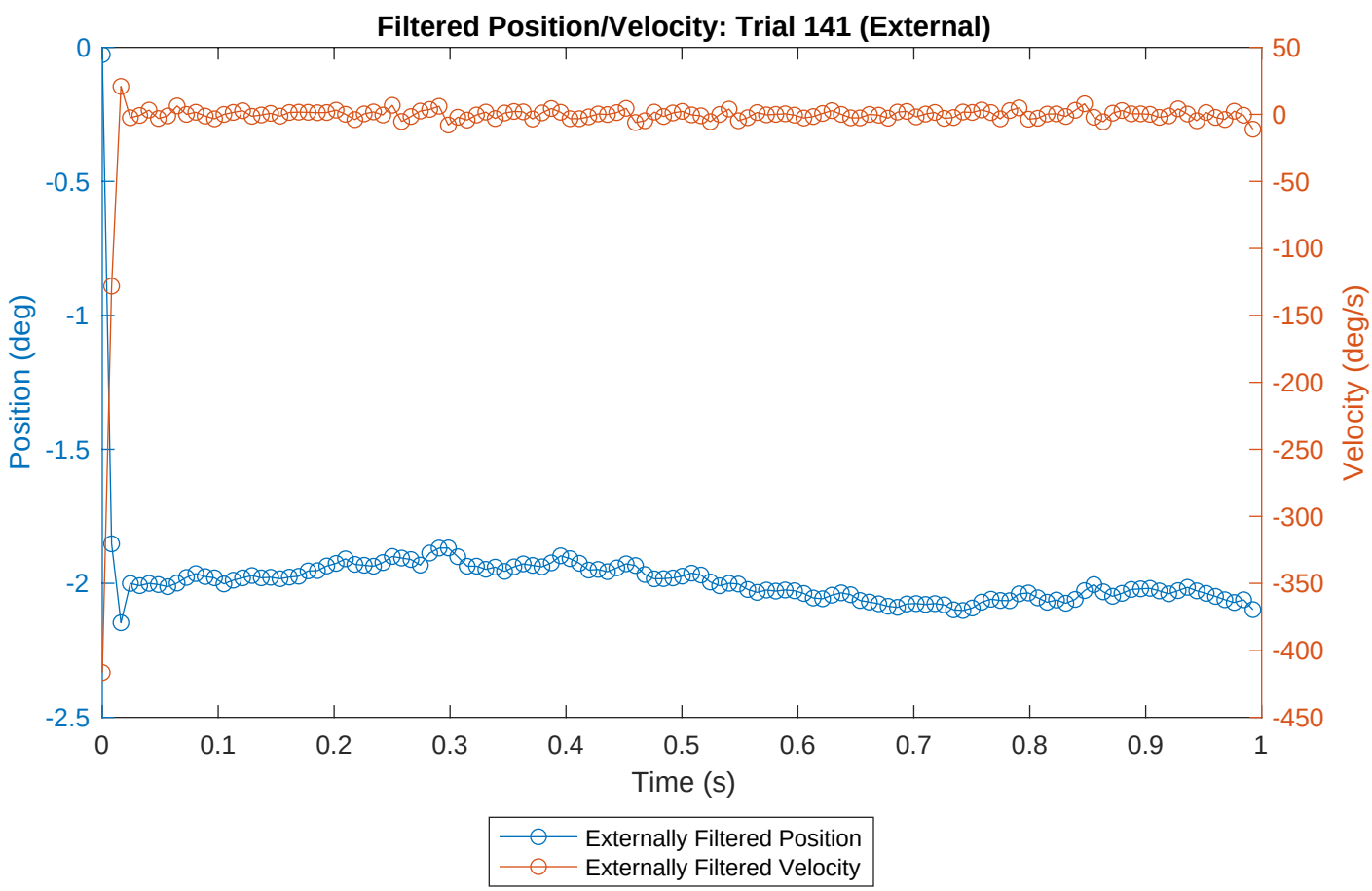

0
-0.5
-1
-1.5
-2
-2.5
Position (deg)
0
0.1
0.2
0.3
0.4
0.5
0.6
0.7
0.8
0.9
1
Time (s)

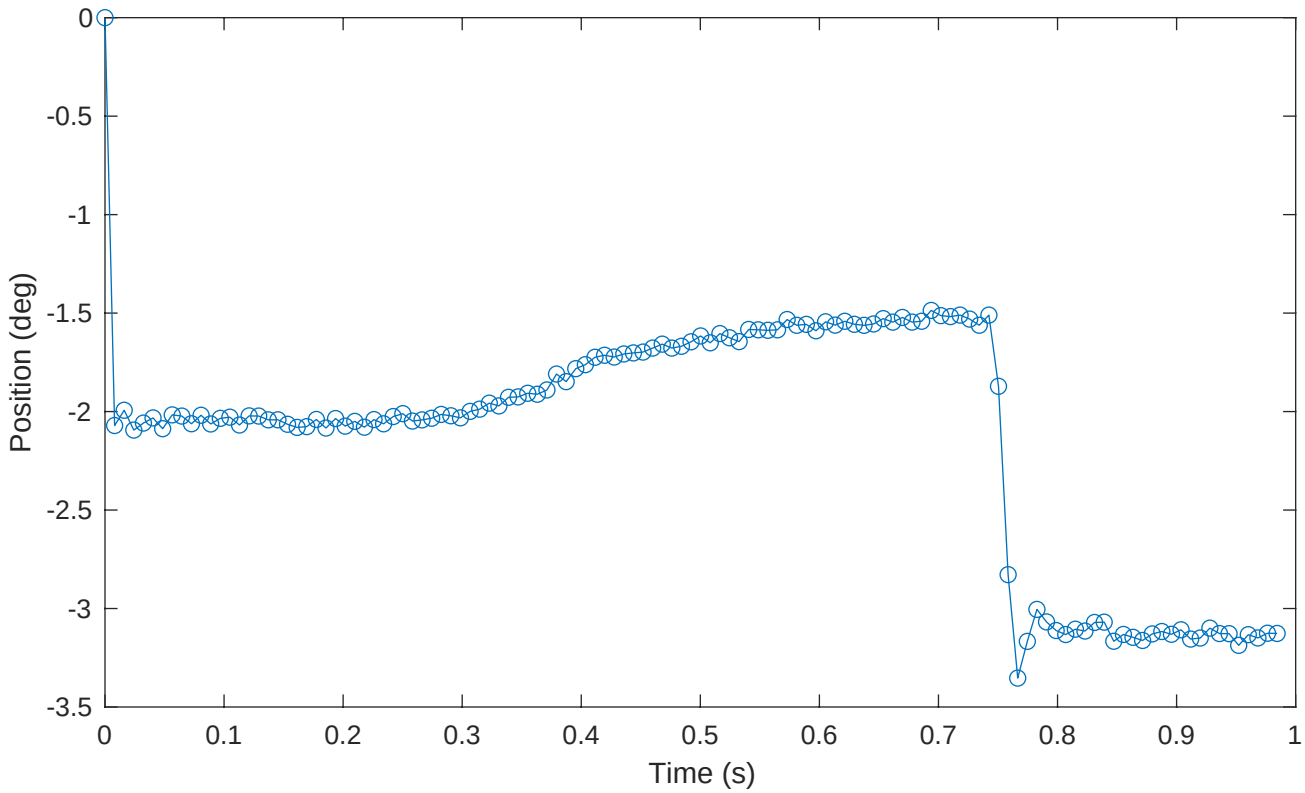

Filtered Position/Velocity: Trial 139 (External)
0
-0.5
-1
-1.5
-2
-2.5
Position (deg)
200
100
0
-100
-200
-300
-400
Velocity (deg/s)
0
0.1
0.2
0.3
0.4
0.5
0.6
0.7
0.8
0.9
1
Time (s)
Externally Filtered Position
Externally Filtered Velocity

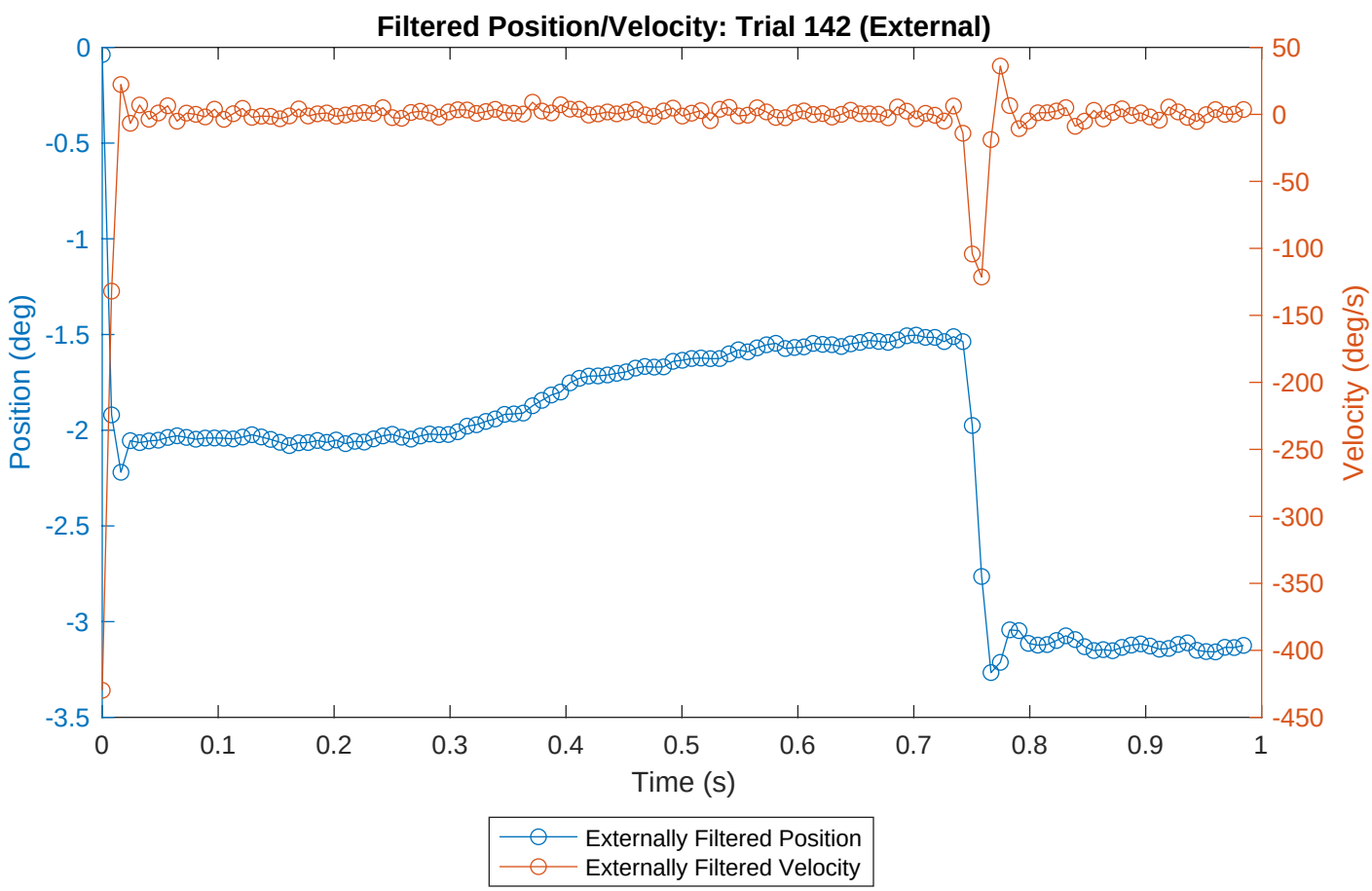

0
-0.5
-1
-1.5
-2
-2.5
Position (deg)
0
0.2
0.4
0.6
0.8
1
1.2
Time (s)

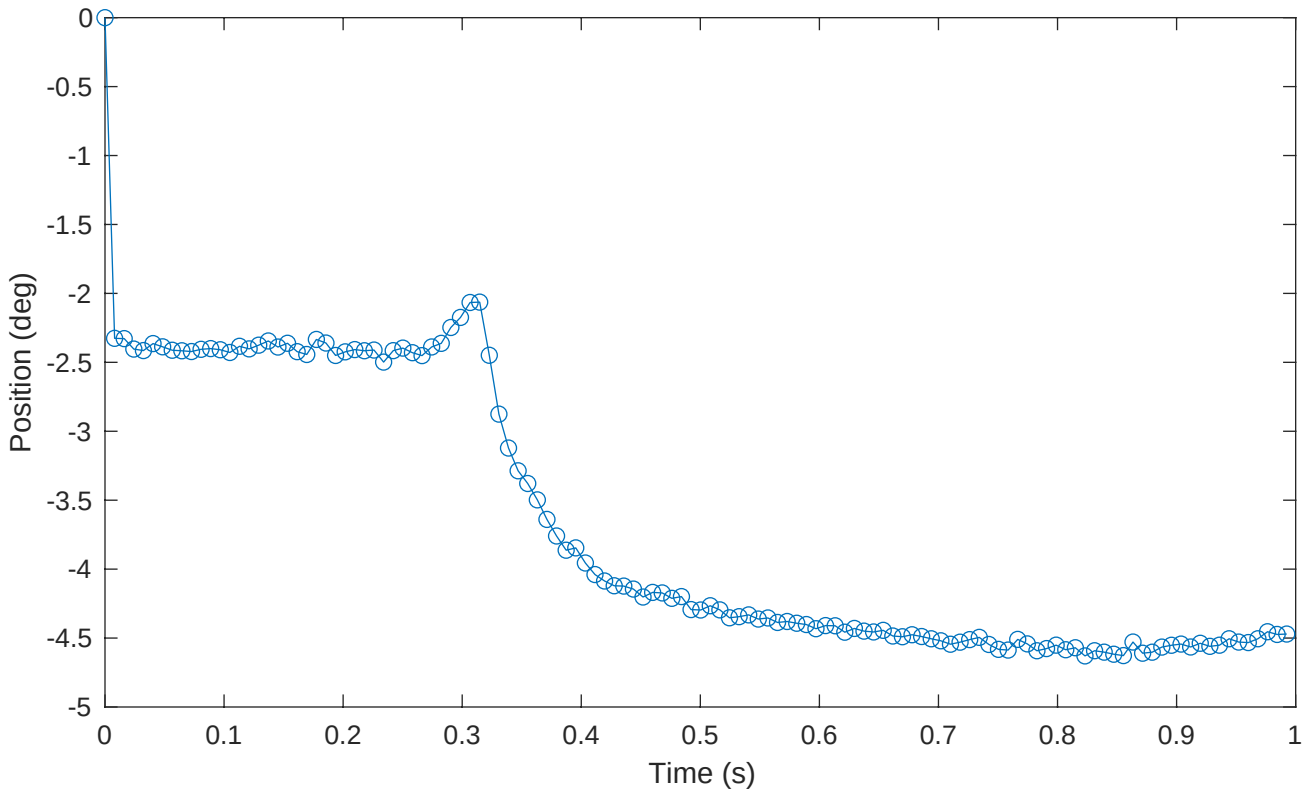

Filtered Position/Velocity: Trial 140 (External)
0
-0.5
-1
-1.5
-2
-2.5
Position (deg)
50
0
-50
-100
-150
-200
-250
-300
-350
-400
Velocity (deg/s)
0
0.2
0.4
0.6
0.8
1
1.2
Time (s)
Externally Filtered Position
Externally Filtered Velocity

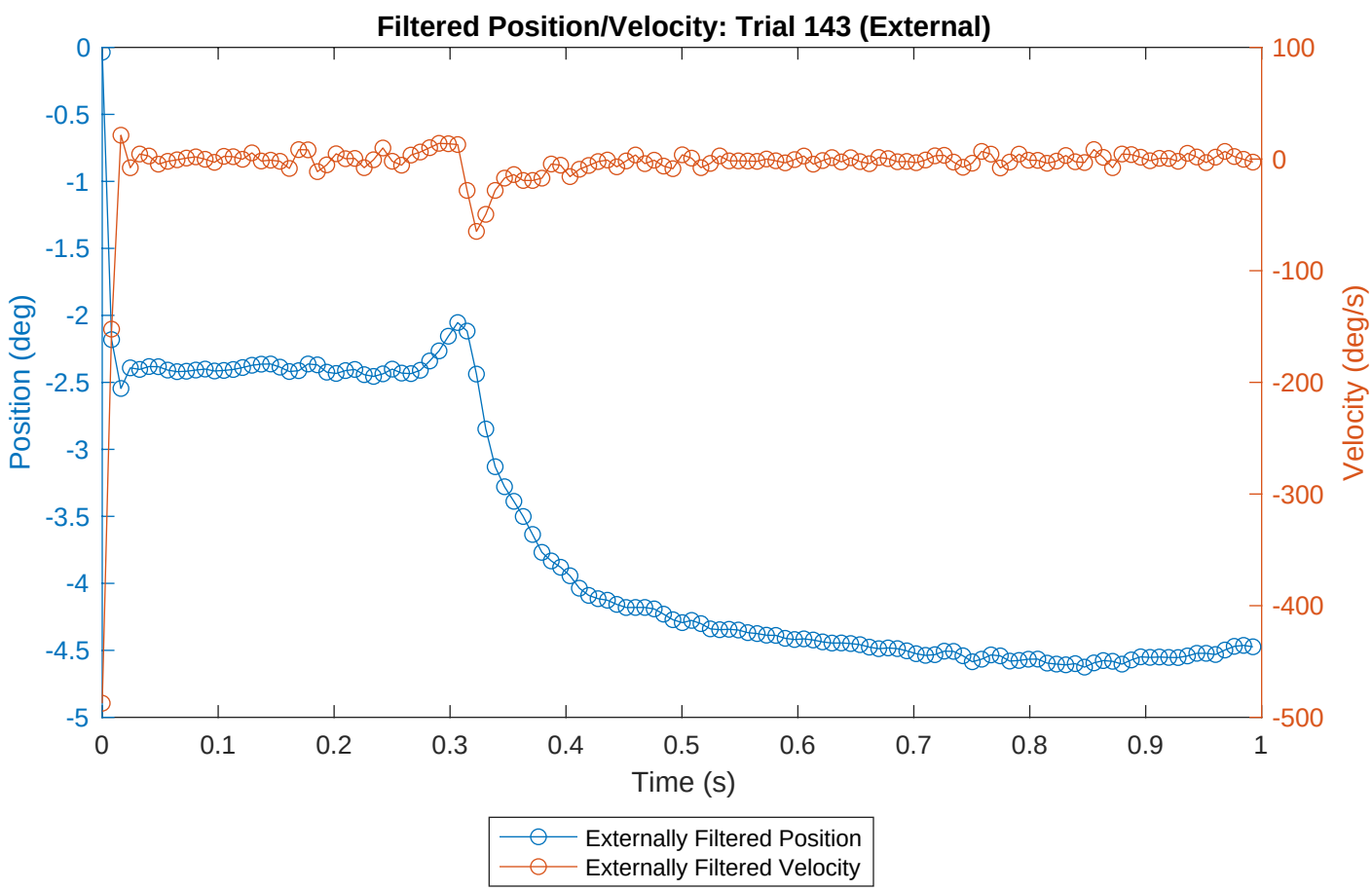

0
-0.5
-1
-1.5
-2
-2.5
Position (deg)
0
0.1
0.2
0.3
0.4
0.5
0.6
0.7
0.8
0.9
1
Time (s)

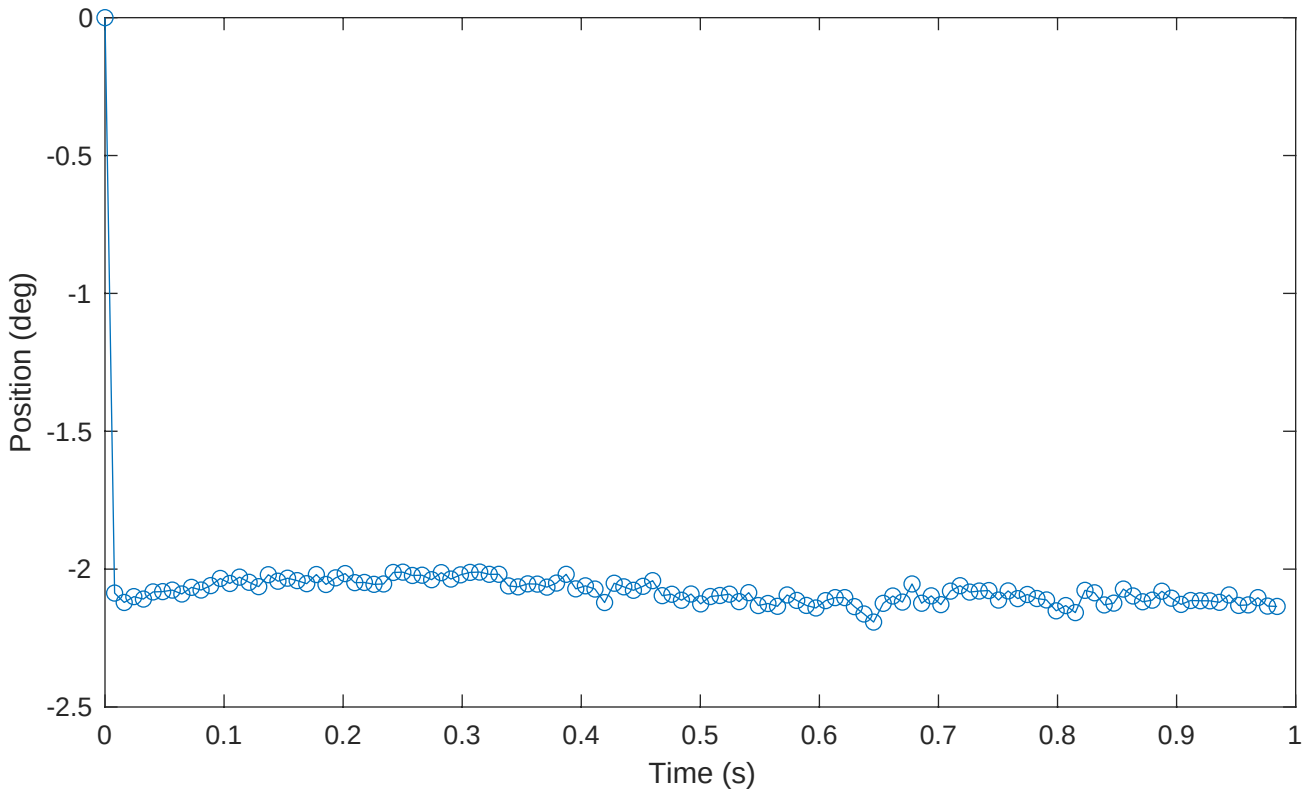

Filtered Position/Velocity: Trial 141 (External)
0
-0.5
-1
-1.5
-2
-2.5
Position (deg)
50
0
-50
-100
-150
-200
-250
-300
-350
-400
-450
Velocity (deg/s)
0
0.1
0.2
0.3
0.4
0.5
0.6
0.7
0.8
0.9
1
Time (s)
Externally Filtered Position
Externally Filtered Velocity

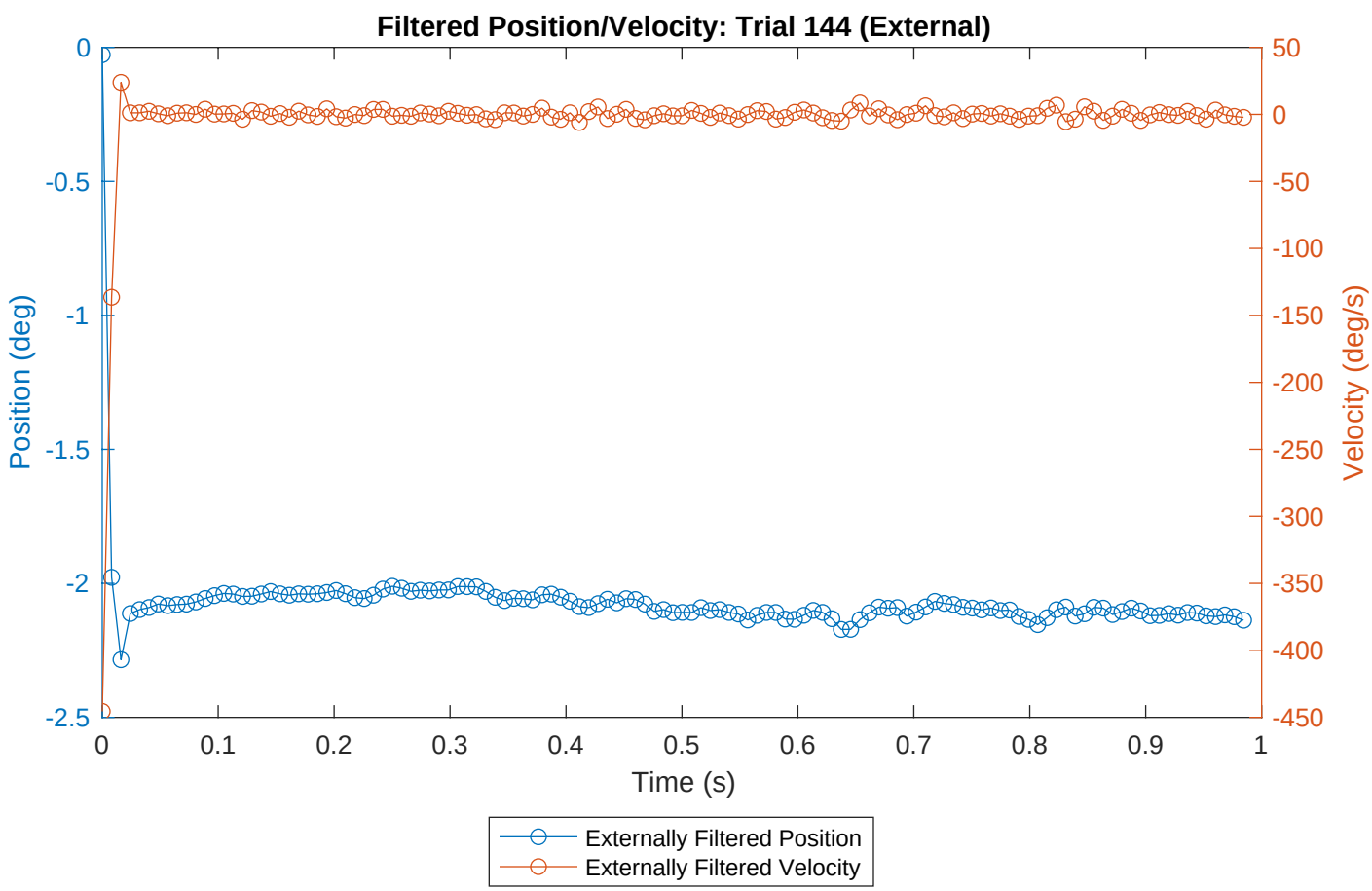

Position (deg)
Time (s)
0
-0.5
-1
-1.5
-2
-2.5
-3
-3.5
0
0.1
0.2
0.3
0.4
0.5
0.6
0.7
0.8
0.9
1

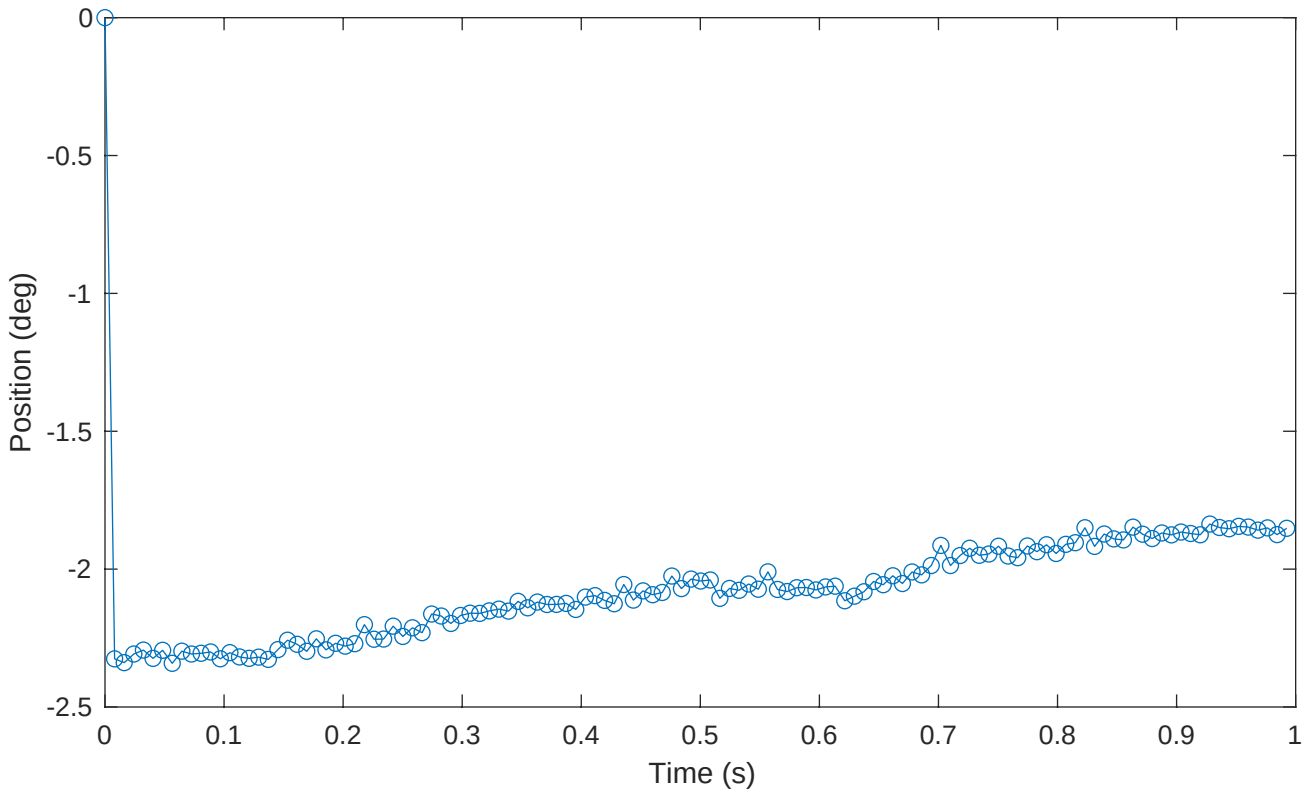

Filtered Position/Velocity: Trial 142 (External)
Position (deg)
Velocity (deg/s)
Time (s)
0
-0.5
-1
-1.5
-2
-2.5
-3
-3.5
50
0
-50
-100
-150
-200
-250
-300
-350
-400
-450
0
0.1
0.2
0.3
0.4
0.5
0.6
0.7
0.8
0.9
1
Externally Filtered Position
Externally Filtered Velocity

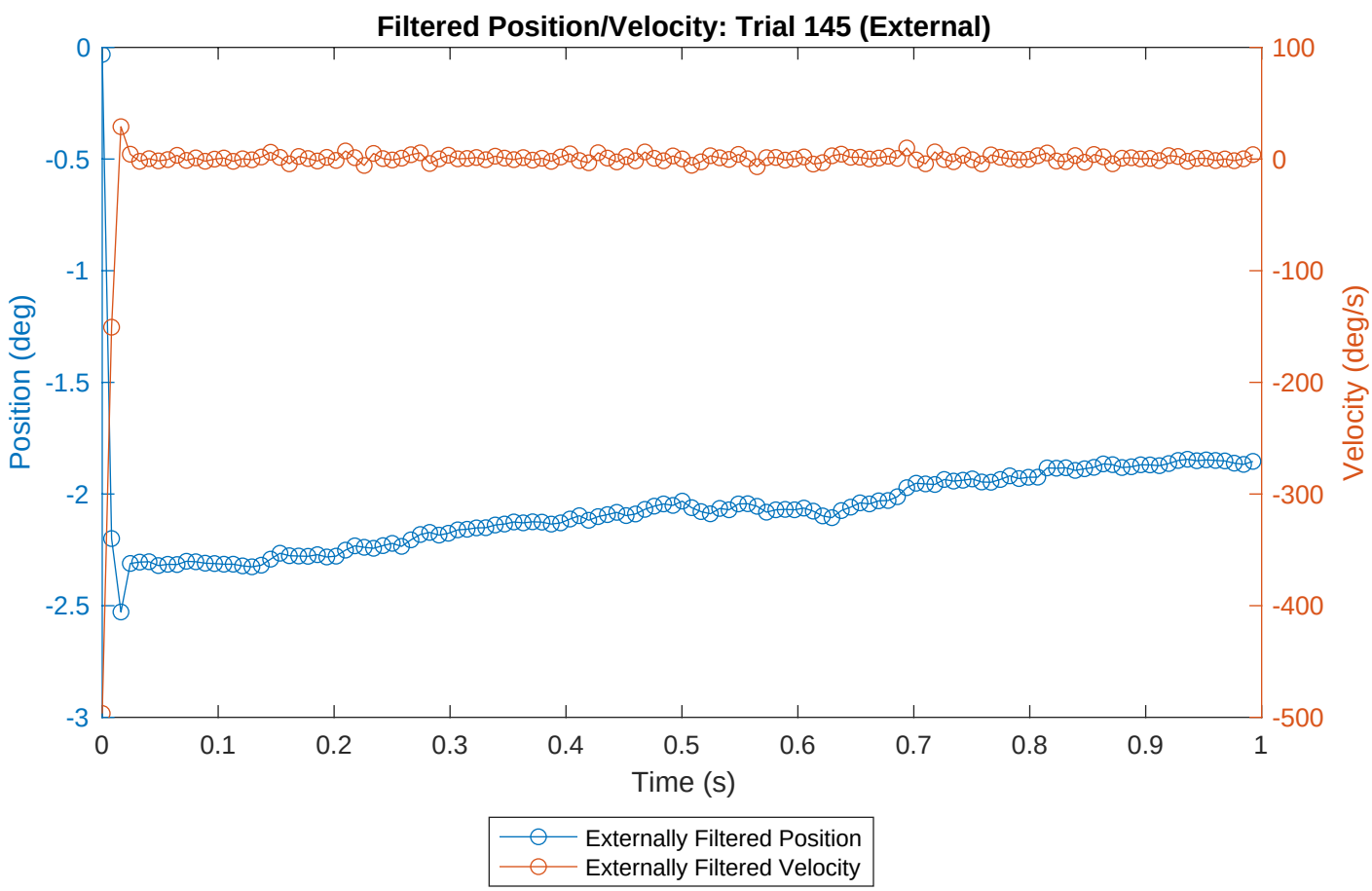

Position (deg)
Time (s)
0
-0.5
-1
-1.5
-2
-2.5
-3
-3.5
-4
-4.5
-5
0
0.1
0.2
0.3
0.4
0.5
0.6
0.7
0.8
0.9
1

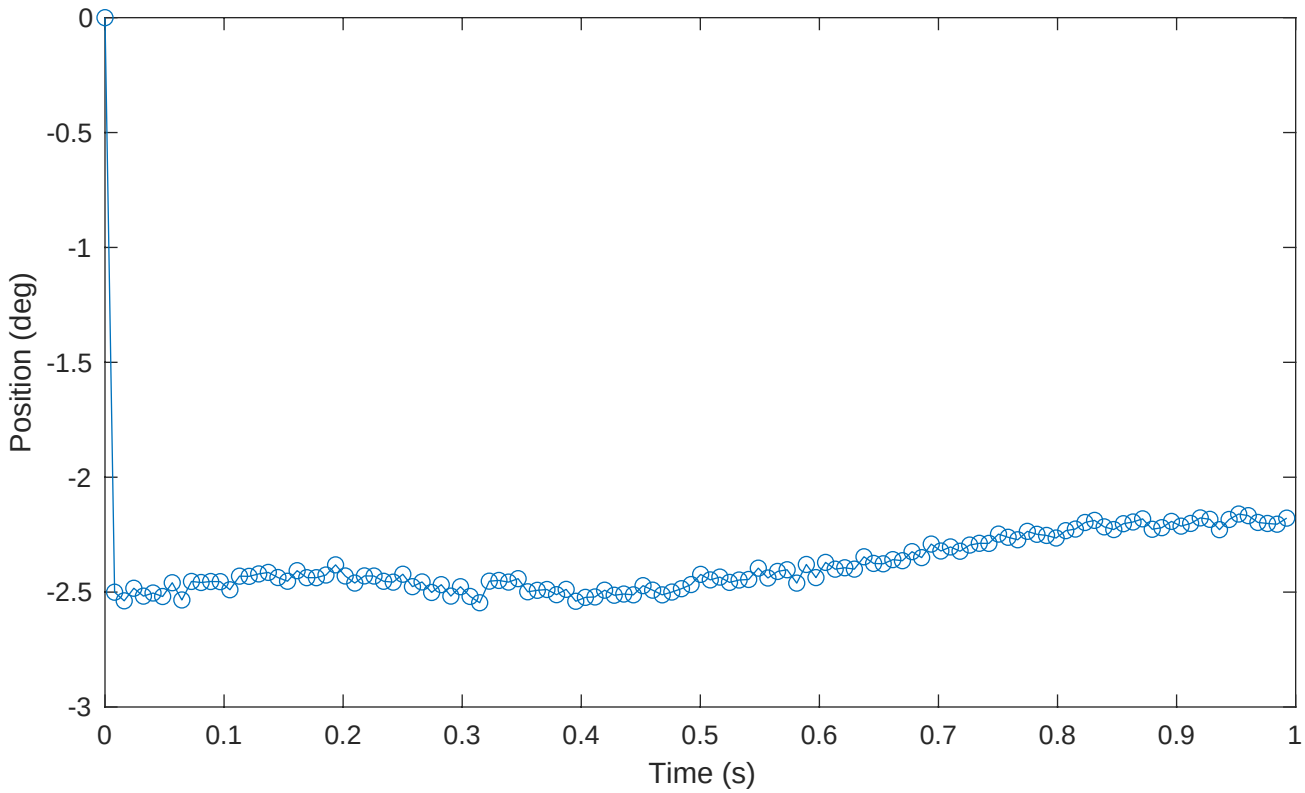

Filtered Position/Velocity: Trial 143 (External)
Position (deg)
Velocity (deg/s)
Time (s)
0
-0.5
-1
-1.5
-2
-2.5
-3
-3.5
-4
-4.5
-5
100
0
-100
-200
-300
-400
-500
0
0.1
0.2
0.3
0.4
0.5
0.6
0.7
0.8
0.9
1
Externally Filtered Position
Externally Filtered Velocity

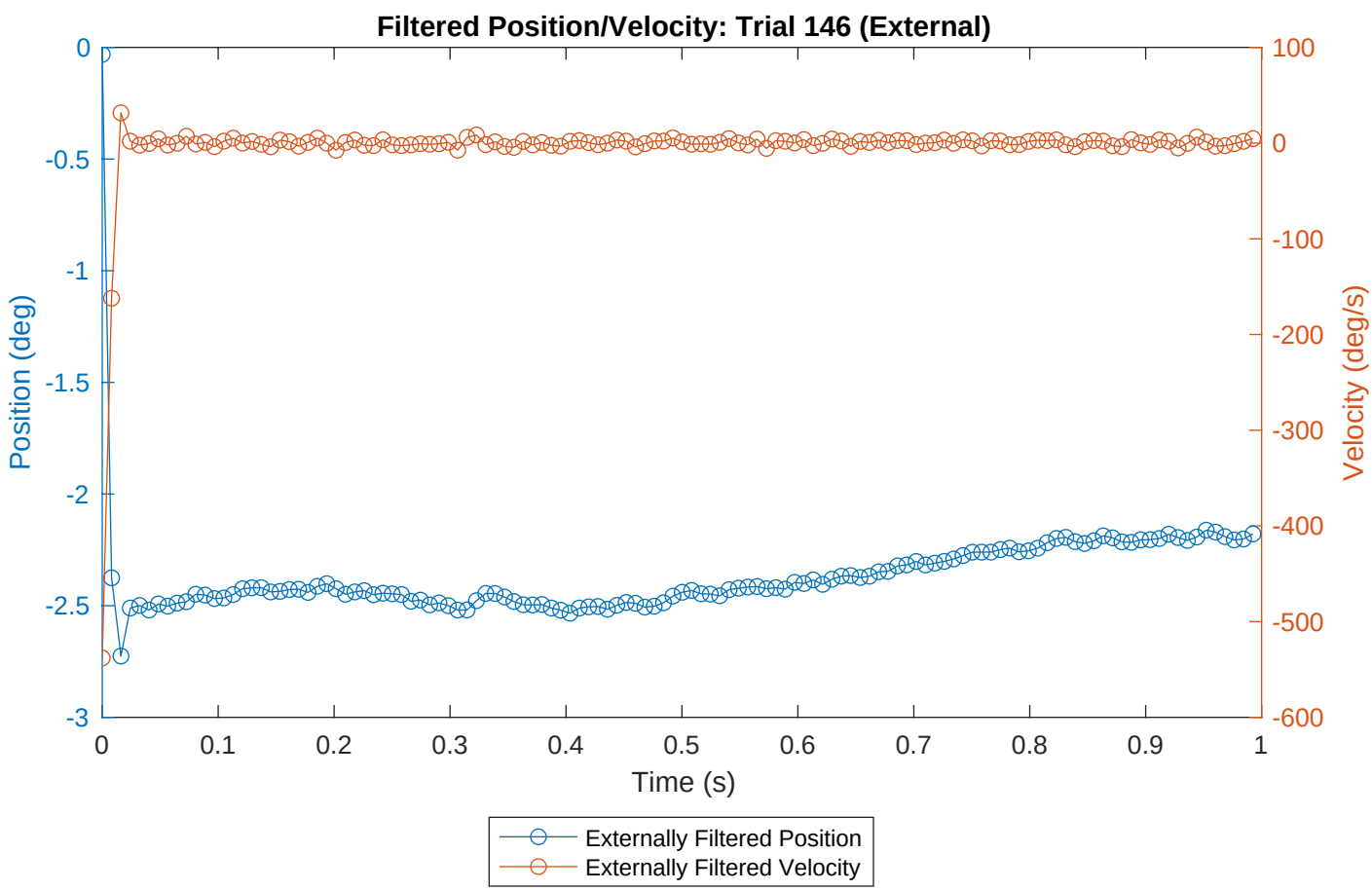

0
-0.5
-1
-1.5
-2
-2.5
Position (deg)
0
0.1
0.2
0.3
0.4
0.5
0.6
0.7
0.8
0.9
1
Time (s)

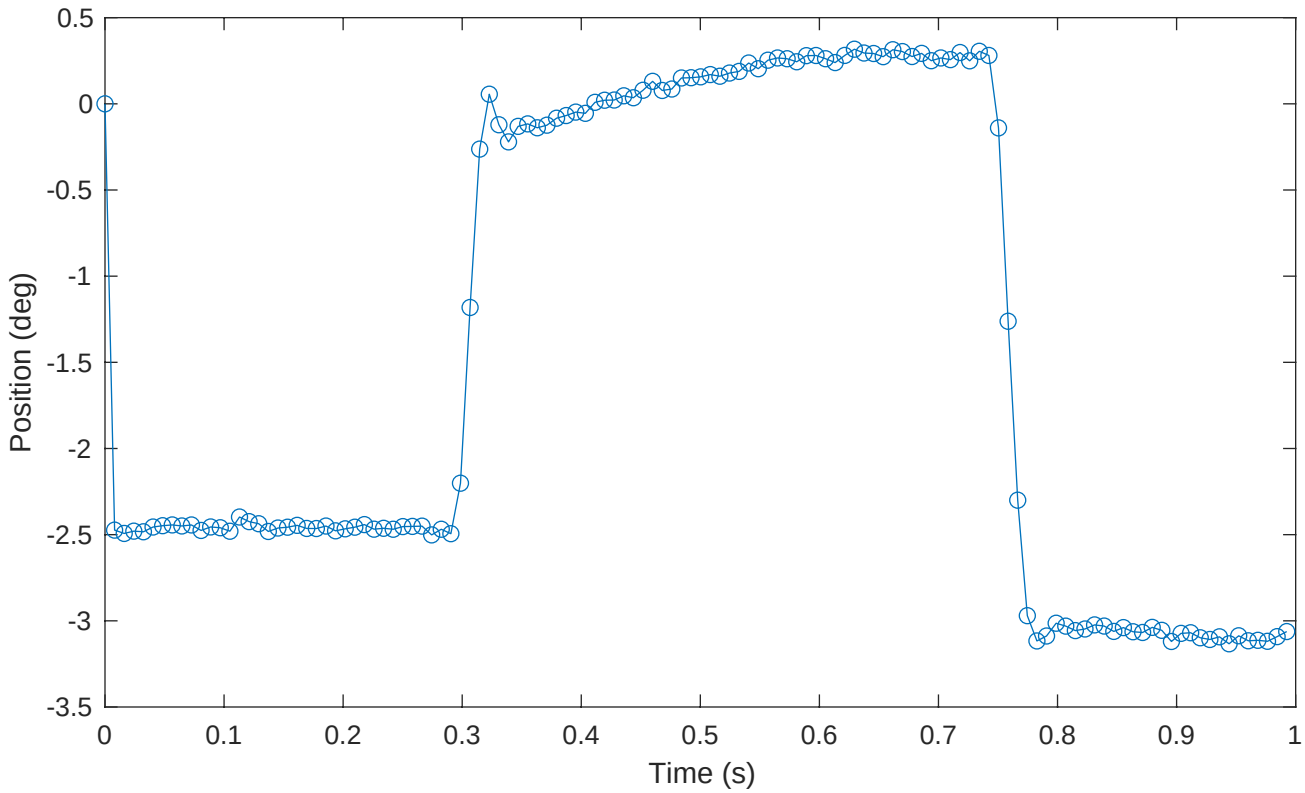

Filtered Position/Velocity: Trial 144 (External)
0
-0.5
-1
-1.5
-2
-2.5
Position (deg)
50
0
-50
-100
-150
-200
-250
-300
-350
-400
-450
Velocity (deg/s)
0
0.1
0.2
0.3
0.4
0.5
0.6
0.7
0.8
0.9
1
Time (s)
Externally Filtered Position
Externally Filtered Velocity

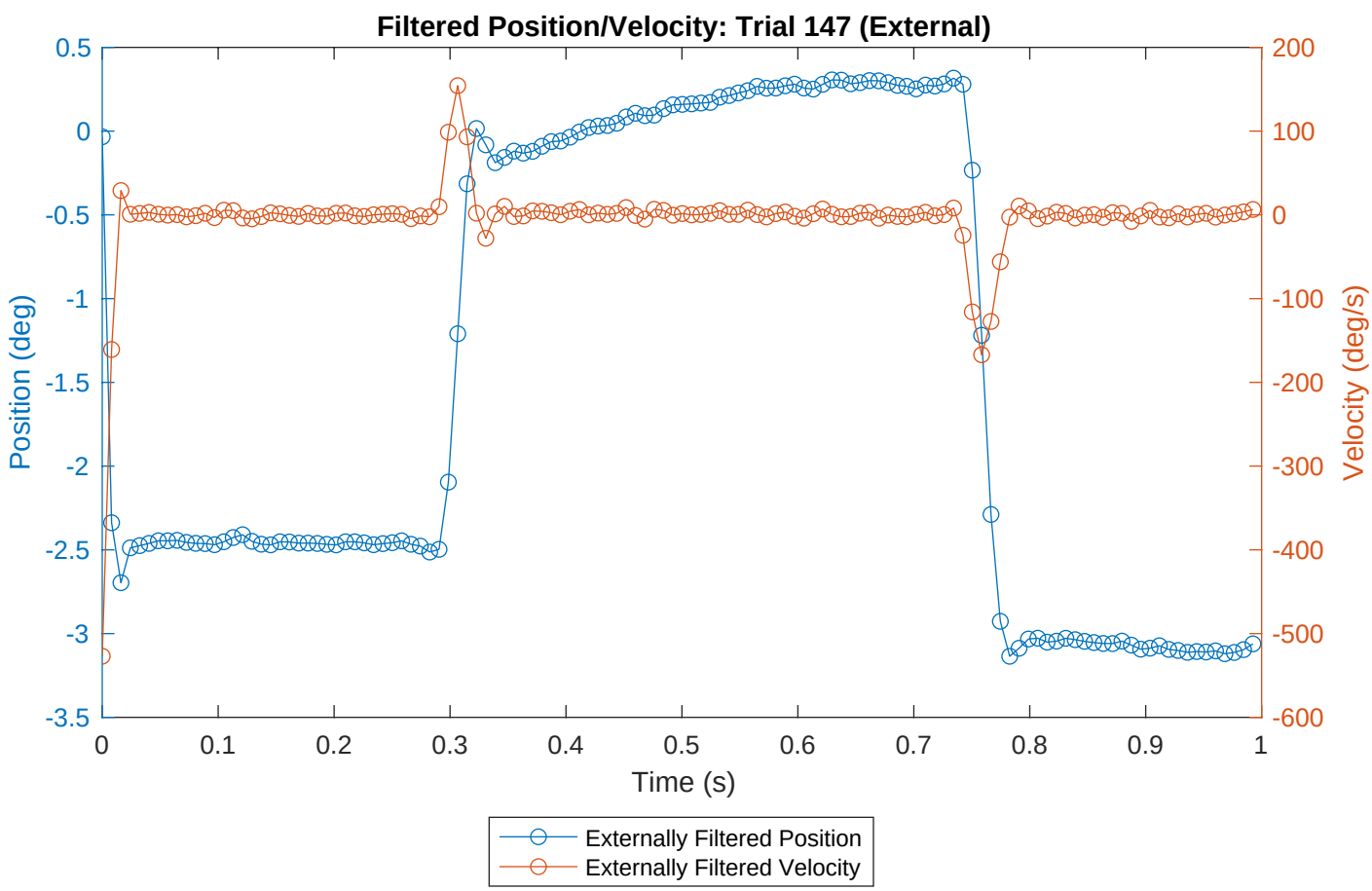

0
-0.5
-1
-1.5
-2
-2.5
Position (deg)
0
0.1
0.2
0.3
0.4
0.5
0.6
0.7
0.8
0.9
1
Time (s)

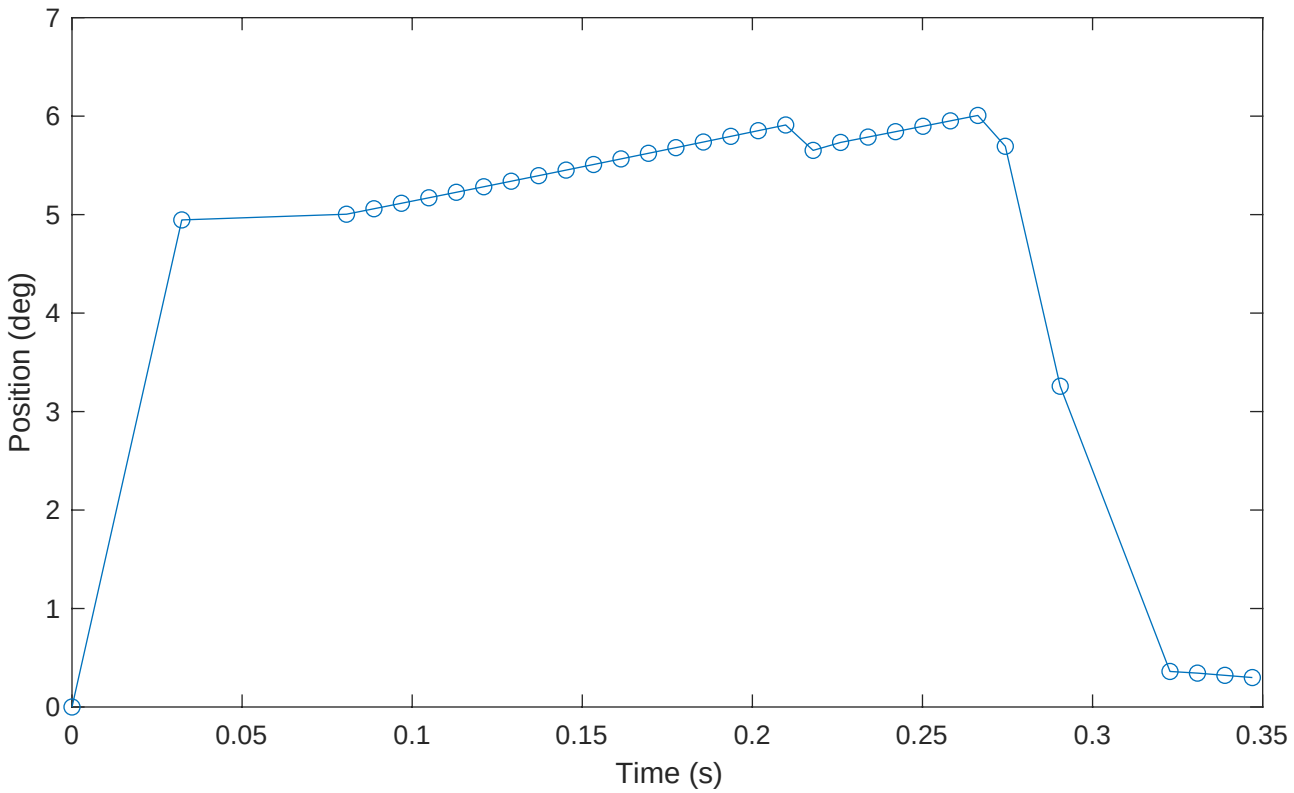

Filtered Position/Velocity: Trial 145 (External)
0
-0.5
-1
-1.5
-2
-2.5
-3
Position (deg)
100
0
-100
-200
-300
-400
-500
Velocity (deg/s)
0
0.1
0.2
0.3
0.4
0.5
0.6
0.7
0.8
0.9
1
Time (s)
Externally Filtered Position
Externally Filtered Velocity

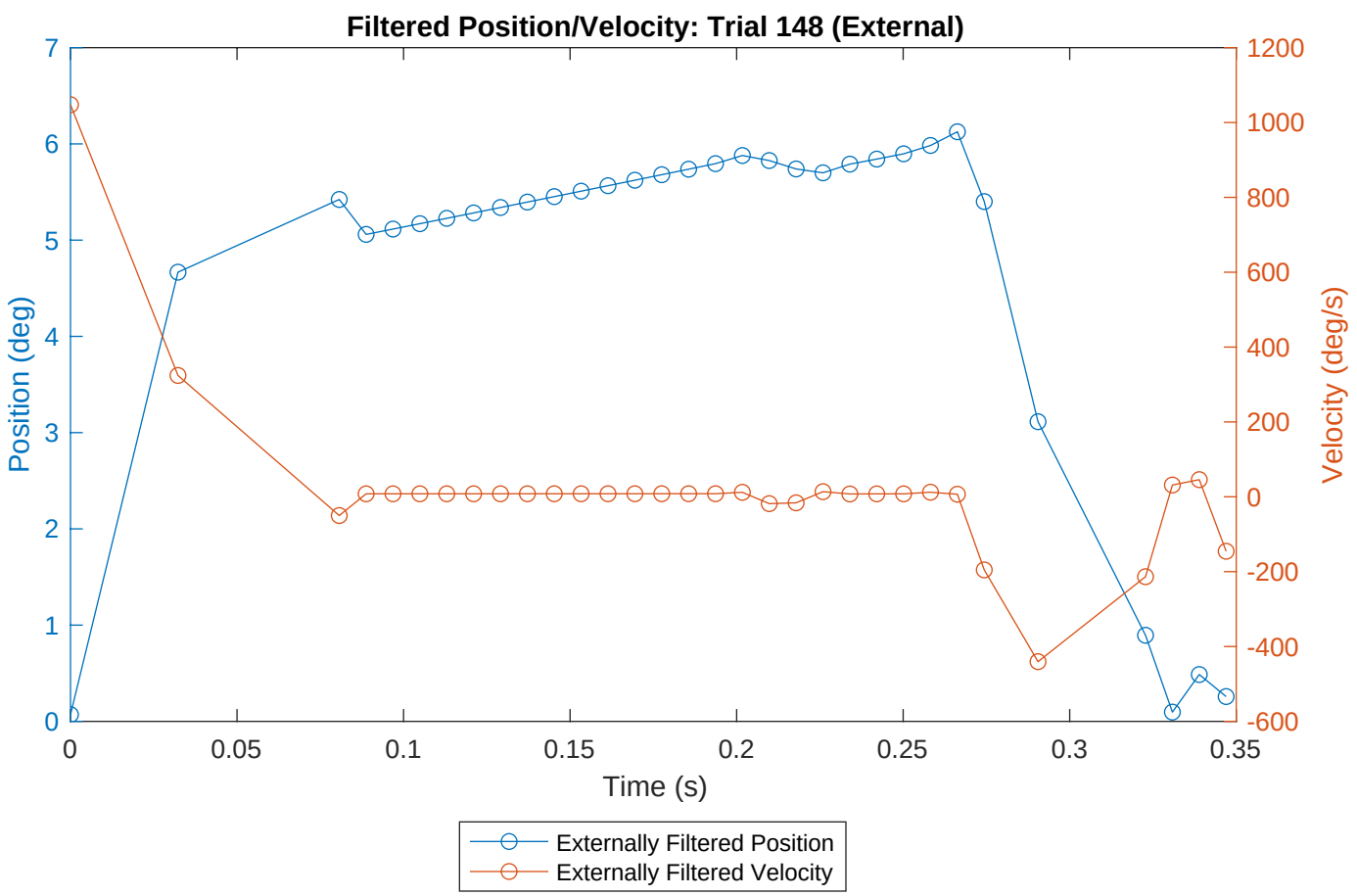

0
-0.5
-1
-1.5
-2
-2.5
-3
Position (deg)
0
0.1
0.2
0.3
0.4
0.5
0.6
0.7
0.8
0.9
1
Time (s)

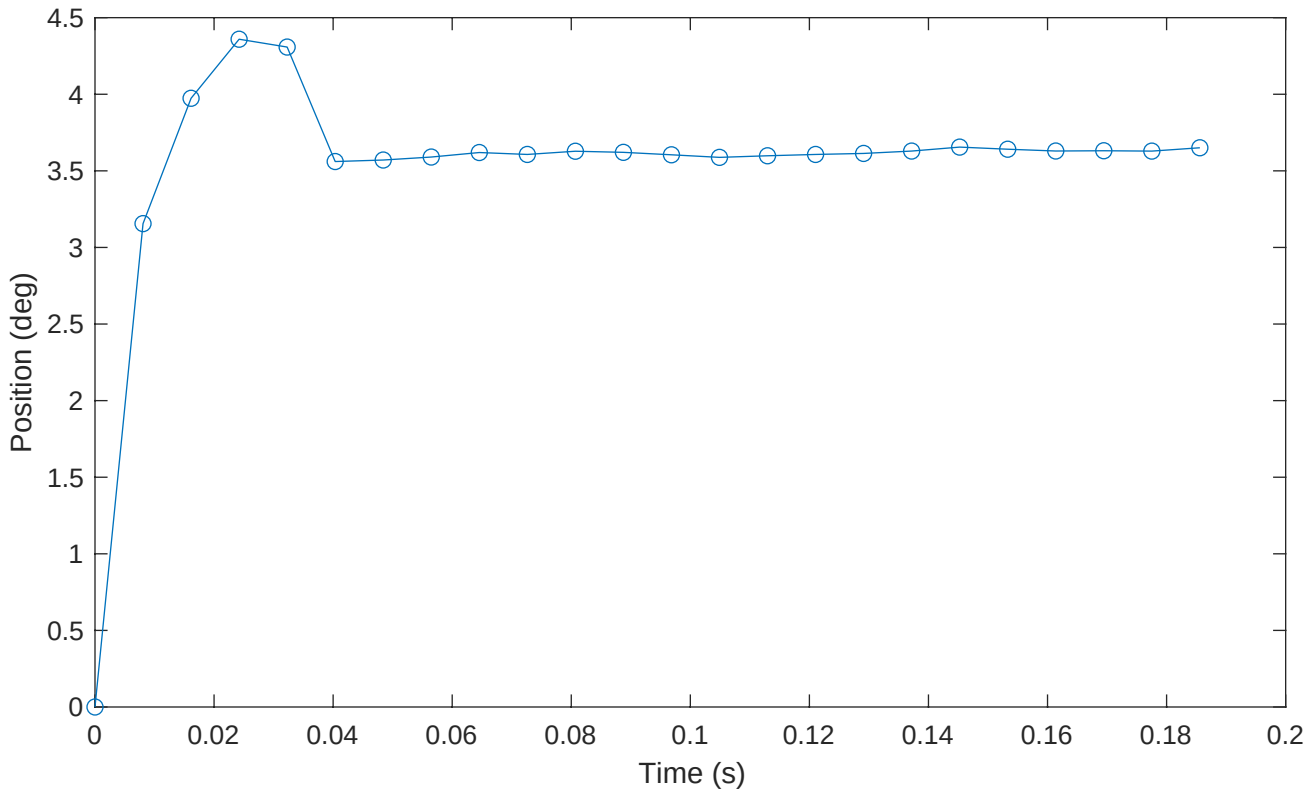

Filtered Position/Velocity: Trial 146 (External)
0
-0.5
-1
-1.5
-2
-2.5
-3
Position (deg)
100
0
-100
-200
-300
-400
-500
-600
Velocity (deg/s)
0
0.1
0.2
0.3
0.4
0.5
0.6
0.7
0.8
0.9
1
Time (s)
Externally Filtered Position
Externally Filtered Velocity

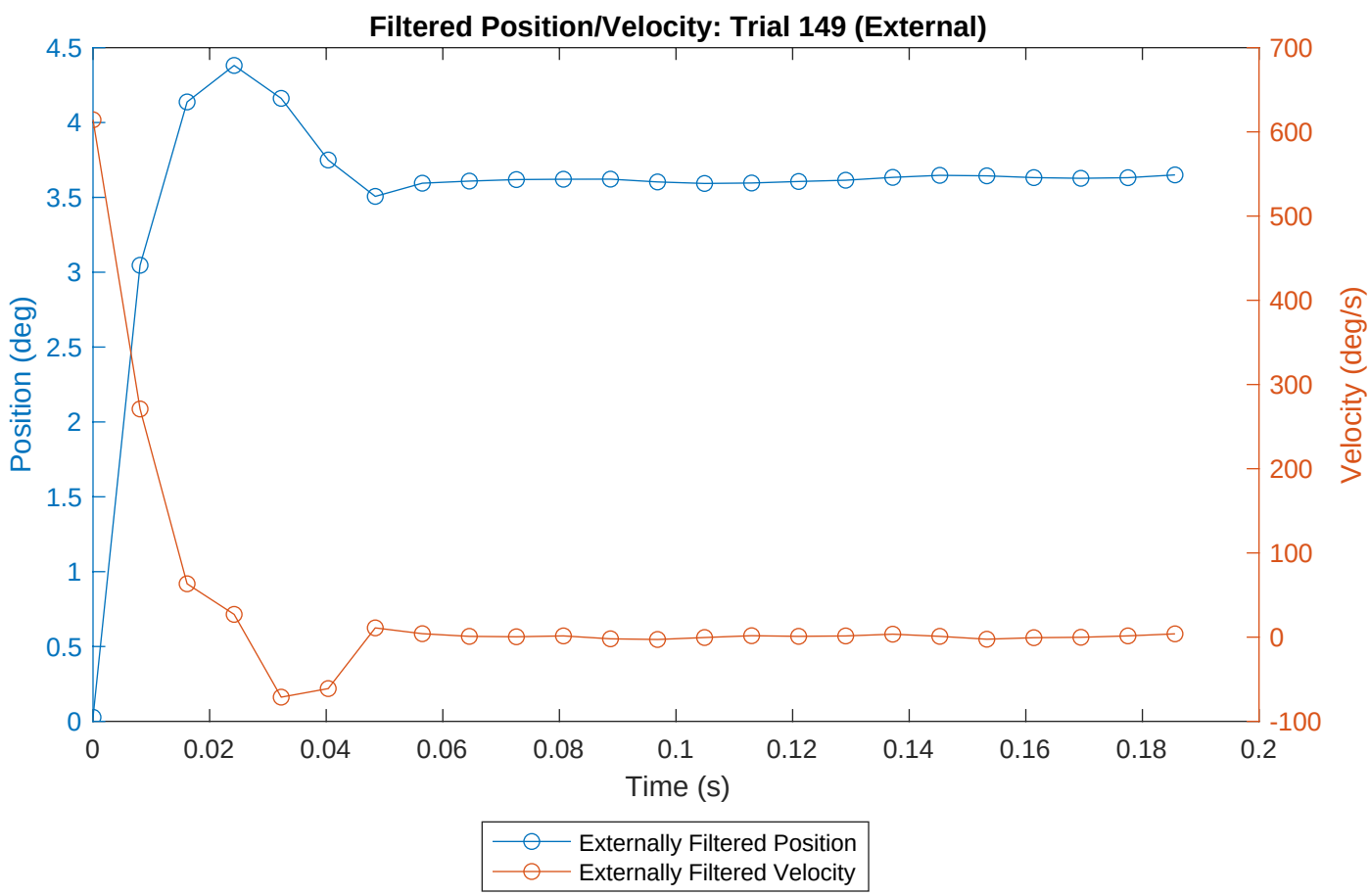

0.5
0
-0.5
-1
-1.5
-2
-2.5
-3
-3.5
Position (deg)
0
0.1
0.2
0.3
0.4
0.5
0.6
0.7
0.8
0.9
1
Time (s)

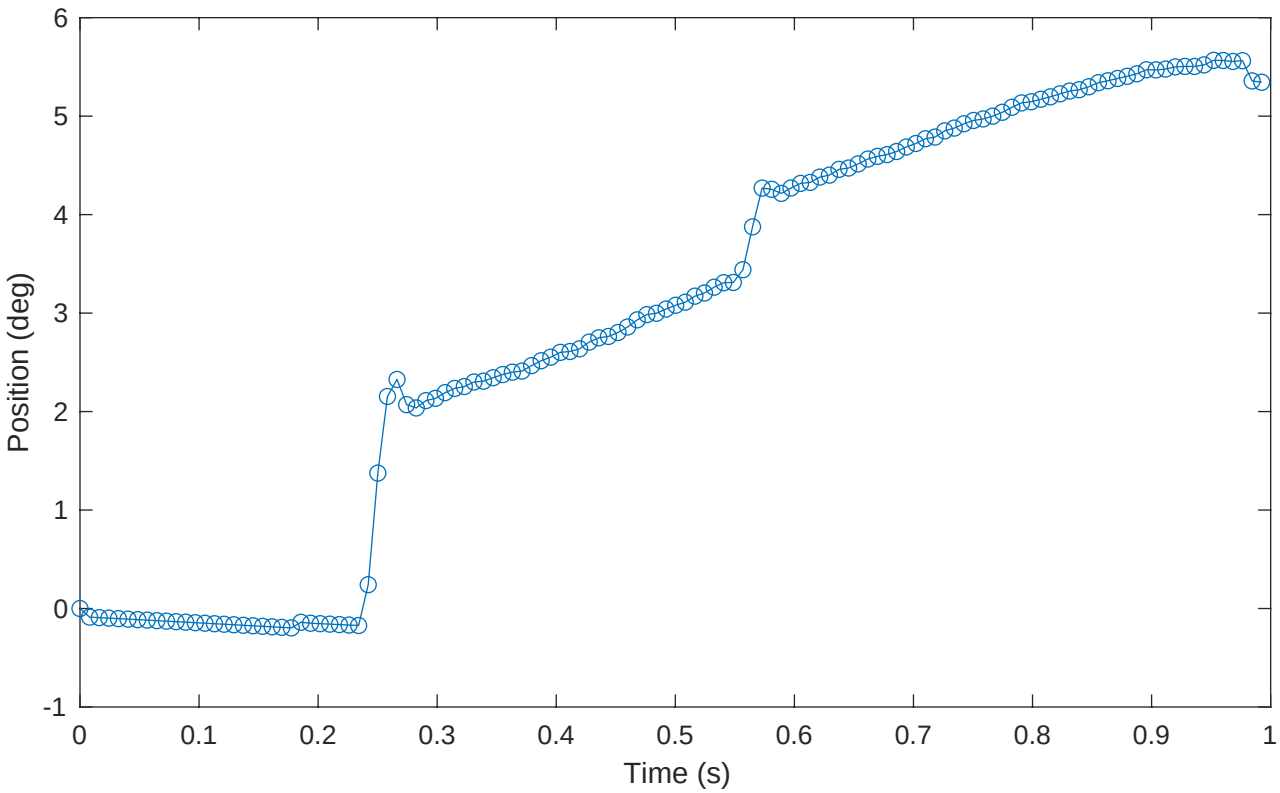

Filtered Position/Velocity: Trial 147 (External)
0.5
0
-0.5
-1
-1.5
-2
-2.5
-3
-3.5
Position (deg)
200
100
0
-100
-200
-300
-400
-500
-600
Velocity (deg/s)
0
0.1
0.2
0.3
0.4
0.5
0.6
0.7
0.8
0.9
1
Time (s)
Externally Filtered Position
Externally Filtered Velocity

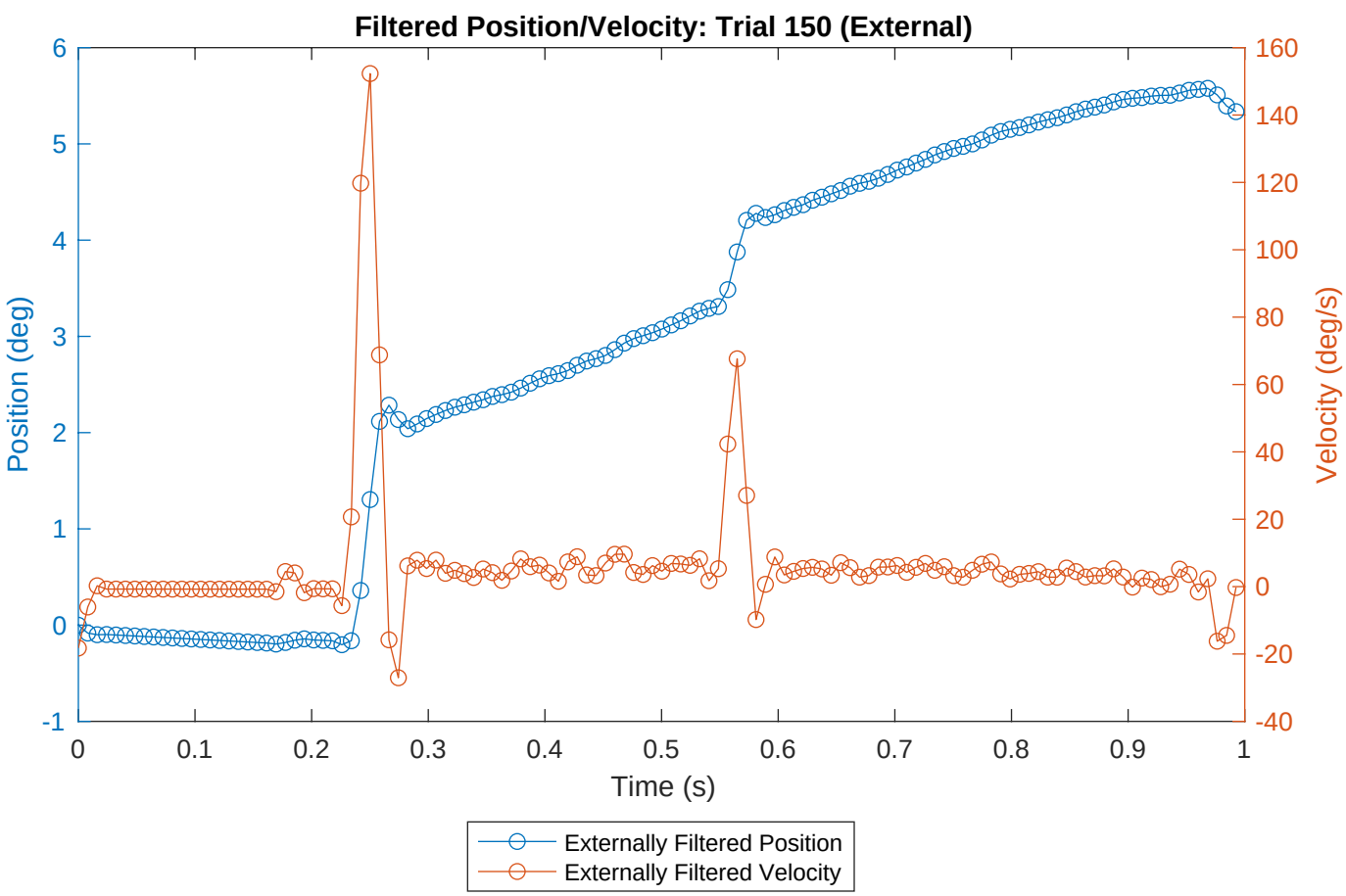

Position (deg)
Time (s)
0
1
2
3
4
5
6
7
0
0.05
0.1
0.15
0.2
0.25
0.3
0.35

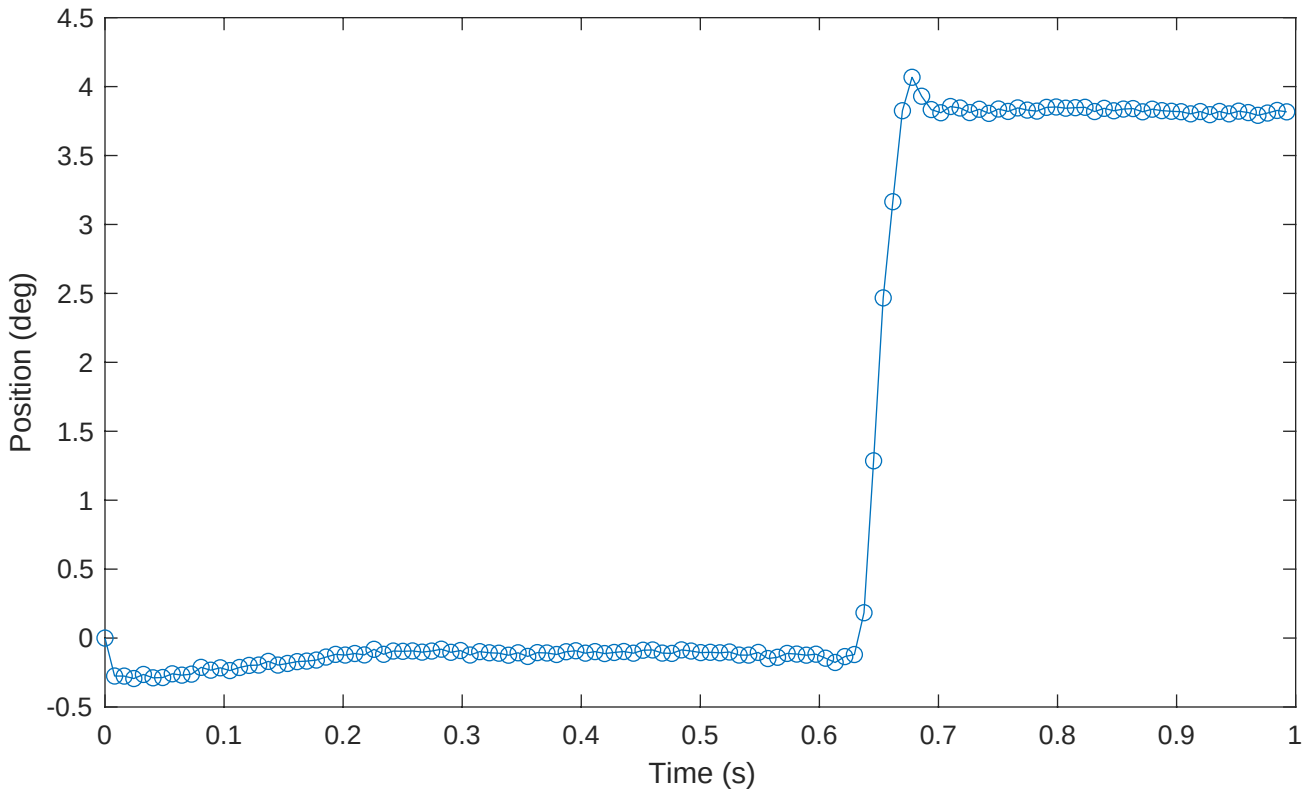

Filtered Position/Velocity: Trial 148 (External)
Position (deg)
Velocity (deg/s)
Time (s)
0
1
2
3
4
5
6
7
1200
1000
800
600
400
200
0
-200
-400
-600
0
0.05
0.1
0.15
0.2
0.25
0.3
0.35
Externally Filtered Position
Externally Filtered Velocity

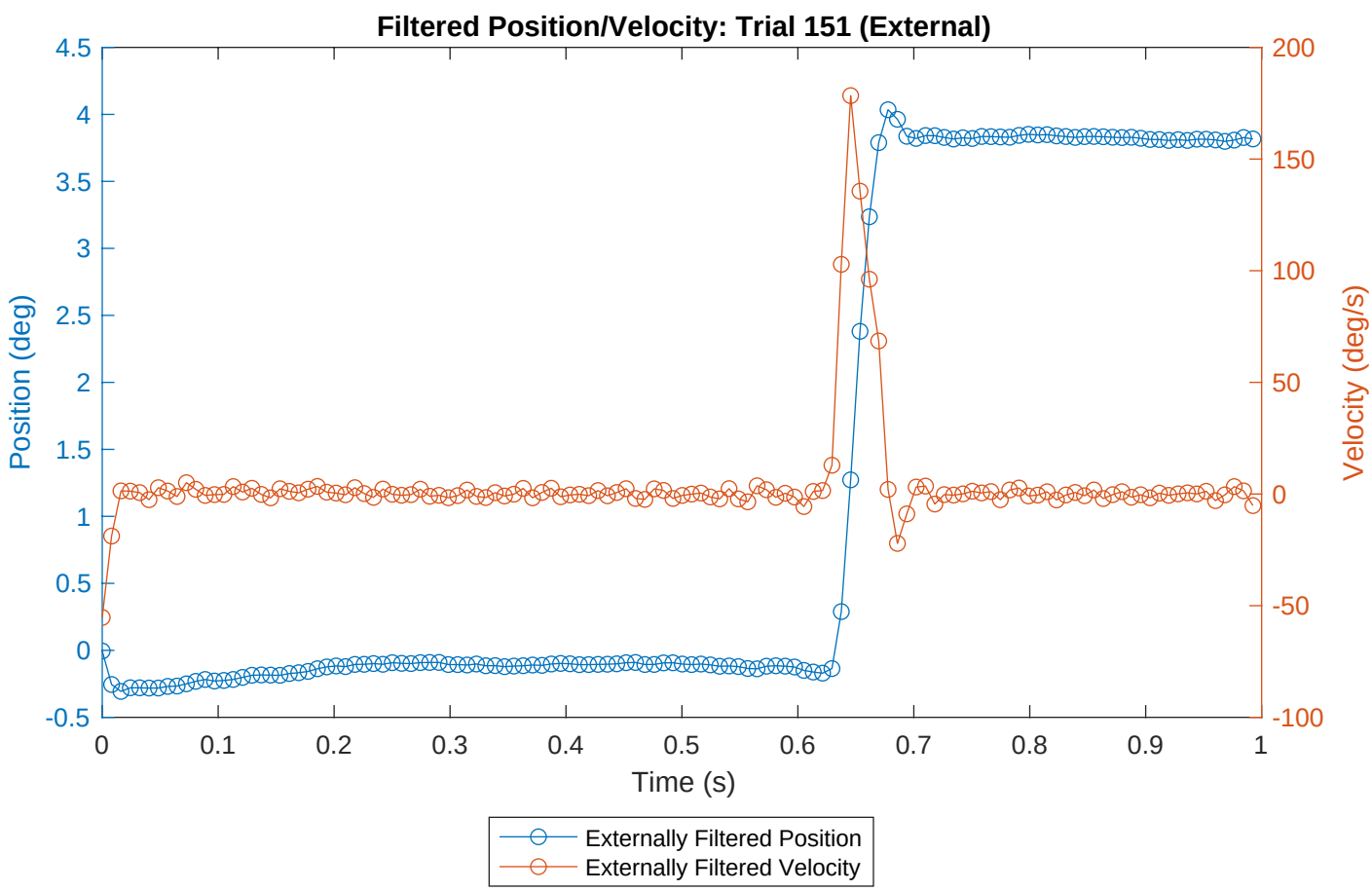

Position (deg)
Time (s)
0
0.5
1
1.5
2
2.5
3
3.5
4
4.5
0
0.02
0.04
0.06
0.08
0.1
0.12
0.14
0.16
0.18
0.2

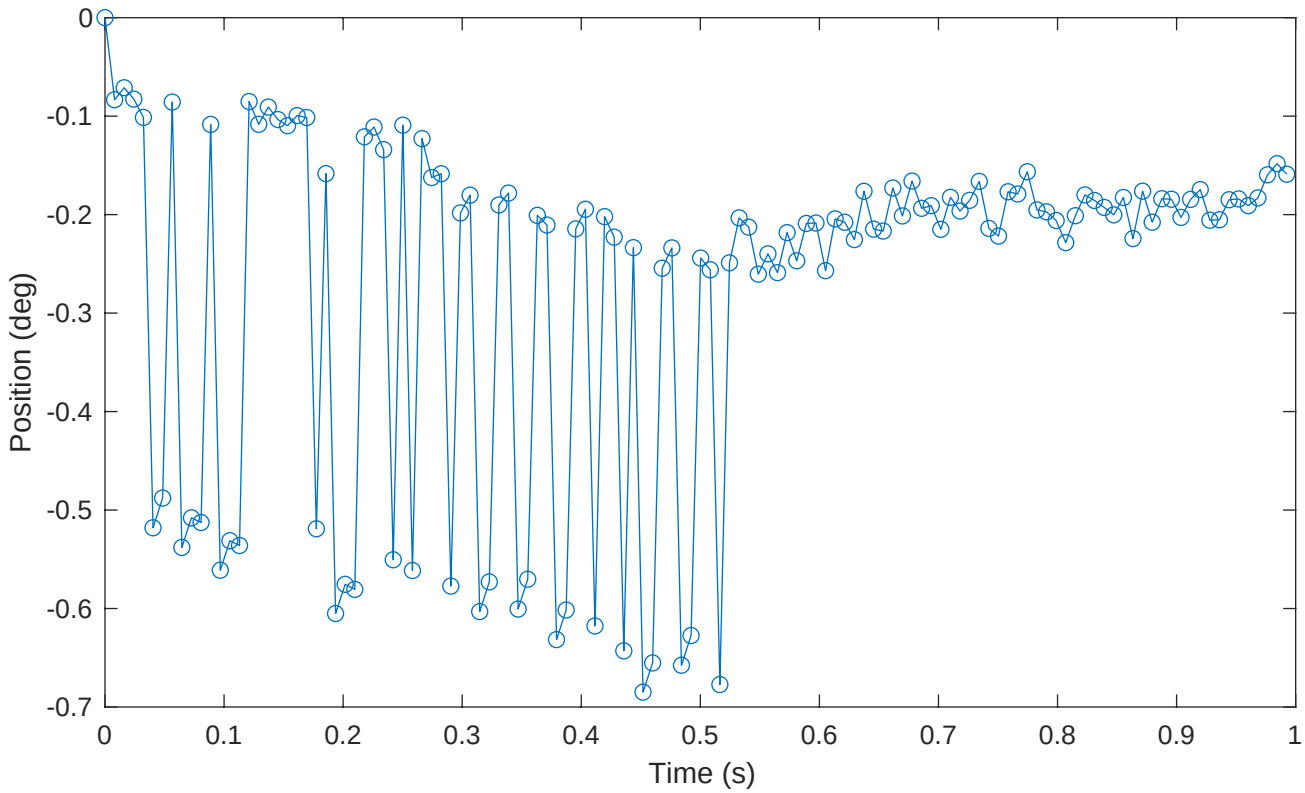

Filtered Position/Velocity: Trial 149 (External)
Position (deg)
Velocity (deg/s)
Time (s)
0
0.5
1
1.5
2
2.5
3
3.5
4
4.5
-100
0
100
200
300
400
500
600
700
0
0.02
0.04
0.06
0.08
0.1
0.12
0.14
0.16
0.18
0.2
Externally Filtered Position
Externally Filtered Velocity

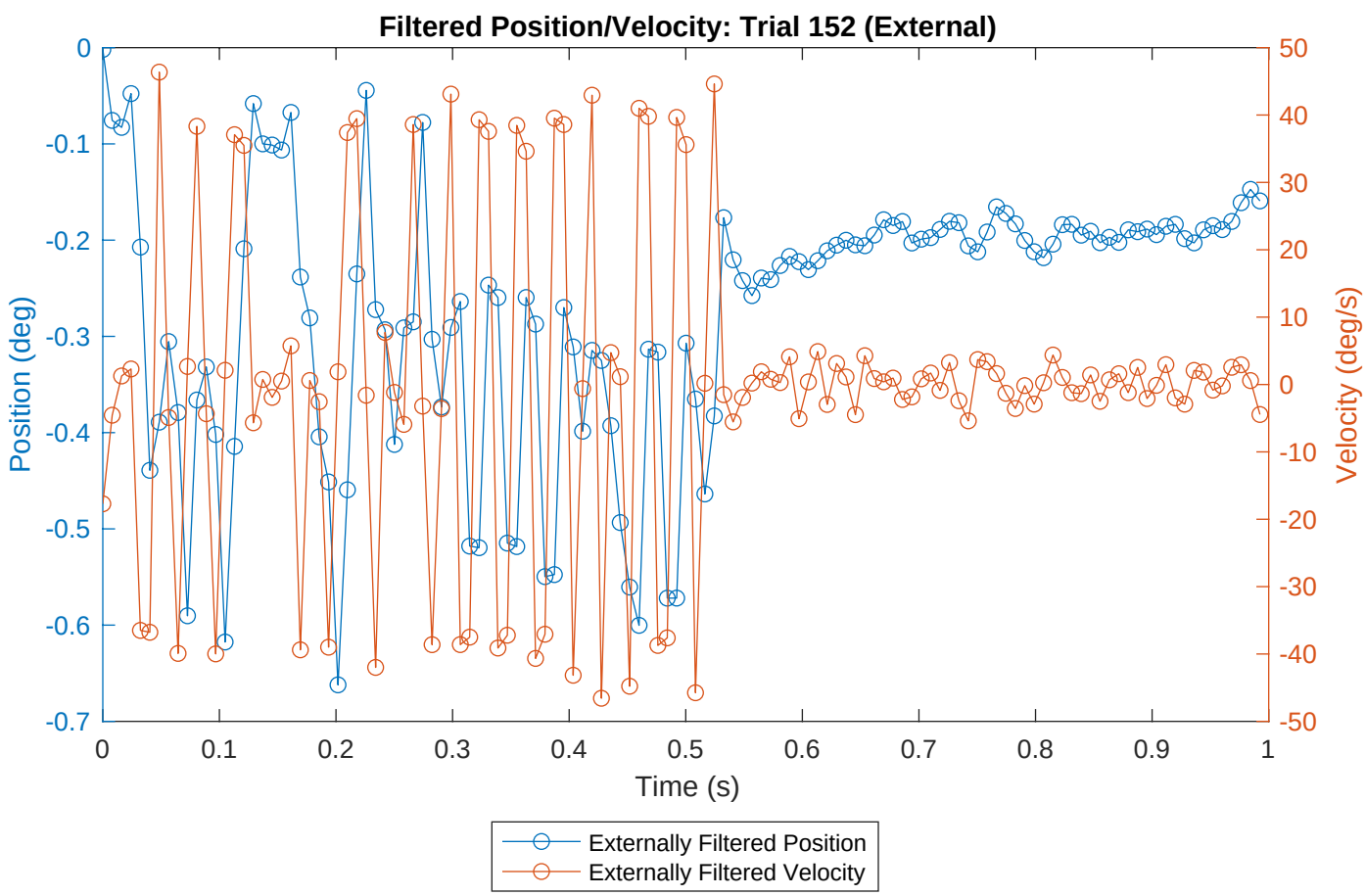

Position (deg)
Time (s)

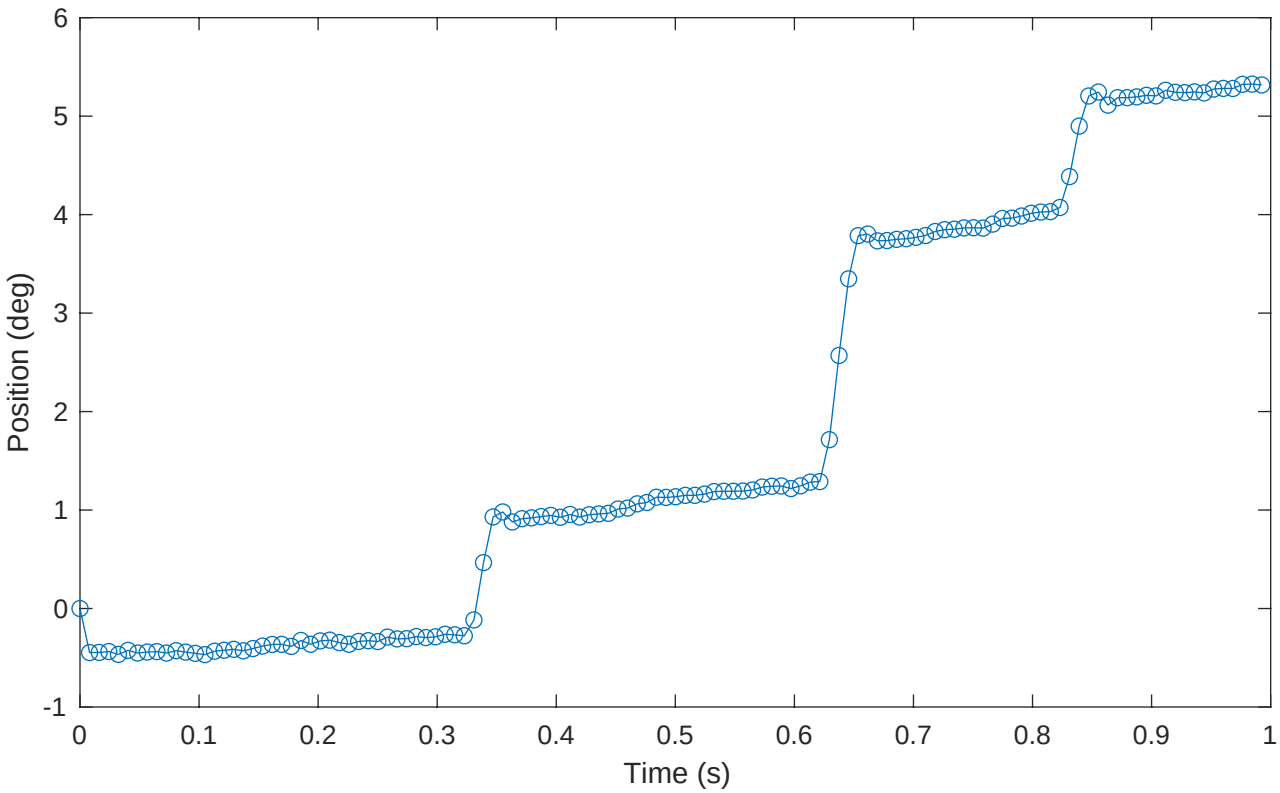

Filtered Position/Velocity: Trial 150 (External)
Position (deg)
Velocity (deg/s)
Time (s)
Externally Filtered Position
Externally Filtered Velocity

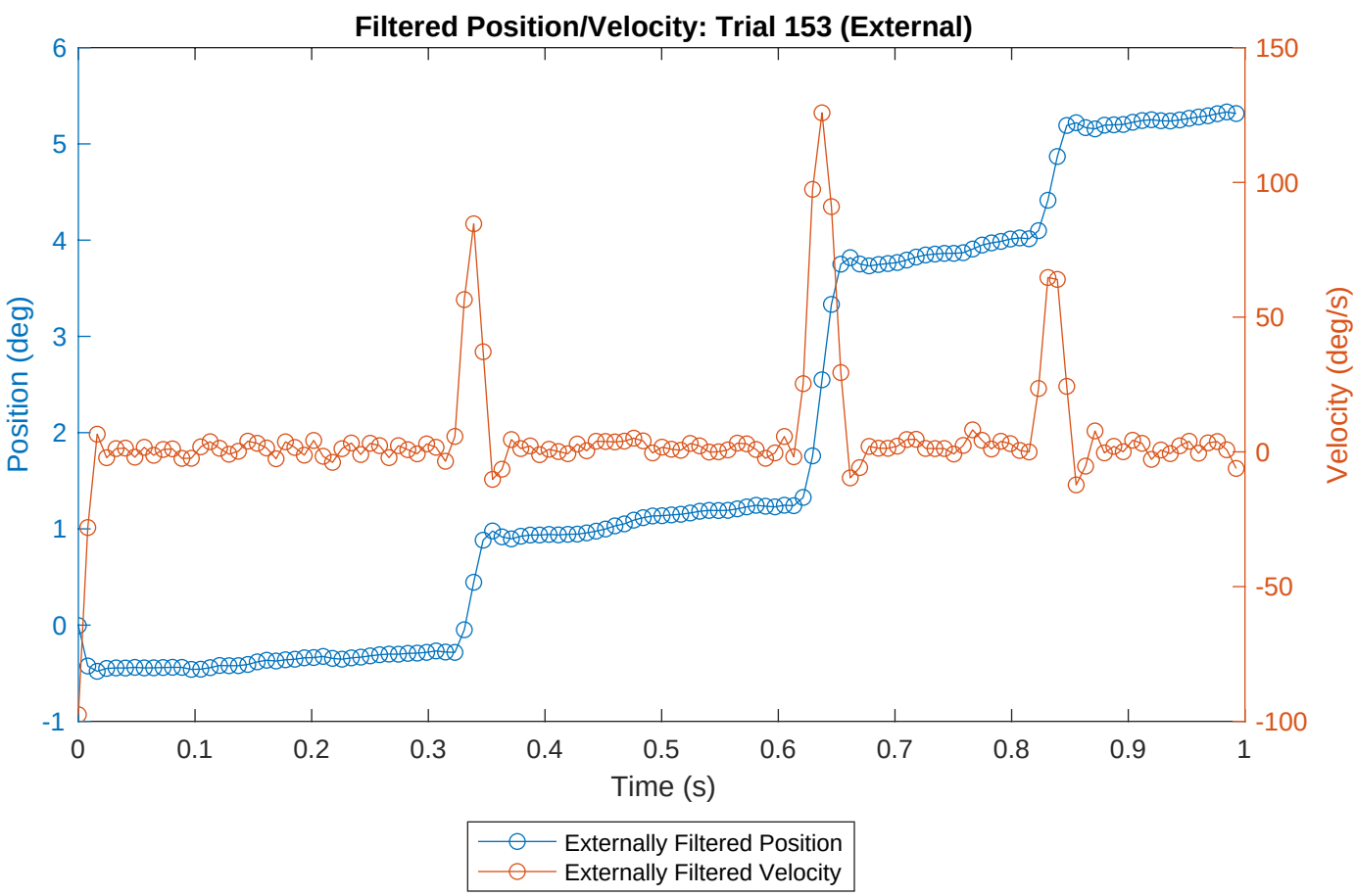

Position (deg)
Time (s)

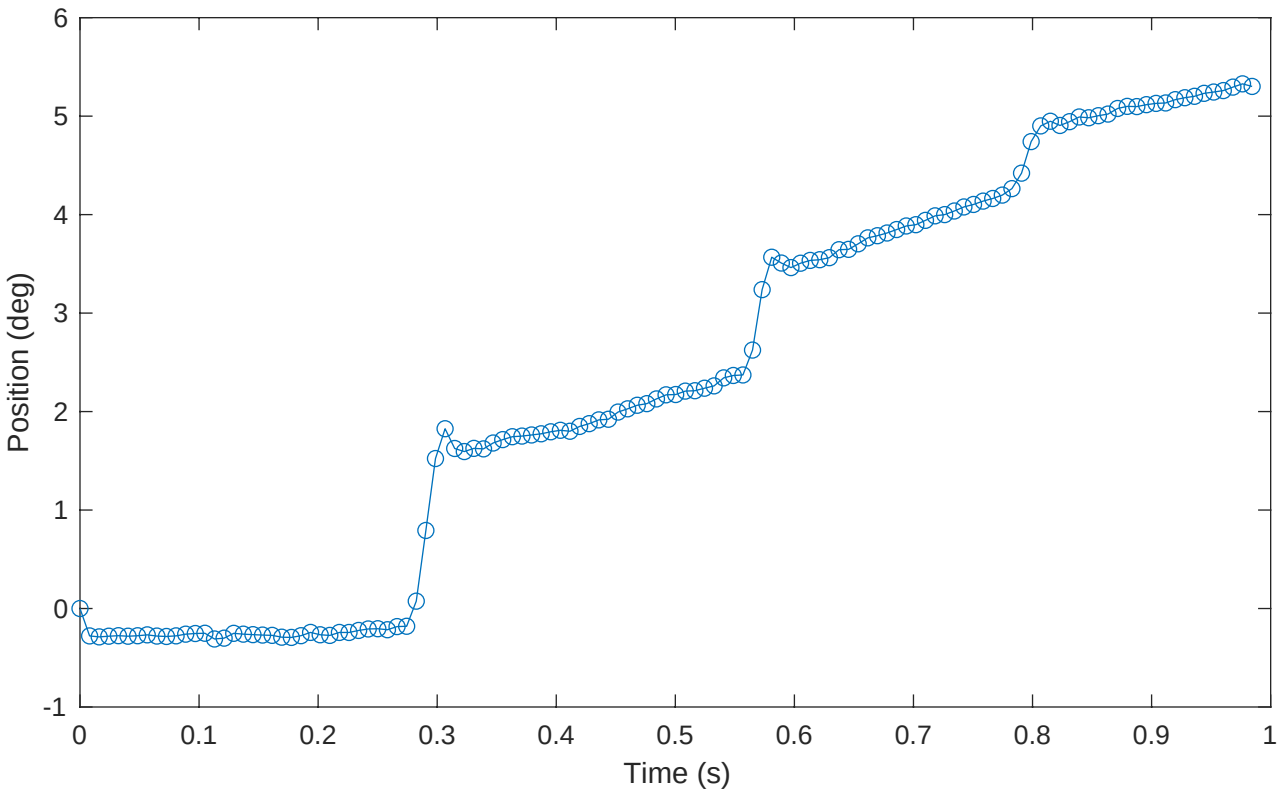

Filtered Position/Velocity: Trial 151 (External)
Position (deg)
Velocity (deg/s)
Time (s)
Externally Filtered Position
Externally Filtered Velocity

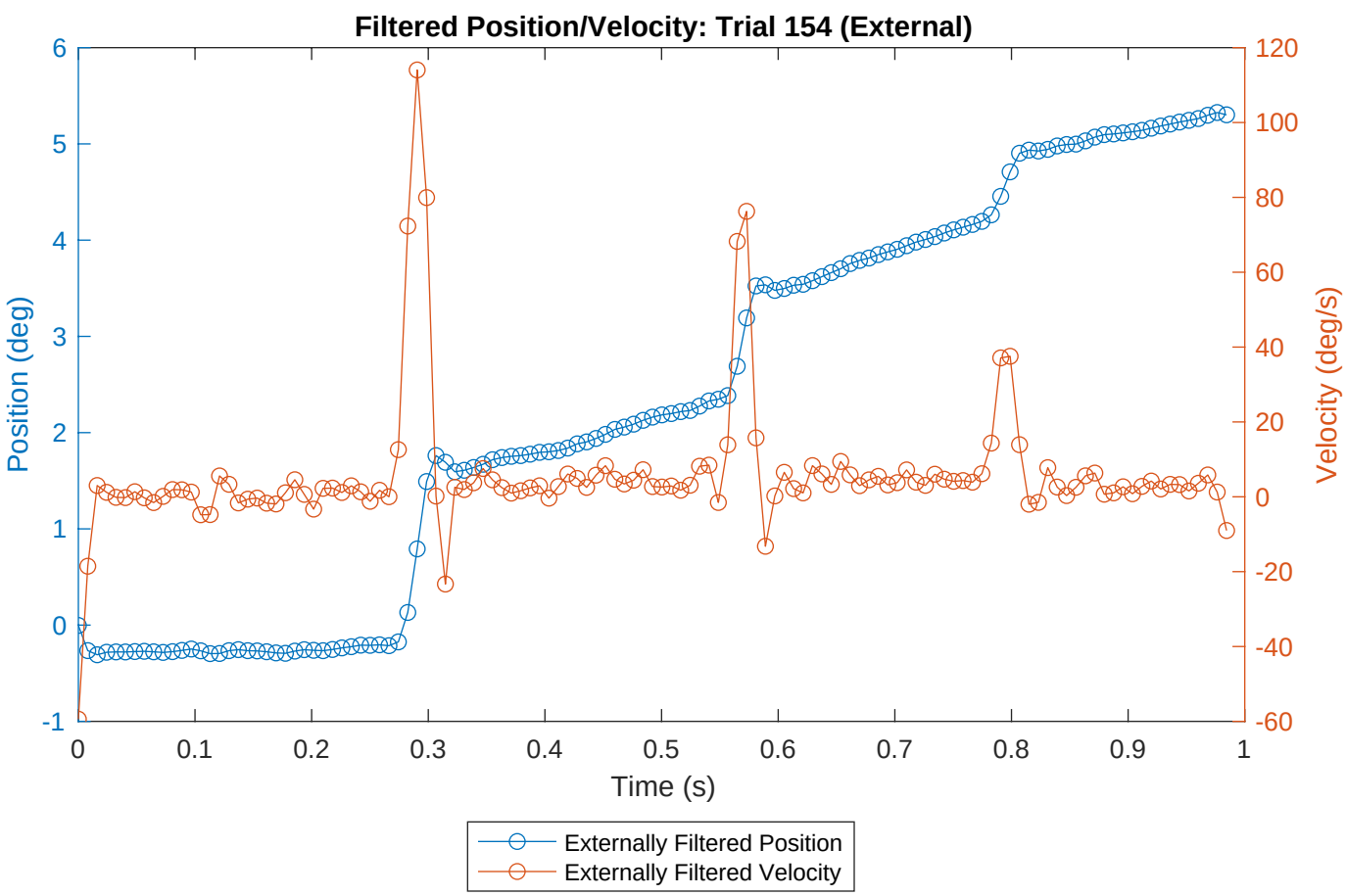

Position (deg)
Time (s)
0
-0.1
-0.2
-0.3
-0.4
-0.5
-0.6
-0.7
0
0.1
0.2
0.3
0.4
0.5
0.6
0.7
0.8
0.9
1

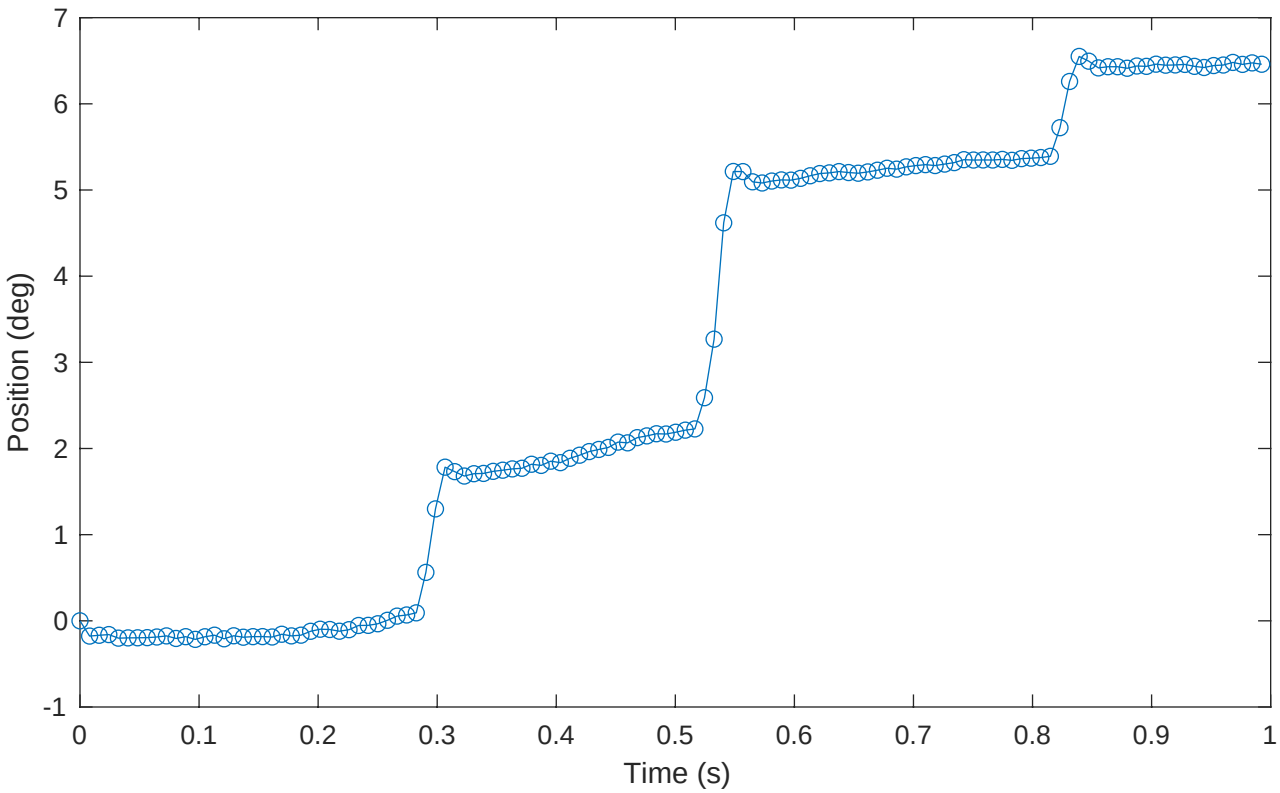

Filtered Position/Velocity: Trial 152 (External)
Position (deg)
Velocity (deg/s)
Time (s)
0
-0.1
-0.2
-0.3
-0.4
-0.5
-0.6
-0.7
50
40
30
20
10
0
-10
-20
-30
-40
-50
0
0.1
0.2
0.3
0.4
0.5
0.6
0.7
0.8
0.9
1
Externally Filtered Position
Externally Filtered Velocity

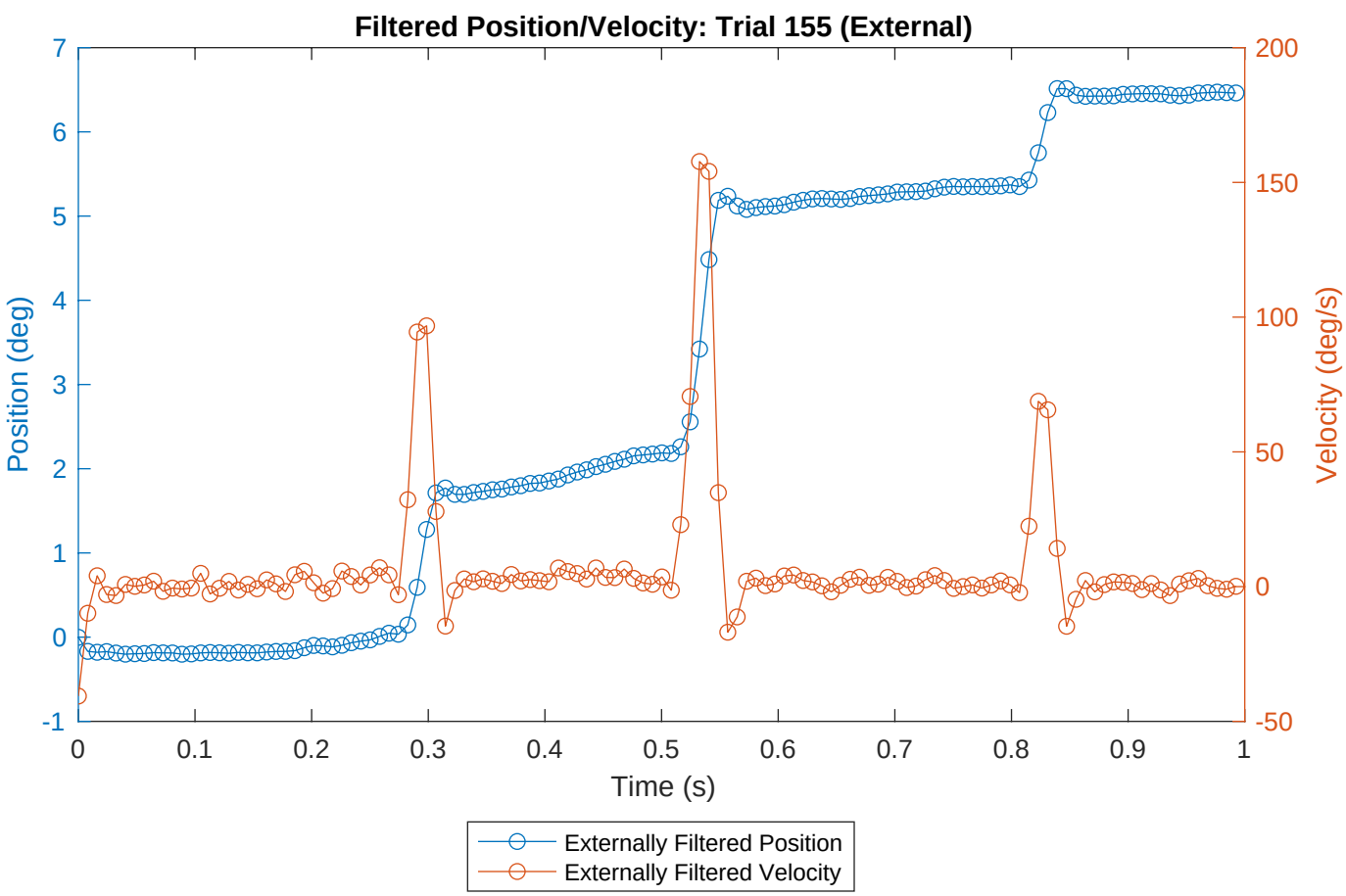

Position (deg)
Time (s)

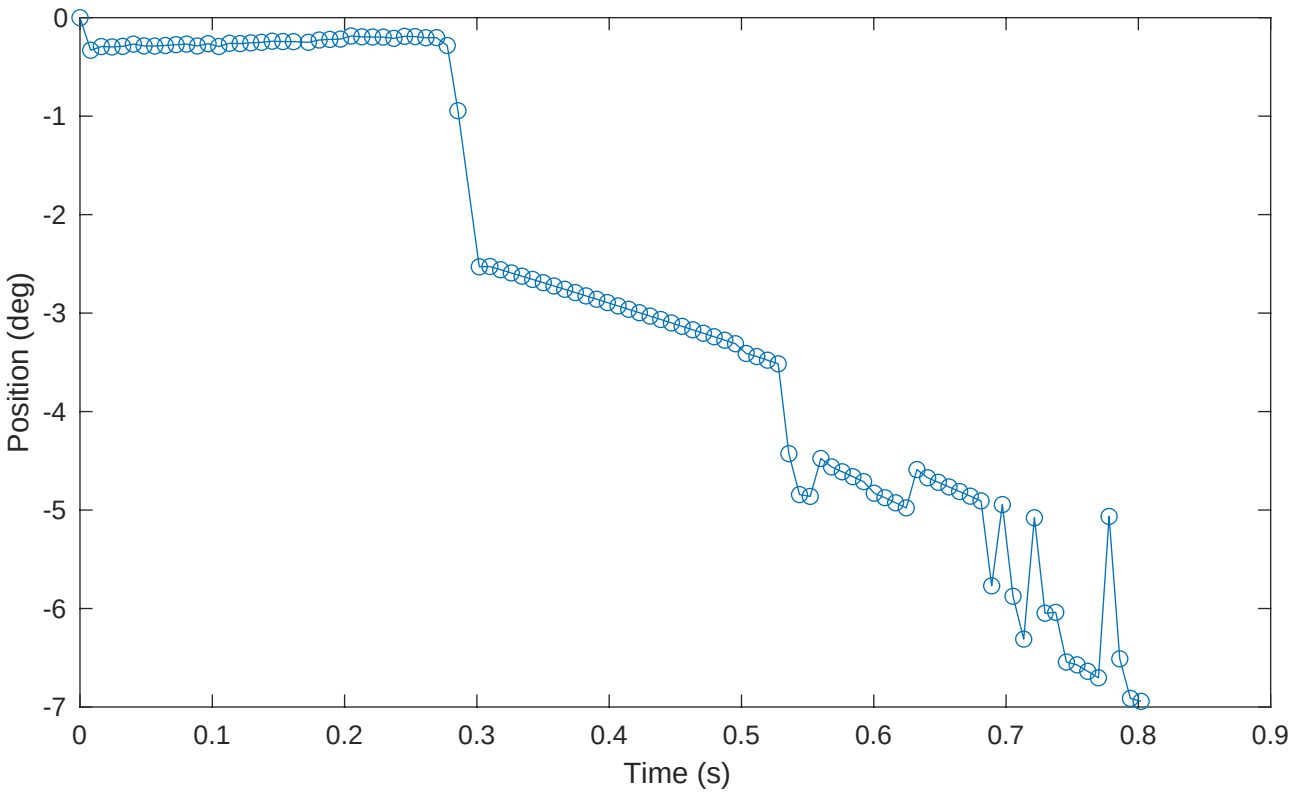

Filtered Position/Velocity: Trial 153 (External)
Position (deg)
Velocity (deg/s)
Time (s)
Externally Filtered Position
Externally Filtered Velocity

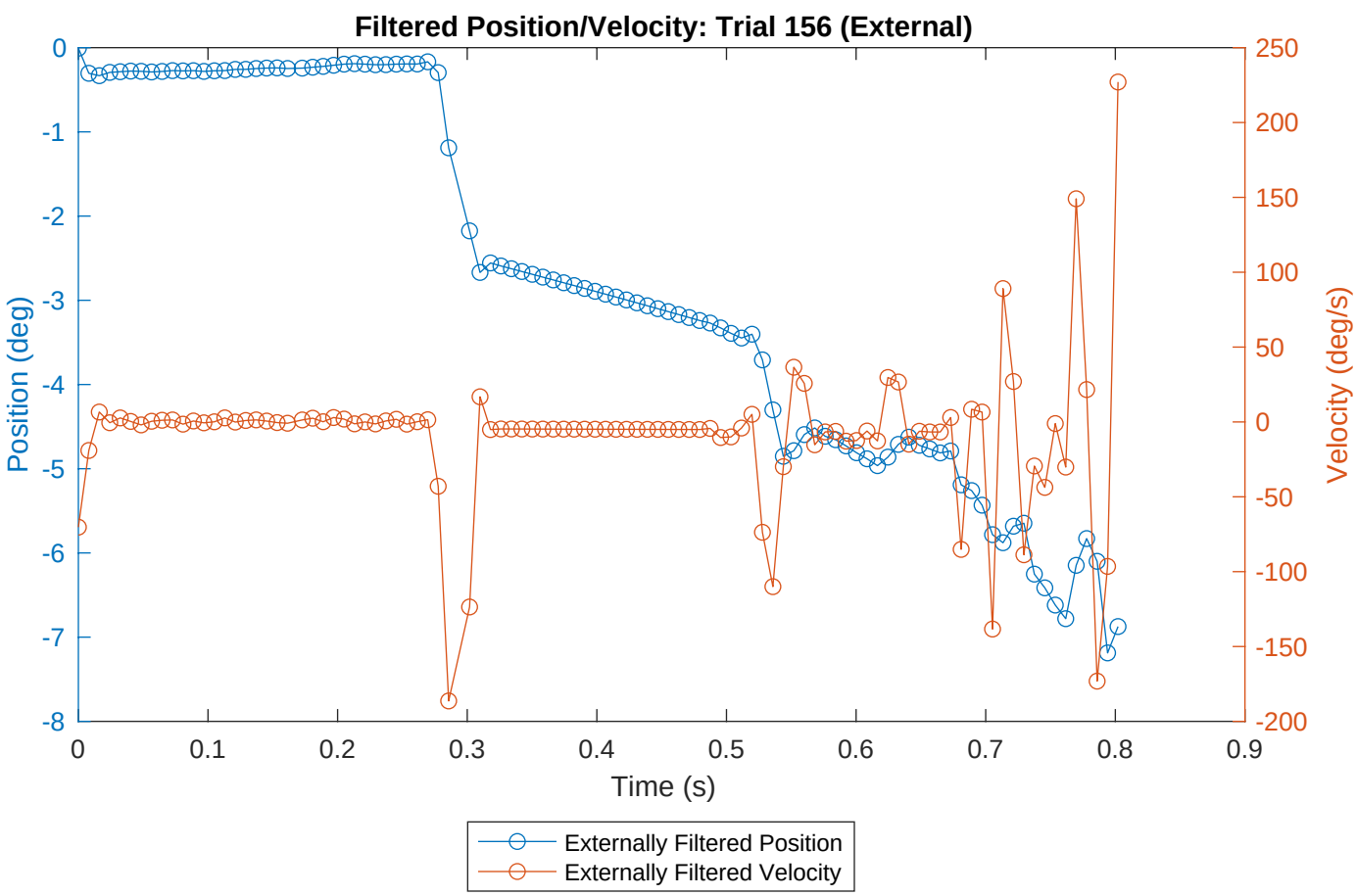

Position (deg)
Time (s)

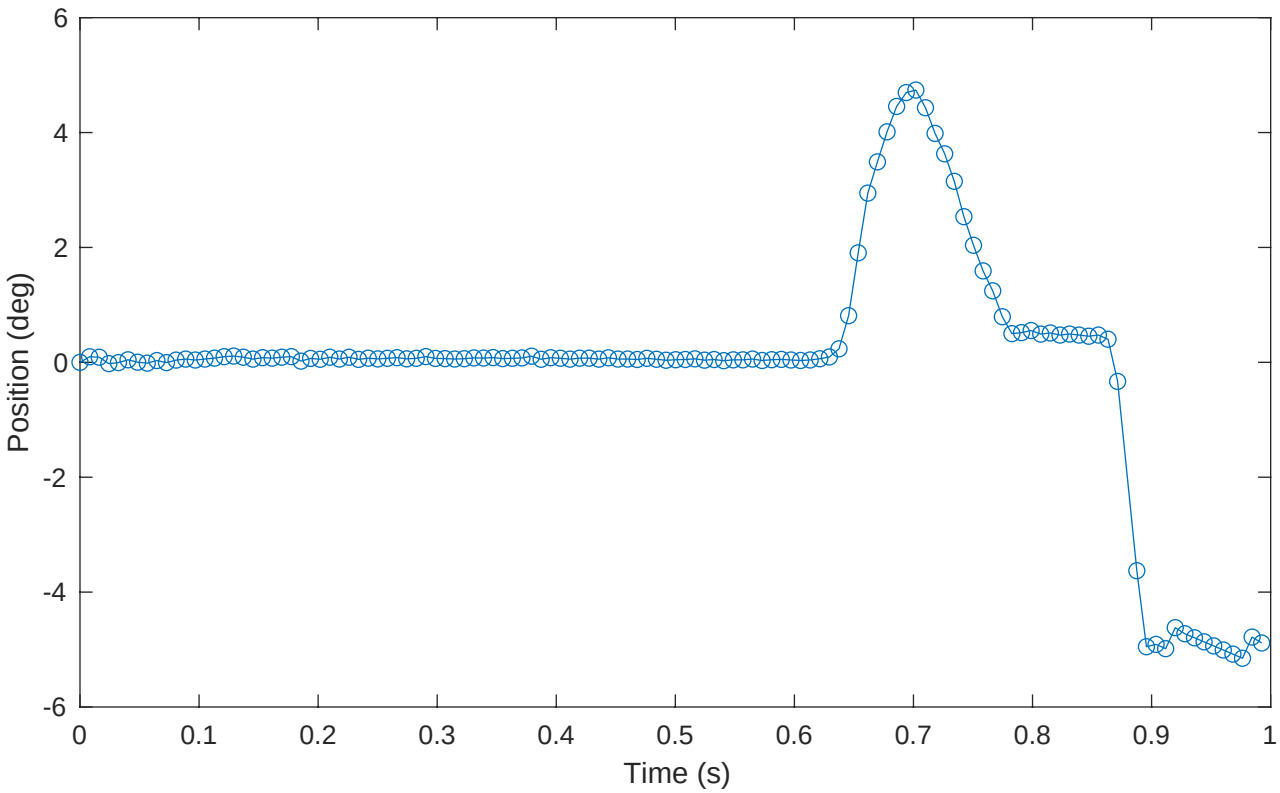

Filtered Position/Velocity: Trial 154 (External)
Position (deg)
Velocity (deg/s)
Time (s)
Externally Filtered Position
Externally Filtered Velocity

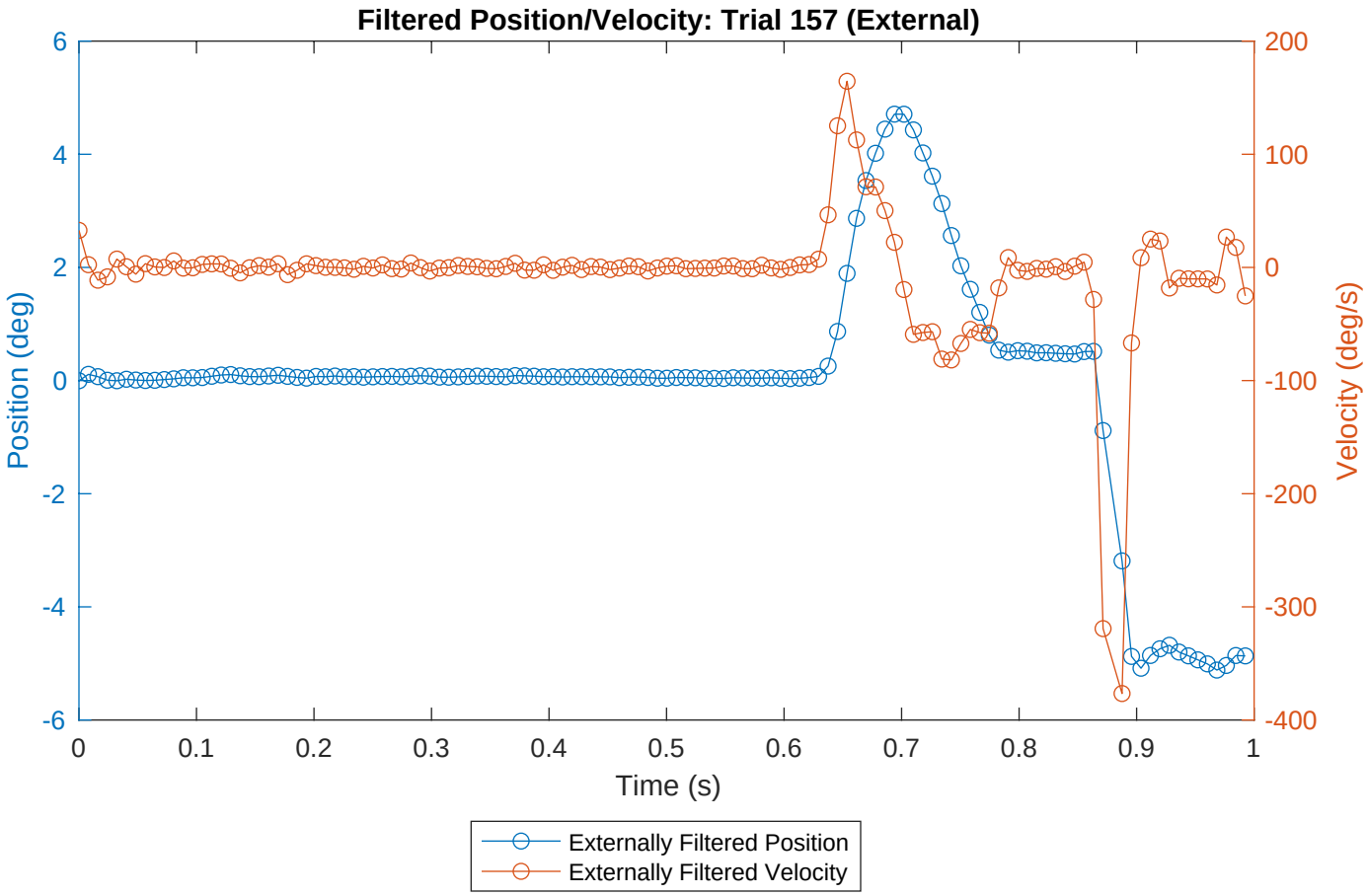

Position (deg)
Time (s)

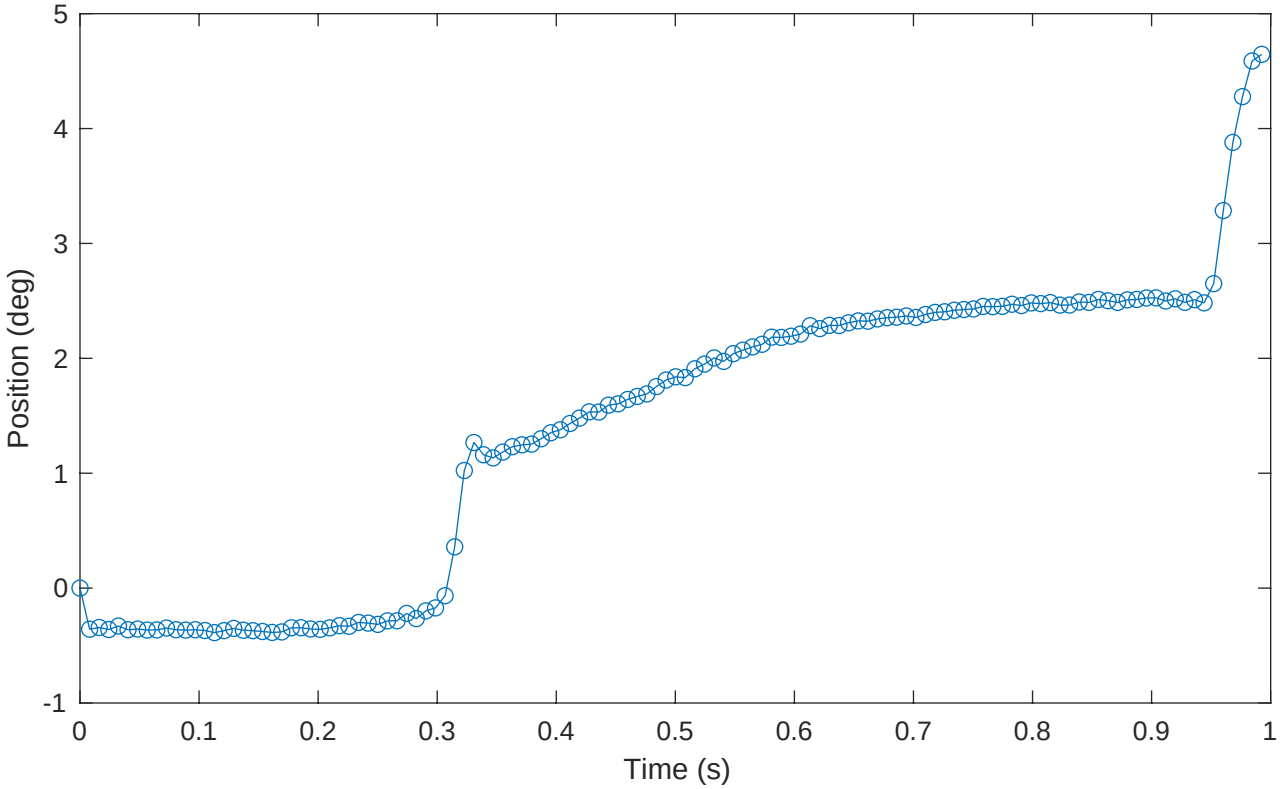

Filtered Position/Velocity: Trial 155 (External)
Position (deg)
Velocity (deg/s)
Time (s)
Externally Filtered Position
Externally Filtered Velocity

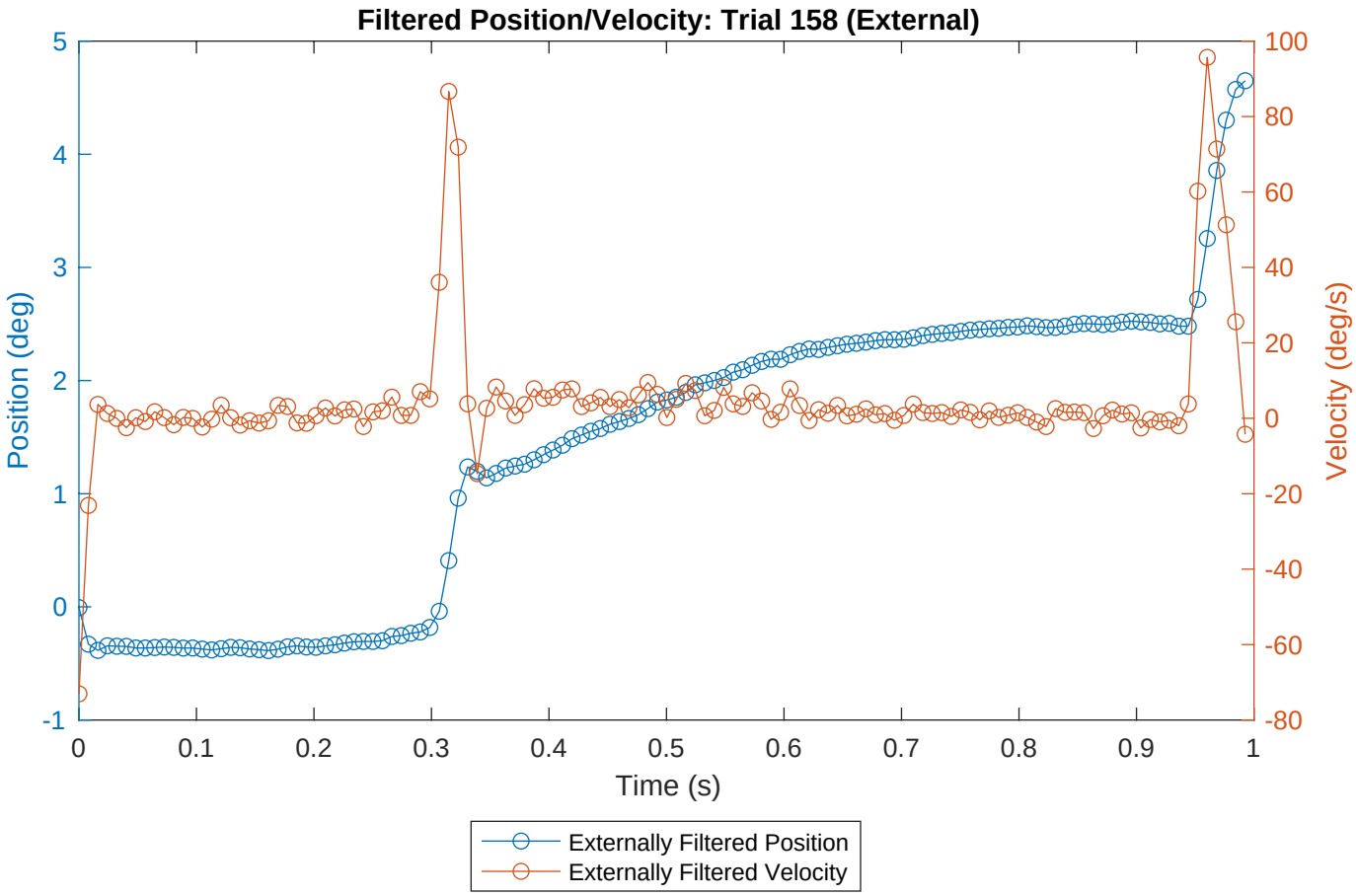

Position (deg)
Time (s)

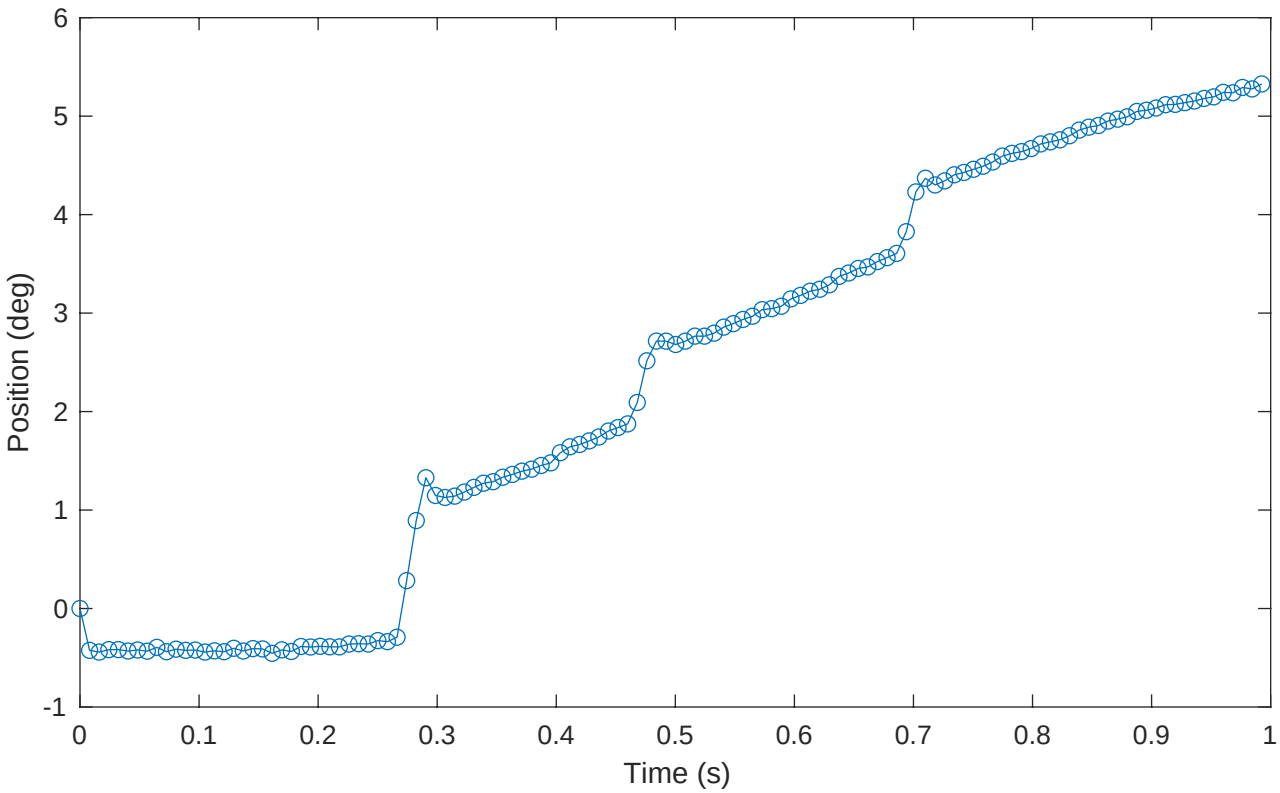

Filtered Position/Velocity: Trial 156 (External)
Position (deg)
Velocity (deg/s)
Time (s)
Externally Filtered Position
Externally Filtered Velocity

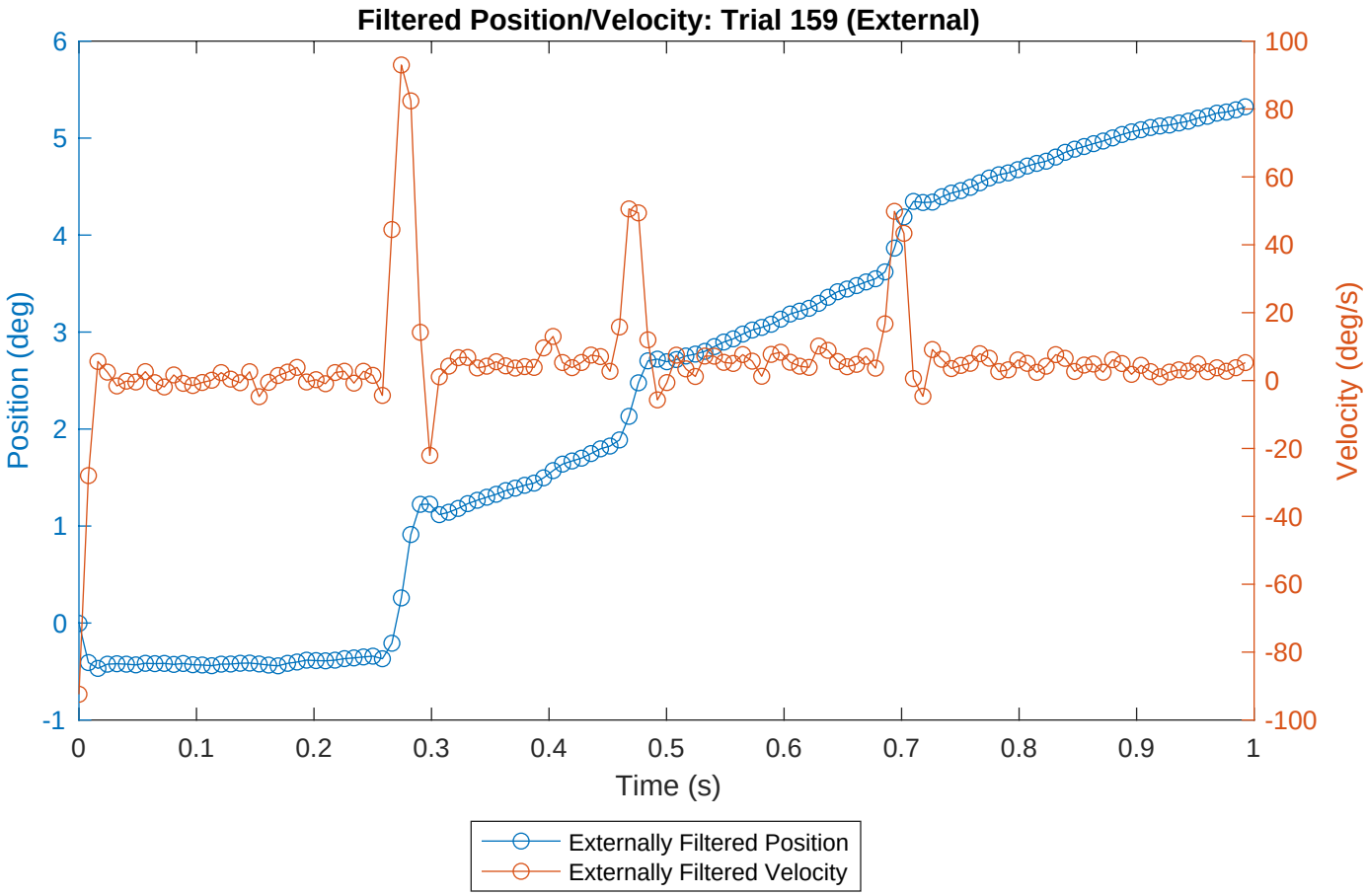

Position (deg)
Time (s)

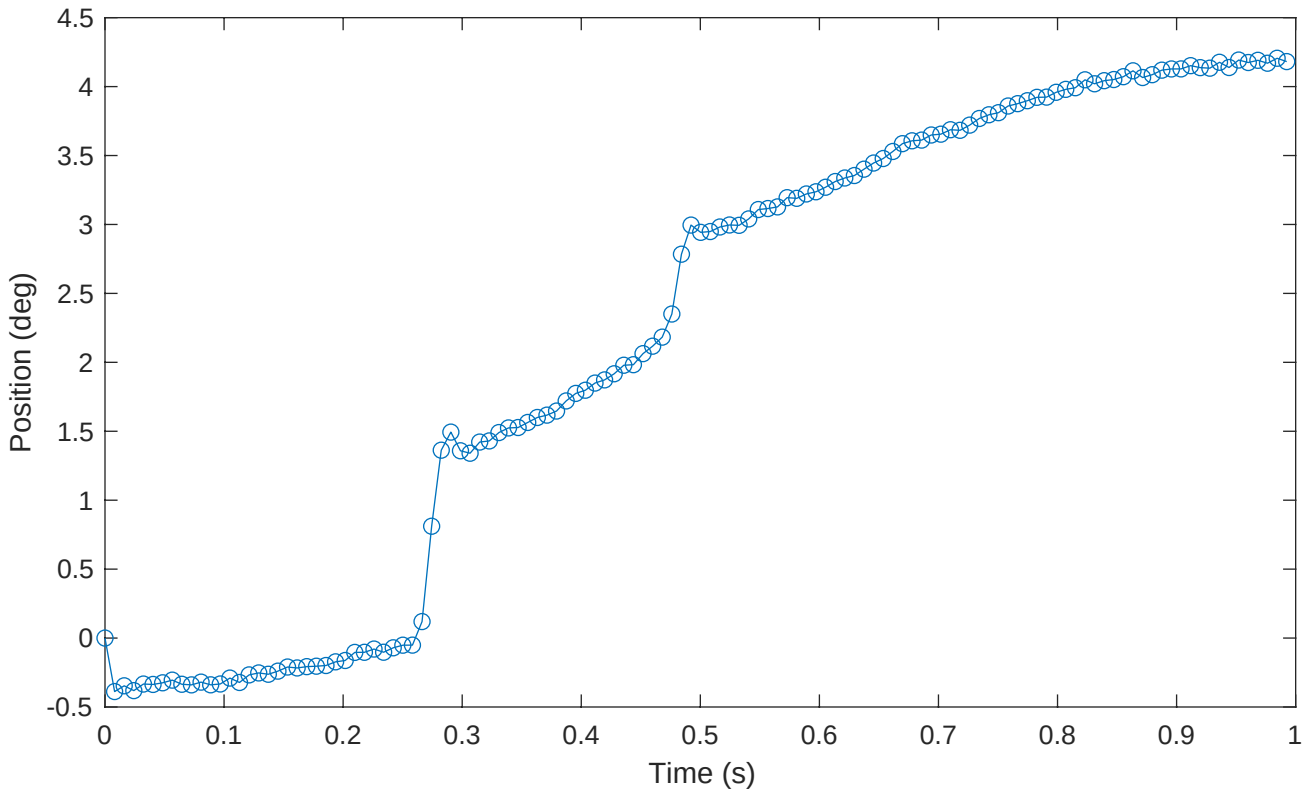

Filtered Position/Velocity: Trial 157 (External)
Position (deg)
Velocity (deg/s)
Time (s)
Externally Filtered Position
Externally Filtered Velocity

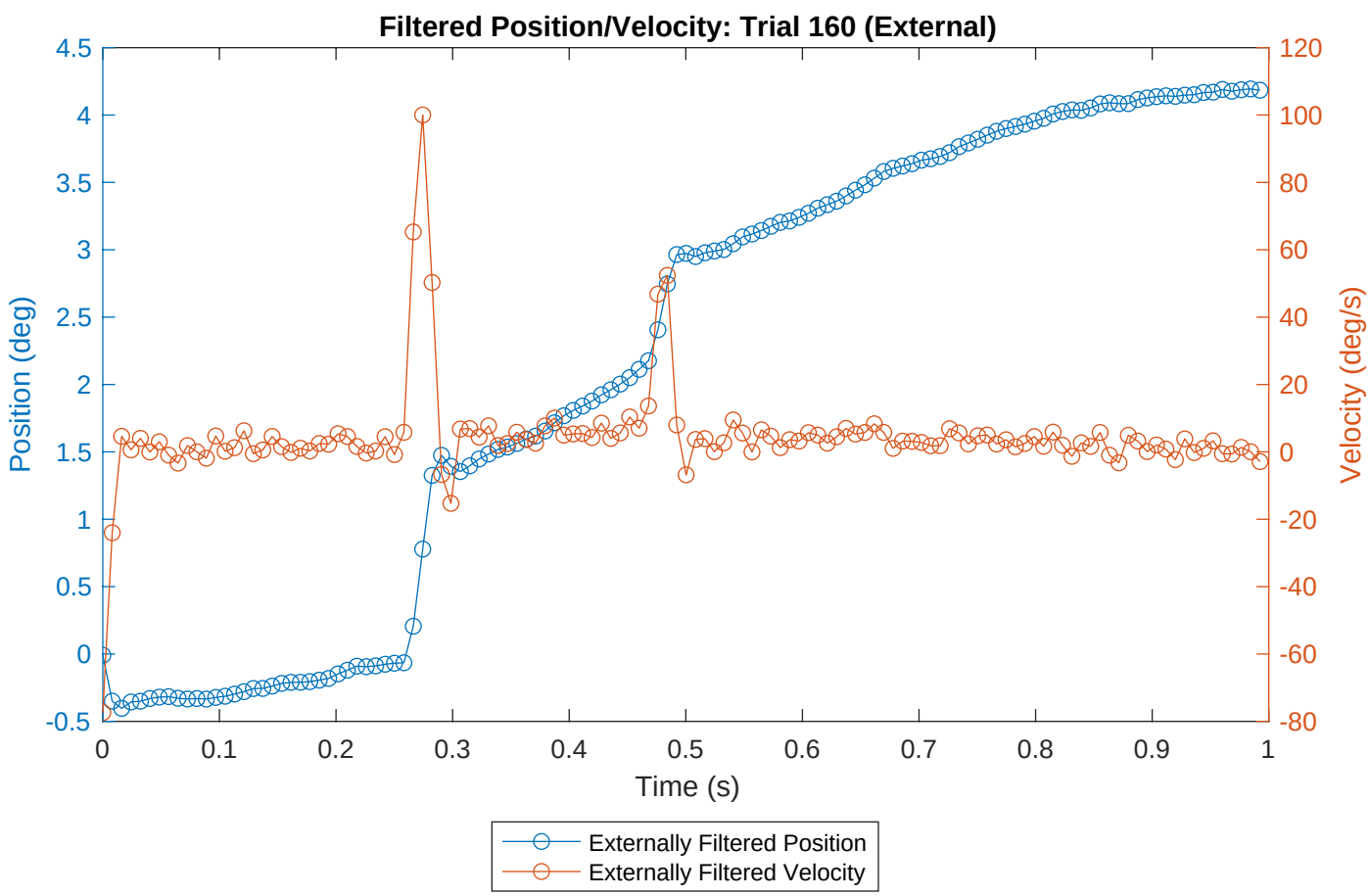

Position (deg)
Time (s)

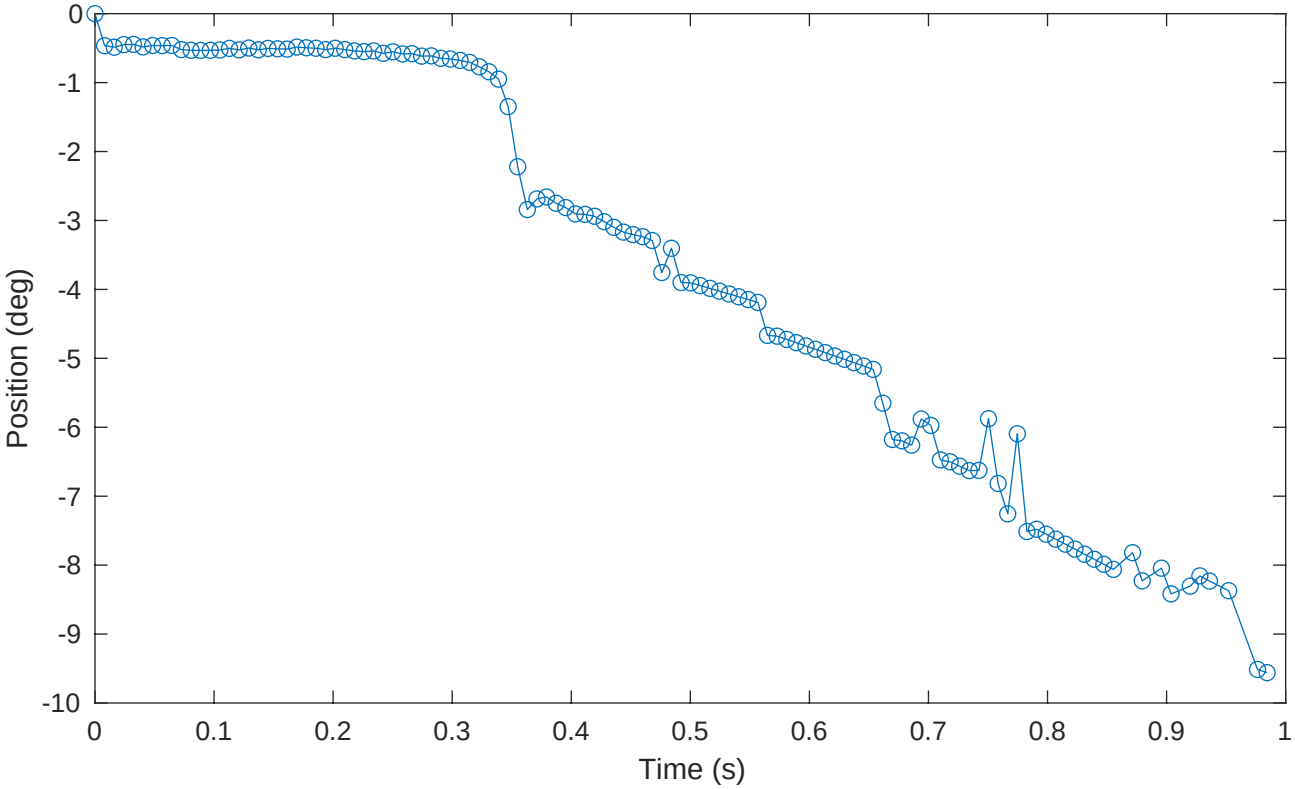

Filtered Position/Velocity: Trial 158 (External)
Position (deg)
Velocity (deg/s)
Time (s)
Externally Filtered Position
Externally Filtered Velocity

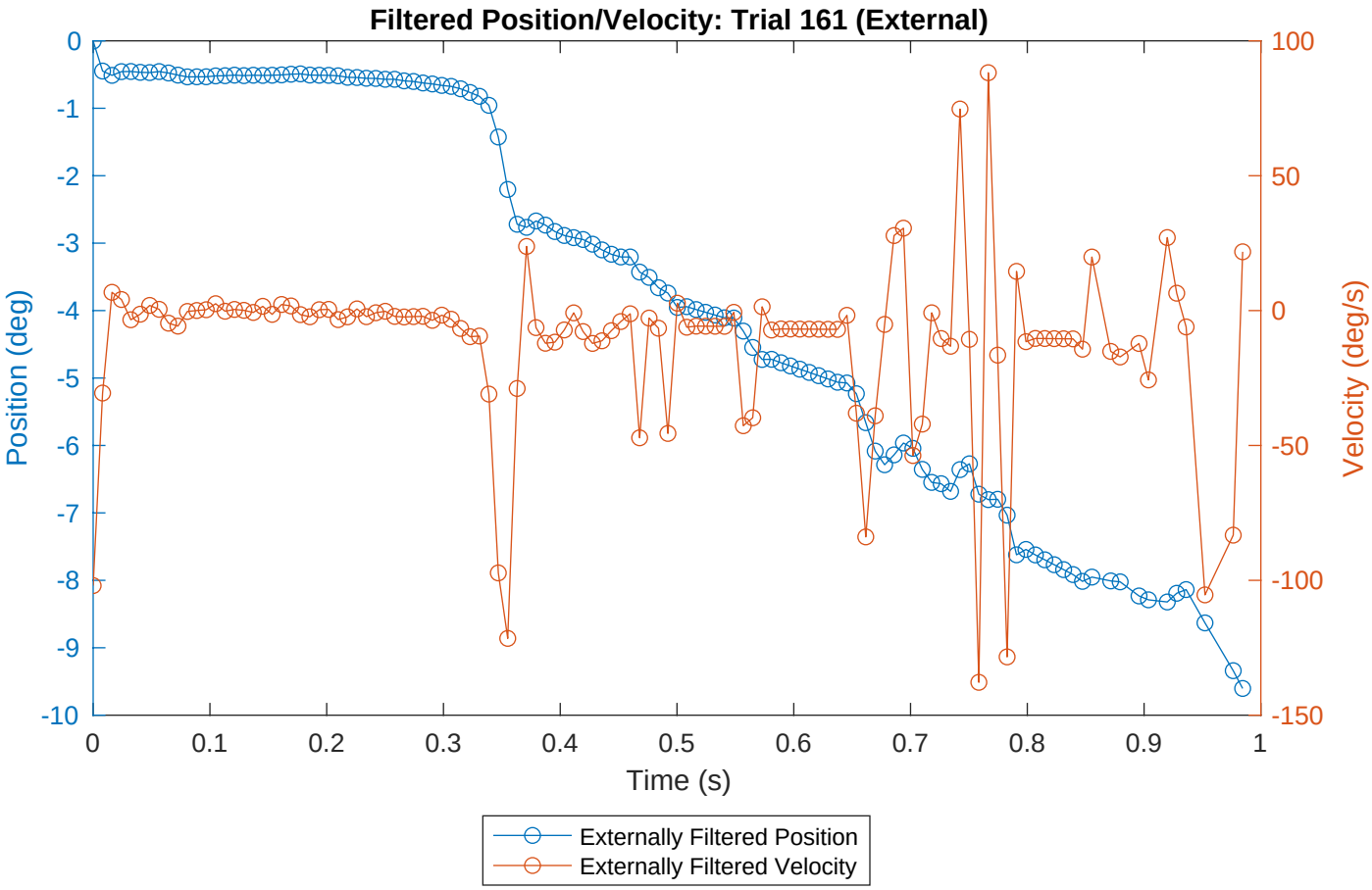

Position (deg)
Time (s)

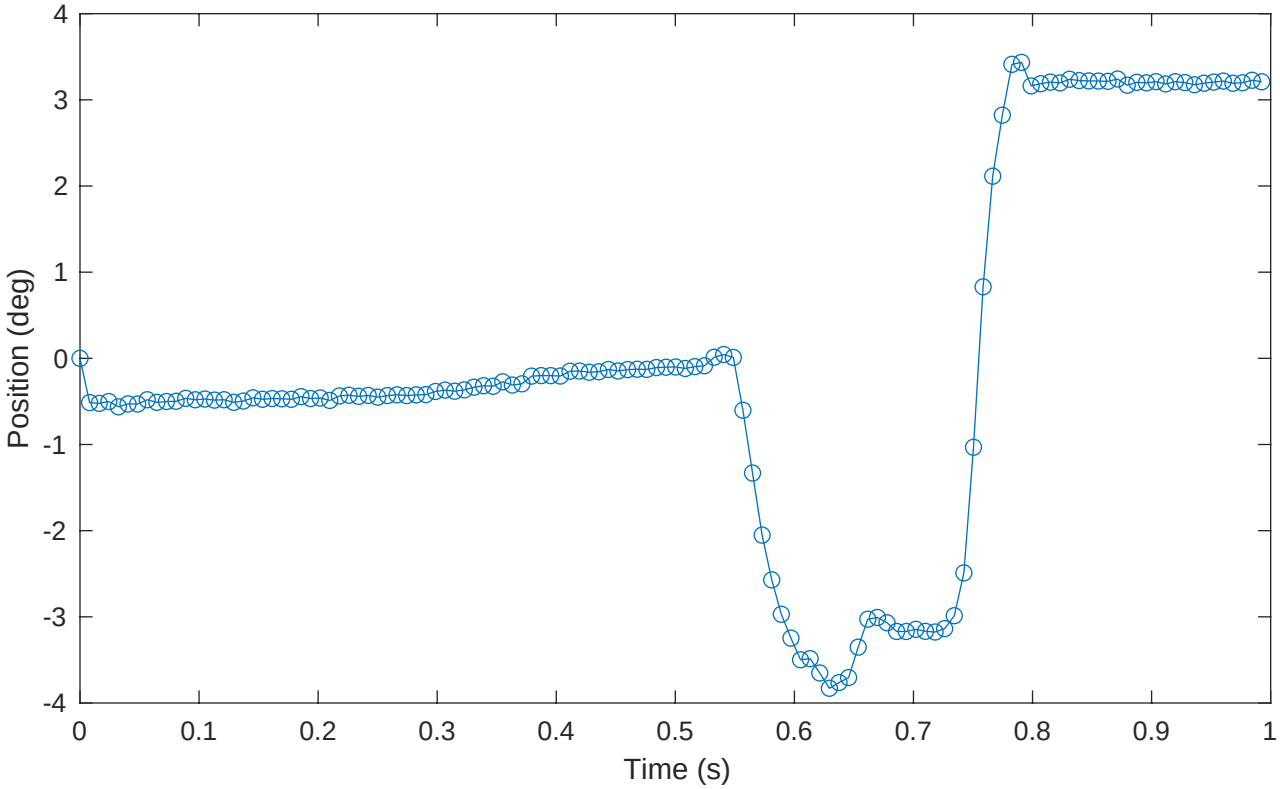

Filtered Position/Velocity: Trial 159 (External)
Position (deg)
Velocity (deg/s)
Time (s)
Externally Filtered Position
Externally Filtered Velocity

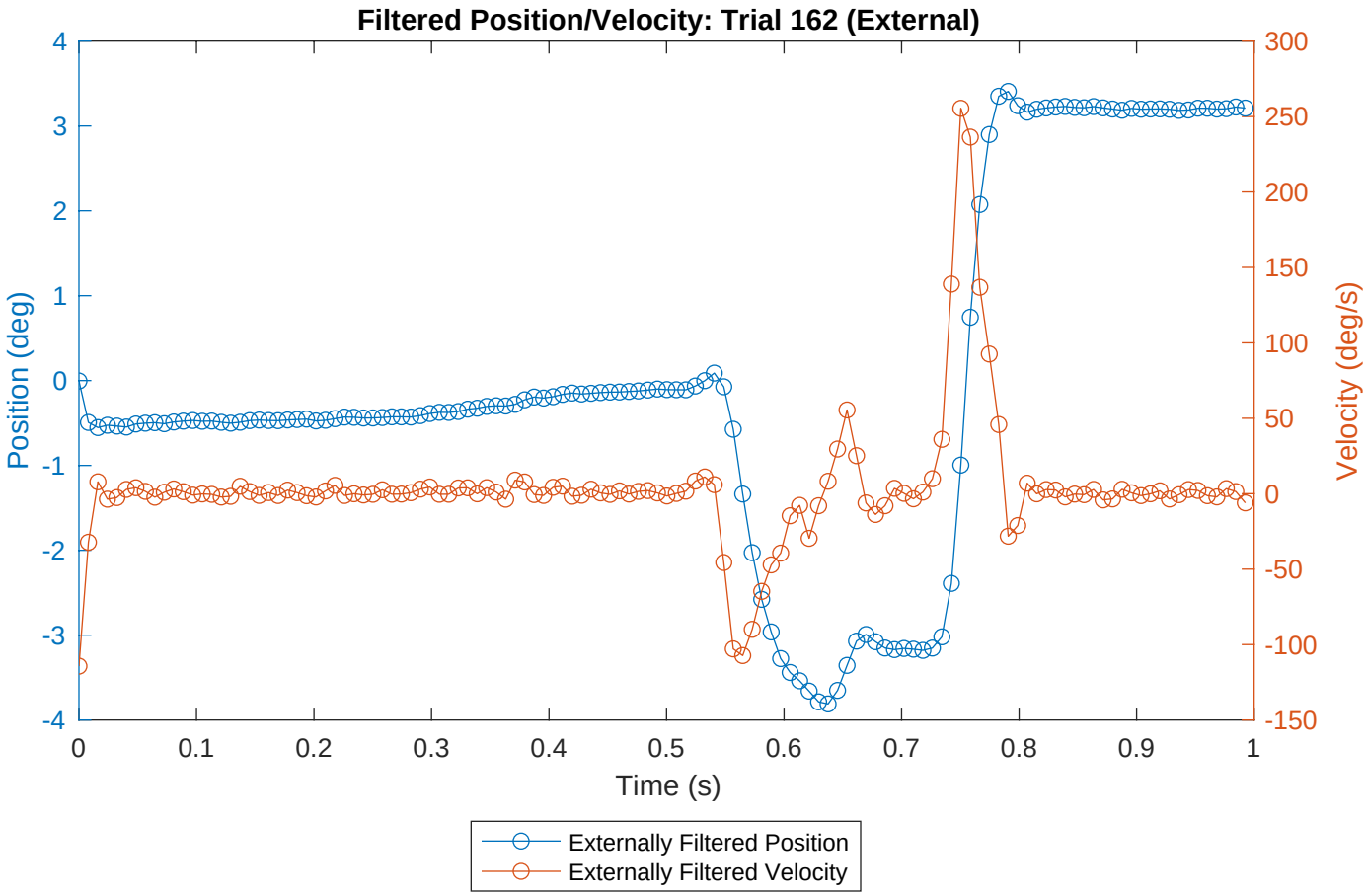

Position (deg)
Time (s)

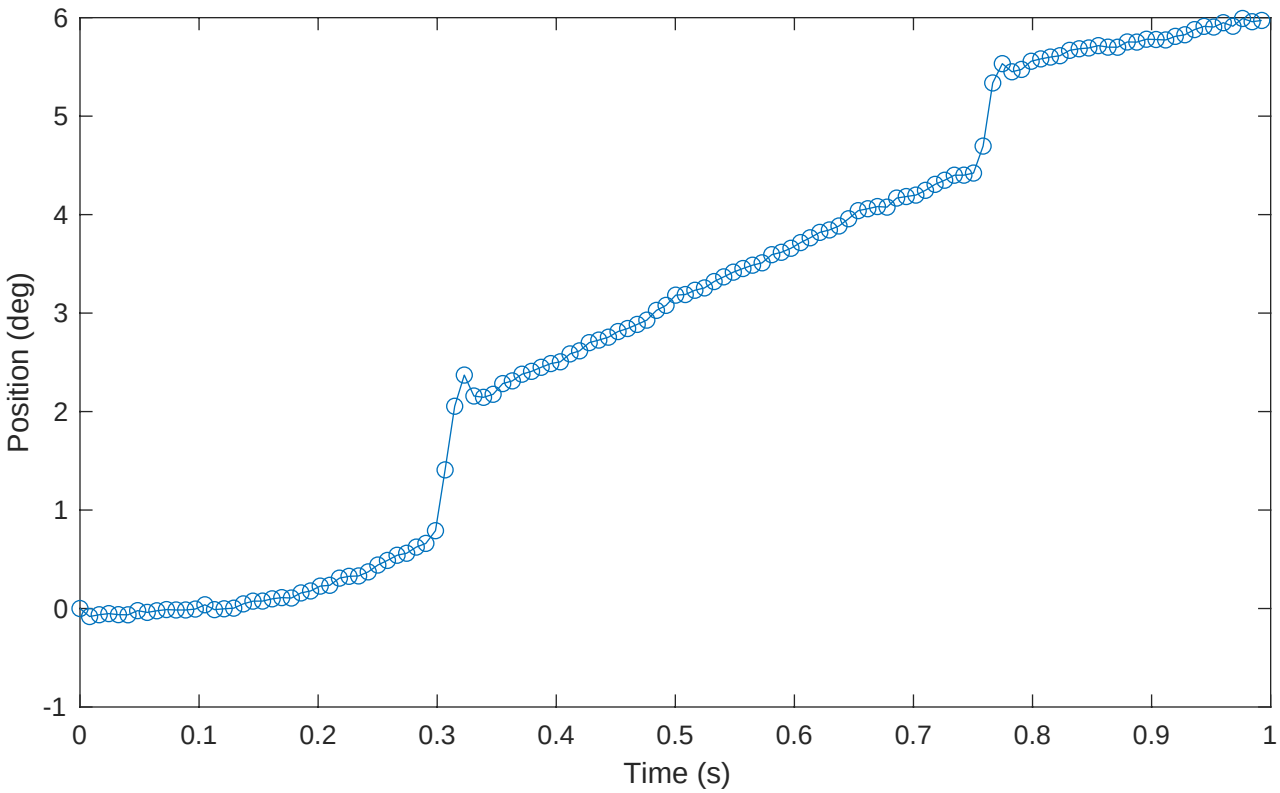

Filtered Position/Velocity: Trial 160 (External)
Position (deg)
Velocity (deg/s)
Time (s)
Externally Filtered Position
Externally Filtered Velocity

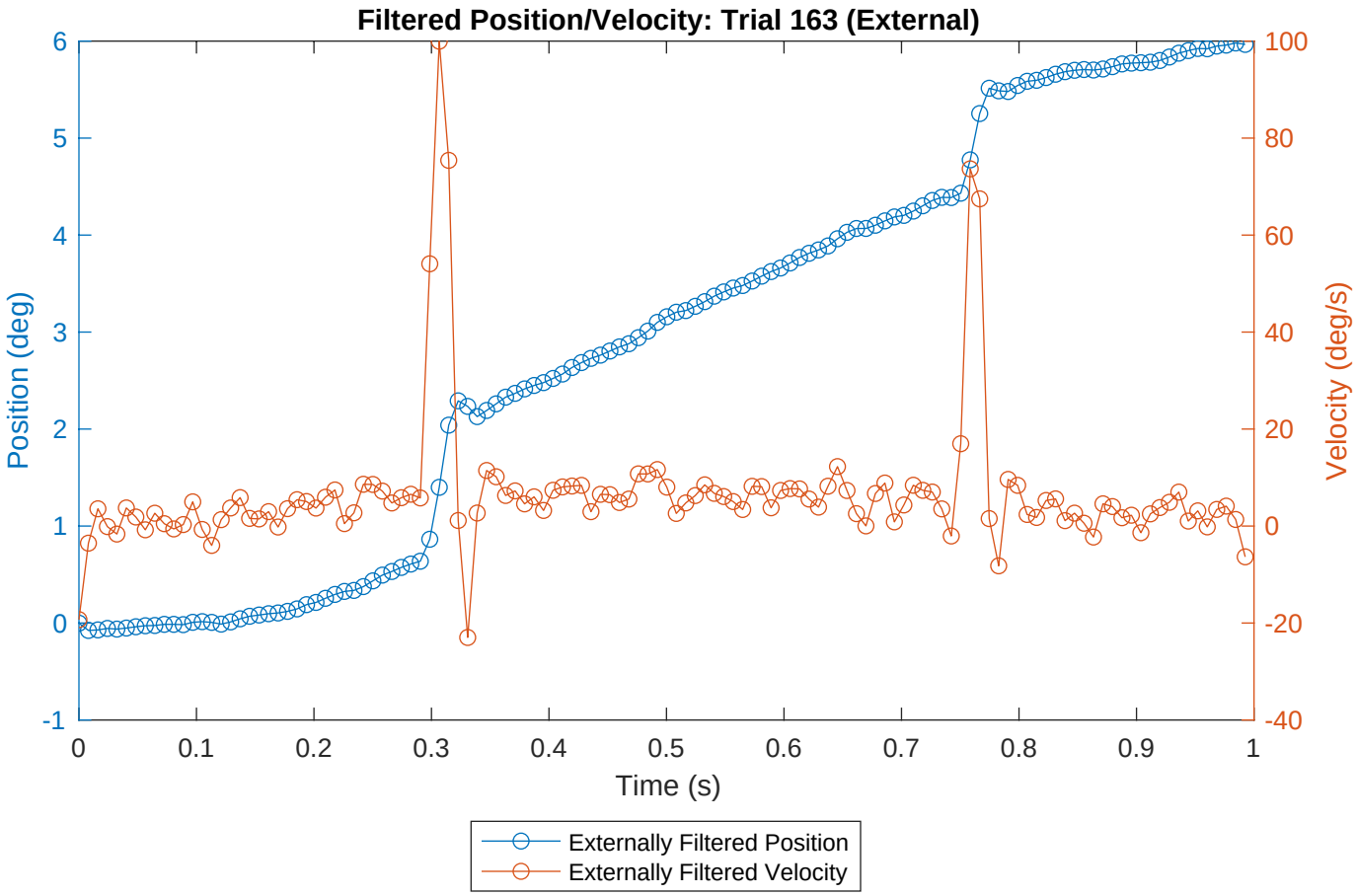

Position (deg)
Time (s)
0
-1
-2
-3
-4
-5
-6
-7
-8
-9
-10
0
0.1
0.2
0.3
0.4
0.5
0.6
0.7
0.8
0.9
1

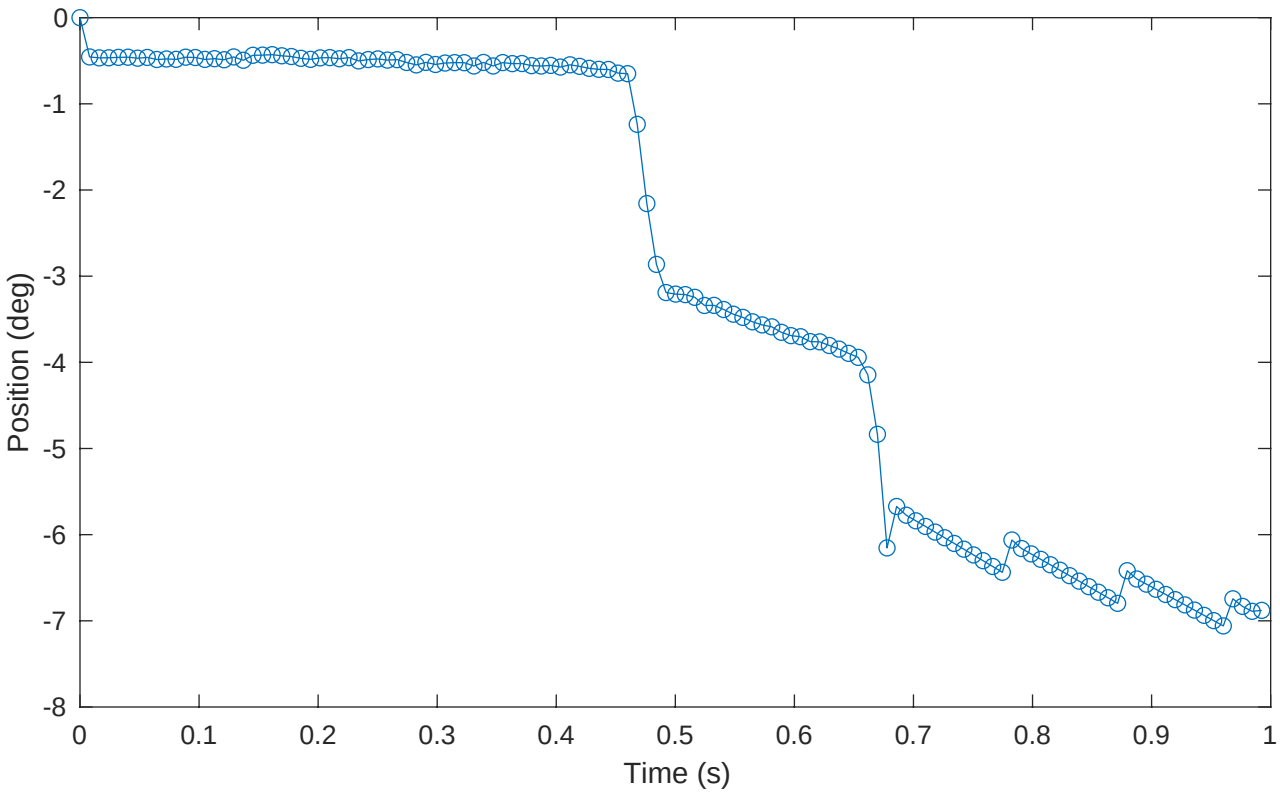

Filtered Position/Velocity: Trial 161 (External)
Position (deg)
Velocity (deg/s)
Time (s)
0
-1
-2
-3
-4
-5
-6
-7
-8
-9
-10
100
50
0
-50
-100
-150
0
0.1
0.2
0.3
0.4
0.5
0.6
0.7
0.8
0.9
1
Externally Filtered Position
Externally Filtered Velocity

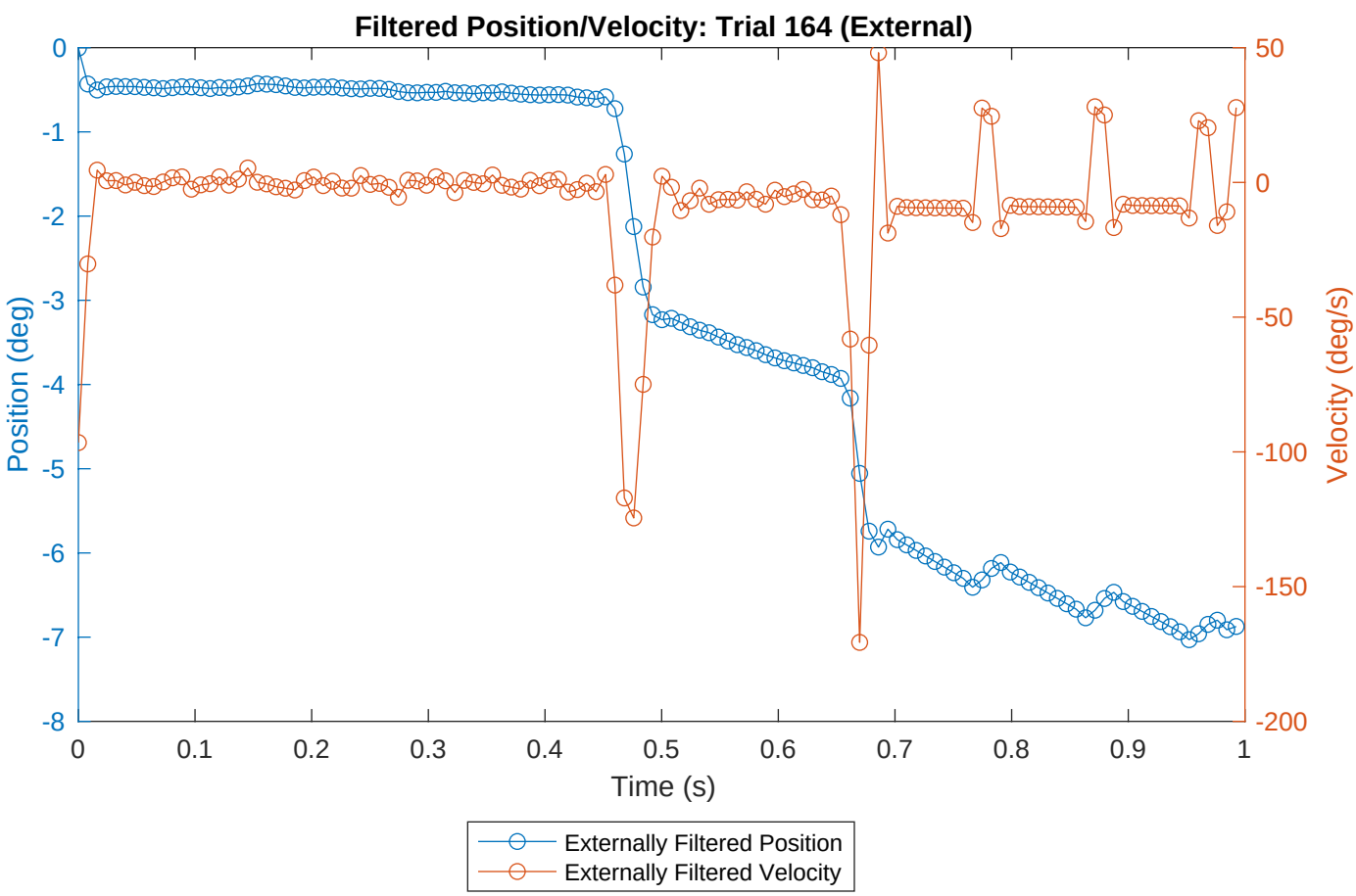

Position (deg)
Time (s)

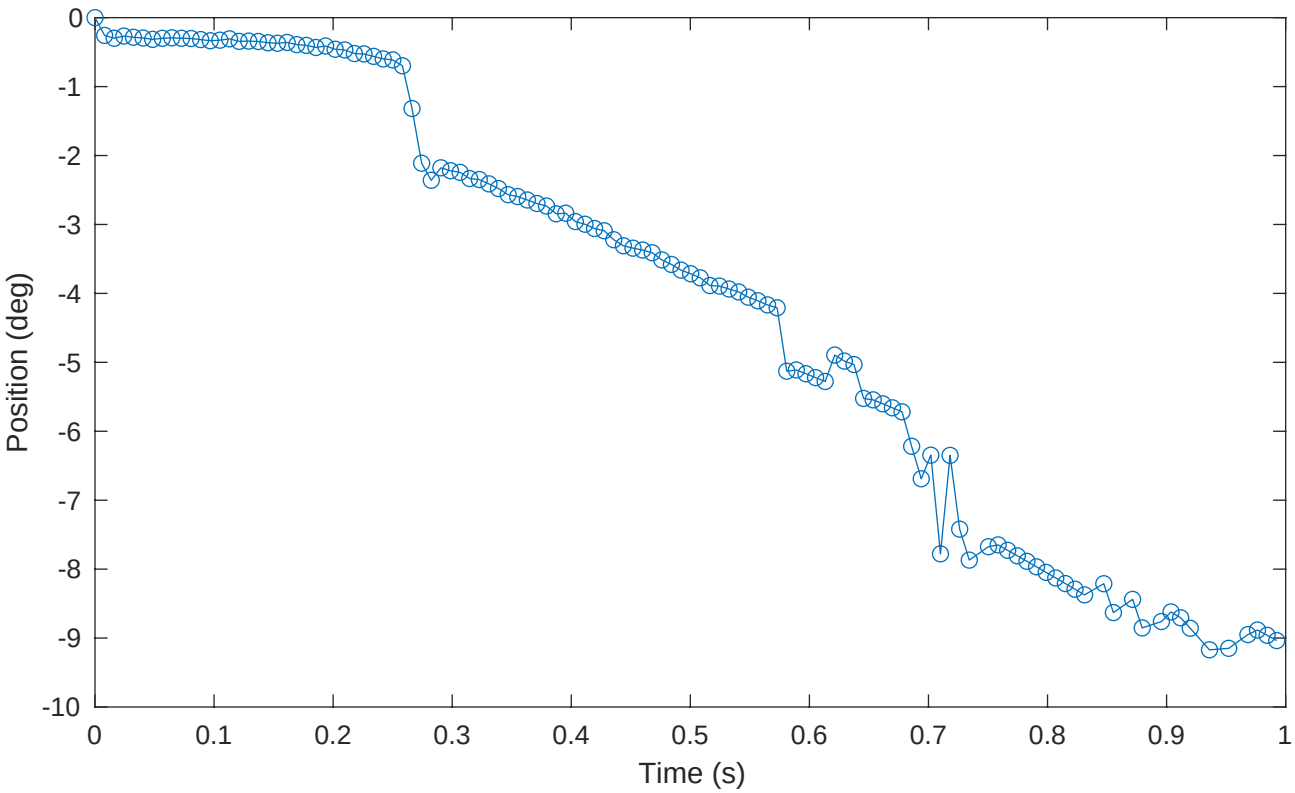

Filtered Position/Velocity: Trial 162 (External)
Position (deg)
Velocity (deg/s)
Time (s)
Externally Filtered Position
Externally Filtered Velocity

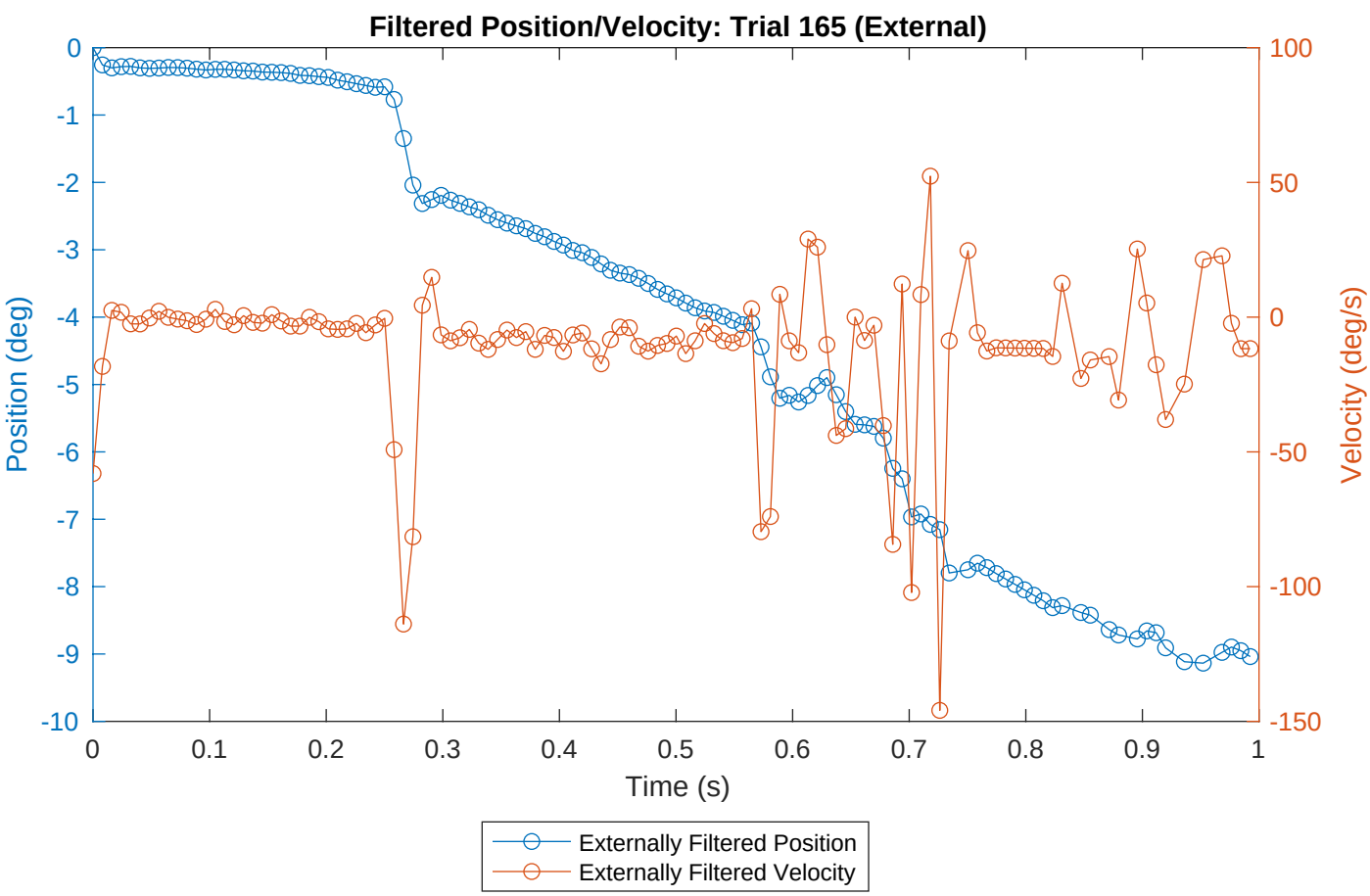

Position (deg)
Time (s)

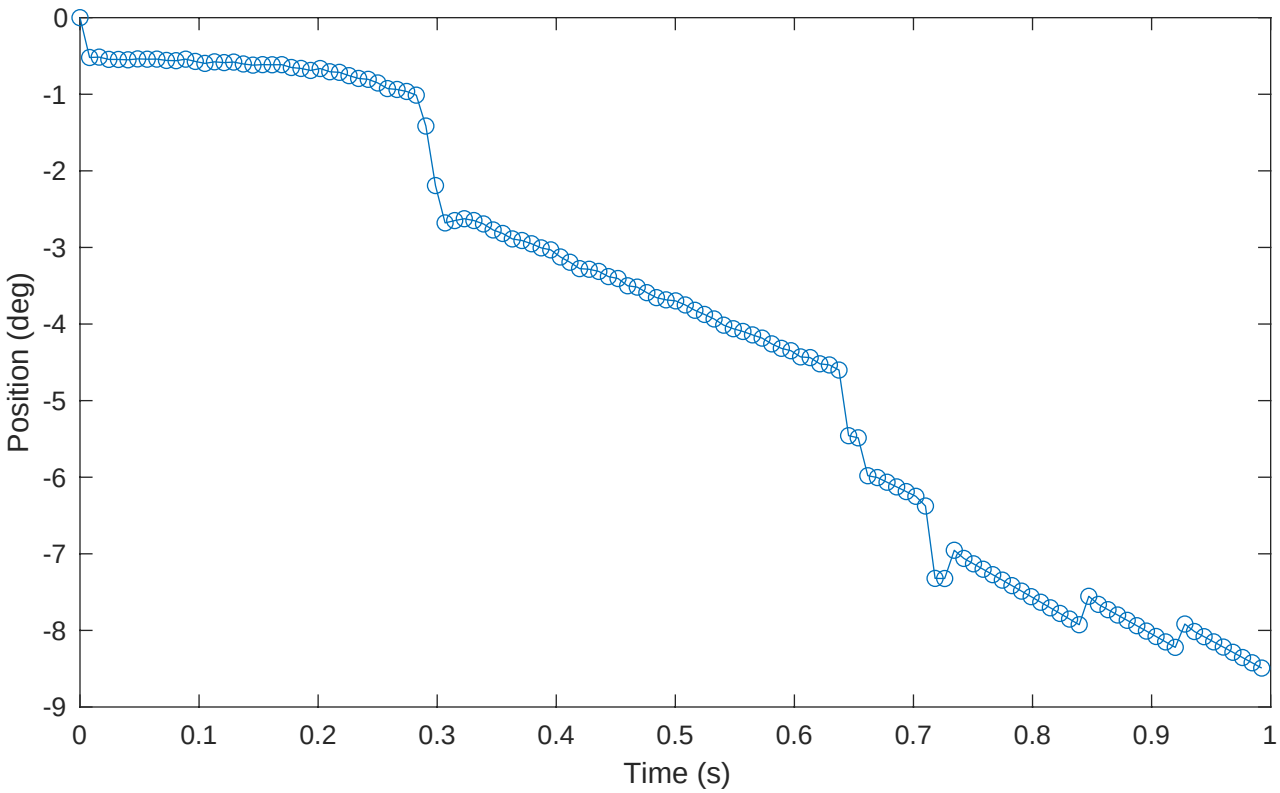

Filtered Position/Velocity: Trial 163 (External)
Position (deg)
Velocity (deg/s)
Time (s)
Externally Filtered Position
Externally Filtered Velocity

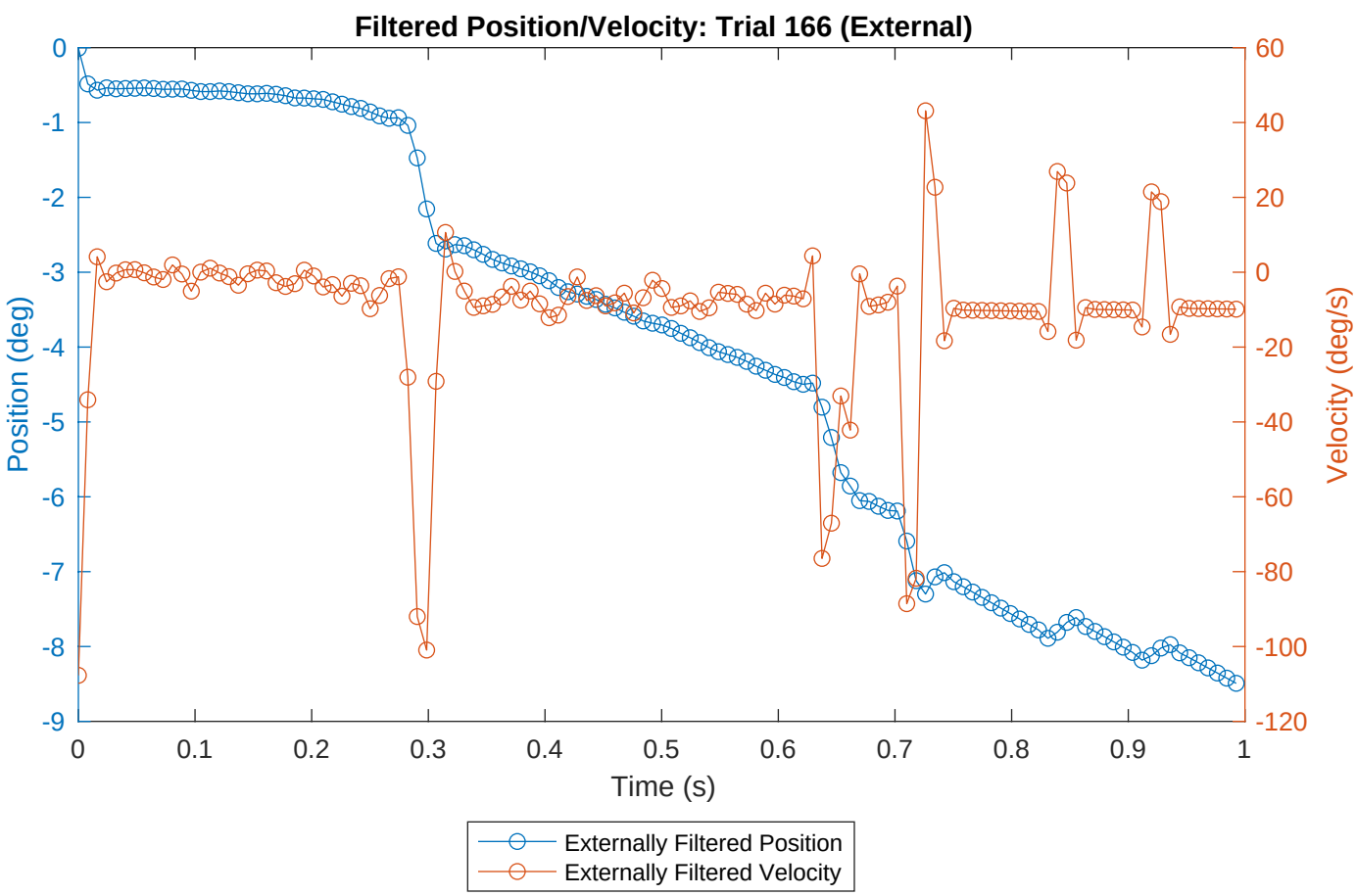

Position (deg)
Time (s)

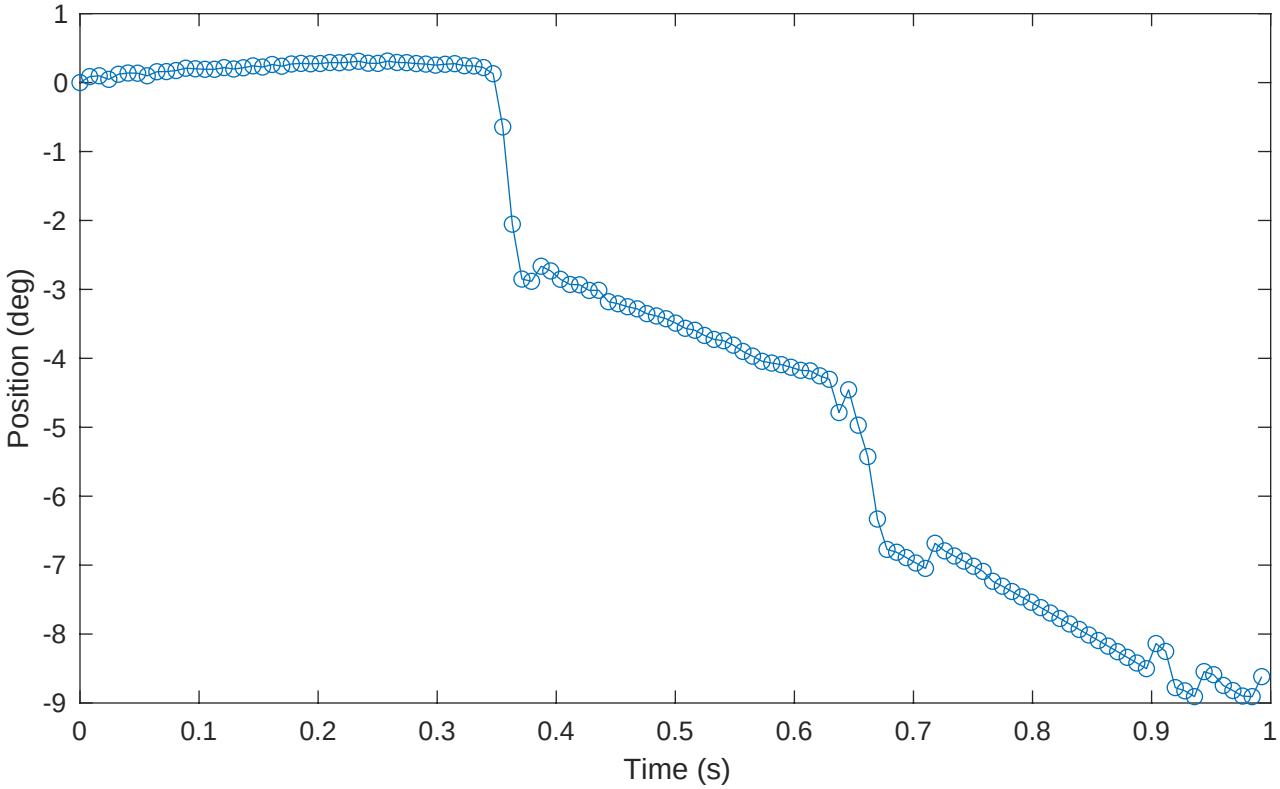

Filtered Position/Velocity: Trial 164 (External)
Position (deg)
Velocity (deg/s)
Time (s)
Externally Filtered Position
Externally Filtered Velocity

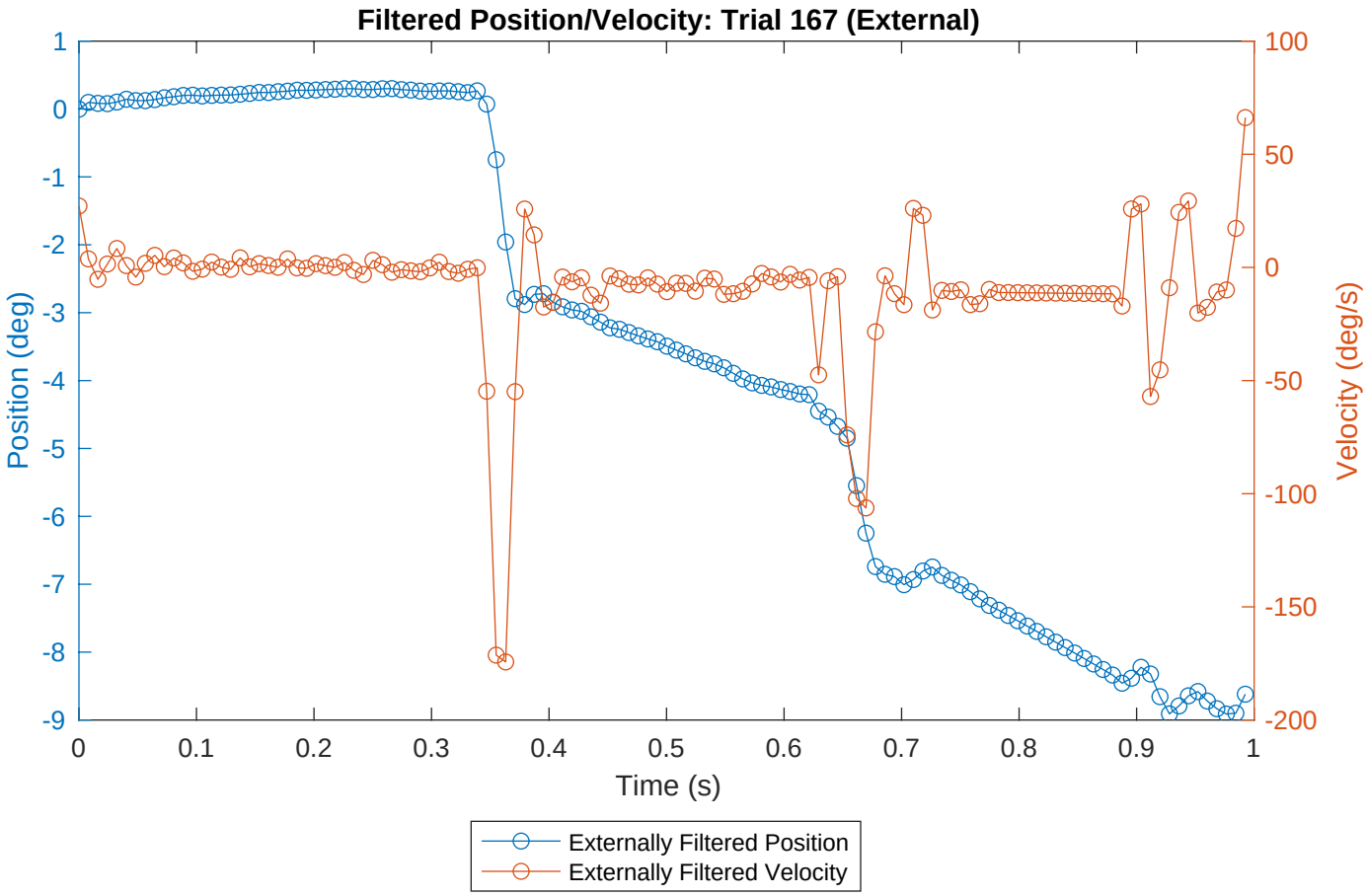

Position (deg)
Time (s)
0
-1
-2
-3
-4
-5
-6
-7
-8
-9
-10
0
0.1
0.2
0.3
0.4
0.5
0.6
0.7
0.8
0.9
1

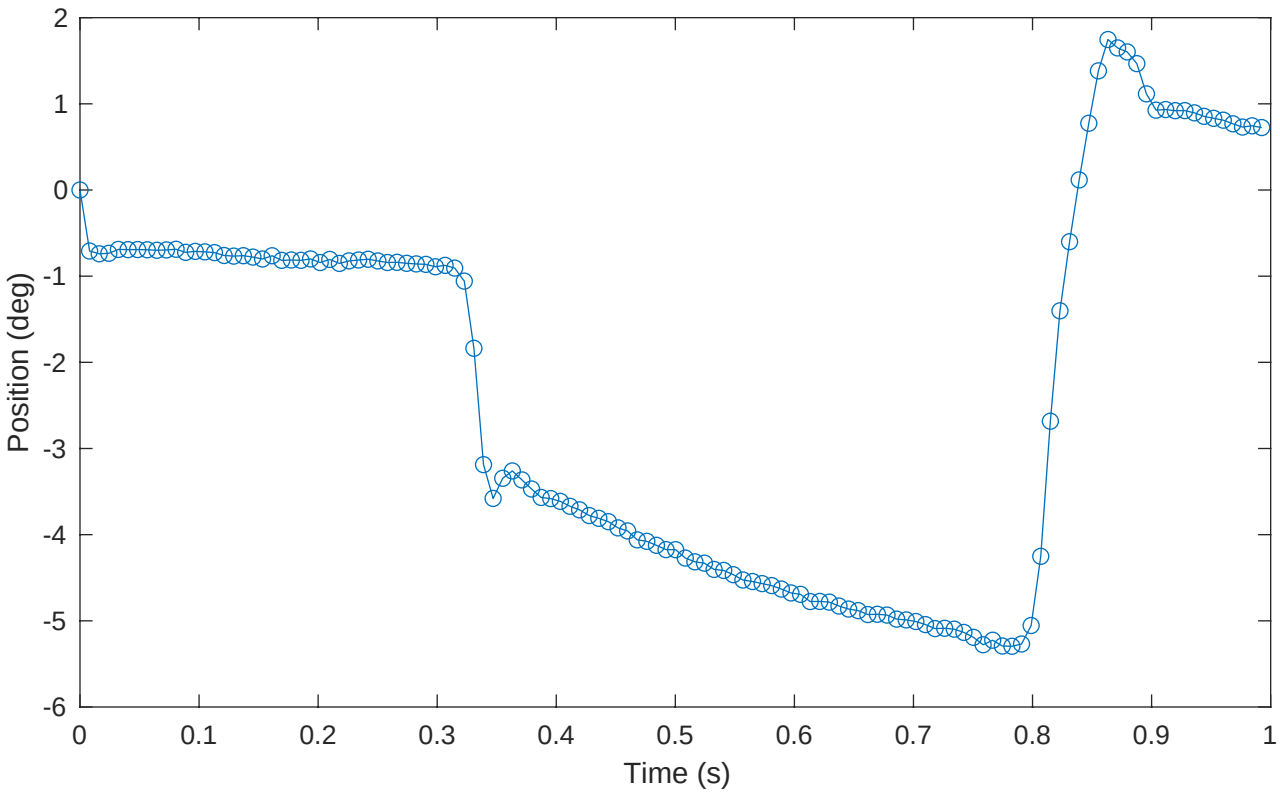

Filtered Position/Velocity: Trial 165 (External)
Position (deg)
Velocity (deg/s)
Time (s)
0
-1
-2
-3
-4
-5
-6
-7
-8
-9
-10
100
50
0
-50
-100
-150
0
0.1
0.2
0.3
0.4
0.5
0.6
0.7
0.8
0.9
1
Externally Filtered Position
Externally Filtered Velocity

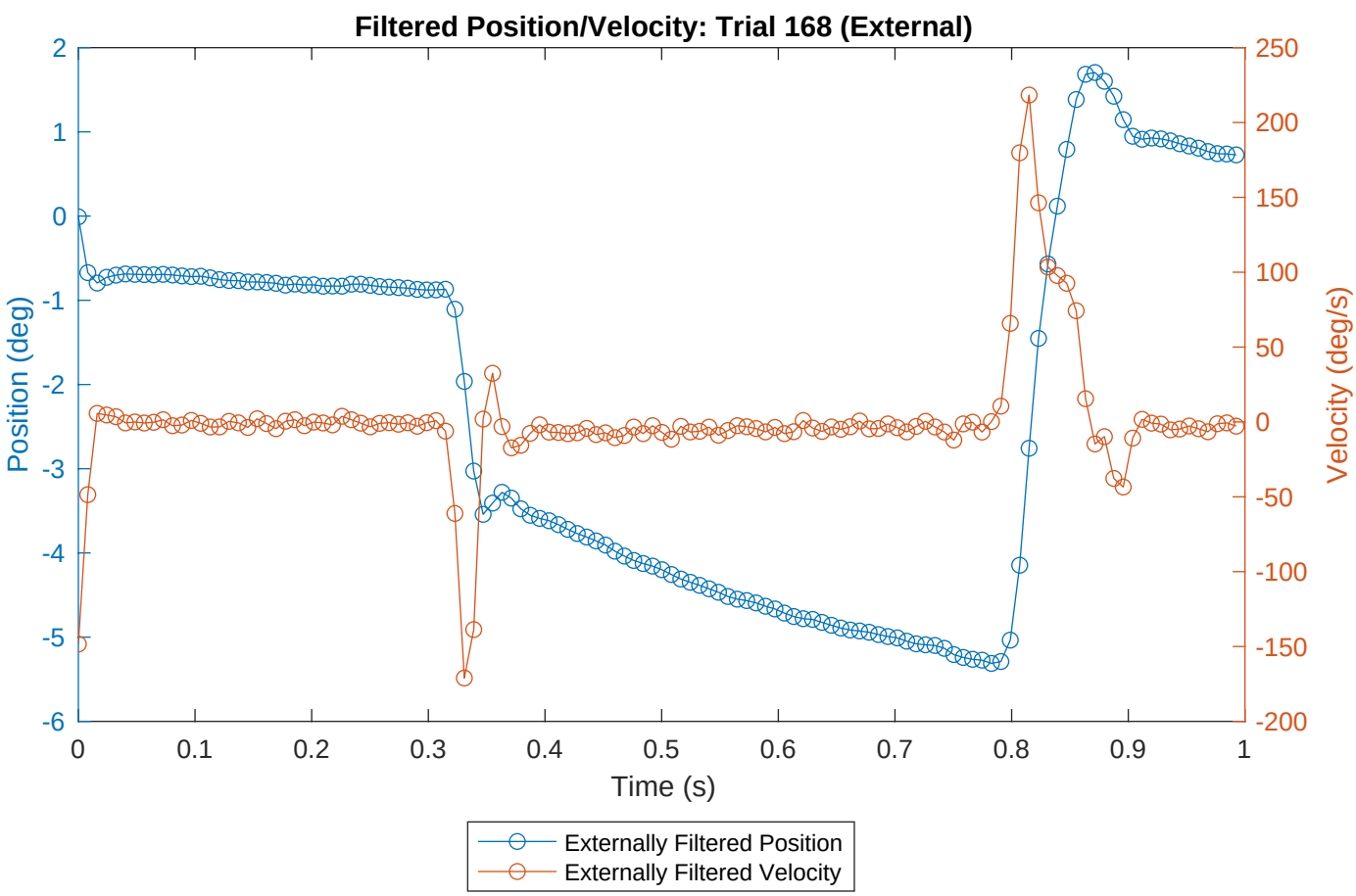

Position (deg)
Time (s)

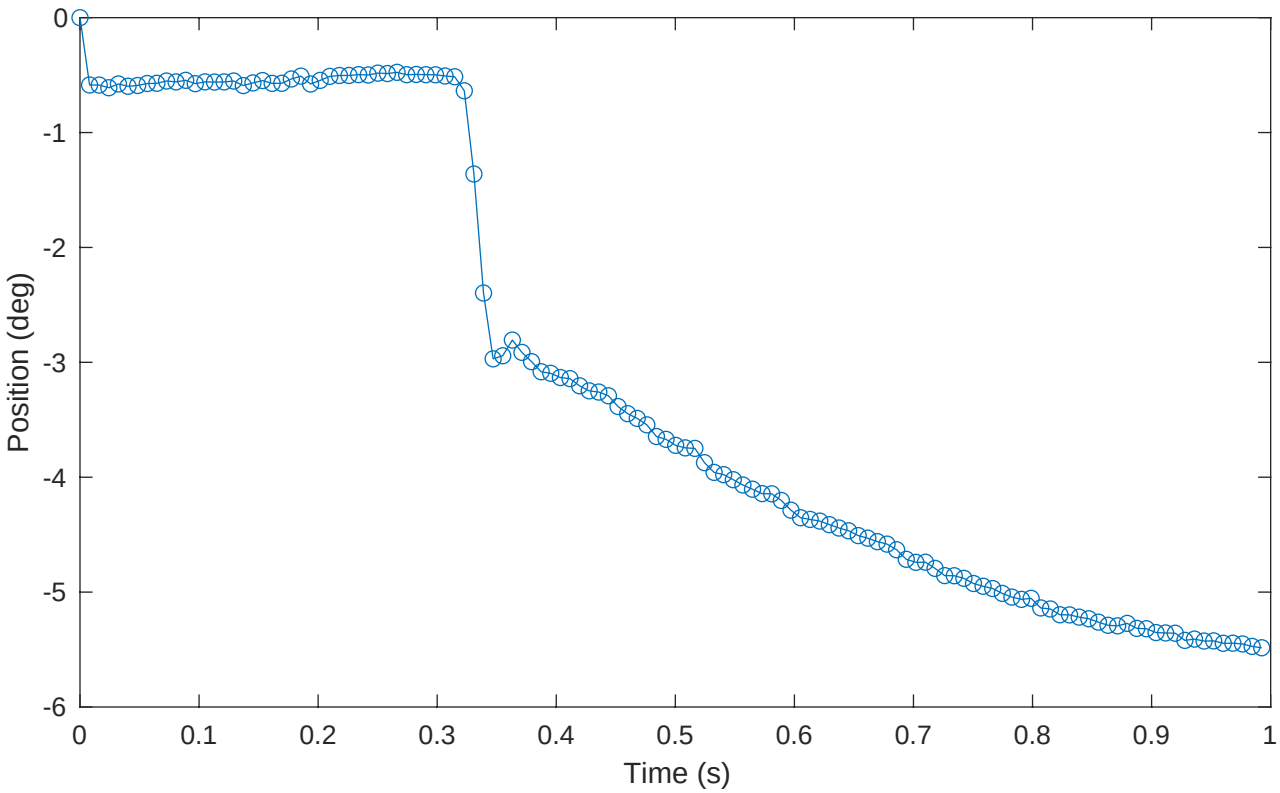

Filtered Position/Velocity: Trial 166 (External)
Position (deg)
Velocity (deg/s)
Time (s)
Externally Filtered Position
Externally Filtered Velocity

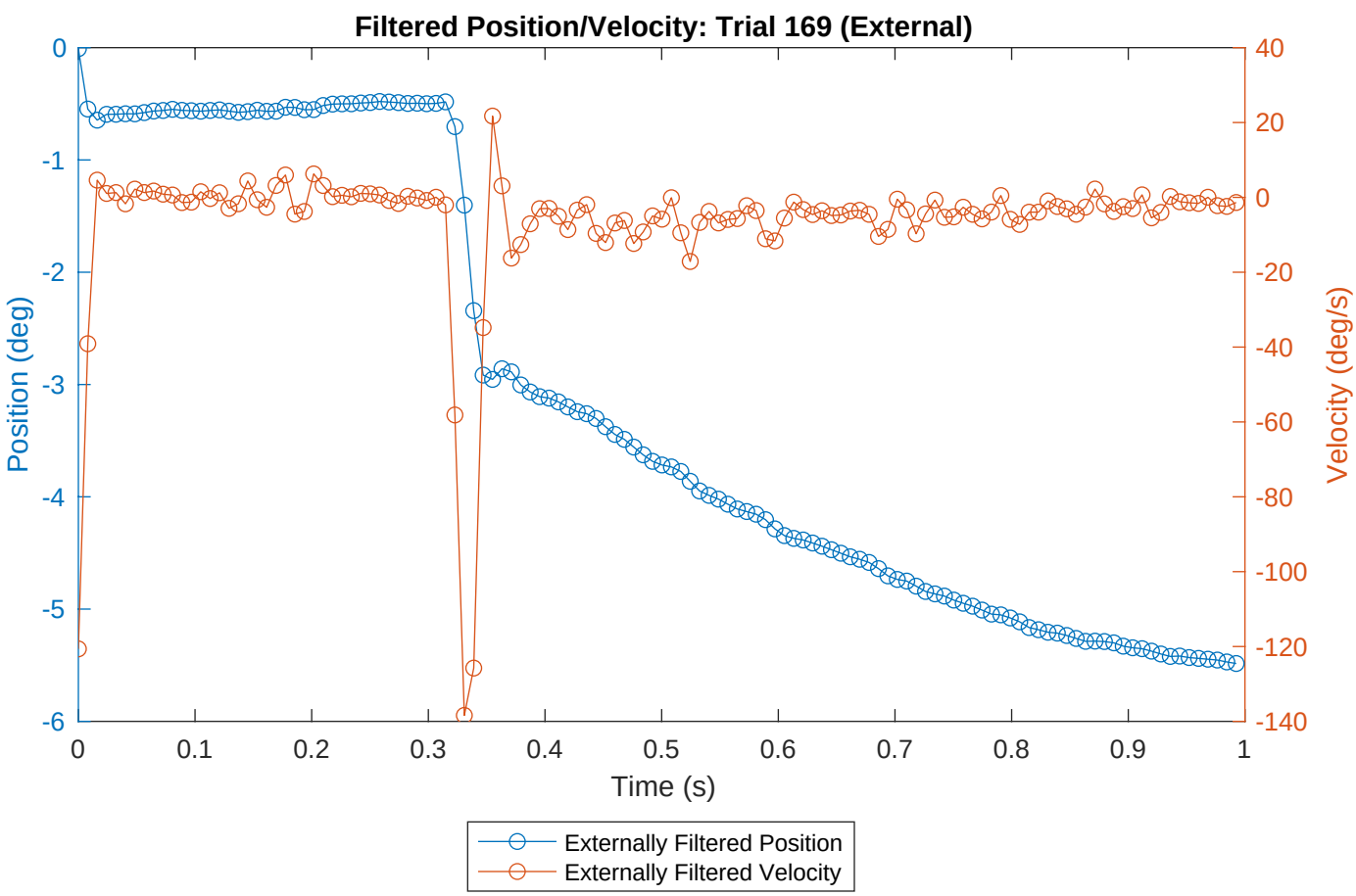

Position (deg)
Time (s)

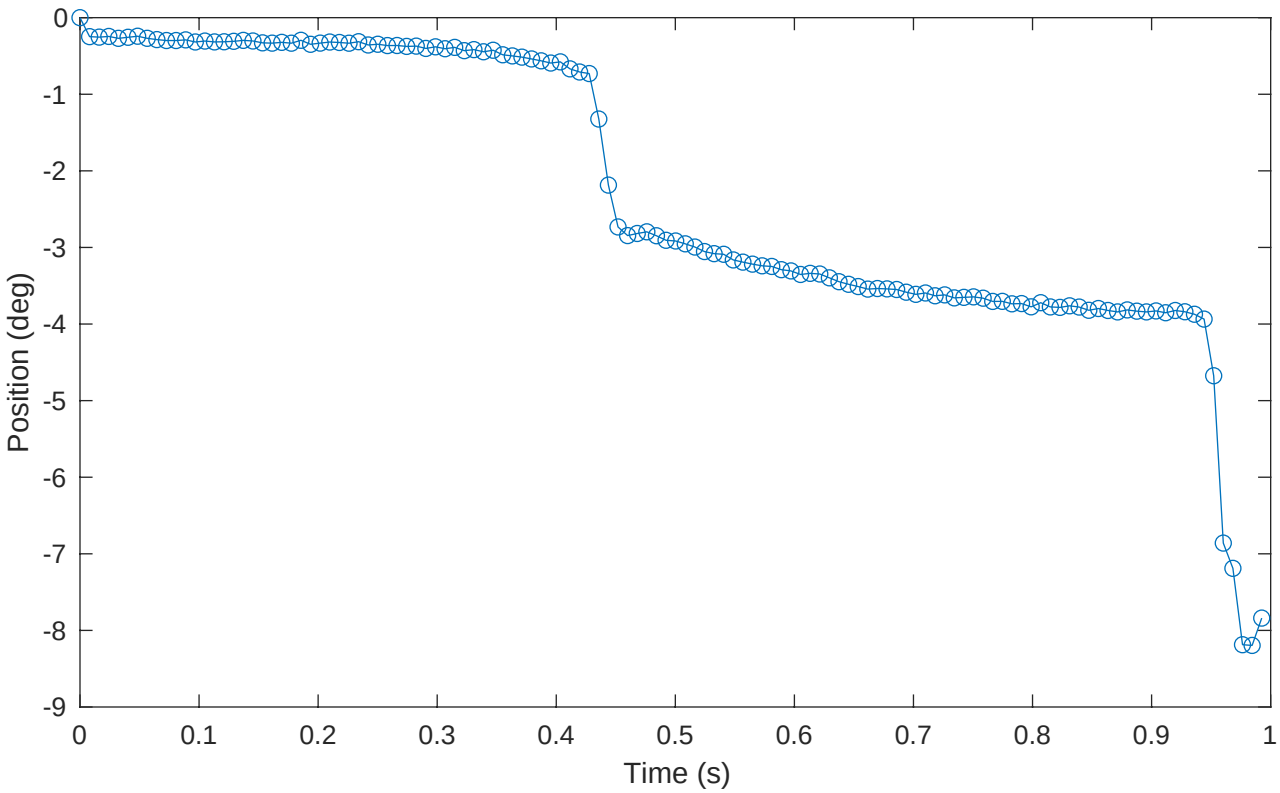

Filtered Position/Velocity: Trial 167 (External)
Position (deg)
Velocity (deg/s)
Time (s)
Externally Filtered Position
Externally Filtered Velocity

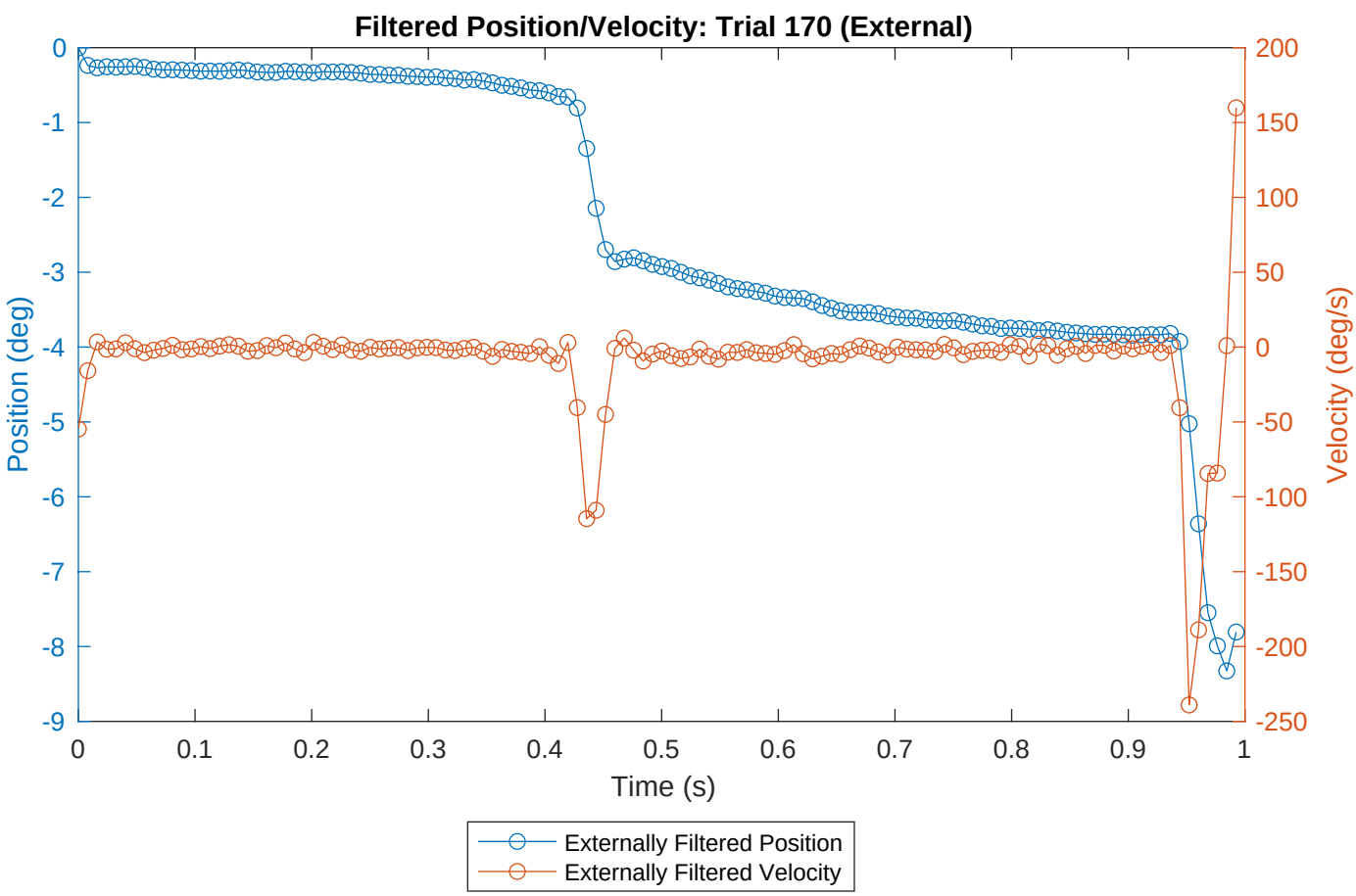

Position (deg)
Time (s)

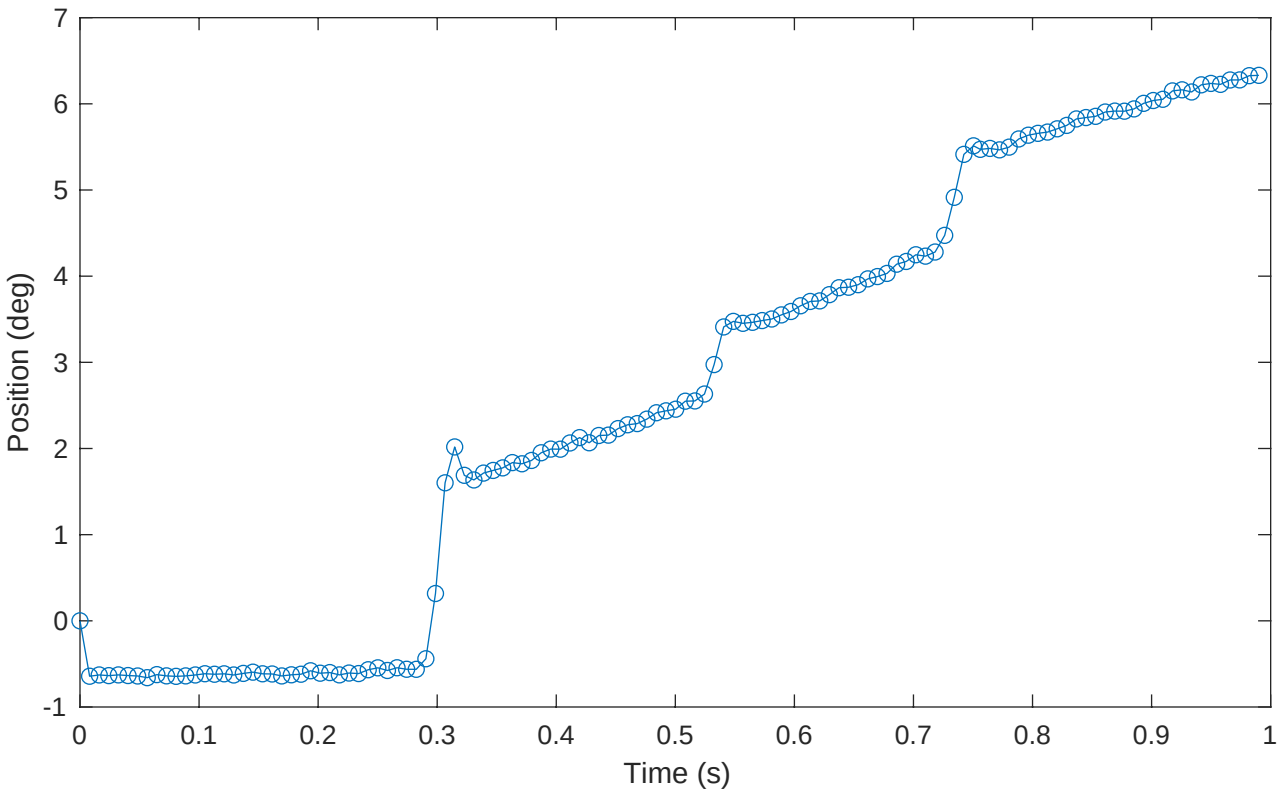

Filtered Position/Velocity: Trial 168 (External)
Position (deg)
Velocity (deg/s)
Time (s)
Externally Filtered Position
Externally Filtered Velocity

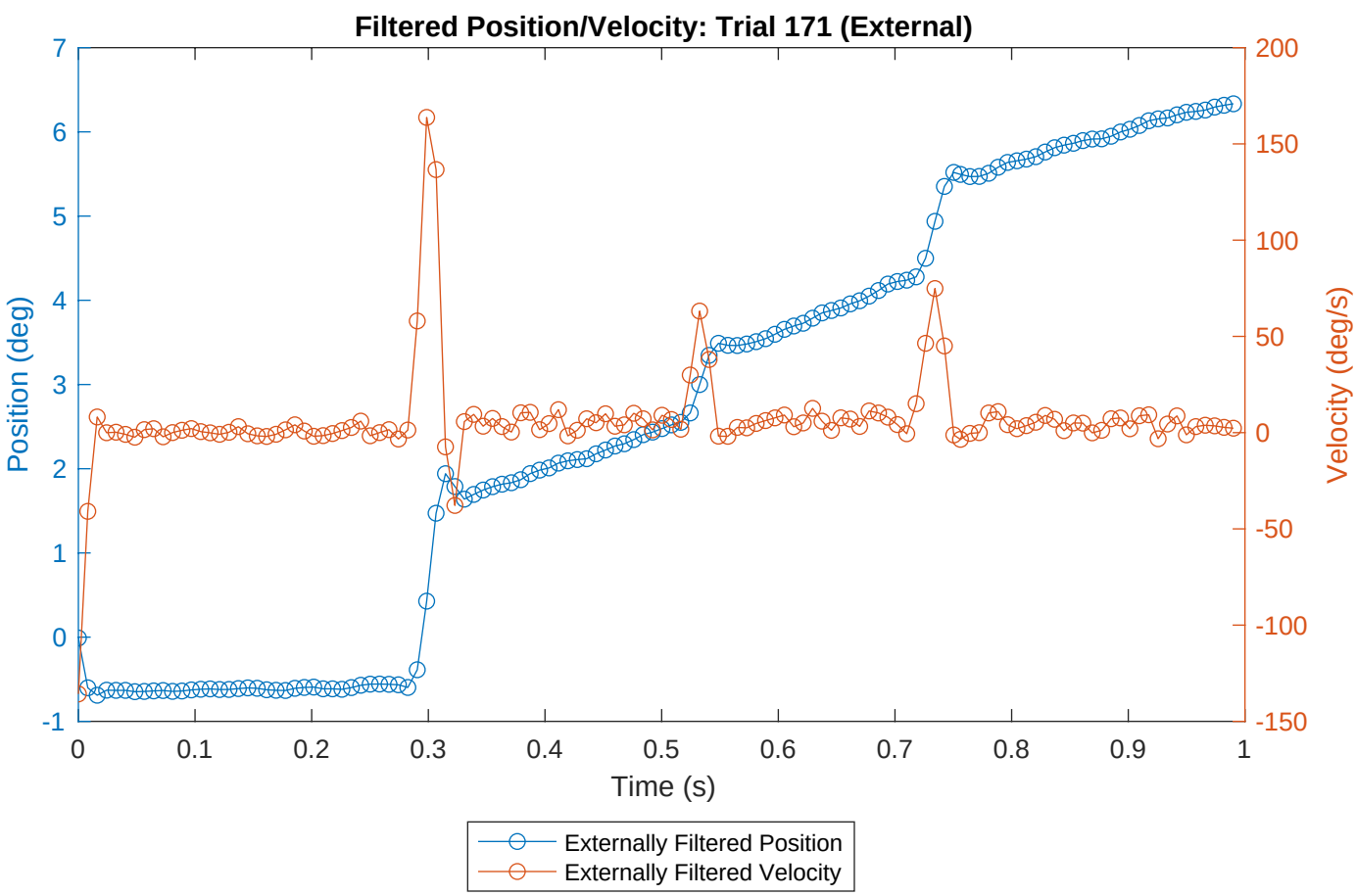

Position (deg)
Time (s)

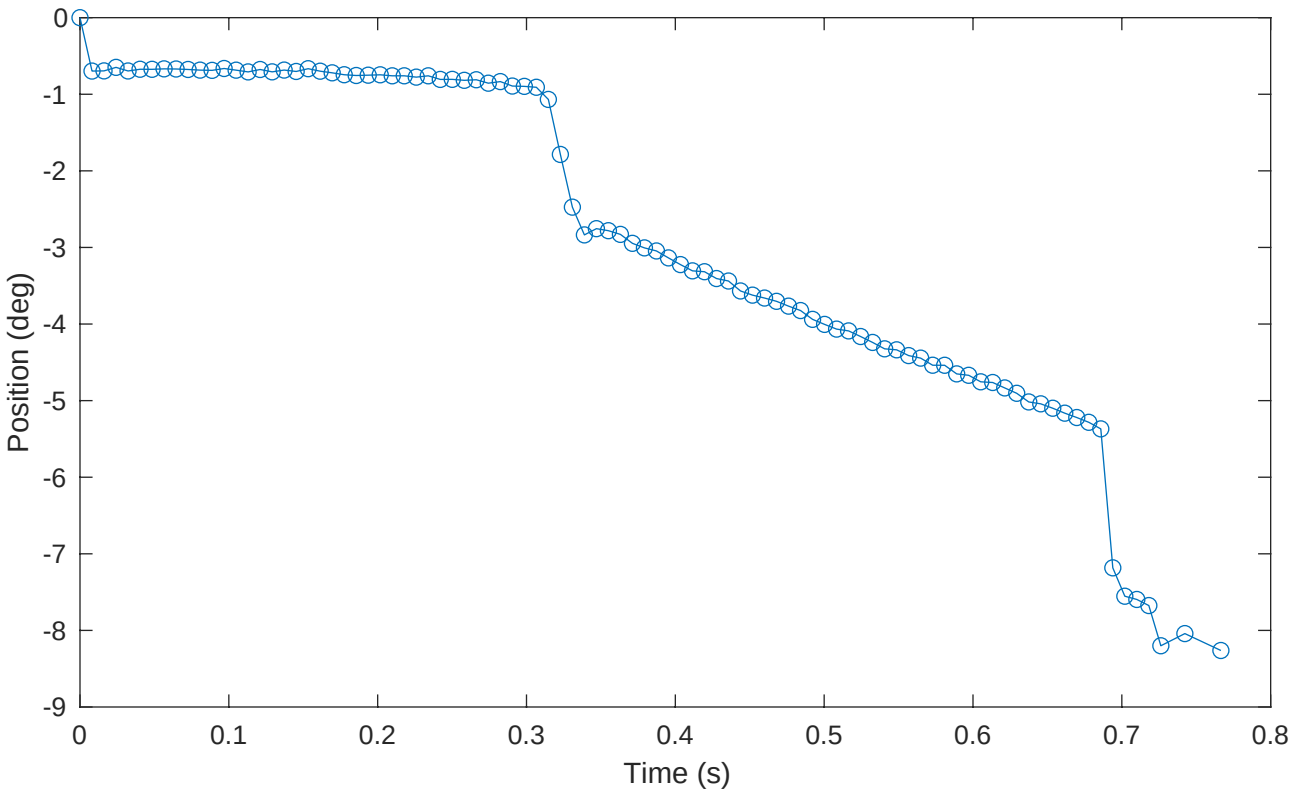

Filtered Position/Velocity: Trial 169 (External)
Position (deg)
Velocity (deg/s)
Time (s)
Externally Filtered Position
Externally Filtered Velocity

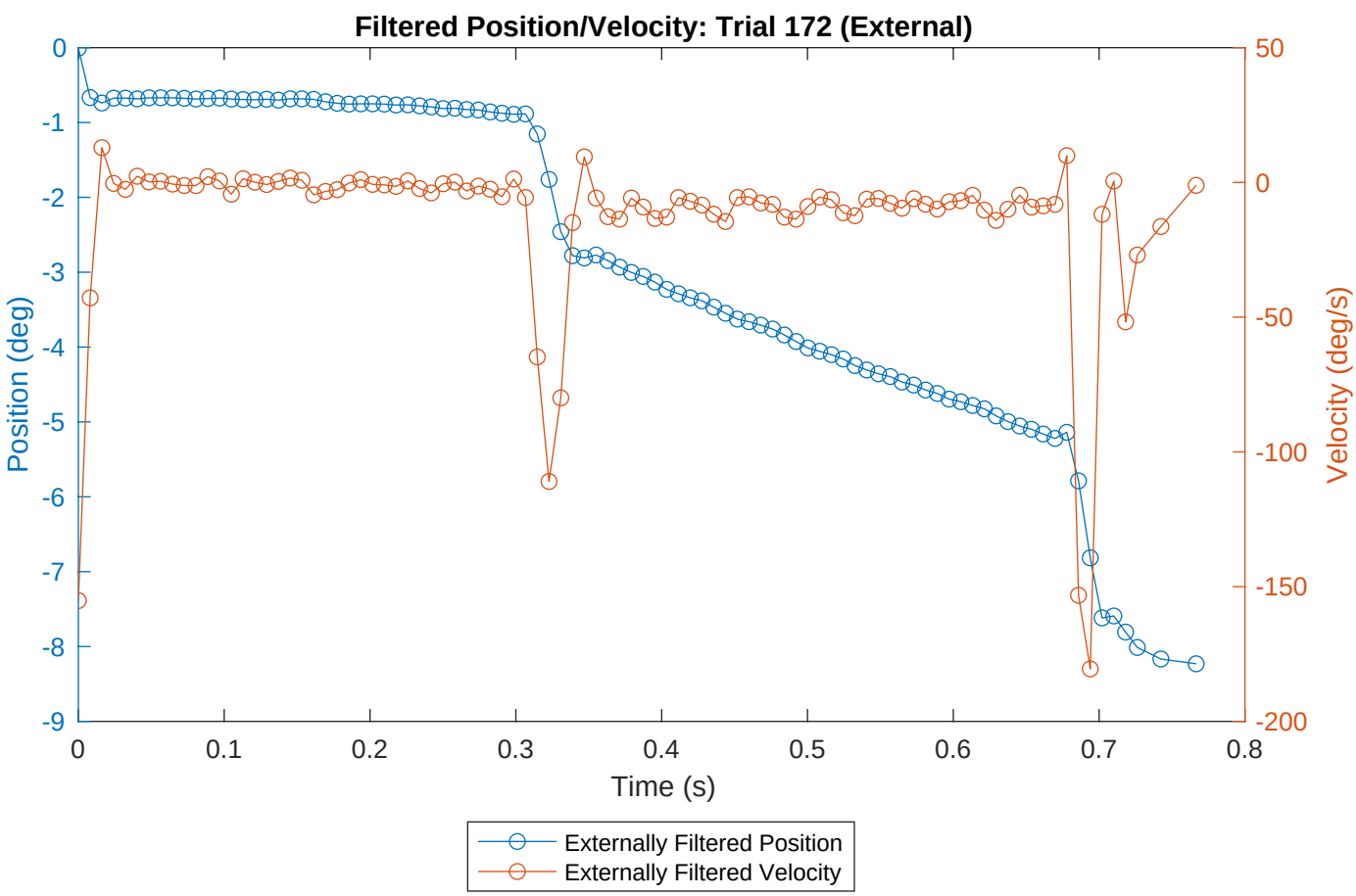

Position (deg)
Time (s)

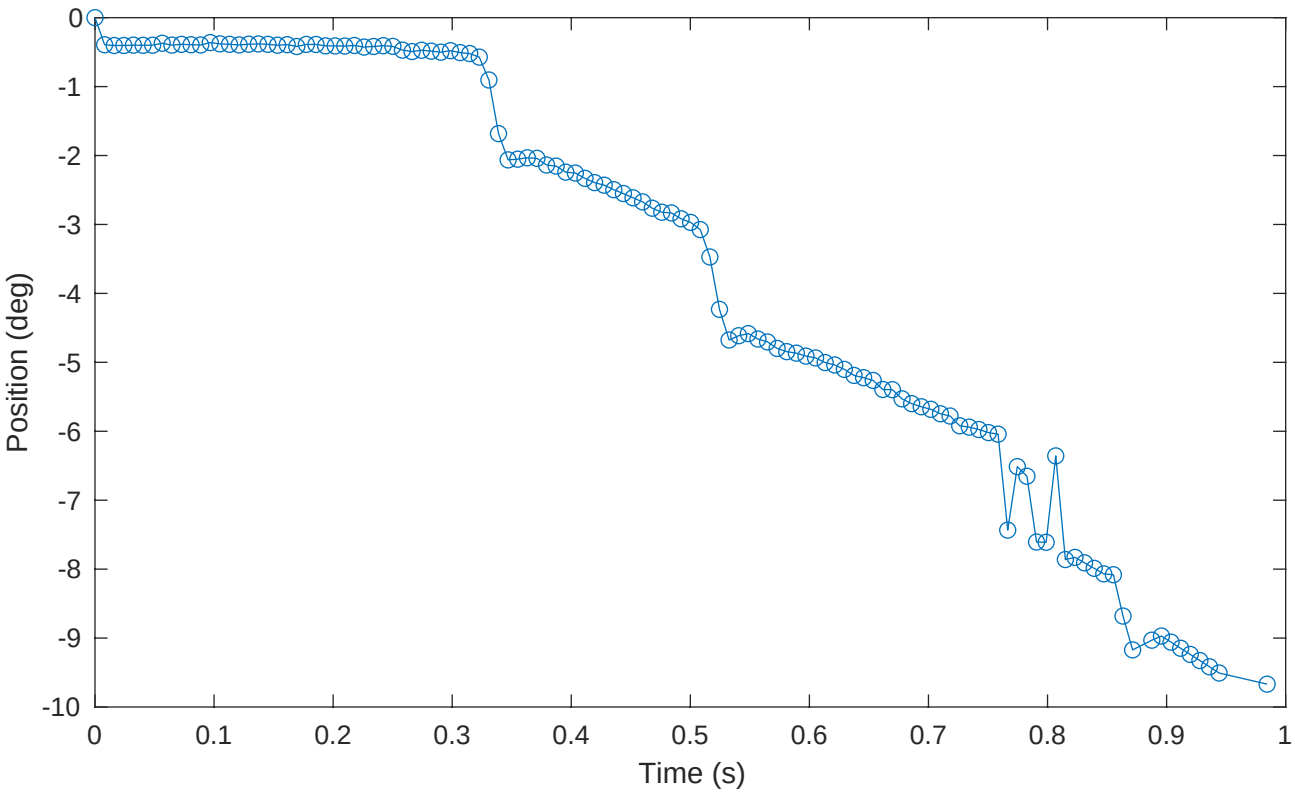

Filtered Position/Velocity: Trial 170 (External)
Position (deg)
Velocity (deg/s)
Time (s)
Externally Filtered Position
Externally Filtered Velocity

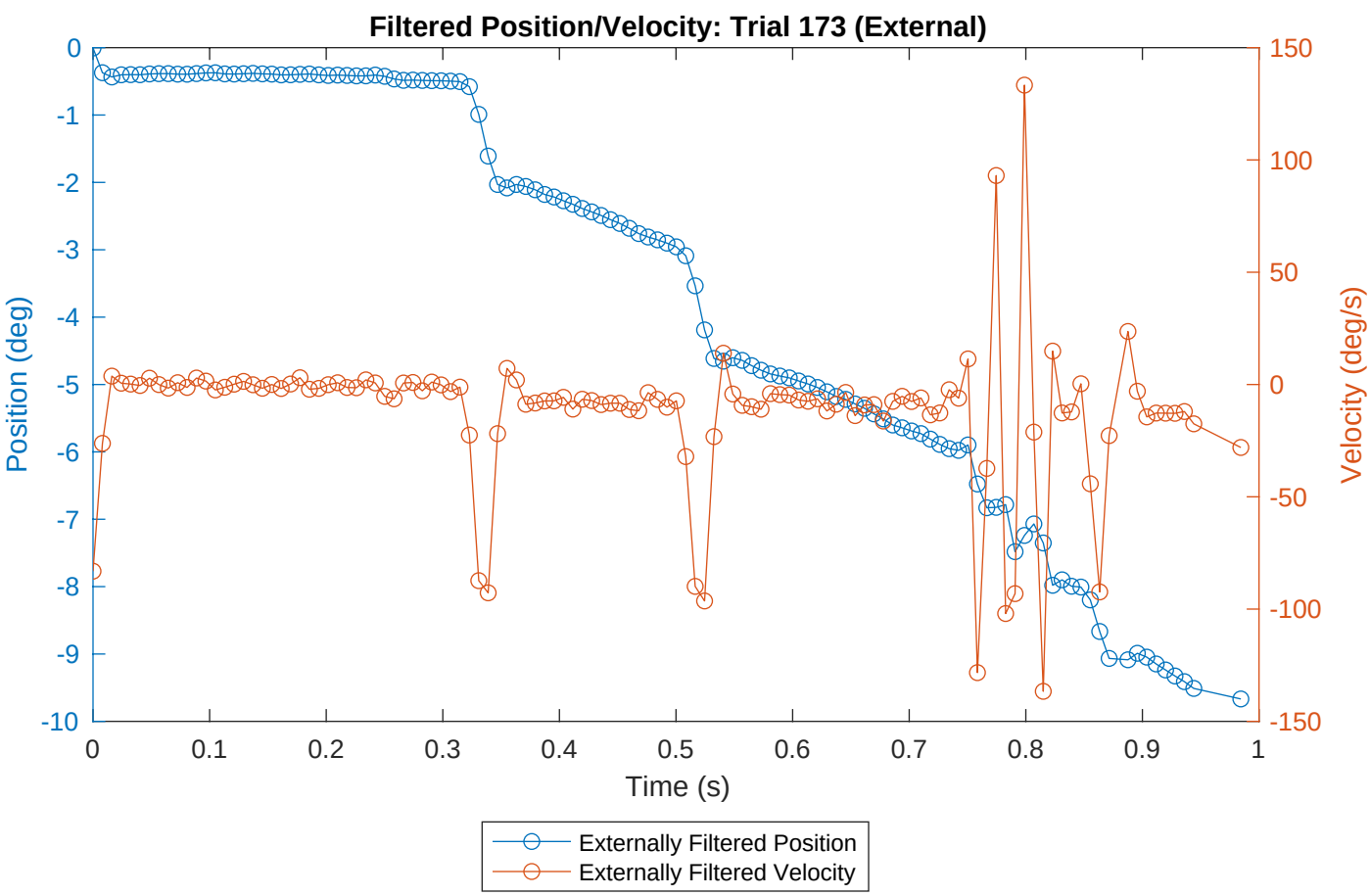

Position (deg)
Time (s)

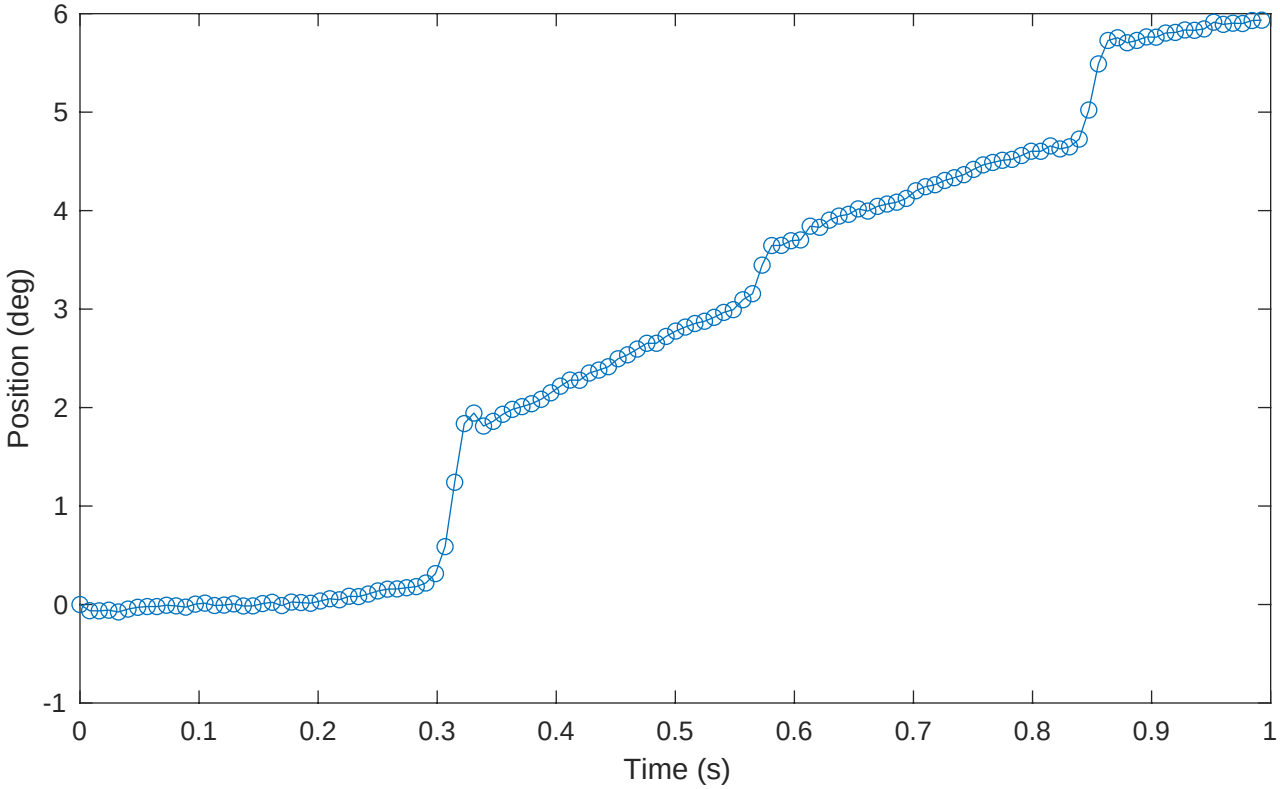

Filtered Position/Velocity: Trial 171 (External)
Position (deg)
Velocity (deg/s)
Time (s)
Externally Filtered Position
Externally Filtered Velocity

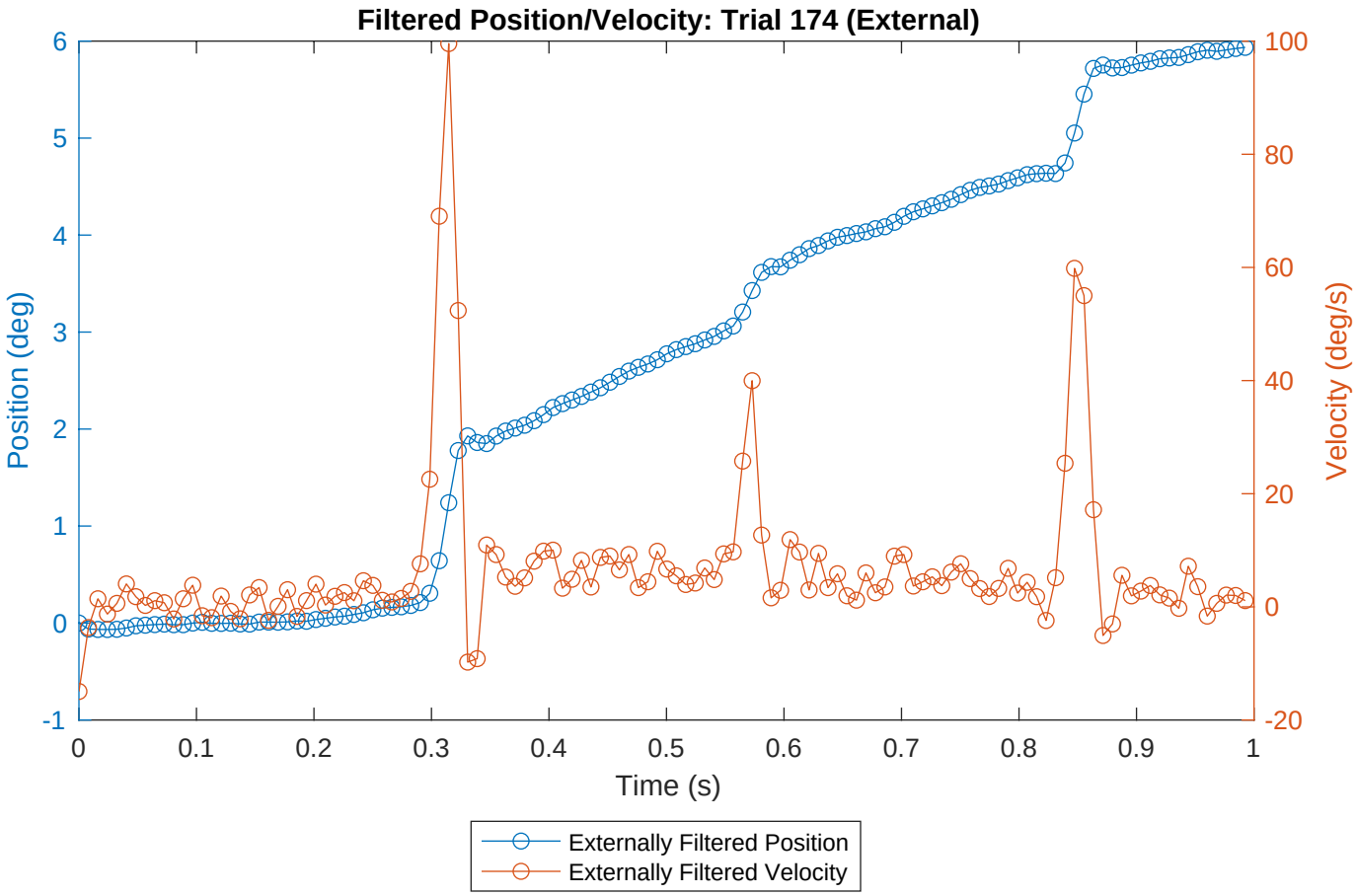

Position (deg)
Time (s)
0
-1
-2
-3
-4
-5
-6
-7
-8
-9
0
0.1
0.2
0.3
0.4
0.5
0.6
0.7
0.8

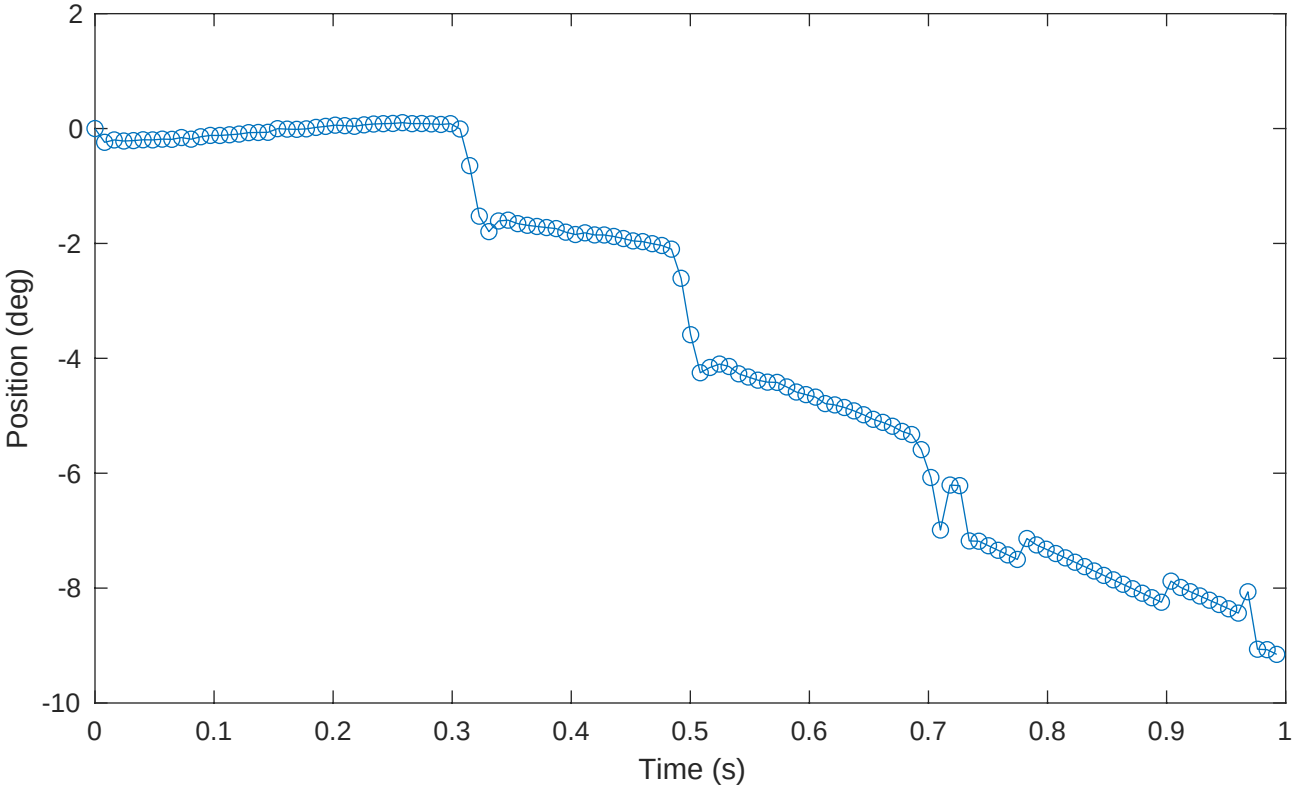

Filtered Position/Velocity: Trial 172 (External)
Position (deg)
Velocity (deg/s)
Time (s)
0
-1
-2
-3
-4
-5
-6
-7
-8
-9
50
0
-50
-100
-150
-200
0
0.1
0.2
0.3
0.4
0.5
0.6
0.7
0.8
Externally Filtered Position
Externally Filtered Velocity

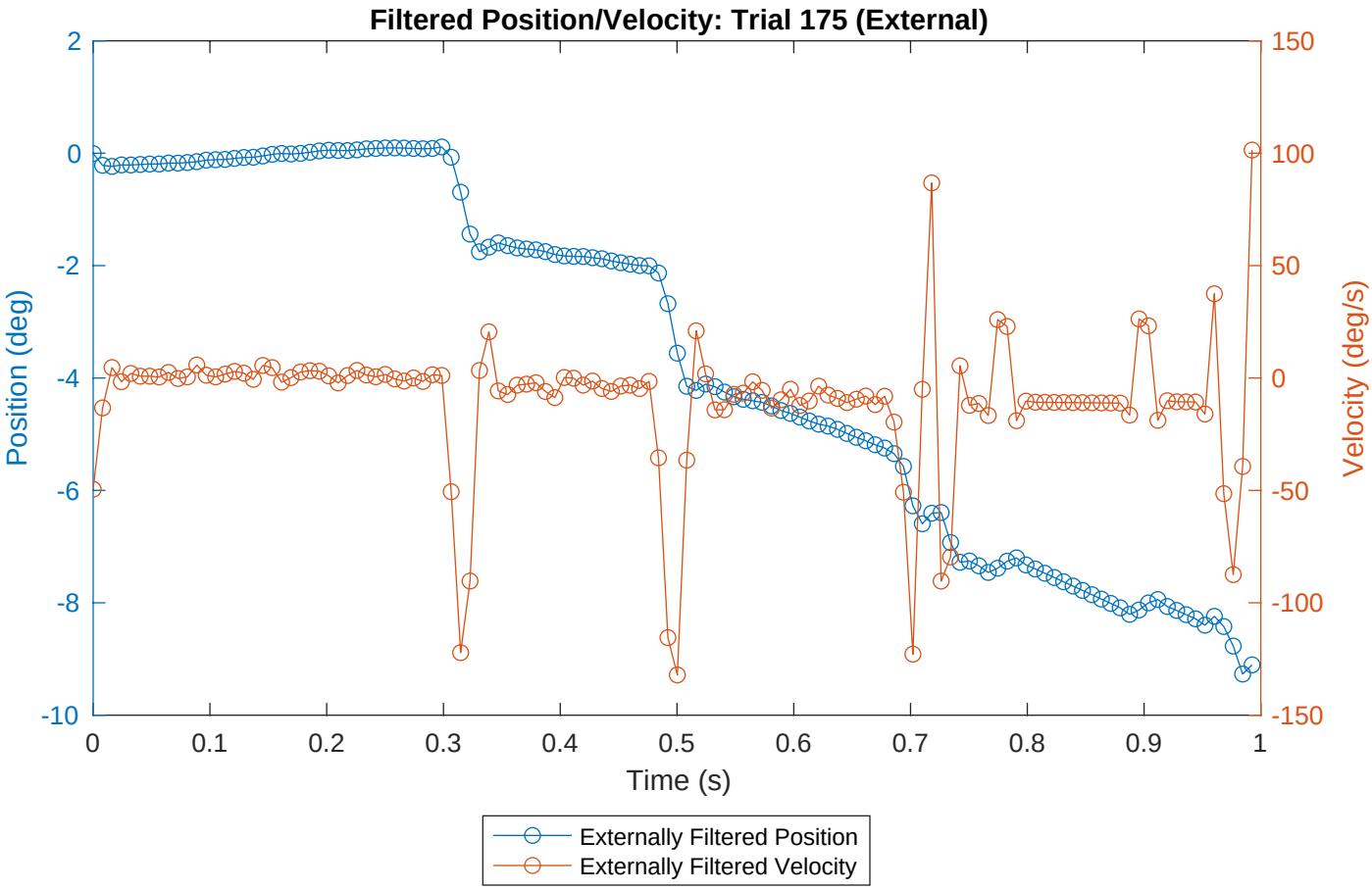

Position (deg)
Time (s)
0
-1
-2
-3
-4
-5
-6
-7
-8
-9
-10
0
0.1
0.2
0.3
0.4
0.5
0.6
0.7
0.8
0.9
1

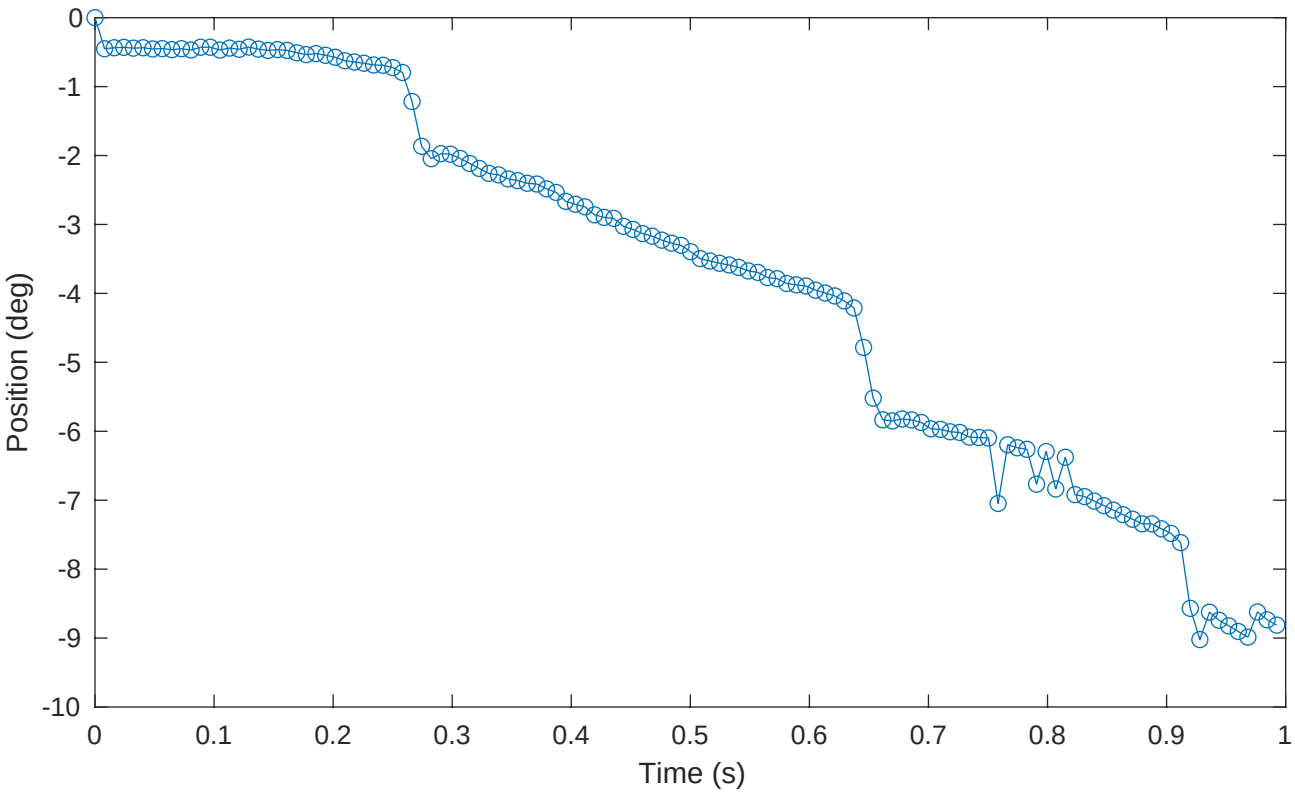

Filtered Position/Velocity: Trial 173 (External)
Position (deg)
Velocity (deg/s)
Time (s)
0
-1
-2
-3
-4
-5
-6
-7
-8
-9
-10
150
100
50
0
-50
-100
-150
0
0.1
0.2
0.3
0.4
0.5
0.6
0.7
0.8
0.9
1
Externally Filtered Position
Externally Filtered Velocity

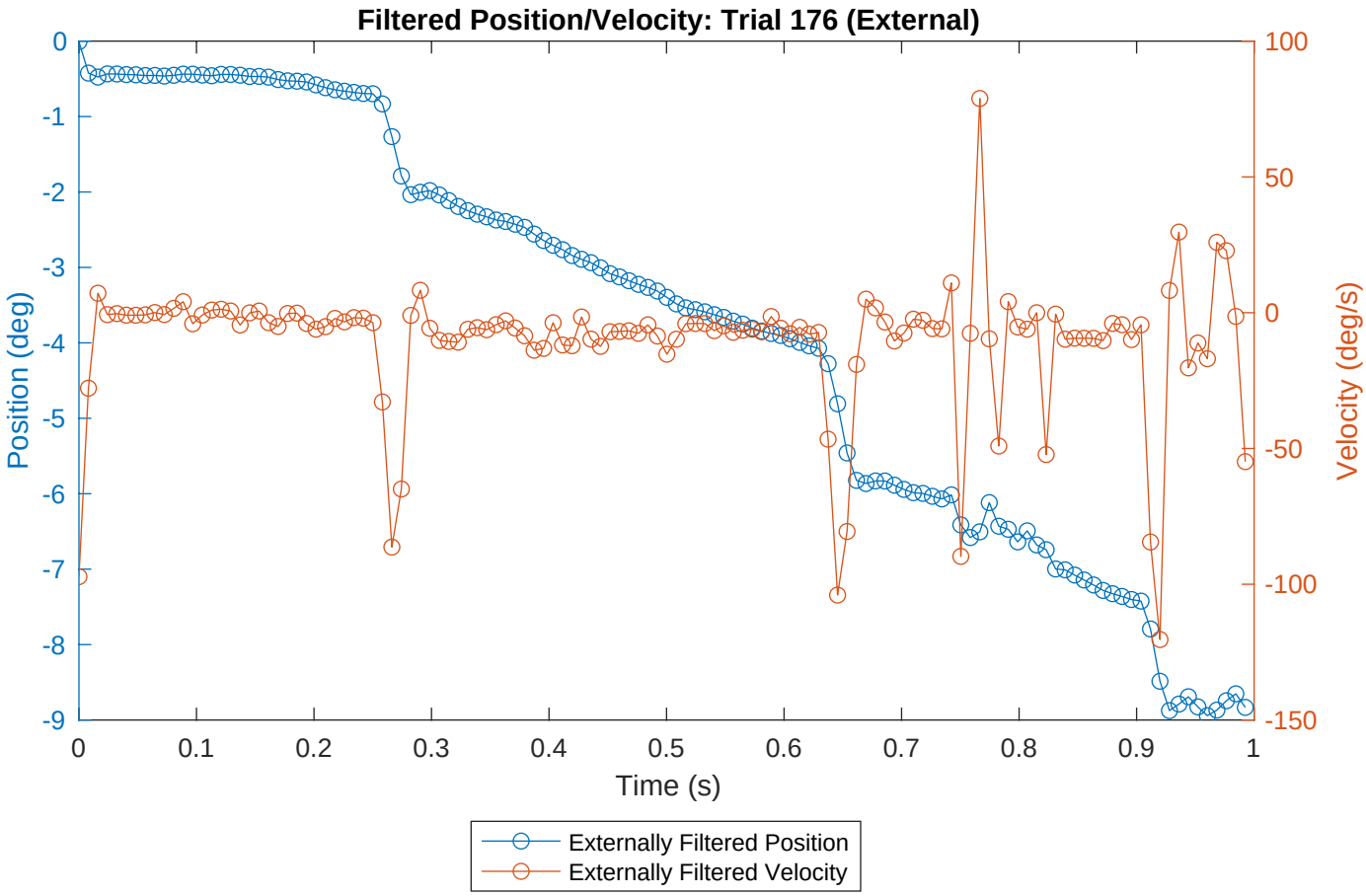

Position (deg)
Time (s)

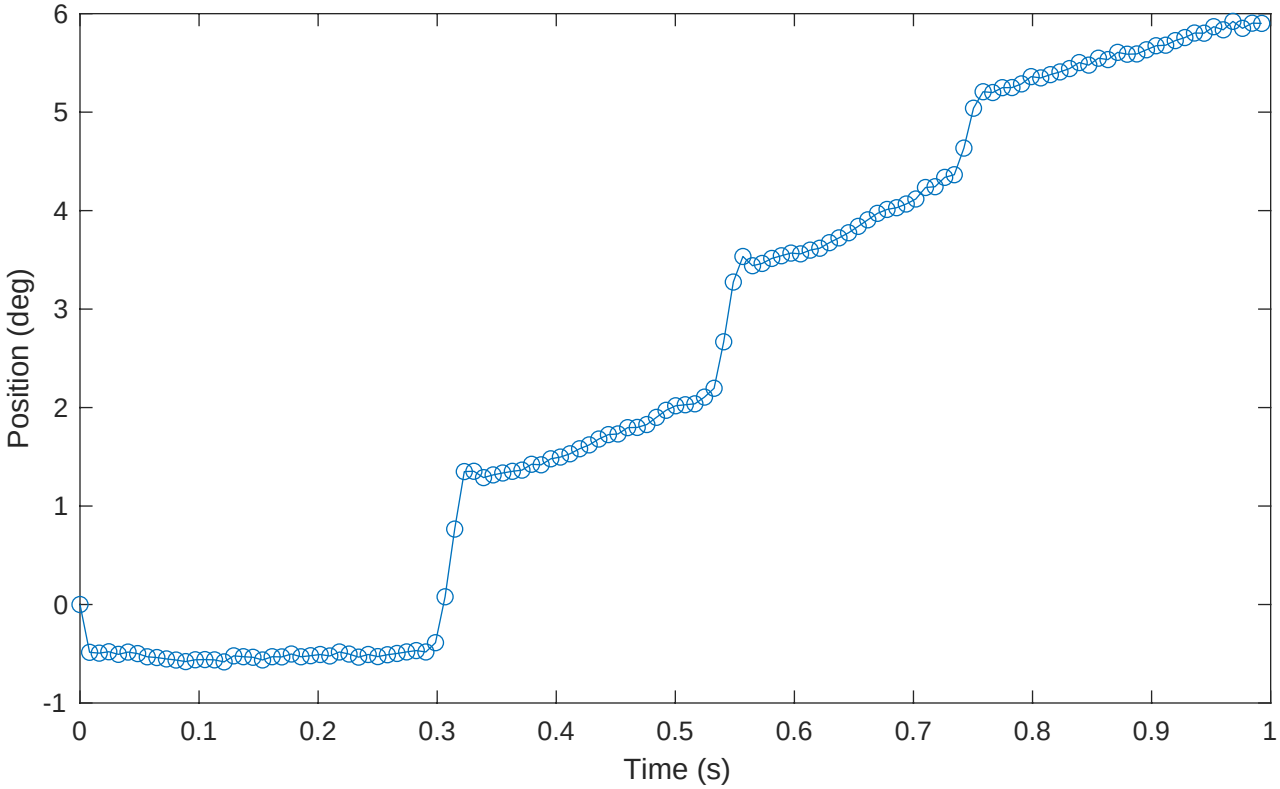

Filtered Position/Velocity: Trial 174 (External)
Position (deg)
Velocity (deg/s)
Time (s)
Externally Filtered Position
Externally Filtered Velocity

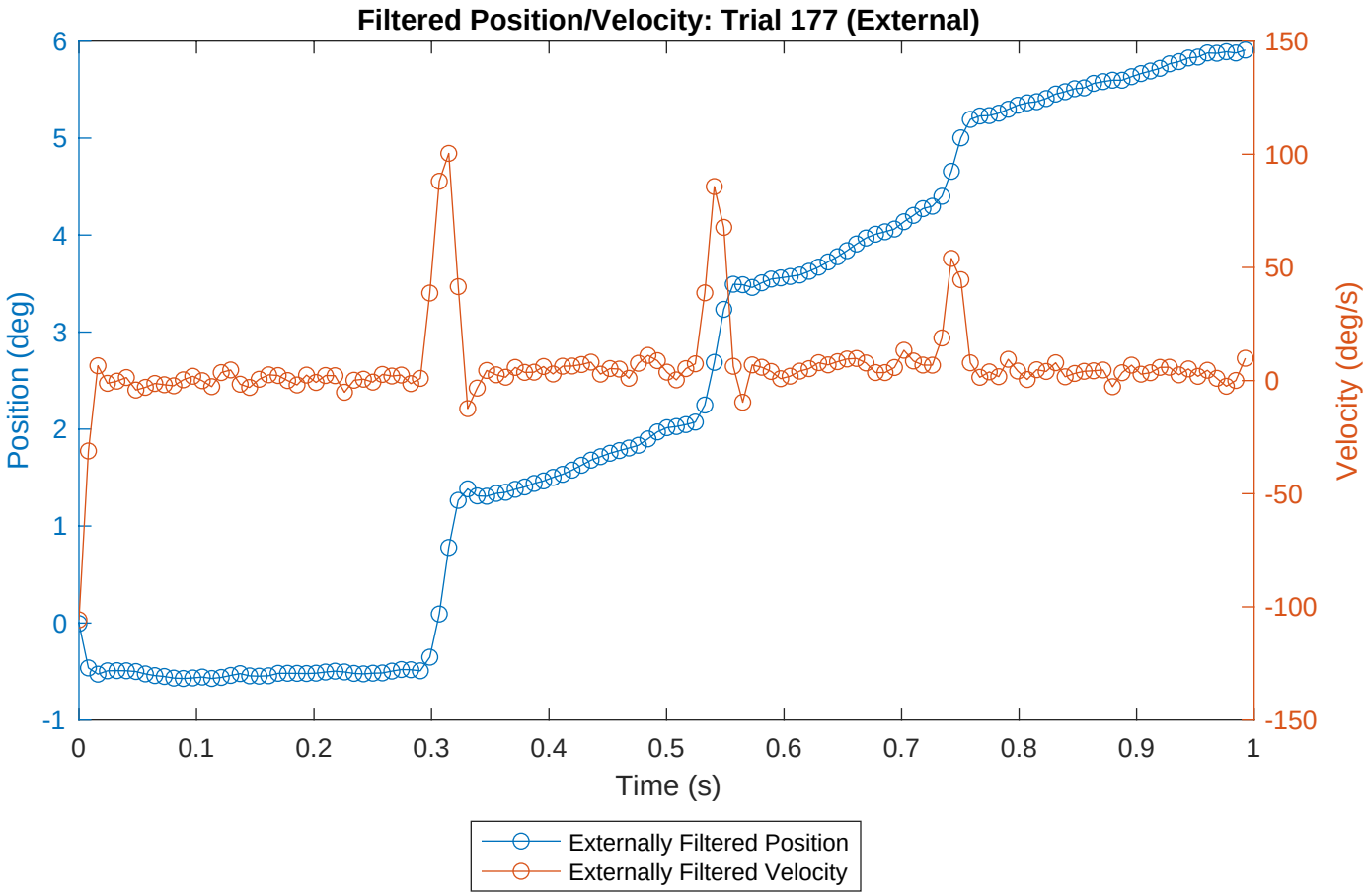

Position (deg)
Time (s)
2
0
-2
-4
-6
-8
-10
0
0.1
0.2
0.3
0.4
0.5
0.6
0.7
0.8
0.9
1

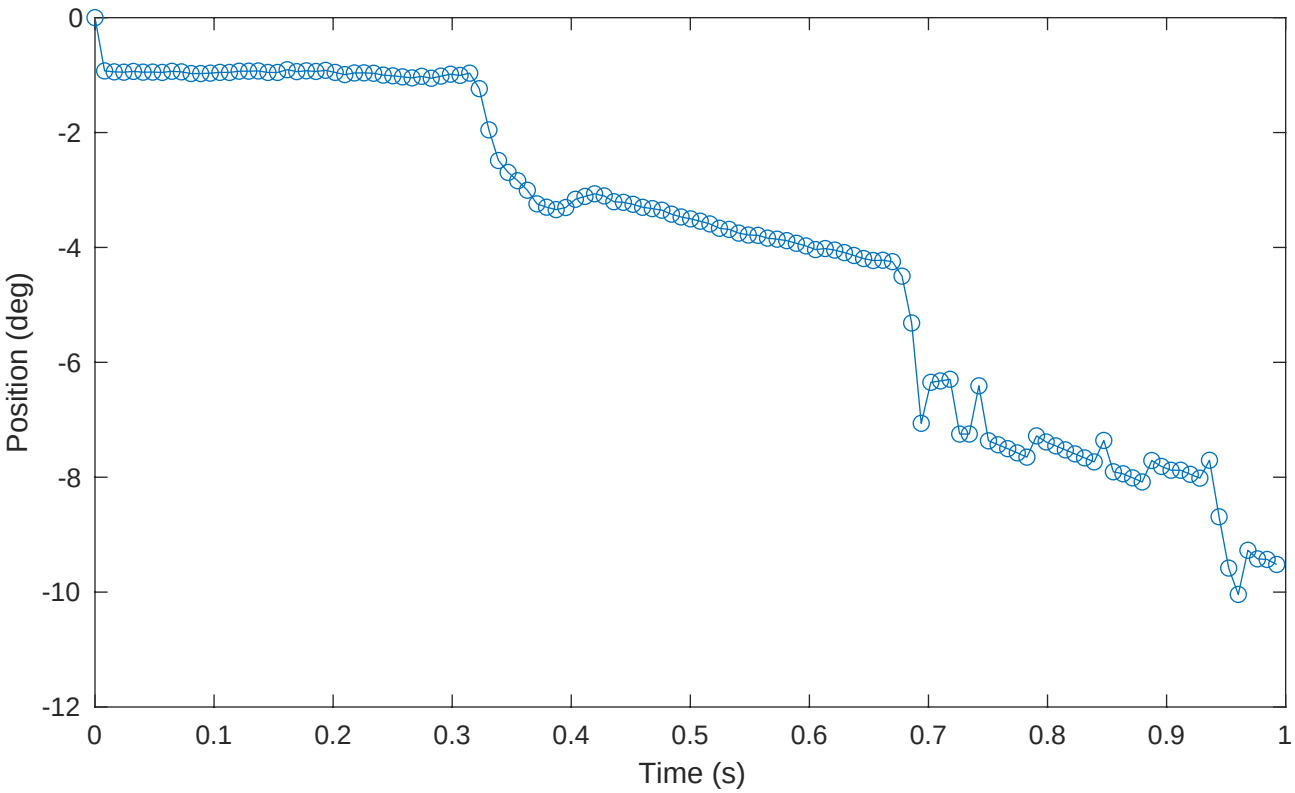

Filtered Position/Velocity: Trial 175 (External)
Position (deg)
Velocity (deg/s)
Time (s)
2
0
-2
-4
-6
-8
-10
150
100
50
0
-50
-100
-150
0
0.1
0.2
0.3
0.4
0.5
0.6
0.7
0.8
0.9
1
Externally Filtered Position
Externally Filtered Velocity

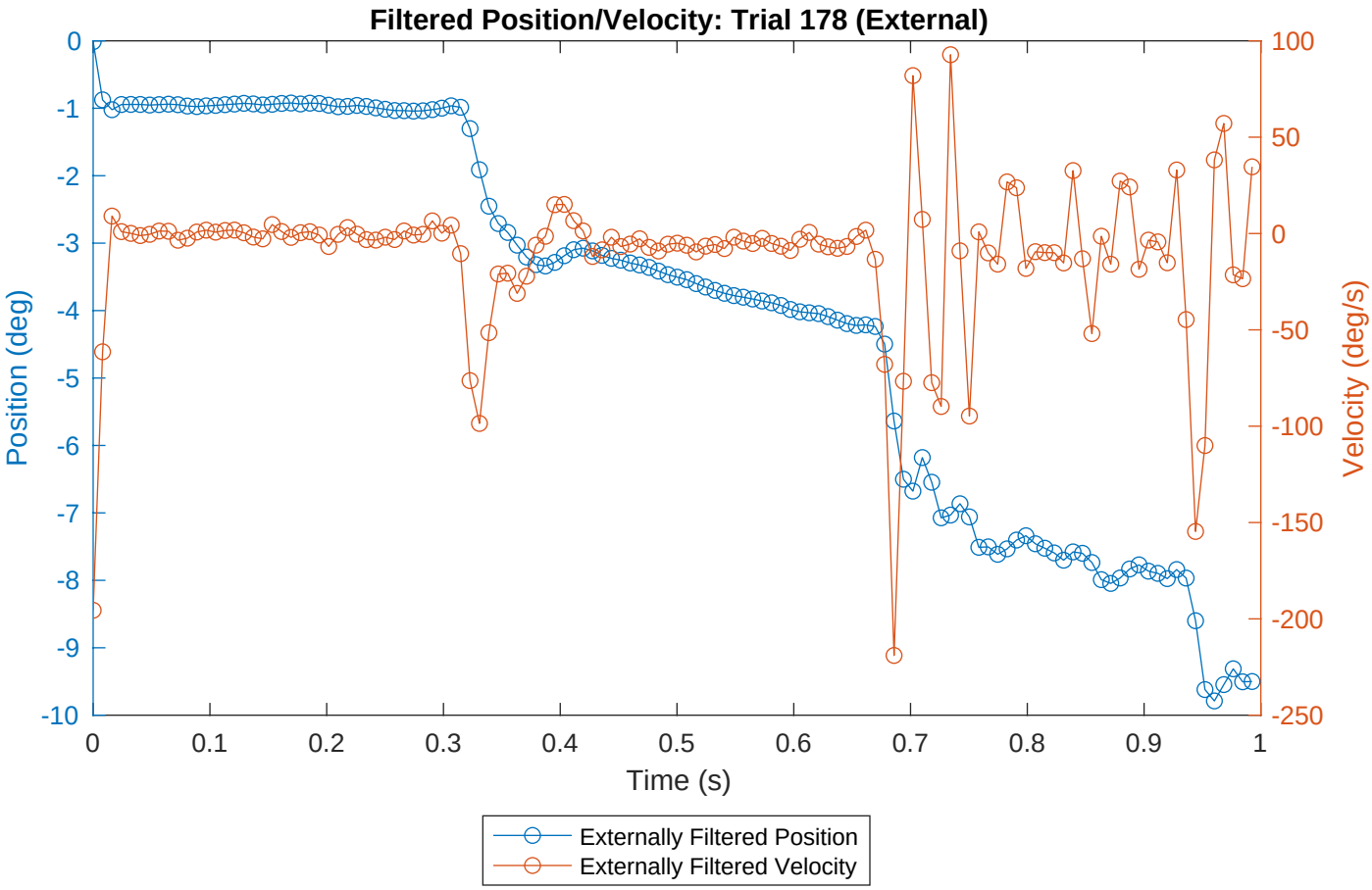

Position (deg)
Time (s)

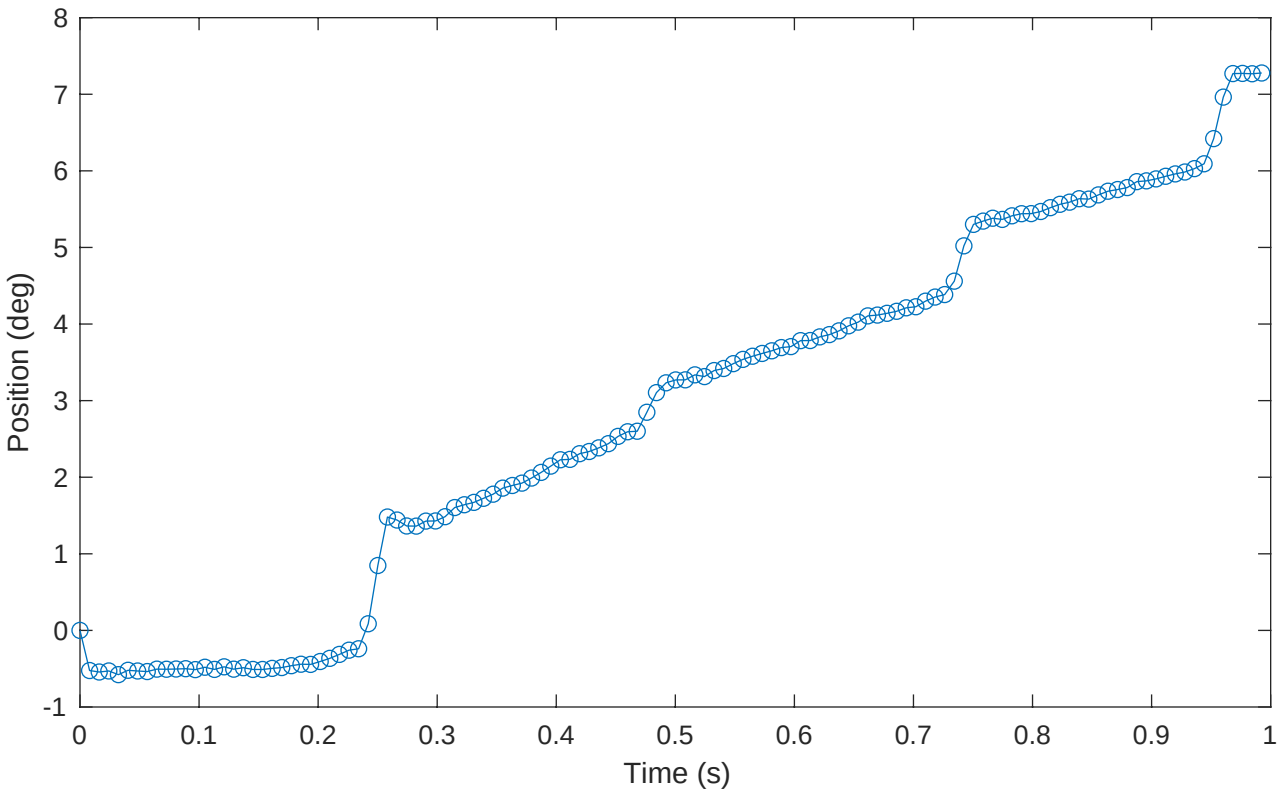

Filtered Position/Velocity: Trial 176 (External)
Position (deg)
Velocity (deg/s)
Time (s)
Externally Filtered Position
Externally Filtered Velocity

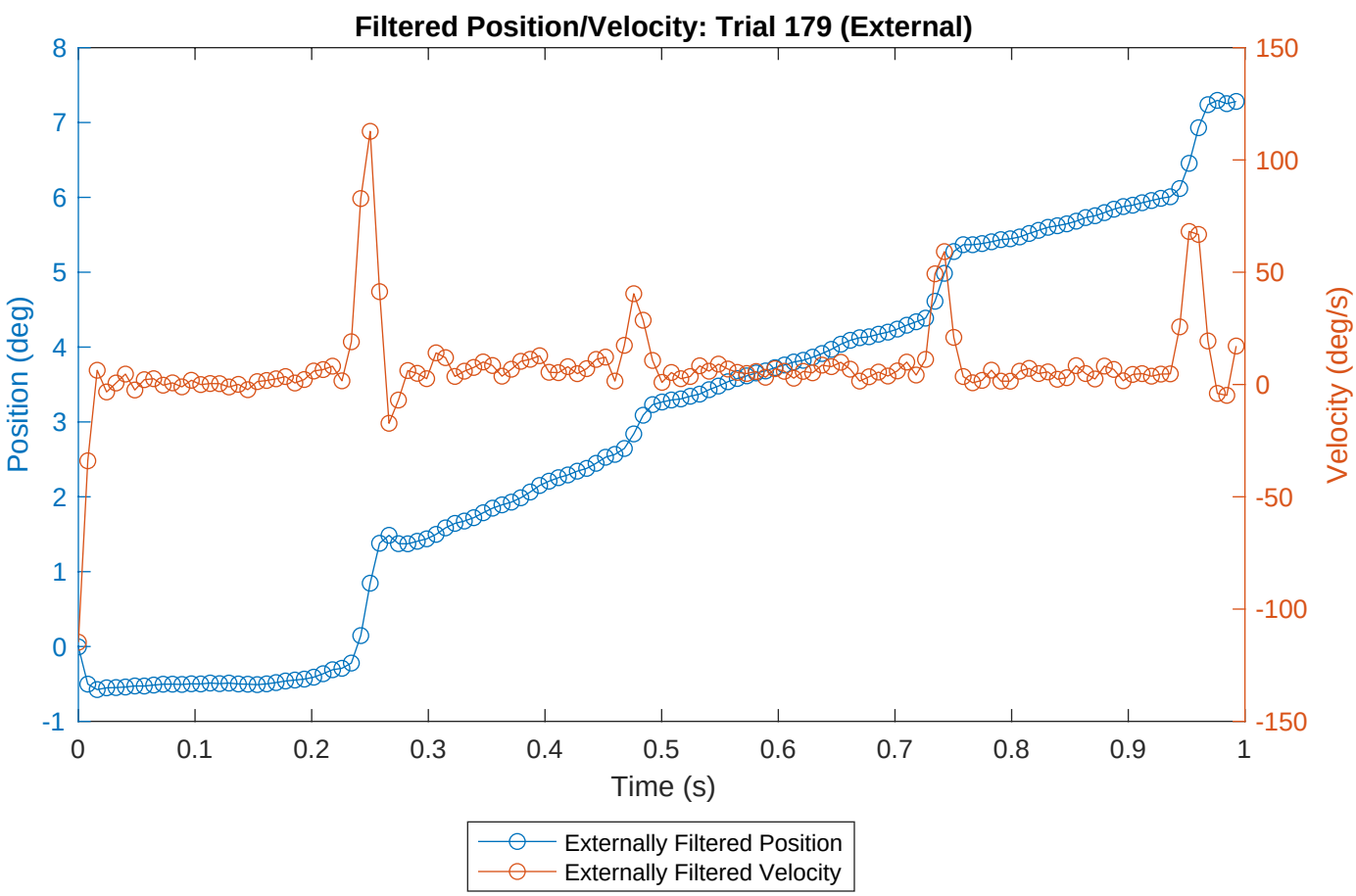

Position (deg)
Time (s)

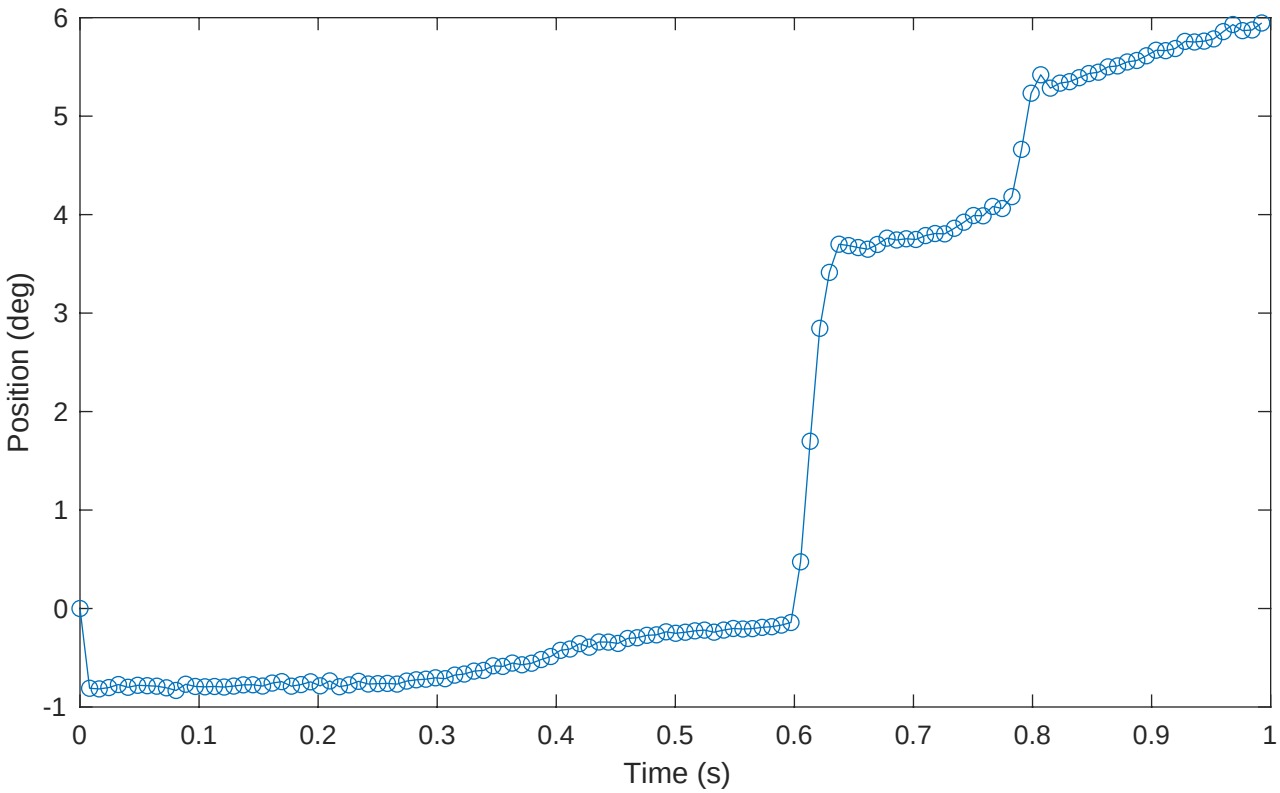

Filtered Position/Velocity: Trial 177 (External)
Position (deg)
Velocity (deg/s)
Time (s)
Externally Filtered Position
Externally Filtered Velocity

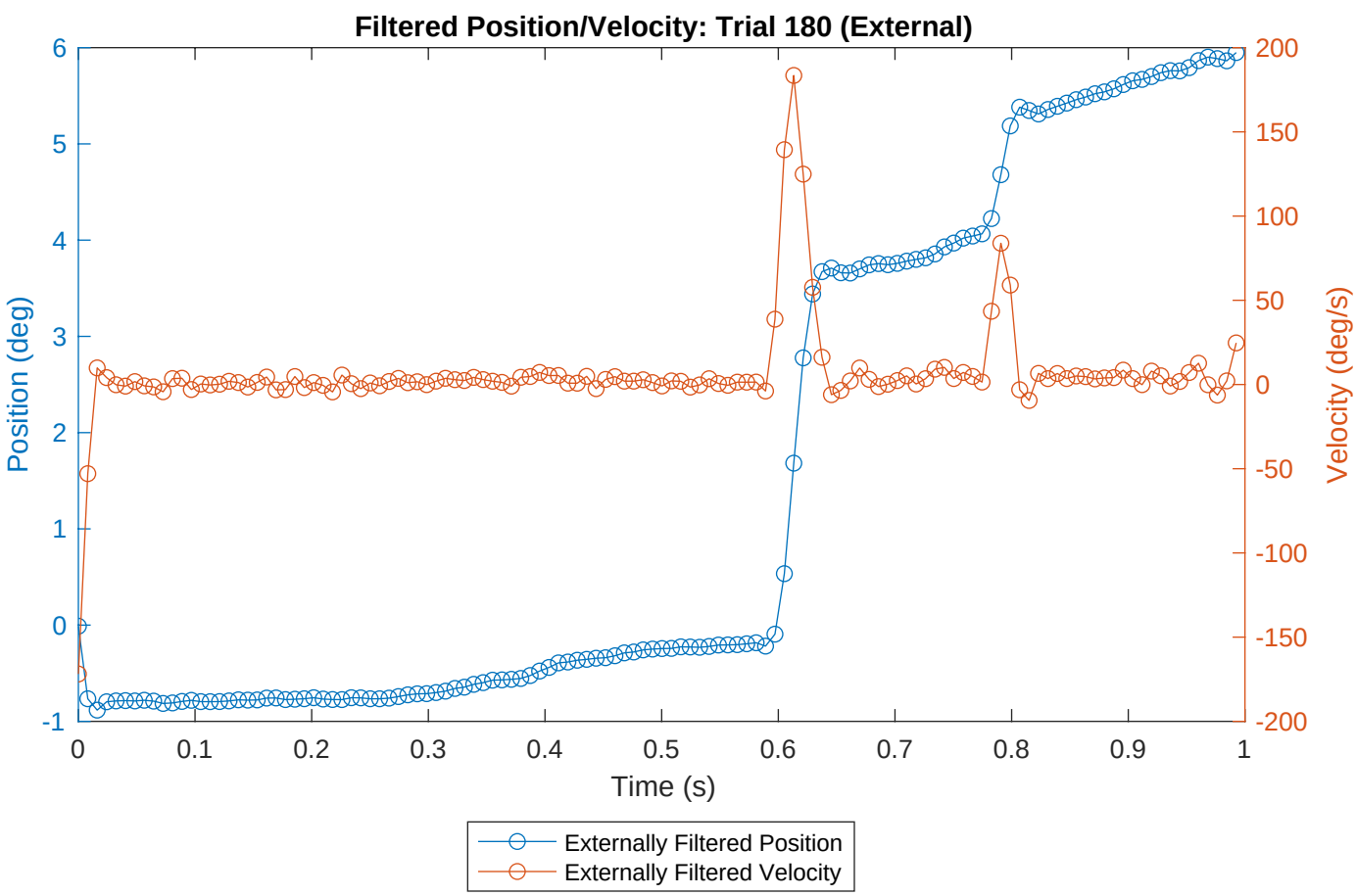

Position (deg)
Time (s)

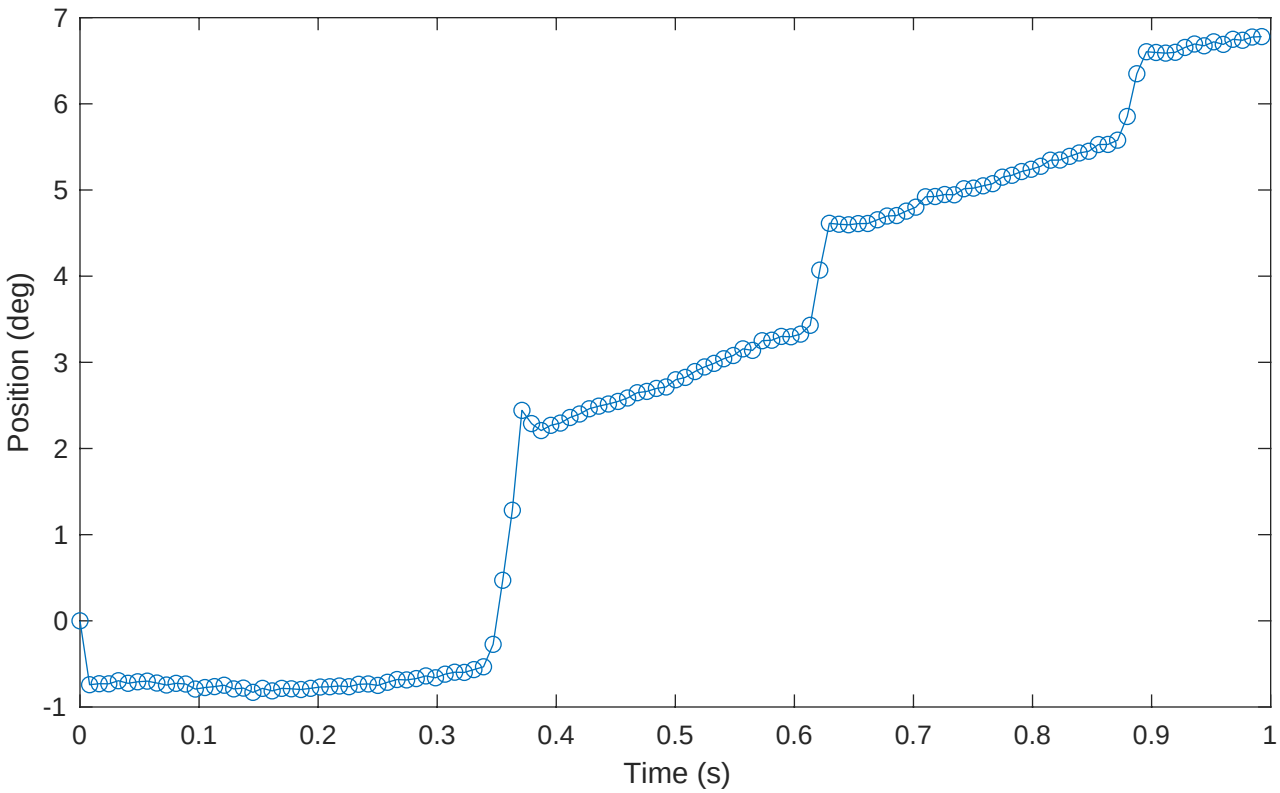

Filtered Position/Velocity: Trial 178 (External)
Position (deg)
Velocity (deg/s)
Time (s)
Externally Filtered Position
Externally Filtered Velocity

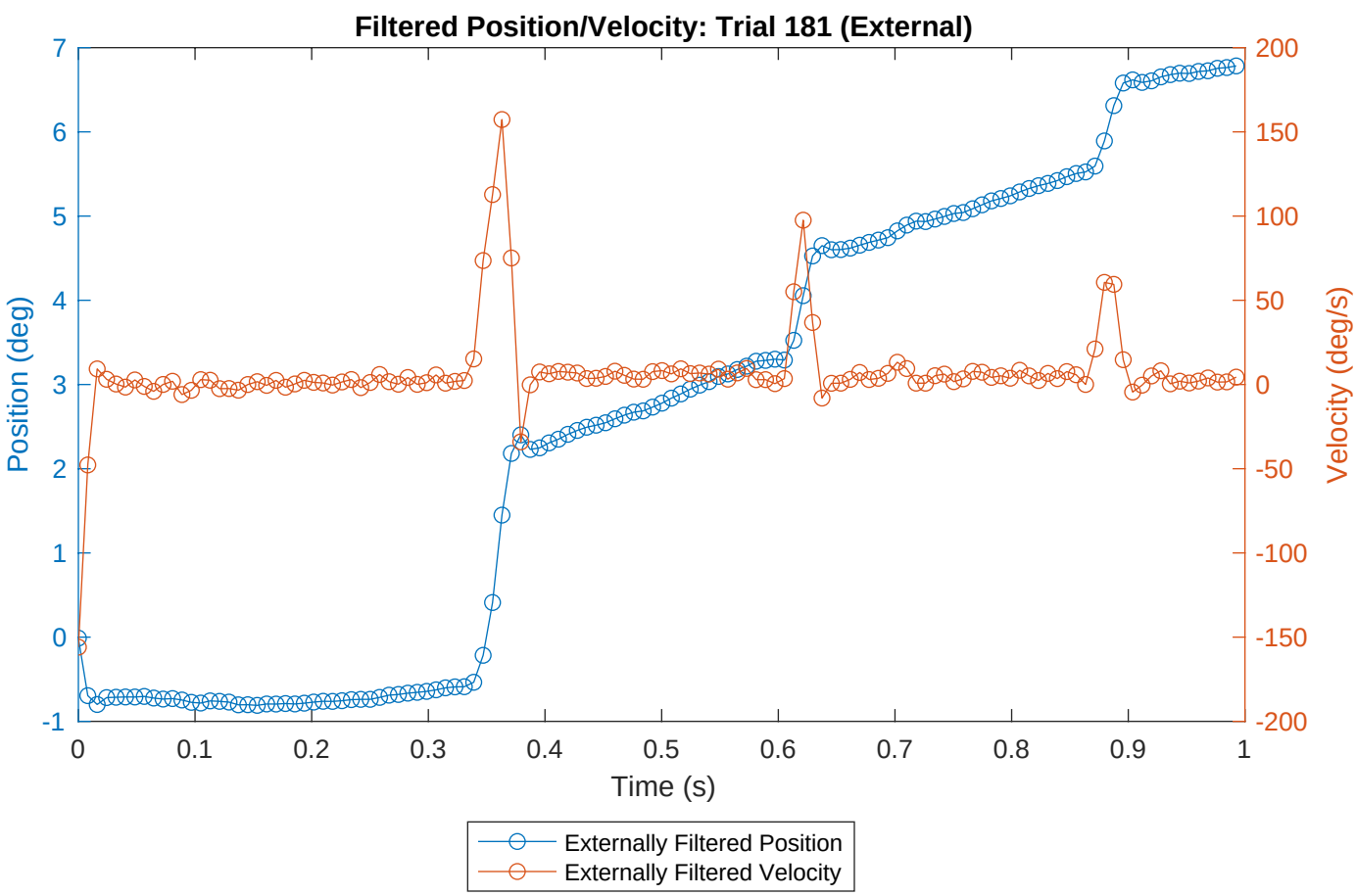

Position (deg)
Time (s)

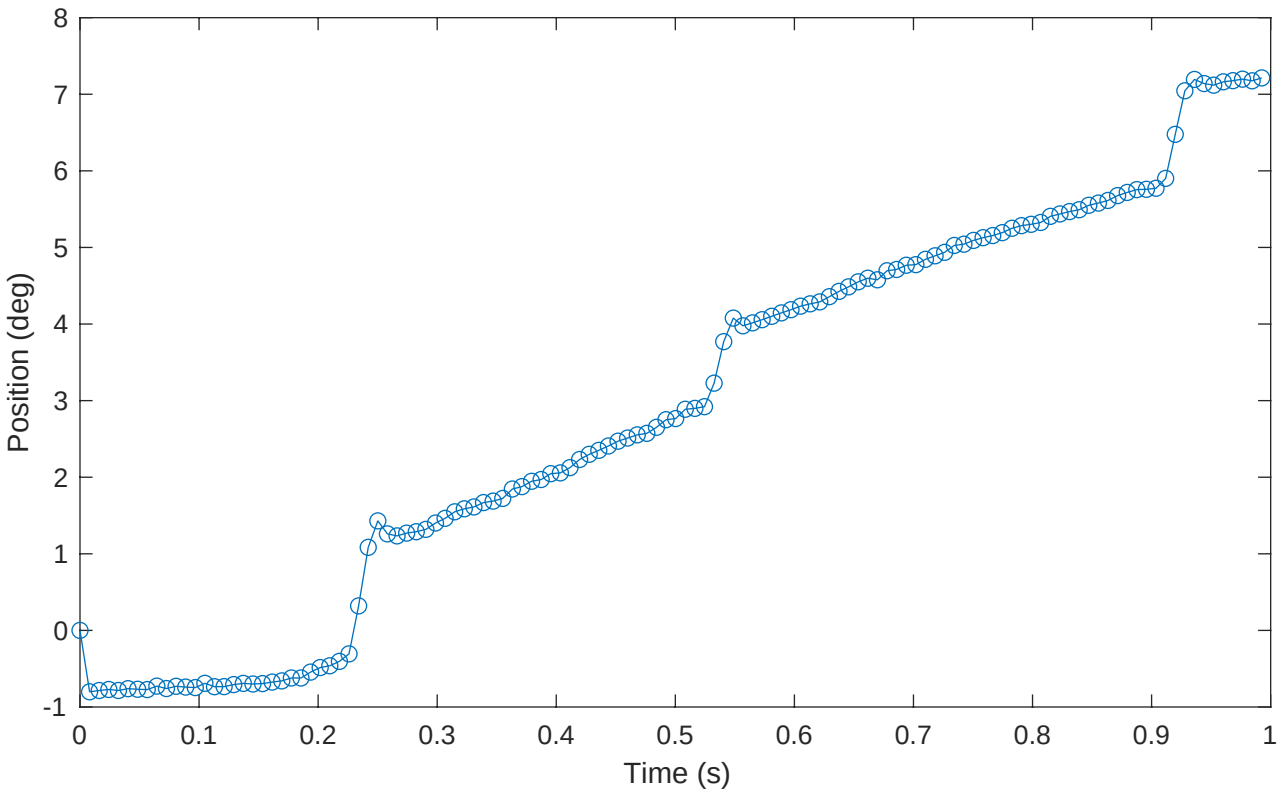

Filtered Position/Velocity: Trial 179 (External)
Position (deg)
Velocity (deg/s)
Time (s)
Externally Filtered Position
Externally Filtered Velocity

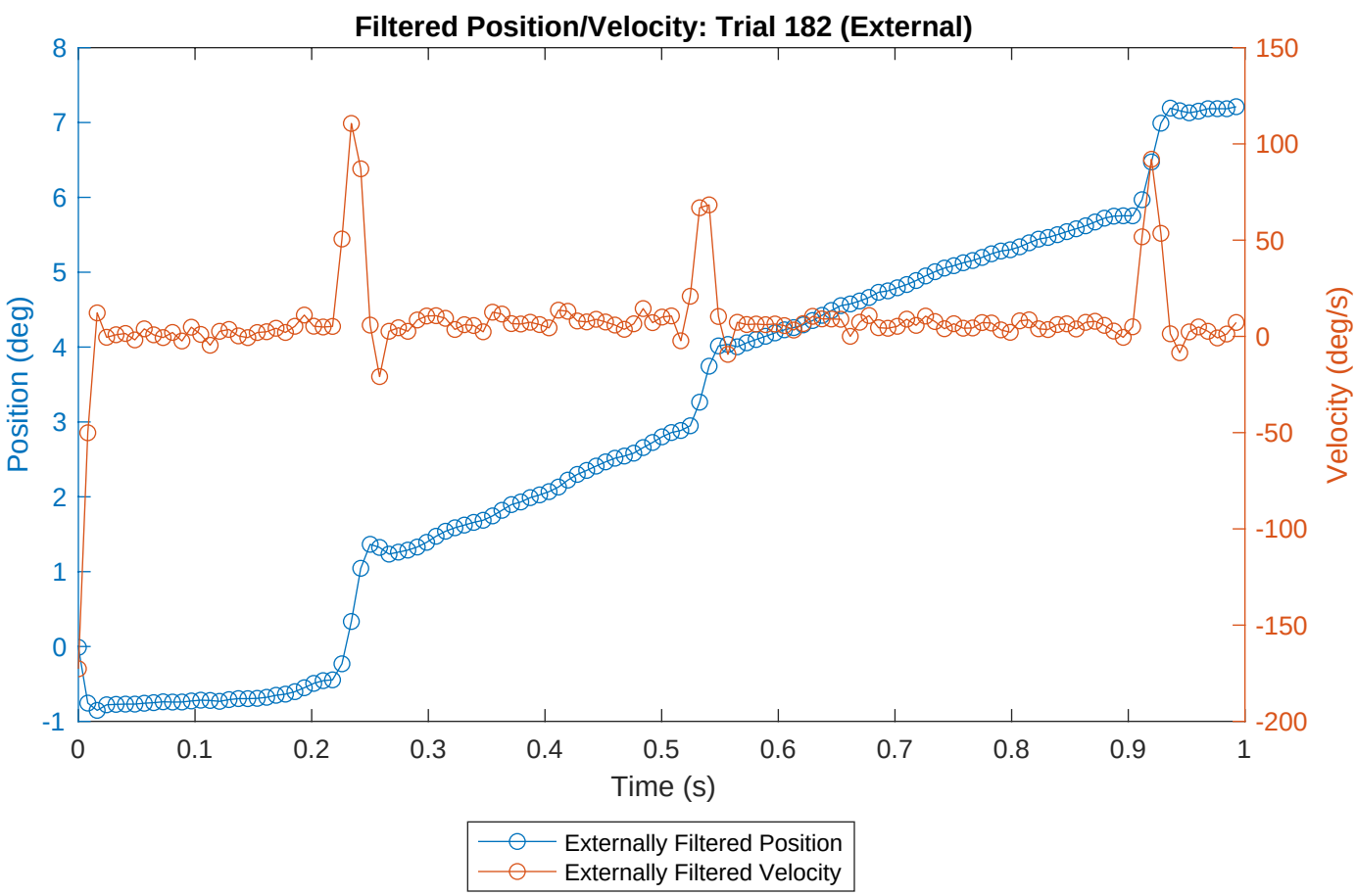

Position (deg)
Time (s)

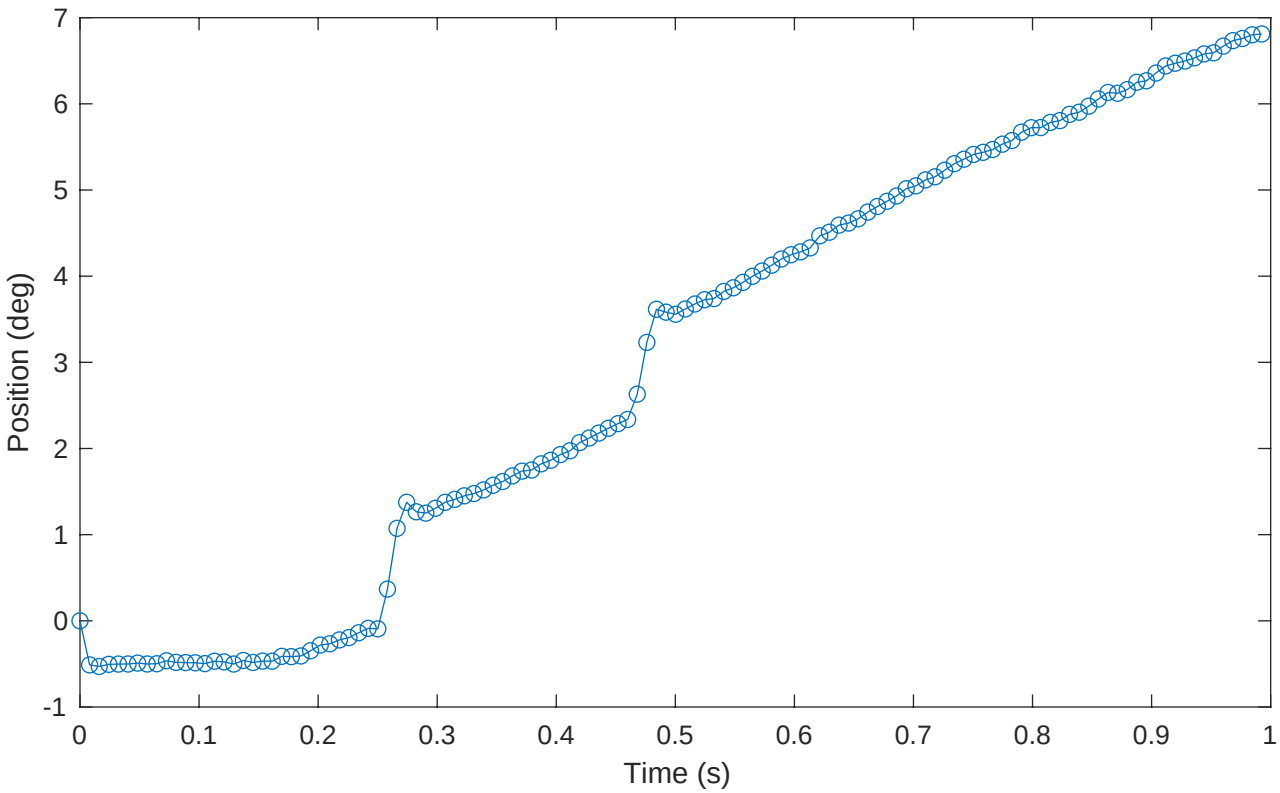

Filtered Position/Velocity: Trial 180 (External)
Position (deg)
Velocity (deg/s)
Time (s)
Externally Filtered Position
Externally Filtered Velocity

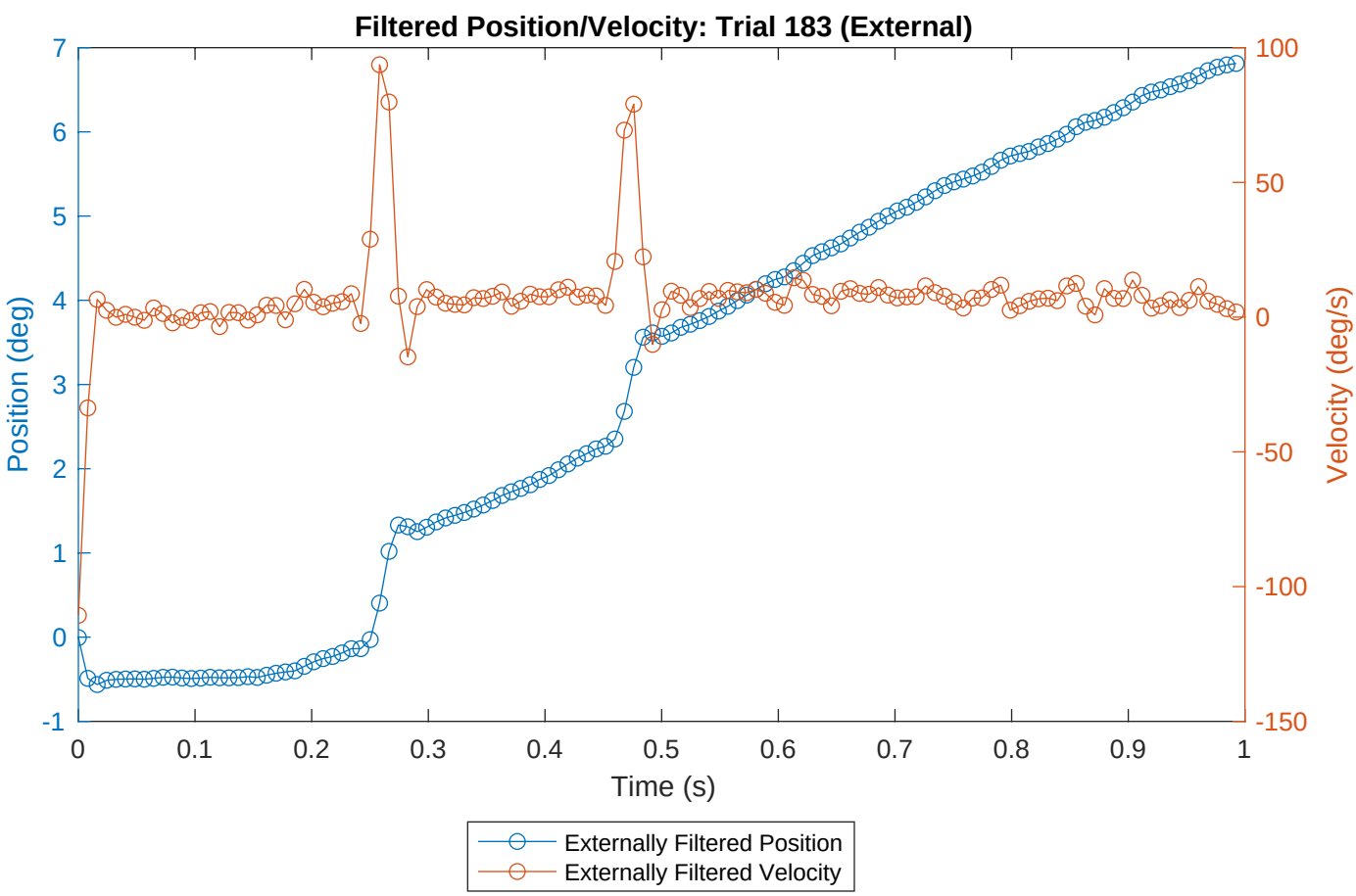

Position (deg)
Time (s)

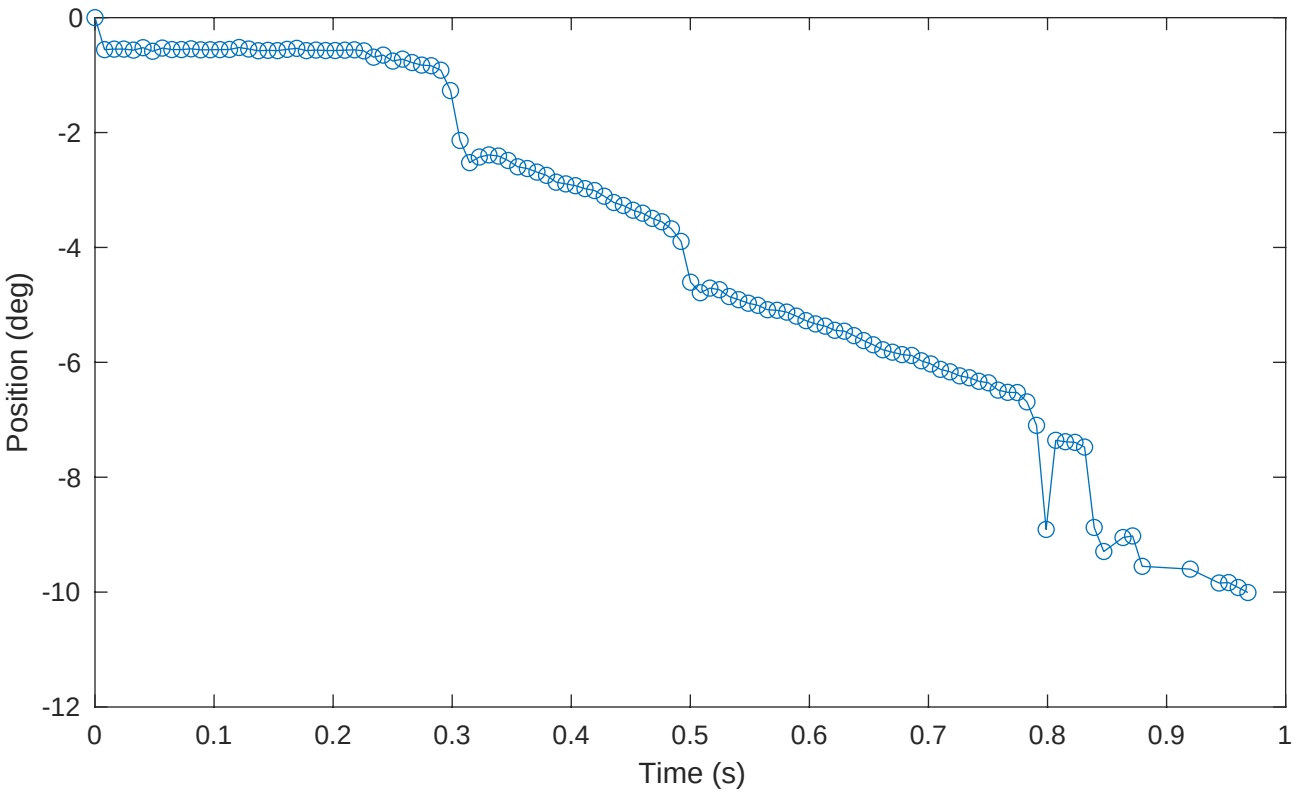

Filtered Position/Velocity: Trial 181 (External)
Position (deg)
Velocity (deg/s)
Time (s)
Externally Filtered Position
Externally Filtered Velocity

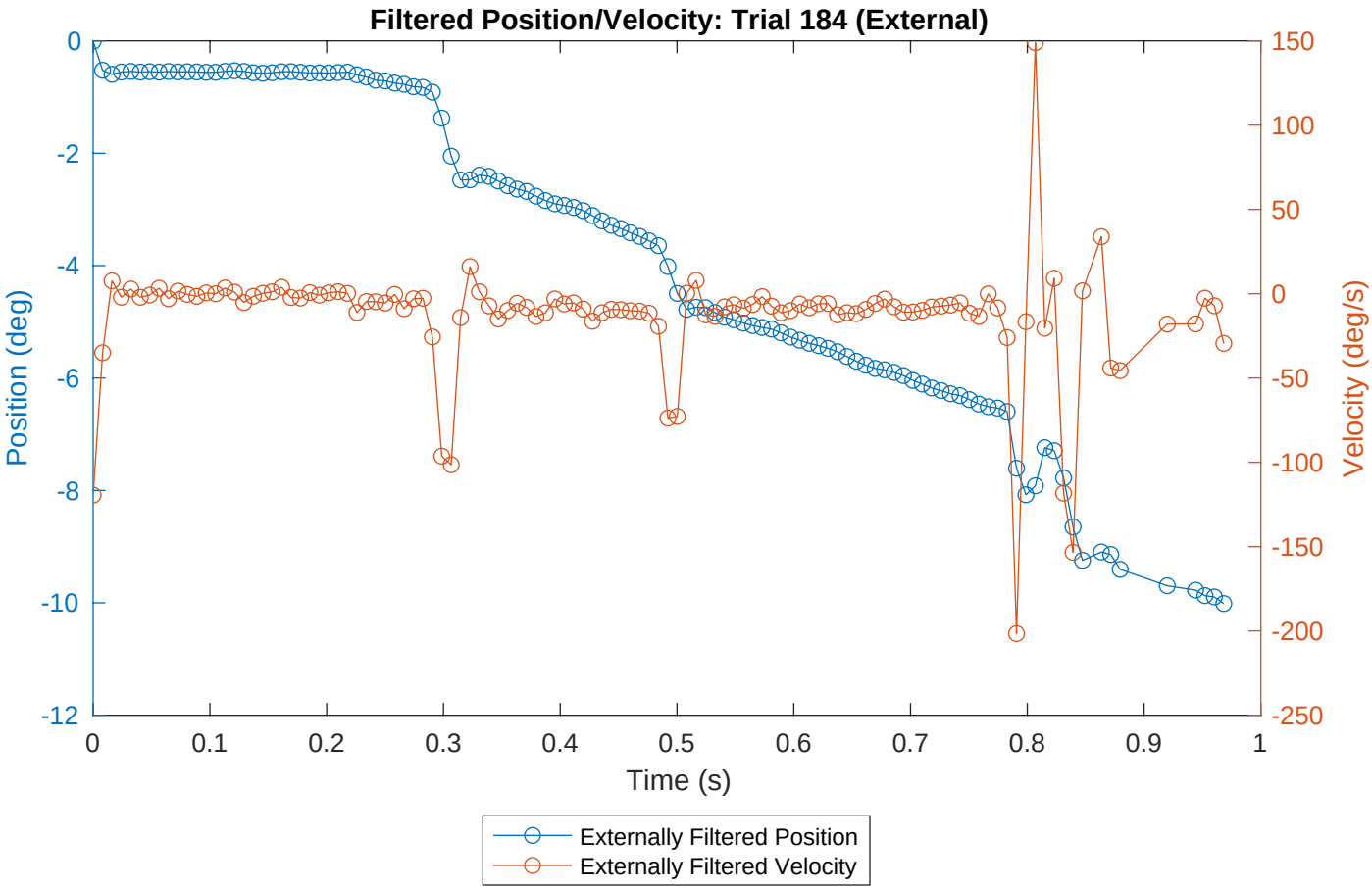

Position (deg)
Time (s)

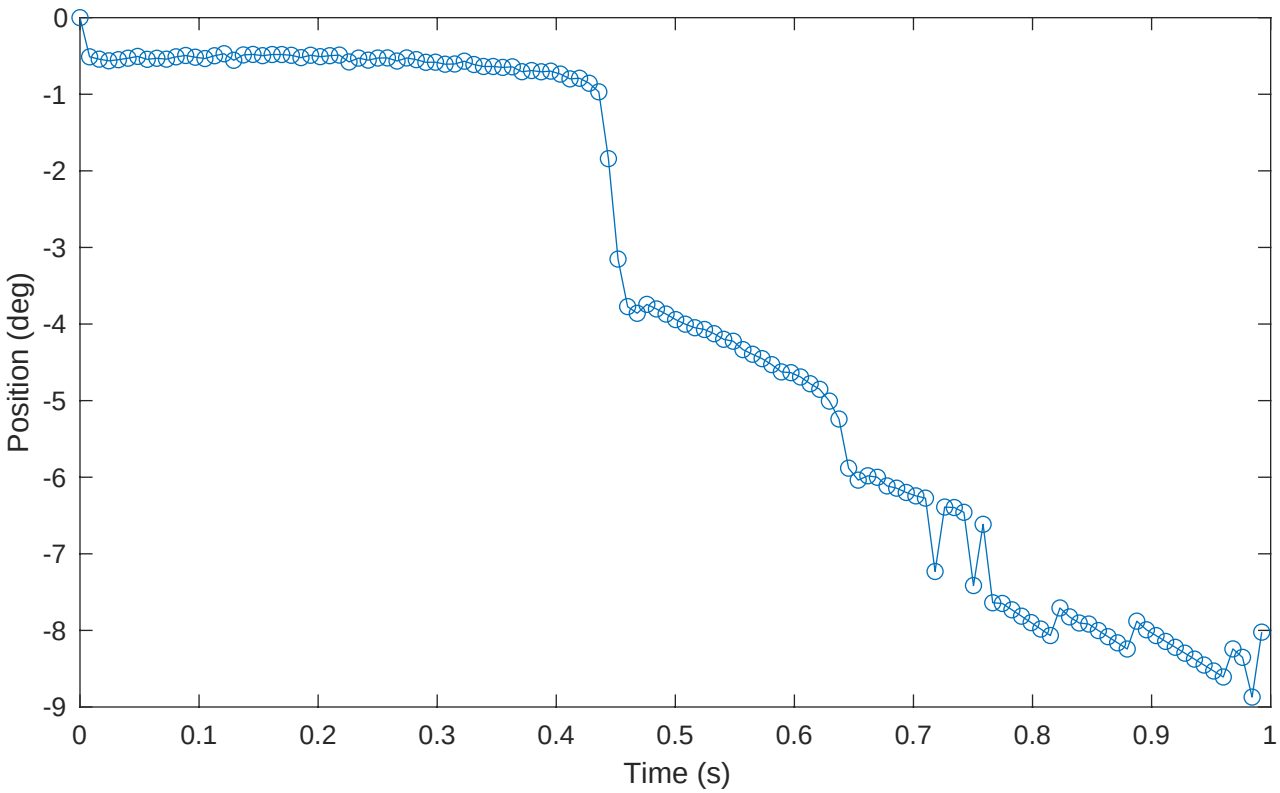

Filtered Position/Velocity: Trial 182 (External)
Position (deg)
Velocity (deg/s)
Time (s)
Externally Filtered Position
Externally Filtered Velocity

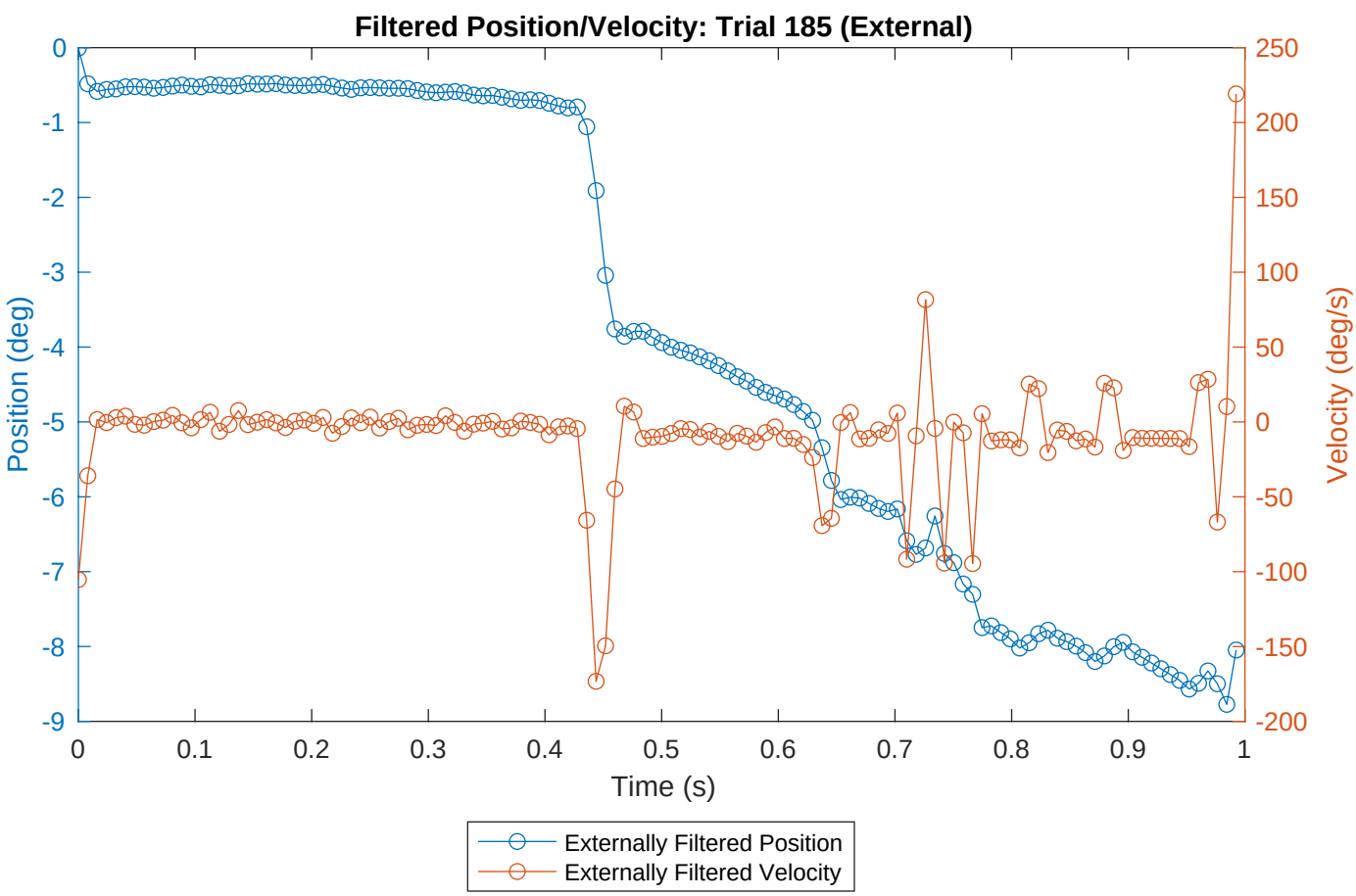

Position (deg)
Time (s)

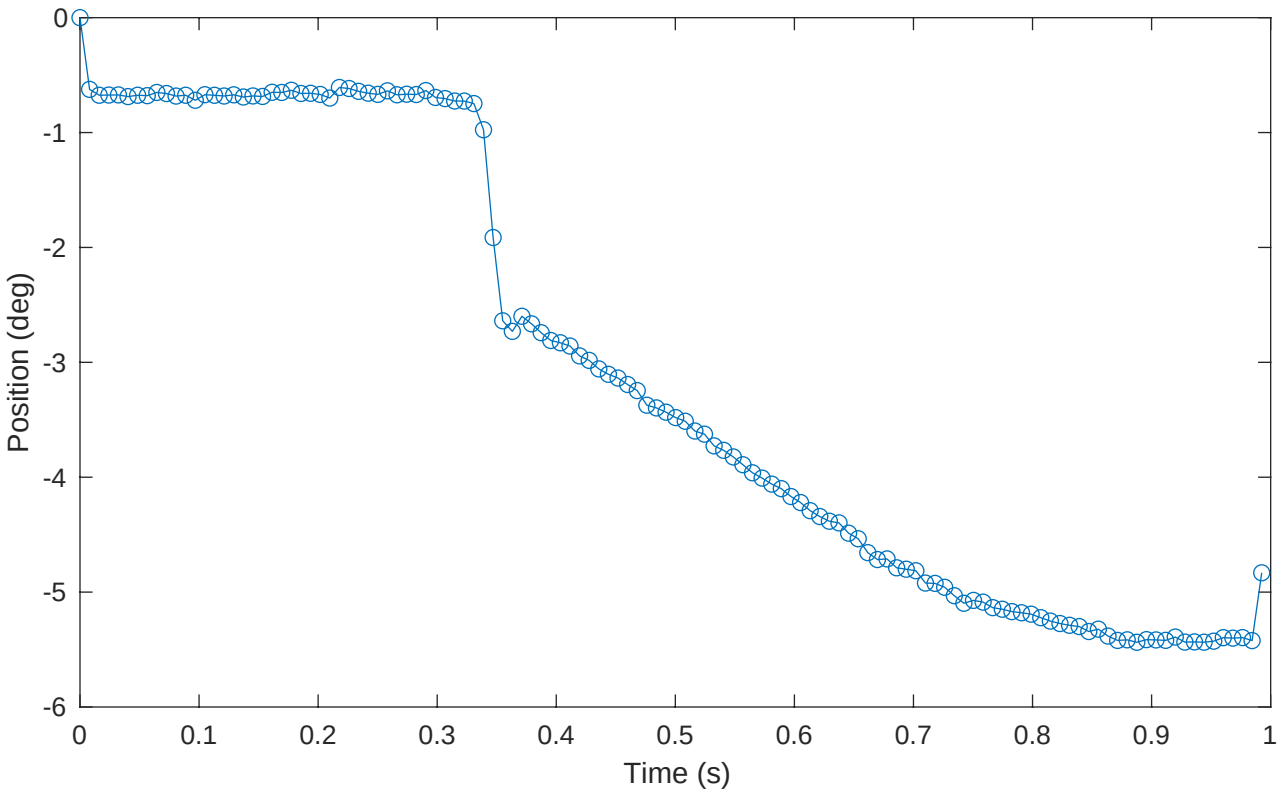

Filtered Position/Velocity: Trial 183 (External)
Position (deg)
Velocity (deg/s)
Time (s)
Externally Filtered Position
Externally Filtered Velocity

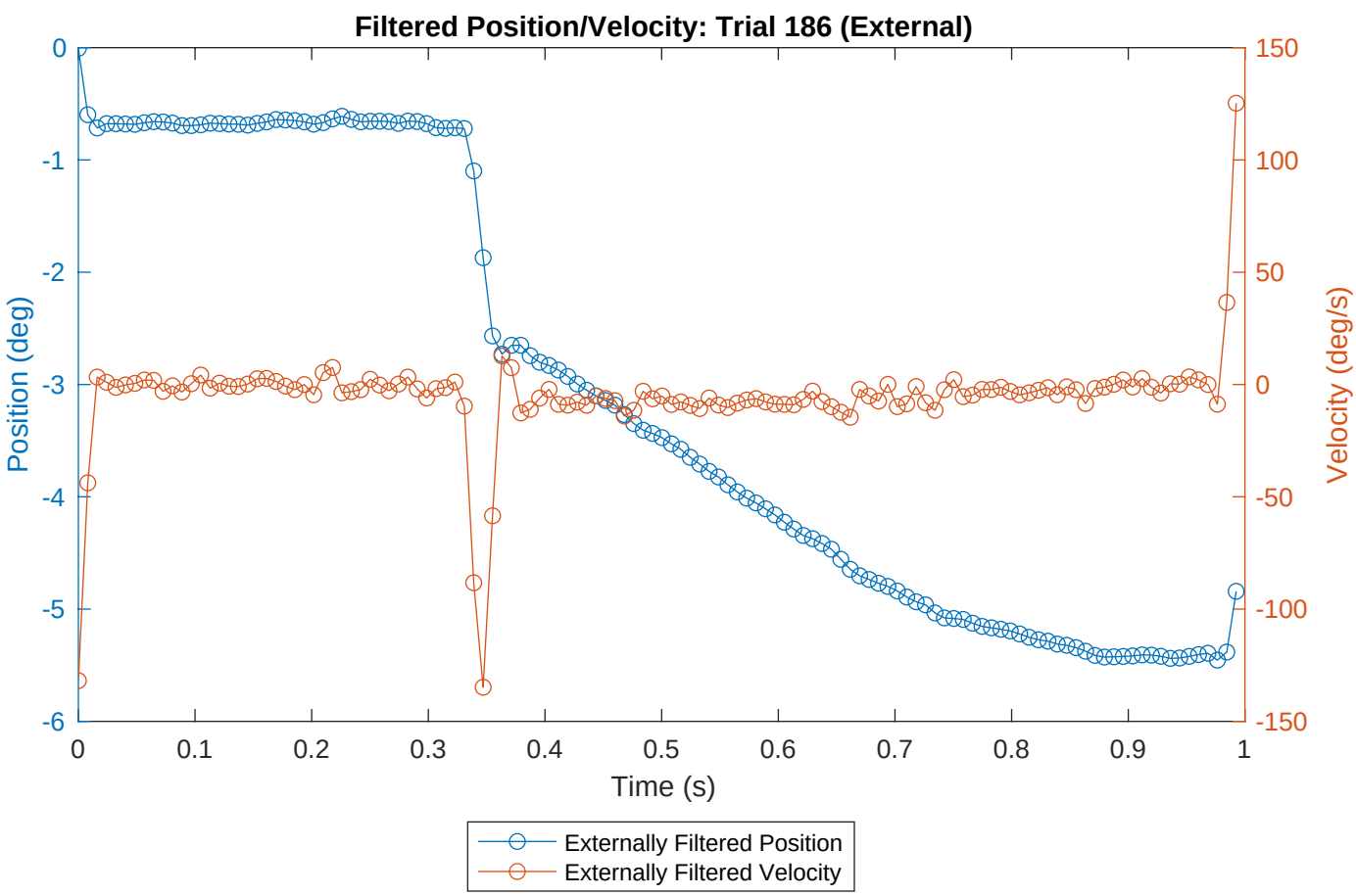

Position (deg)
Time (s)

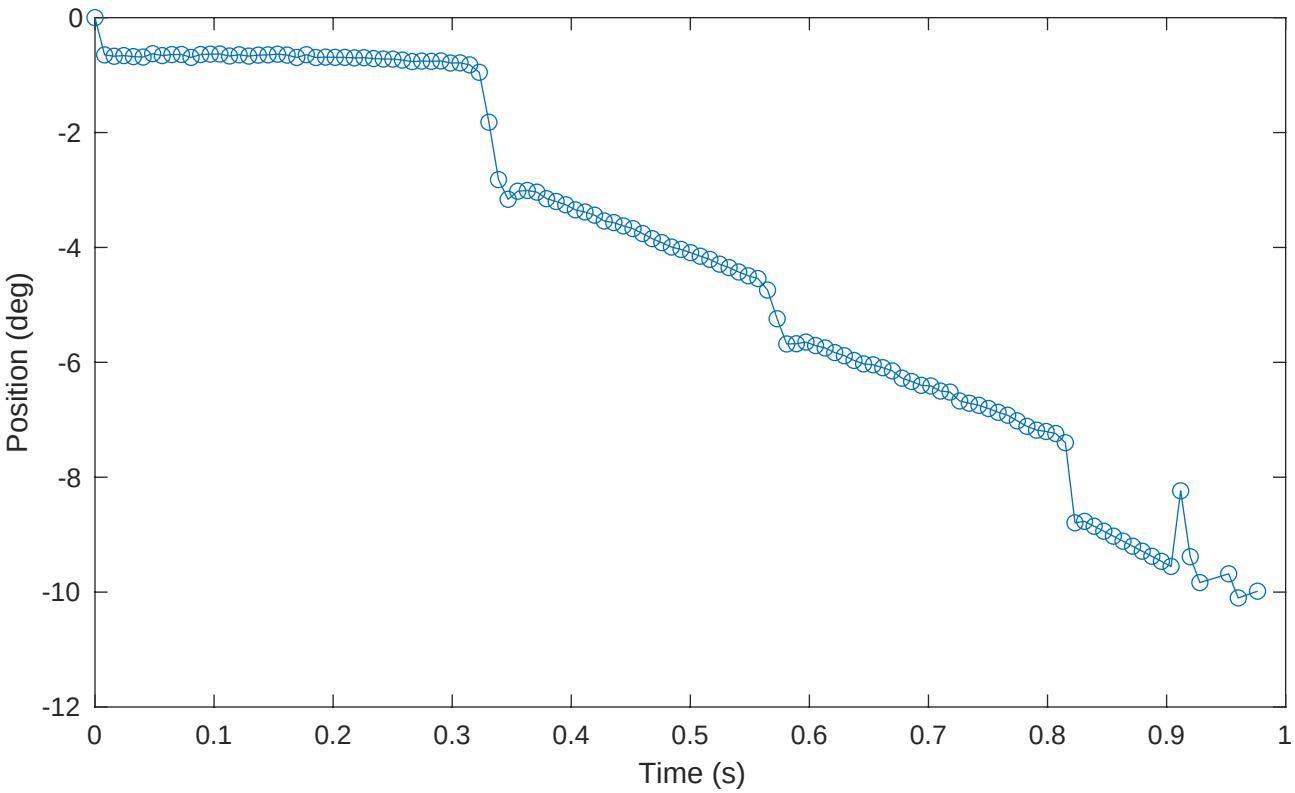

Filtered Position/Velocity: Trial 184 (External)
Position (deg)
Velocity (deg/s)
Time (s)
Externally Filtered Position
Externally Filtered Velocity

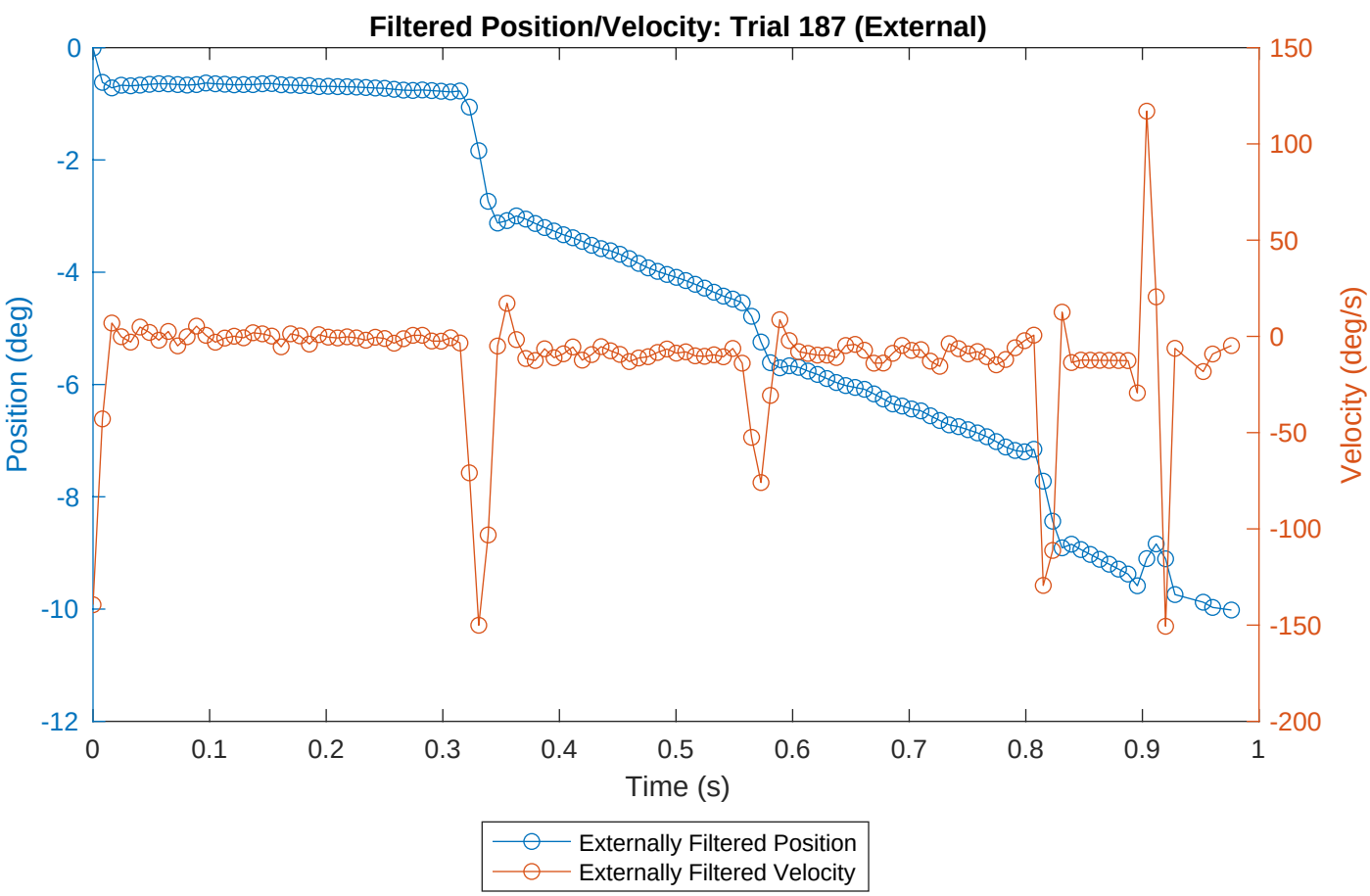

Position (deg)
Time (s)

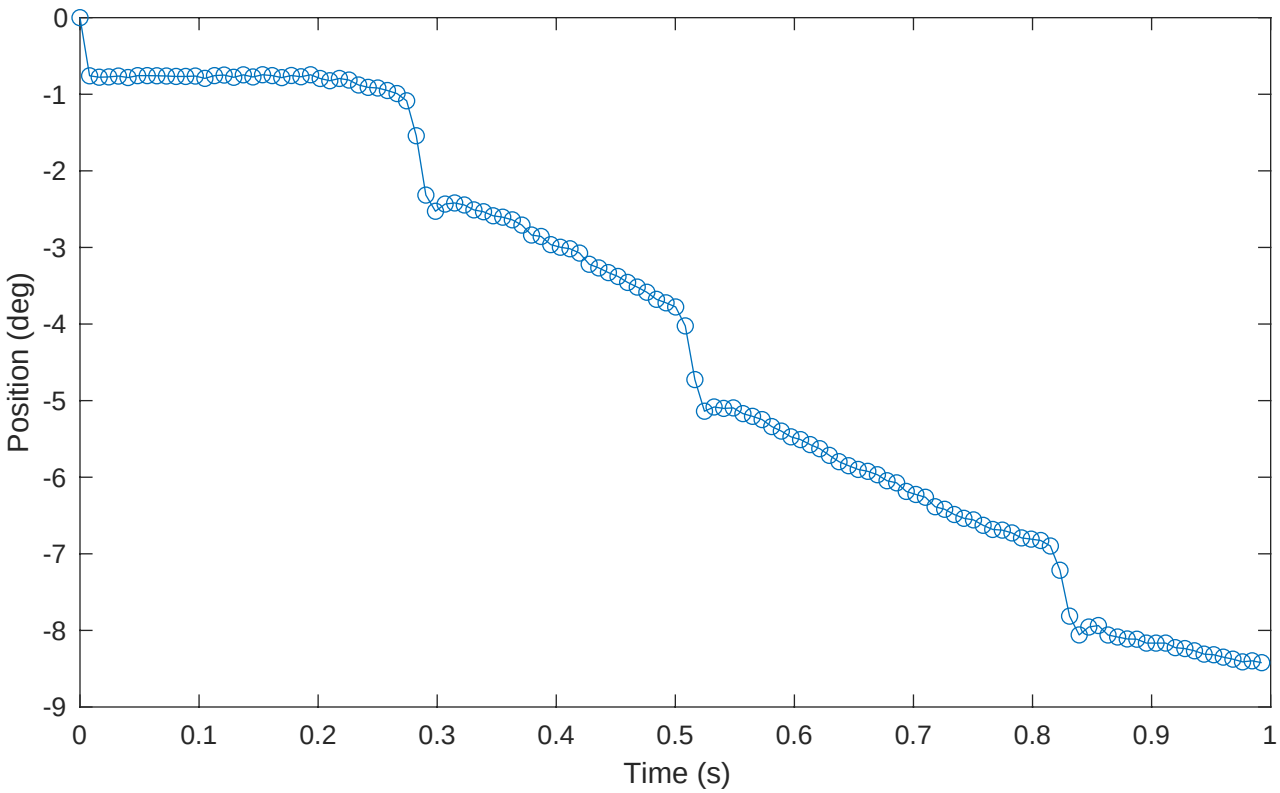

Filtered Position/Velocity: Trial 185 (External)
Position (deg)
Velocity (deg/s)
Time (s)
Externally Filtered Position
Externally Filtered Velocity

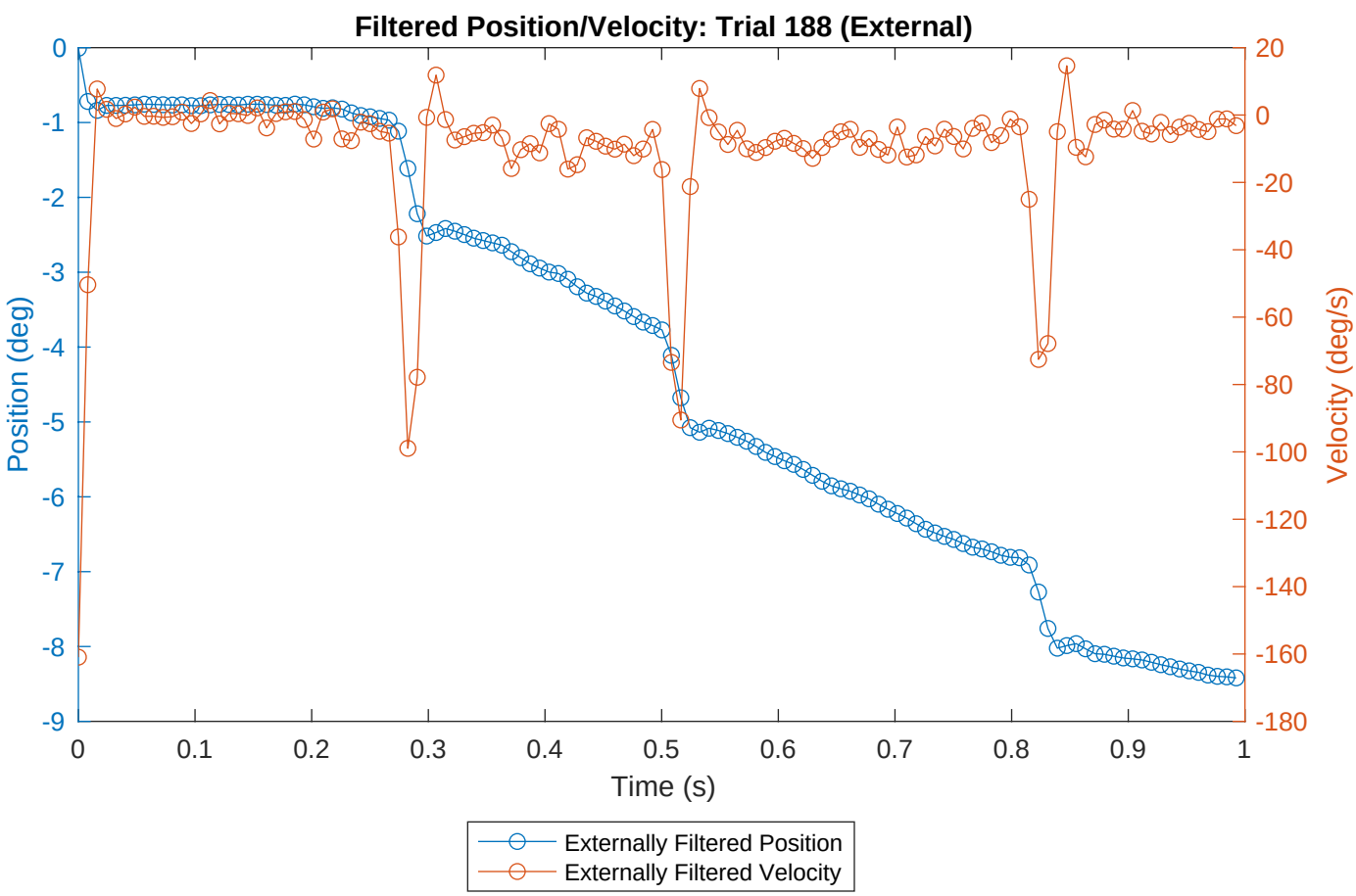

Position (deg)
Time (s)
0
-1
-2
-3
-4
-5
-6
0
0.1
0.2
0.3
0.4
0.5
0.6
0.7
0.8
0.9
1

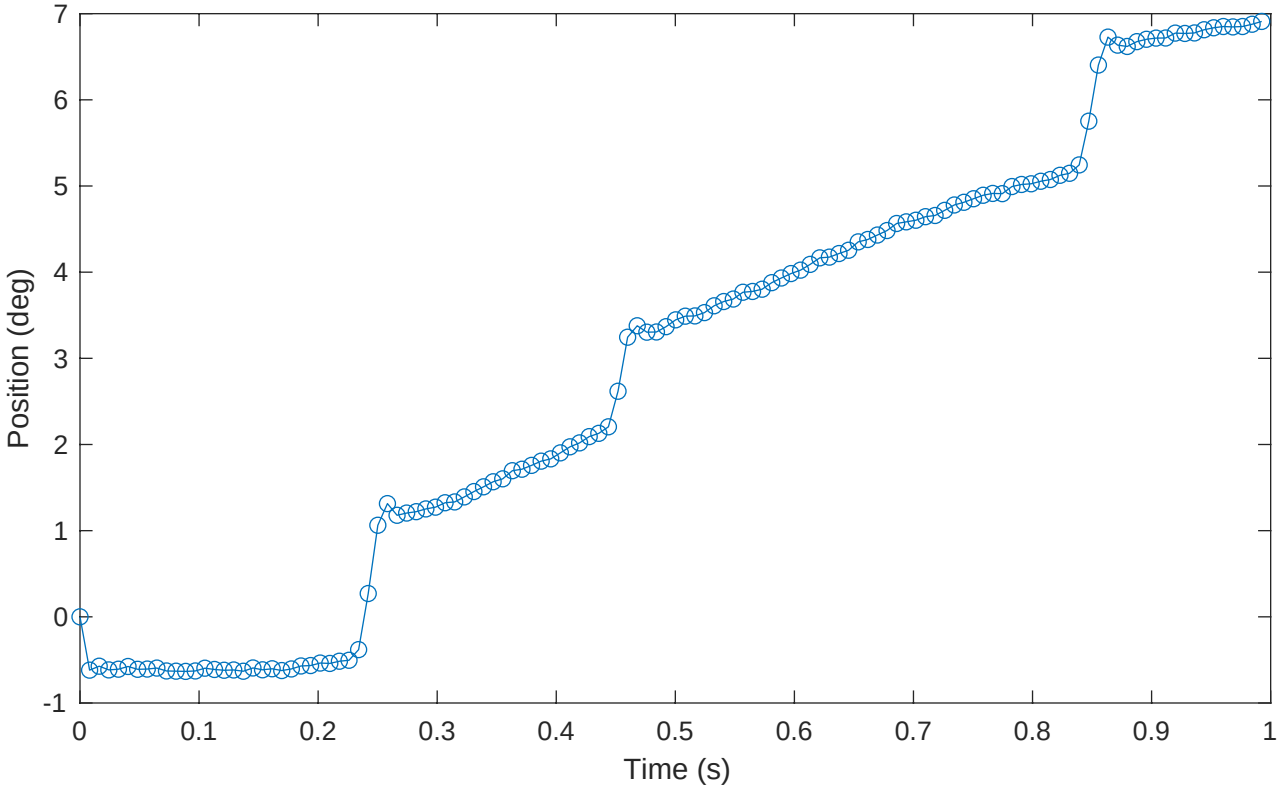

Filtered Position/Velocity: Trial 186 (External)
Position (deg)
Velocity (deg/s)
Time (s)
0
-1
-2
-3
-4
-5
-6
150
100
50
0
-50
-100
-150
0
0.1
0.2
0.3
0.4
0.5
0.6
0.7
0.8
0.9
1
Externally Filtered Position
Externally Filtered Velocity

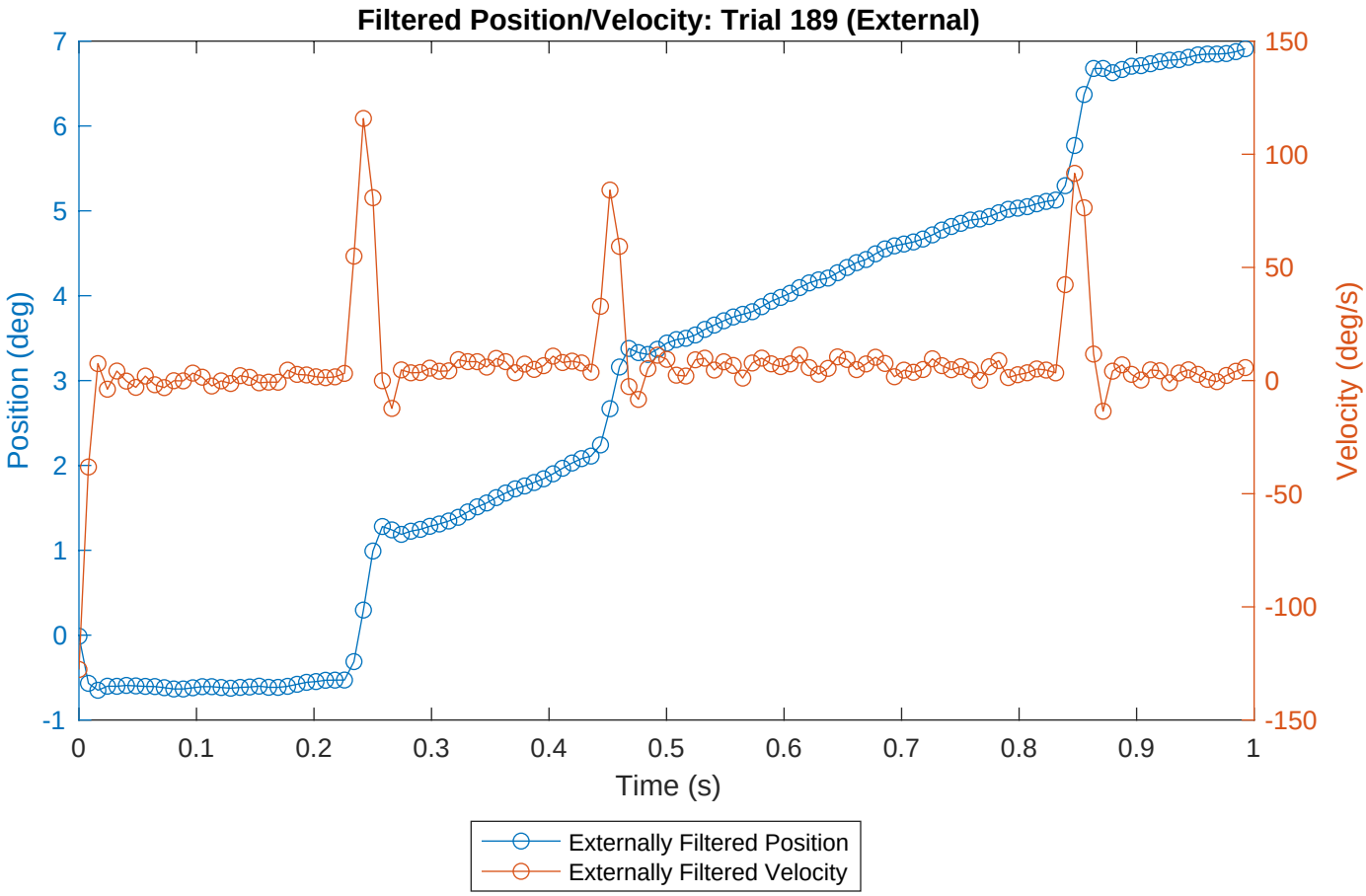

Position (deg)
Time (s)
0
-2
-4
-6
-8
-10
-12
0
0.1
0.2
0.3
0.4
0.5
0.6
0.7
0.8
0.9
1

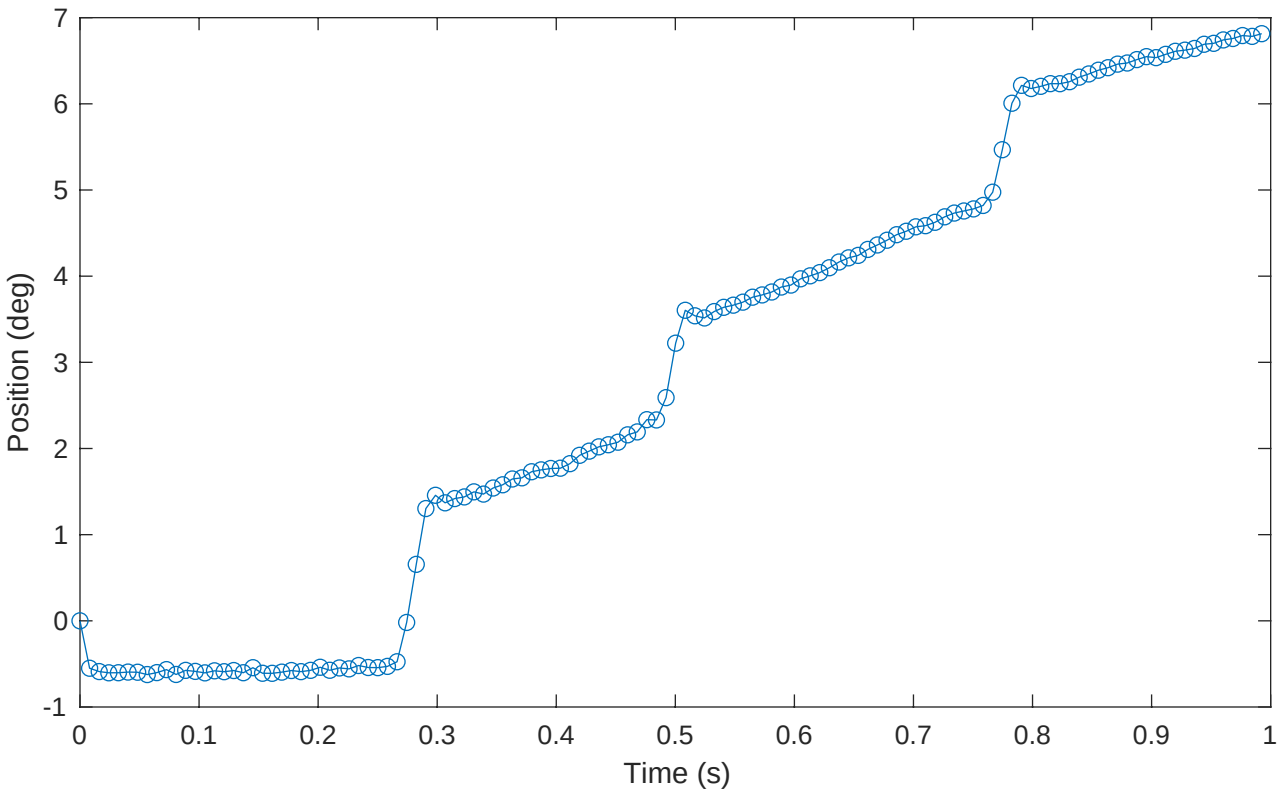

Filtered Position/Velocity: Trial 187 (External)
Position (deg)
Velocity (deg/s)
Time (s)
0
-2
-4
-6
-8
-10
-12
150
100
50
0
-50
-100
-150
-200
0
0.1
0.2
0.3
0.4
0.5
0.6
0.7
0.8
0.9
1
Externally Filtered Position
Externally Filtered Velocity

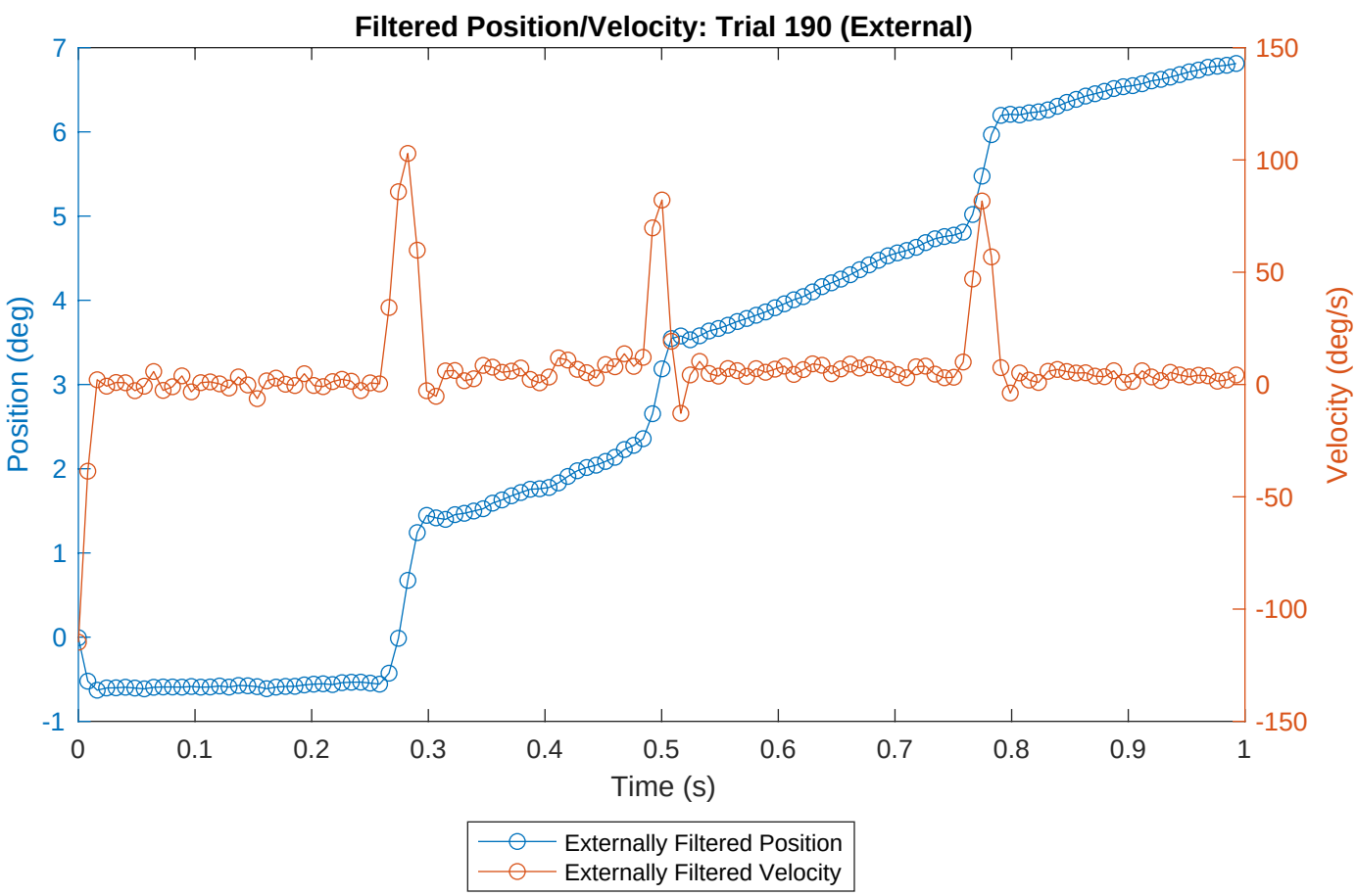

Position (deg)
Time (s)

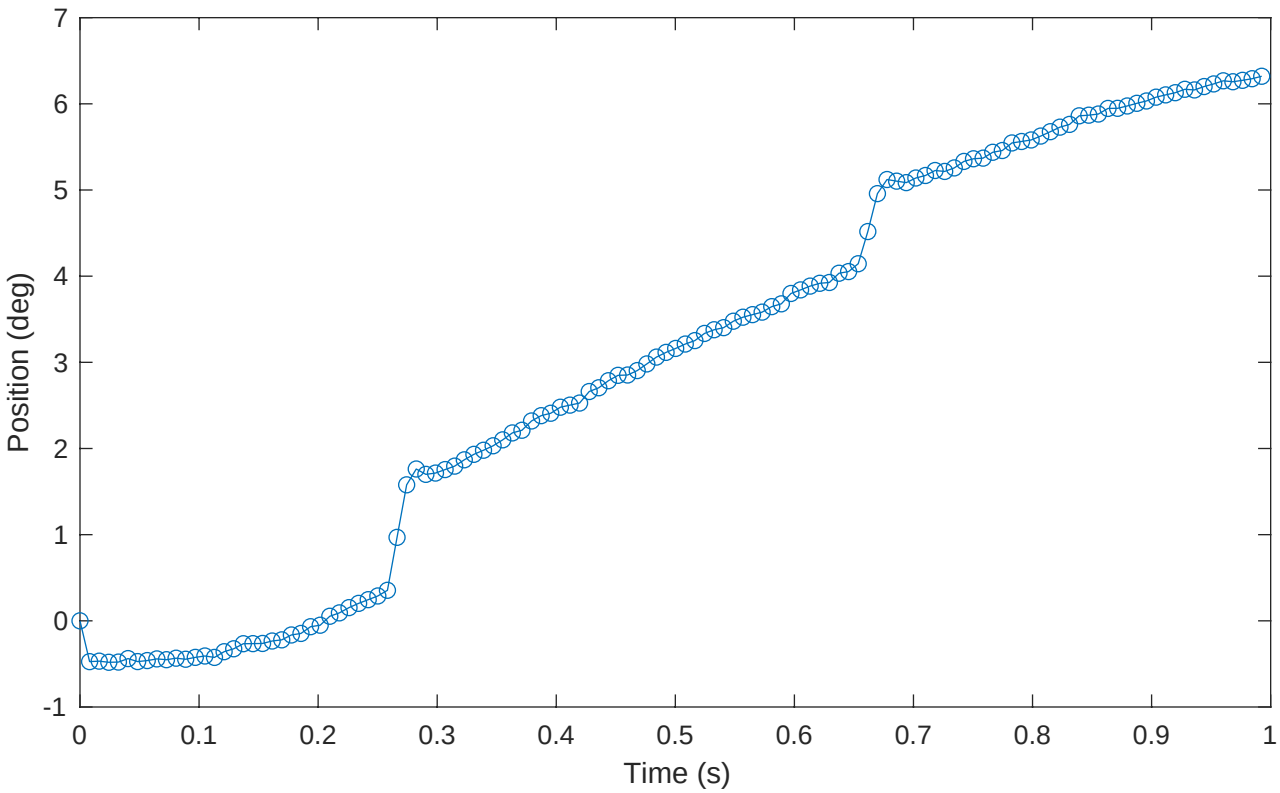

Filtered Position/Velocity: Trial 188 (External)
Position (deg)
Velocity (deg/s)
Time (s)
Externally Filtered Position
Externally Filtered Velocity

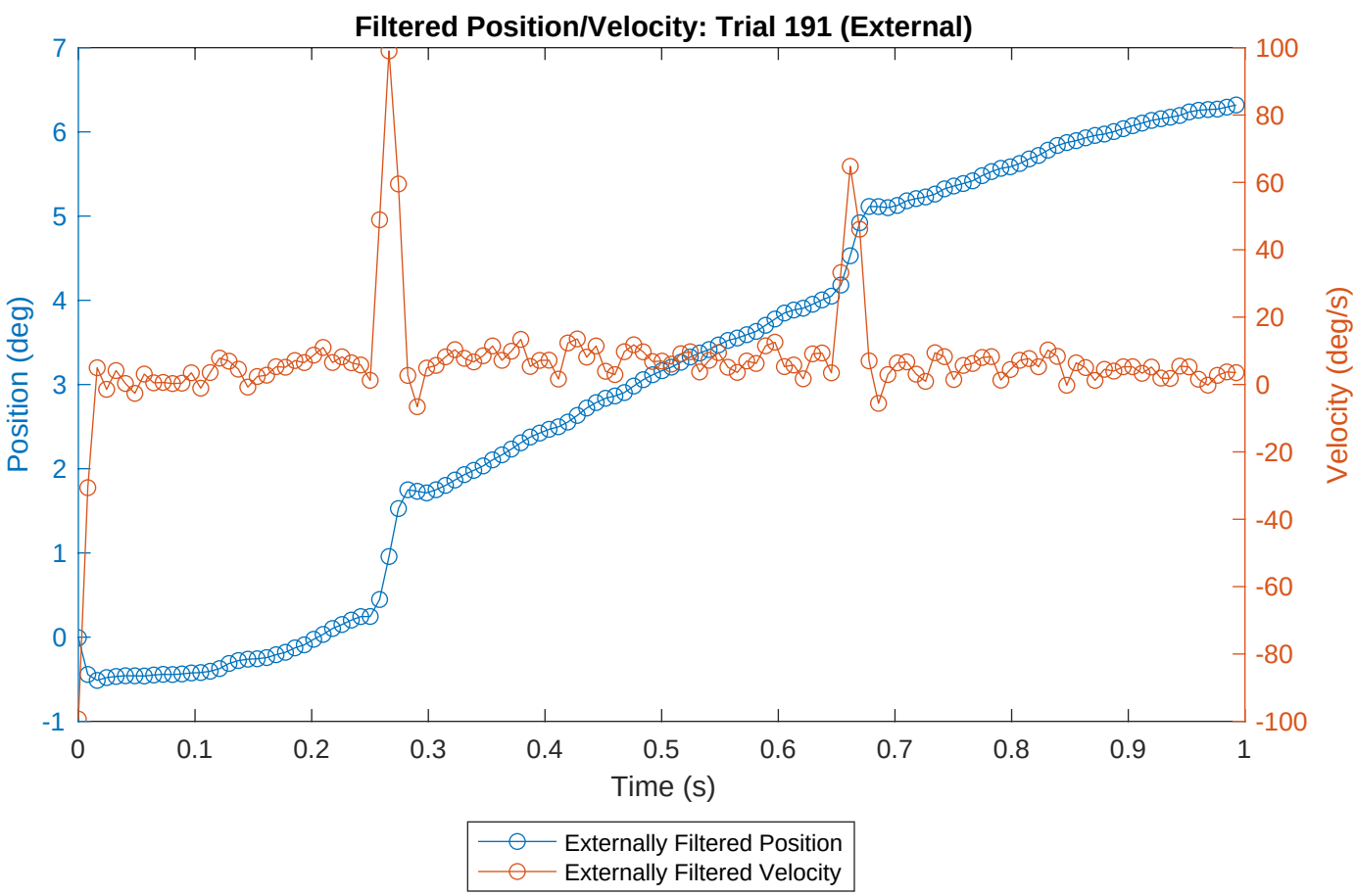

Position (deg)
Time (s)

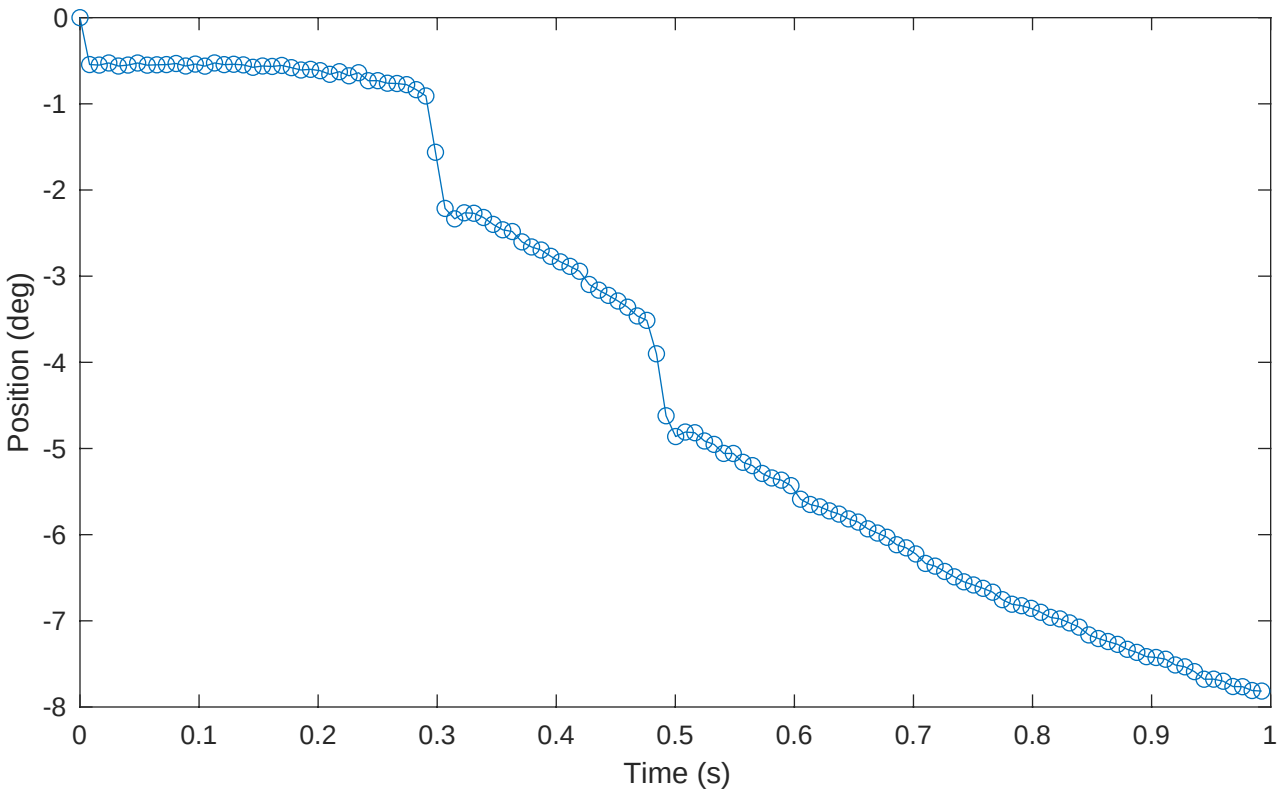

Filtered Position/Velocity: Trial 189 (External)
Position (deg)
Velocity (deg/s)
Time (s)
Externally Filtered Position
Externally Filtered Velocity

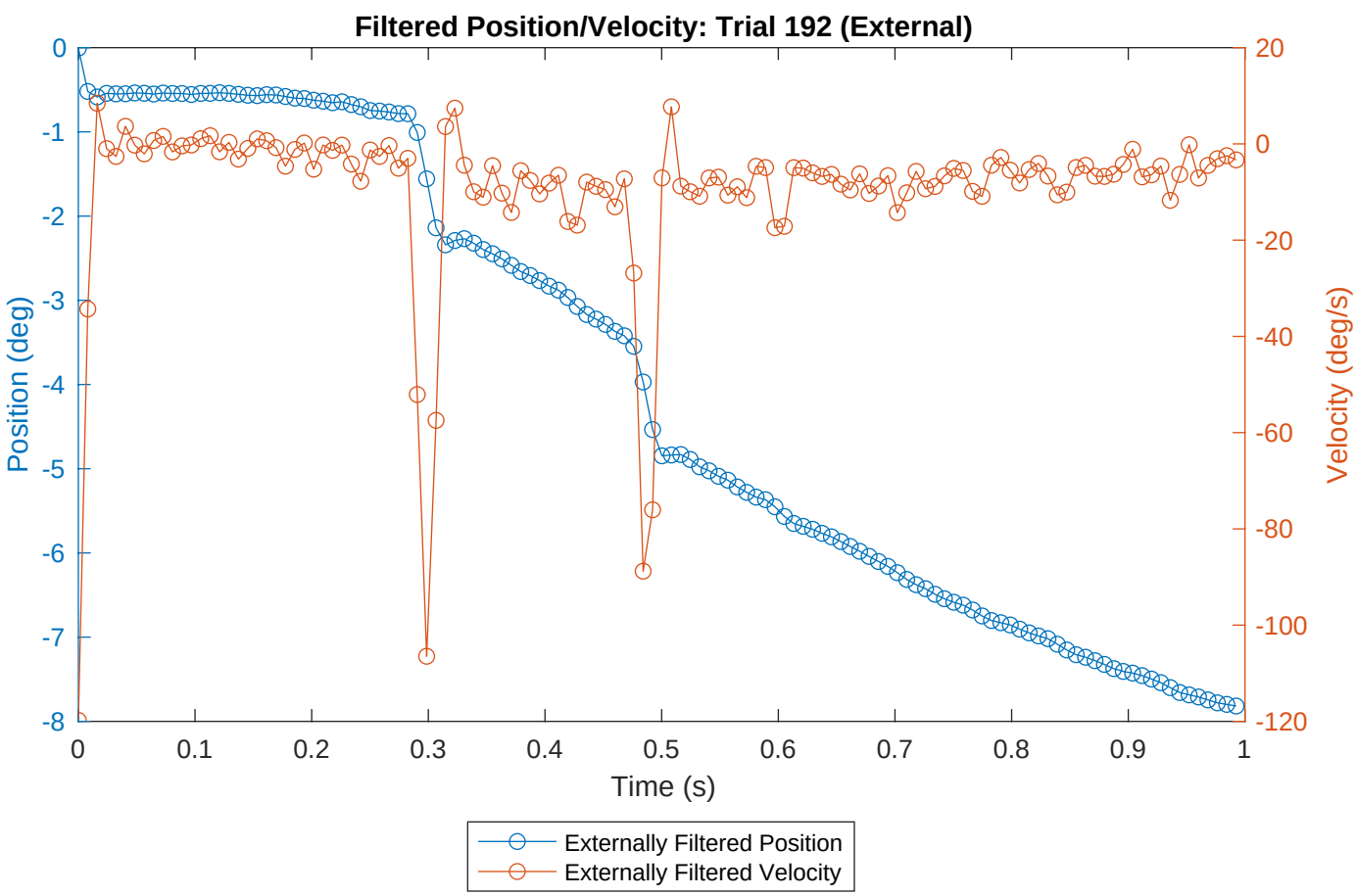

Position (deg)
Time (s)

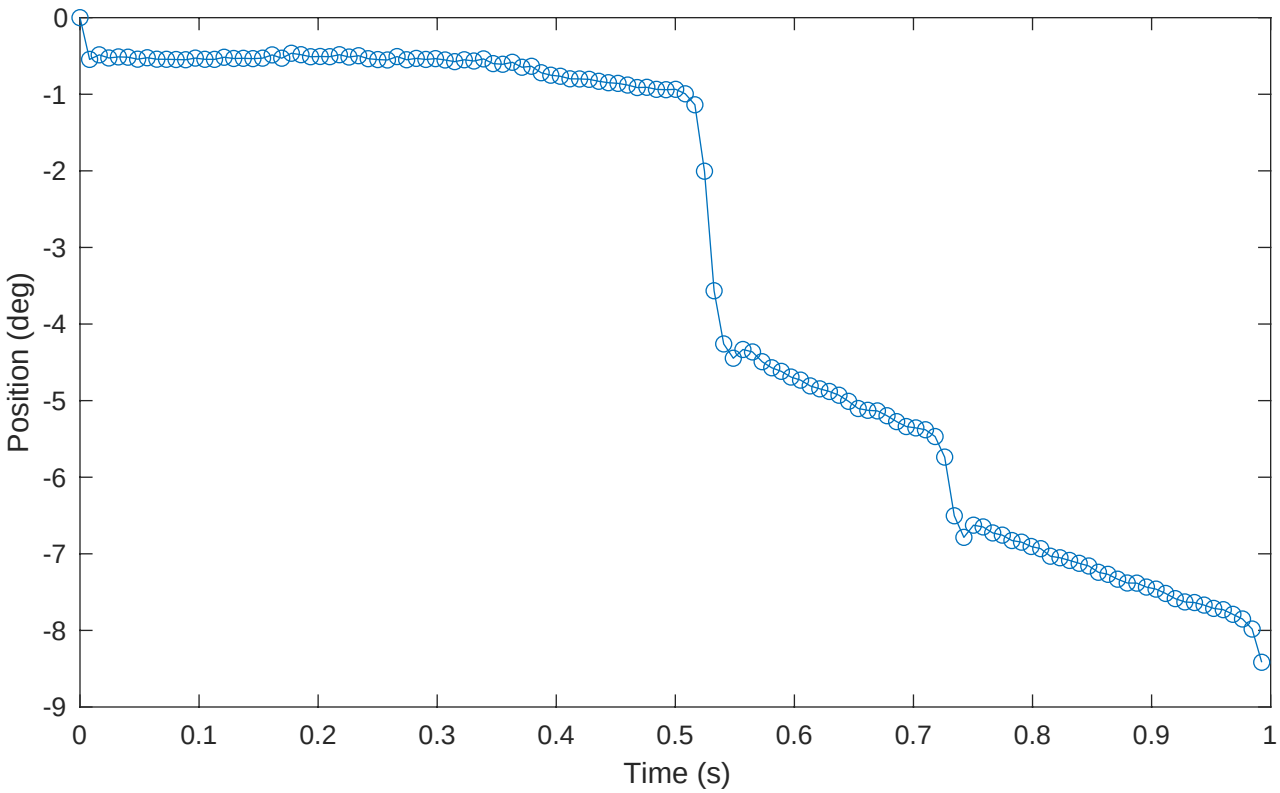

Filtered Position/Velocity: Trial 190 (External)
Position (deg)
Velocity (deg/s)
Time (s)
Externally Filtered Position
Externally Filtered Velocity

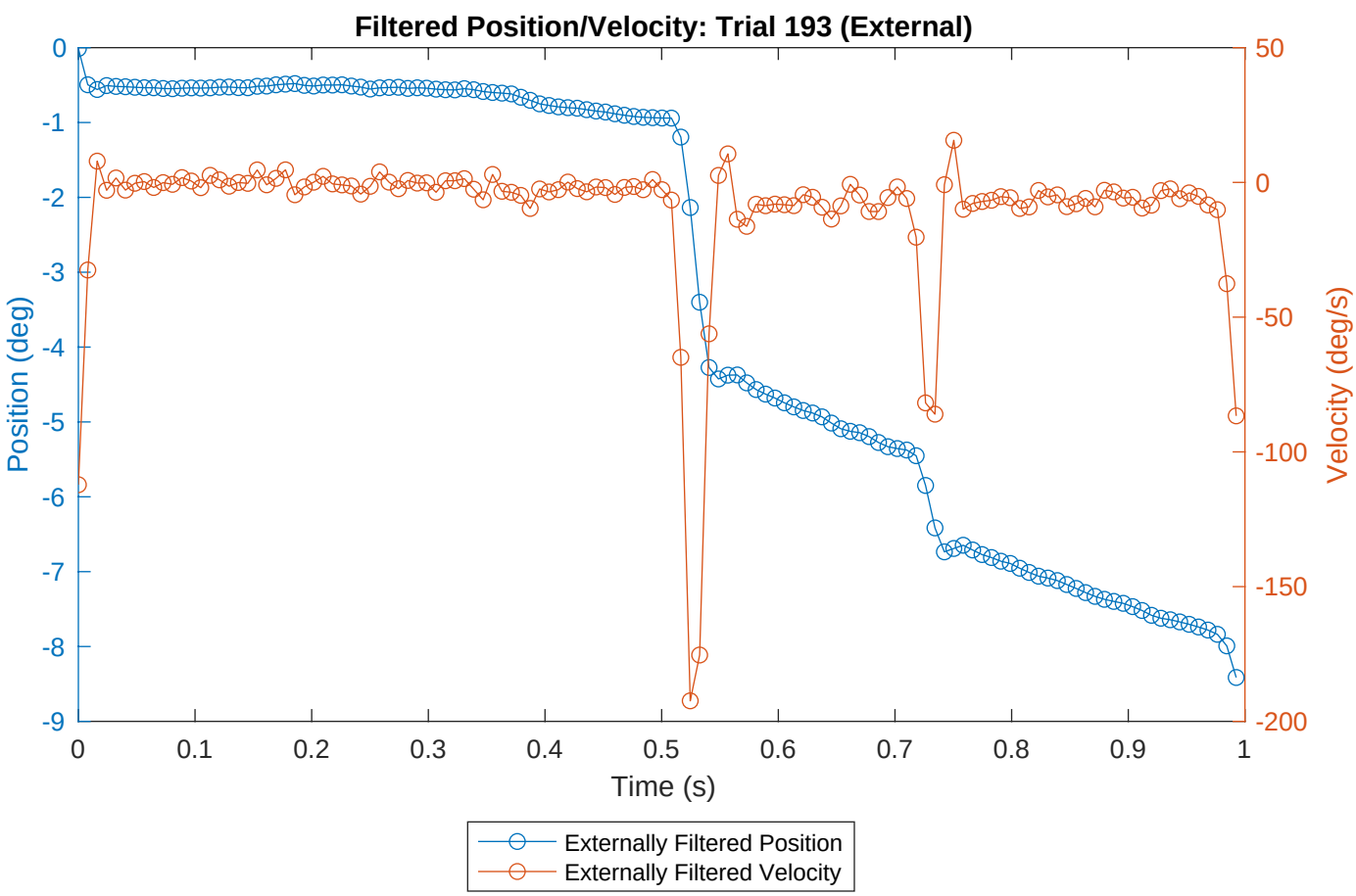

Position (deg)
Time (s)

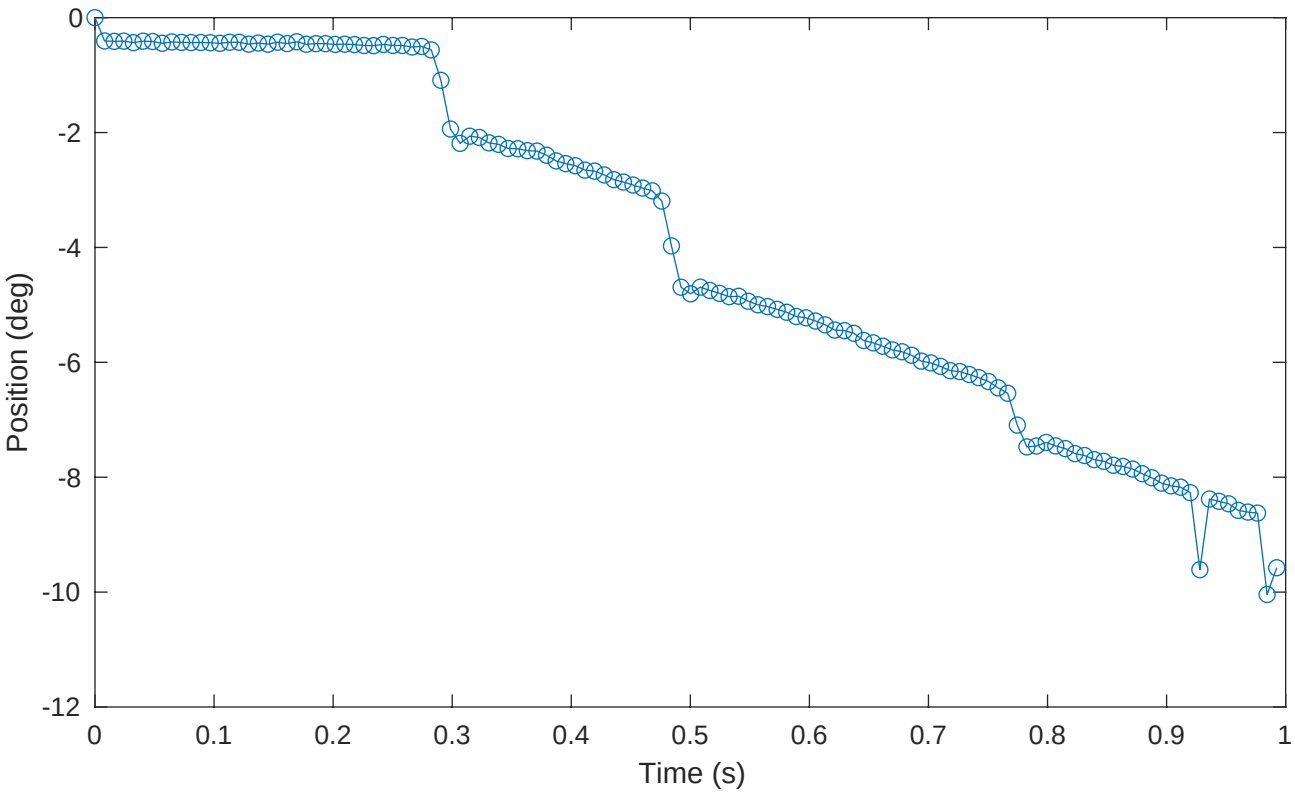

Filtered Position/Velocity: Trial 191 (External)
Position (deg)
Velocity (deg/s)
Time (s)
Externally Filtered Position
Externally Filtered Velocity

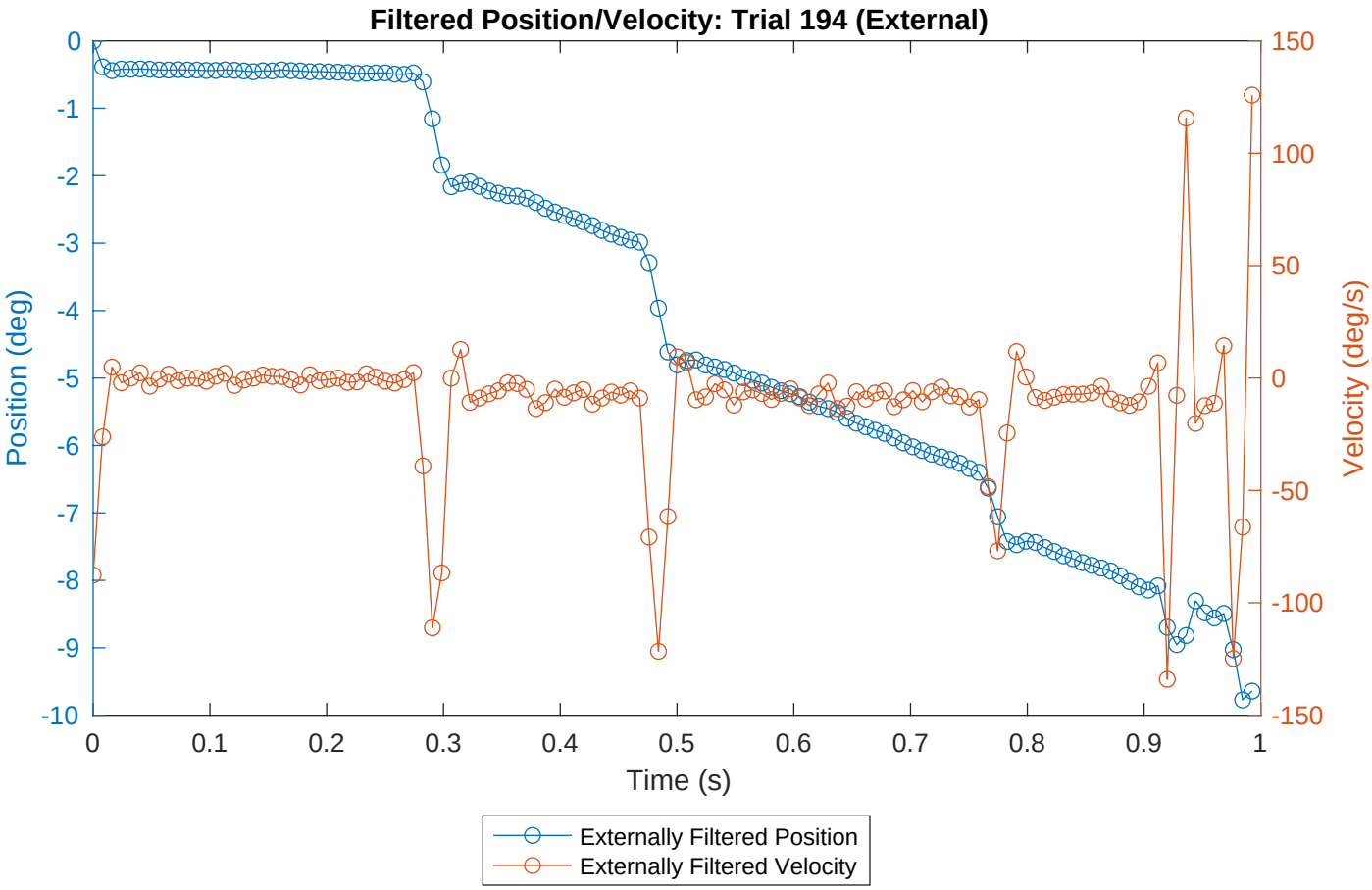

Position (deg)
Time (s)
0
-1
-2
-3
-4
-5
-6
-7
-8
0
0.1
0.2
0.3
0.4
0.5
0.6
0.7
0.8
0.9
1

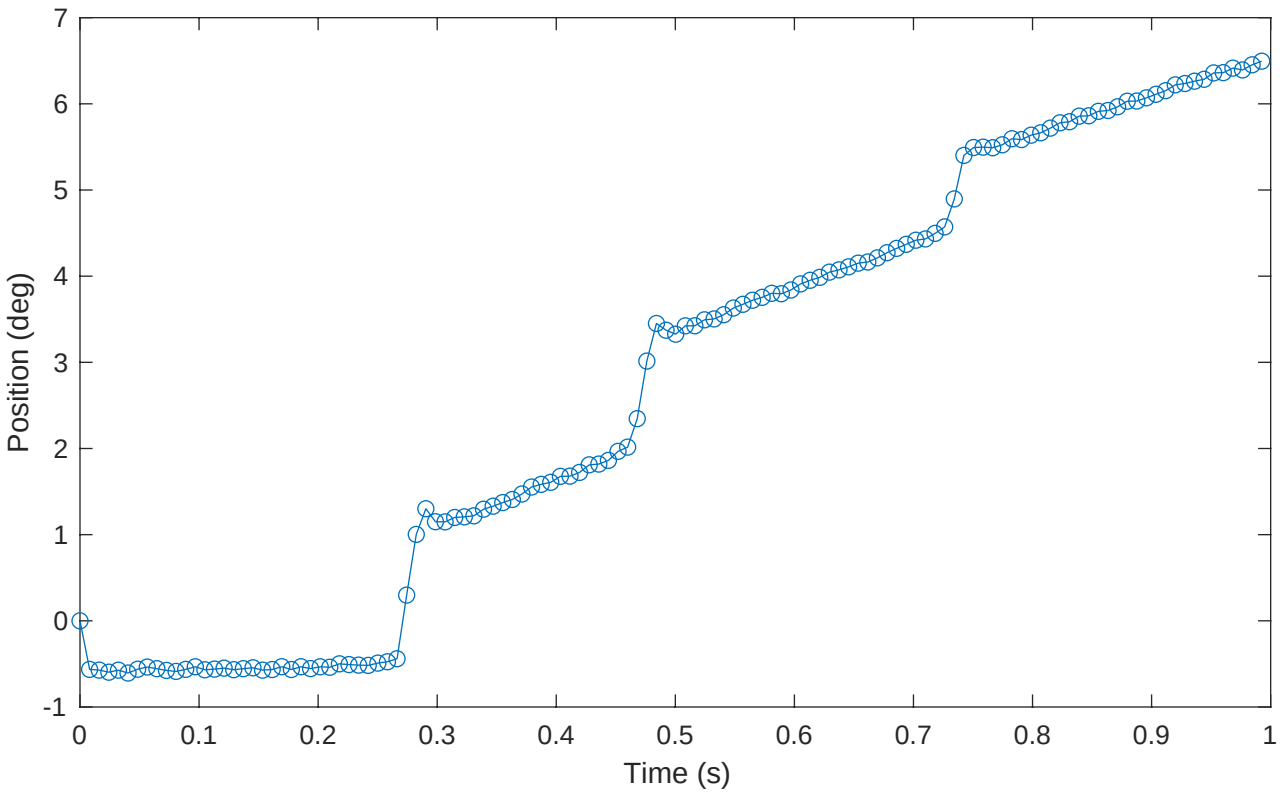

Filtered Position/Velocity: Trial 192 (External)
Position (deg)
Velocity (deg/s)
Time (s)
0
-1
-2
-3
-4
-5
-6
-7
-8
20
0
-20
-40
-60
-80
-100
-120
0
0.1
0.2
0.3
0.4
0.5
0.6
0.7
0.8
0.9
1
Externally Filtered Position
Externally Filtered Velocity

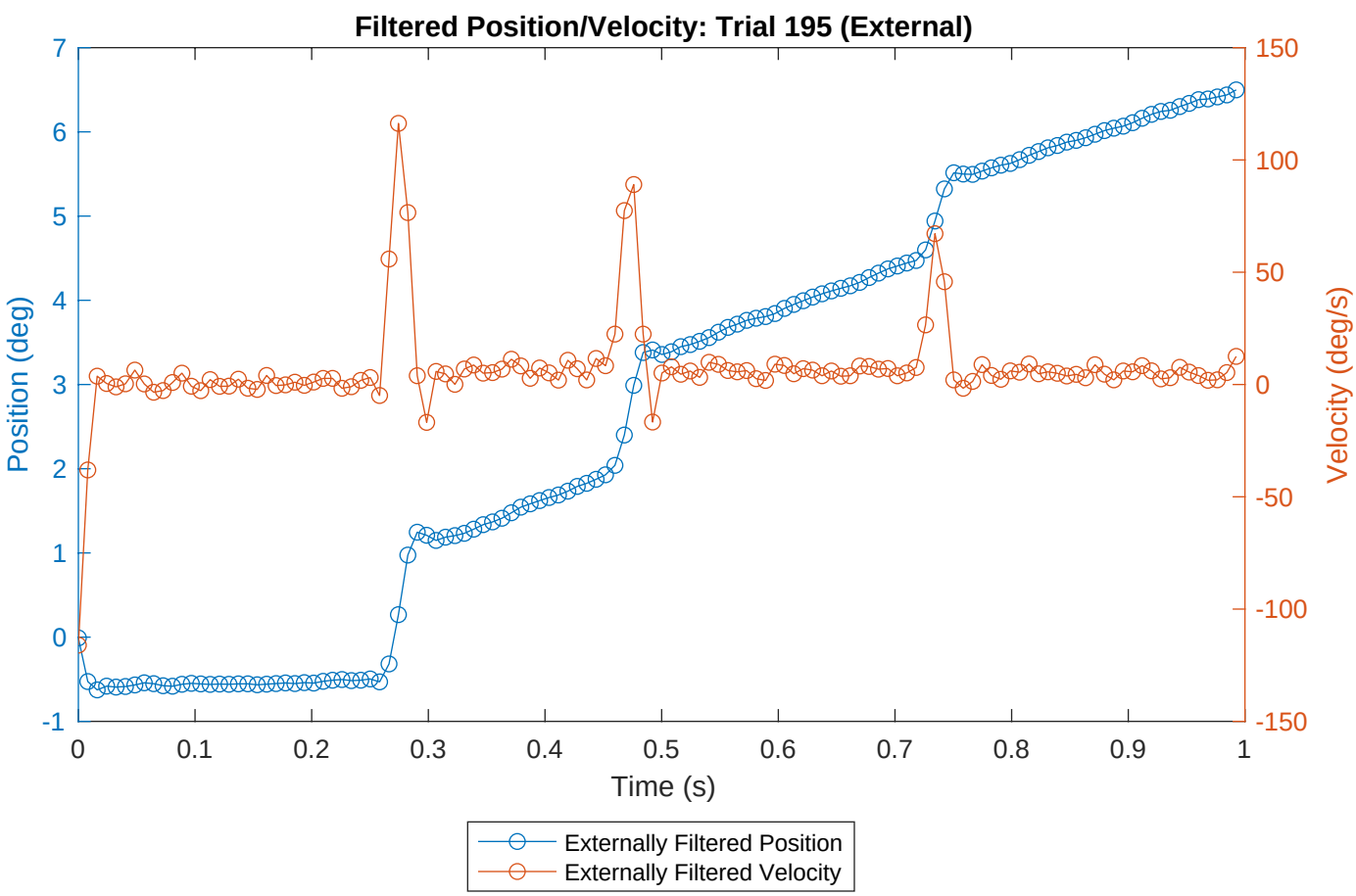

Position (deg)
Time (s)

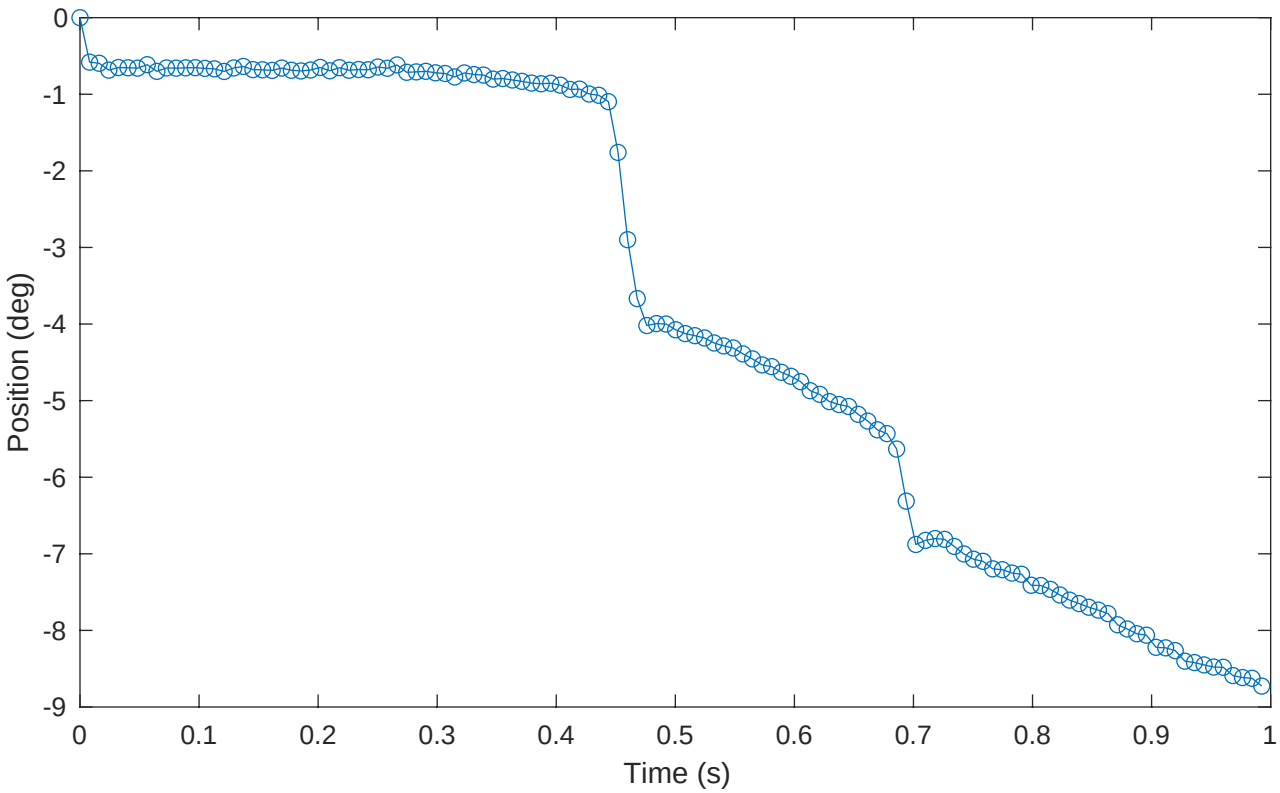

Filtered Position/Velocity: Trial 193 (External)
Position (deg)
Velocity (deg/s)
Time (s)
Externally Filtered Position
Externally Filtered Velocity

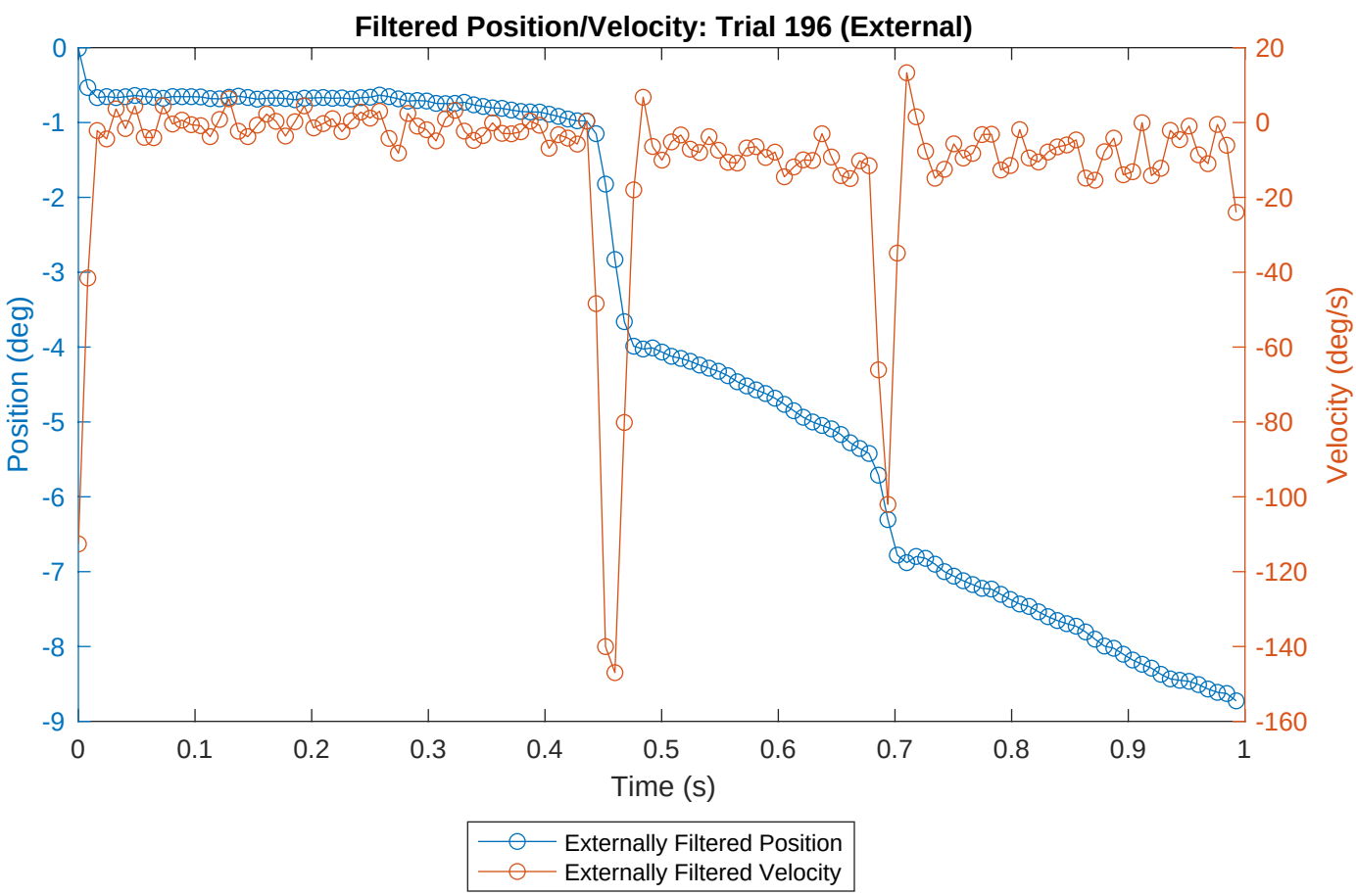

Position (deg)
Time (s)

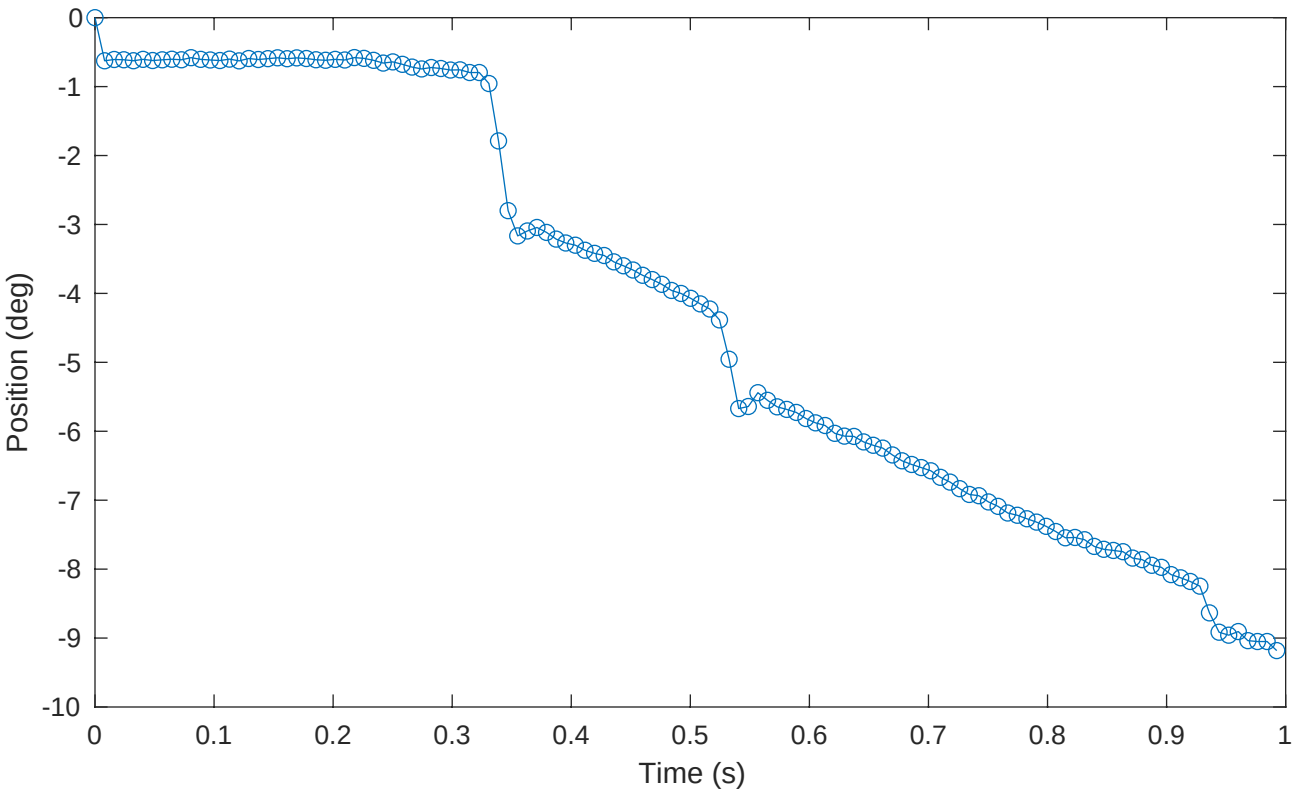

Filtered Position/Velocity: Trial 194 (External)
Position (deg)
Velocity (deg/s)
Time (s)
Externally Filtered Position
Externally Filtered Velocity

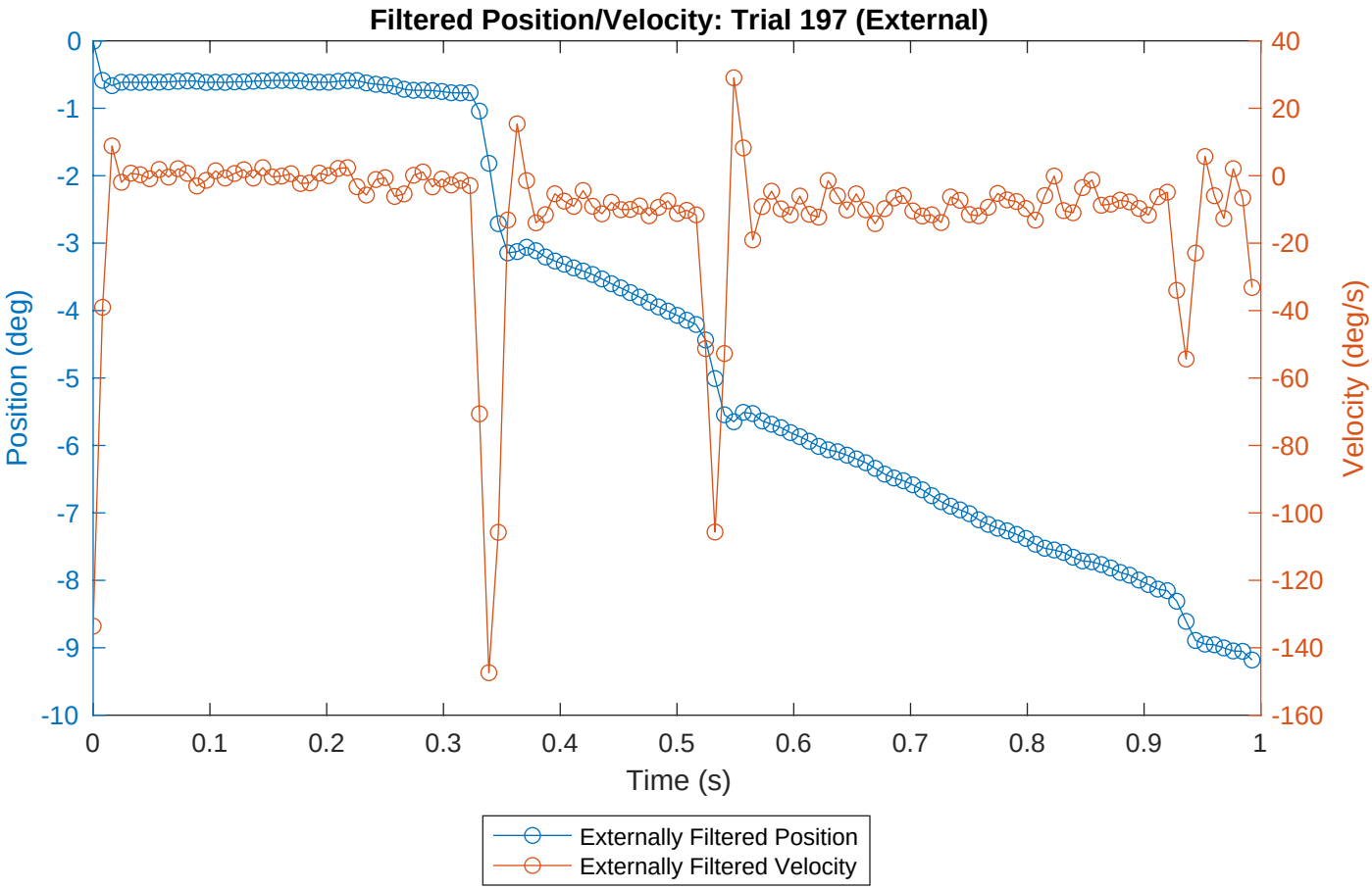

Position (deg)
Time (s)

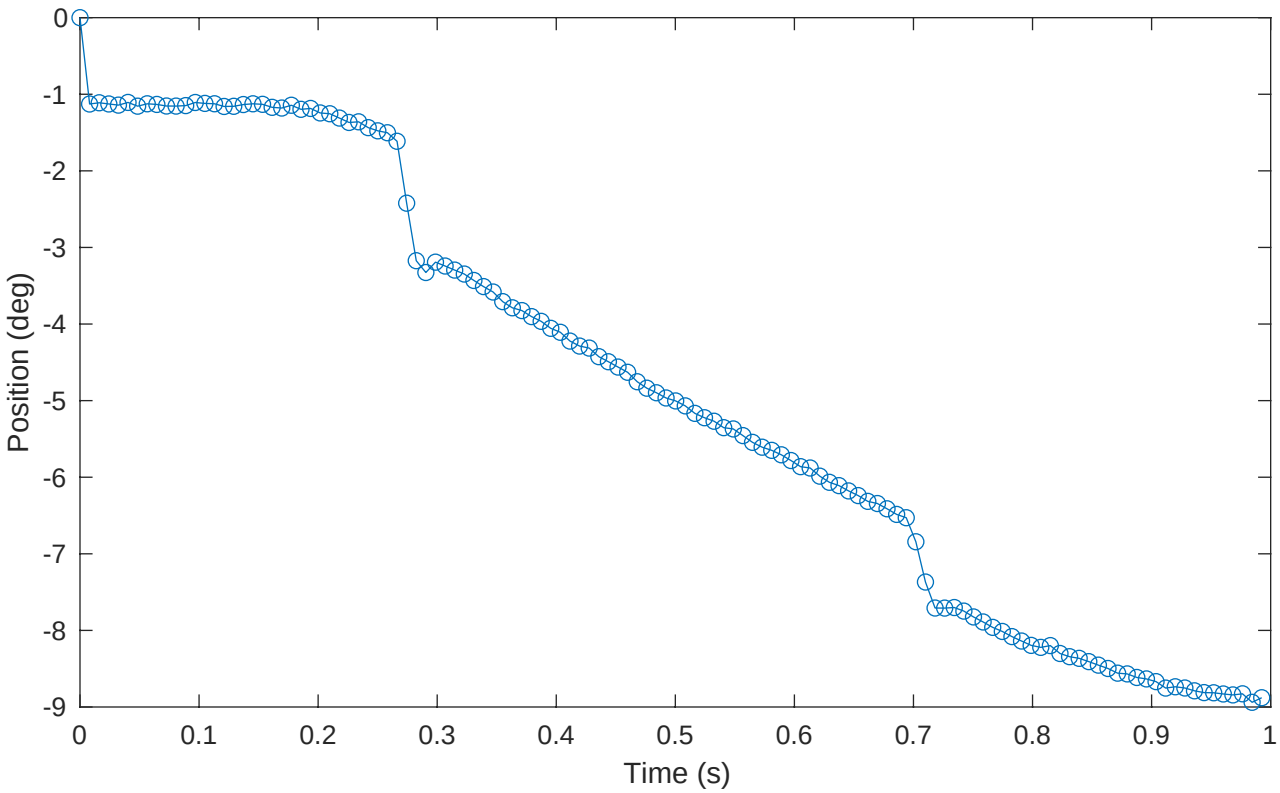

Filtered Position/Velocity: Trial 195 (External)
Position (deg)
Velocity (deg/s)
Time (s)
Externally Filtered Position
Externally Filtered Velocity

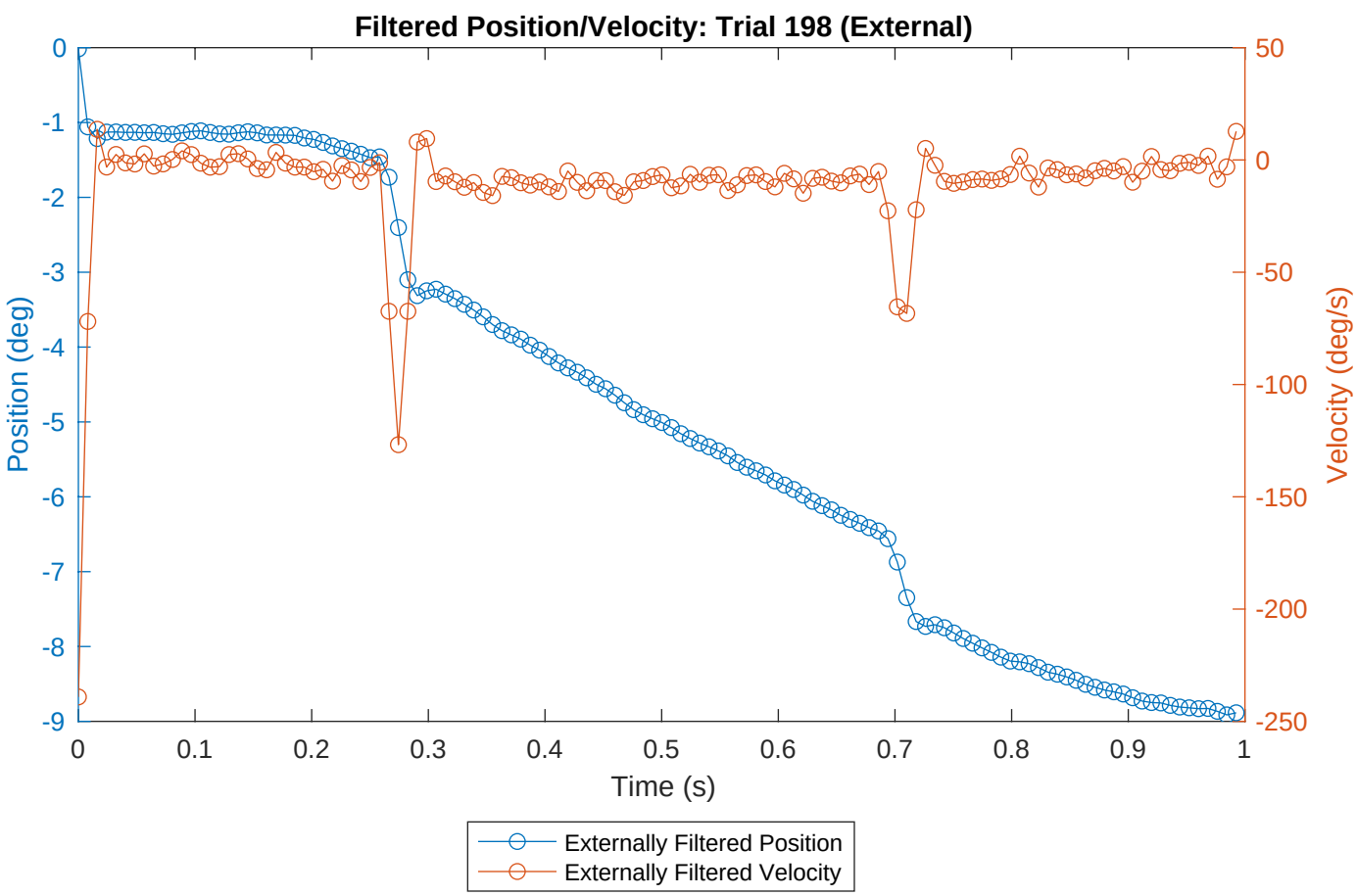

Position (deg)
Time (s)

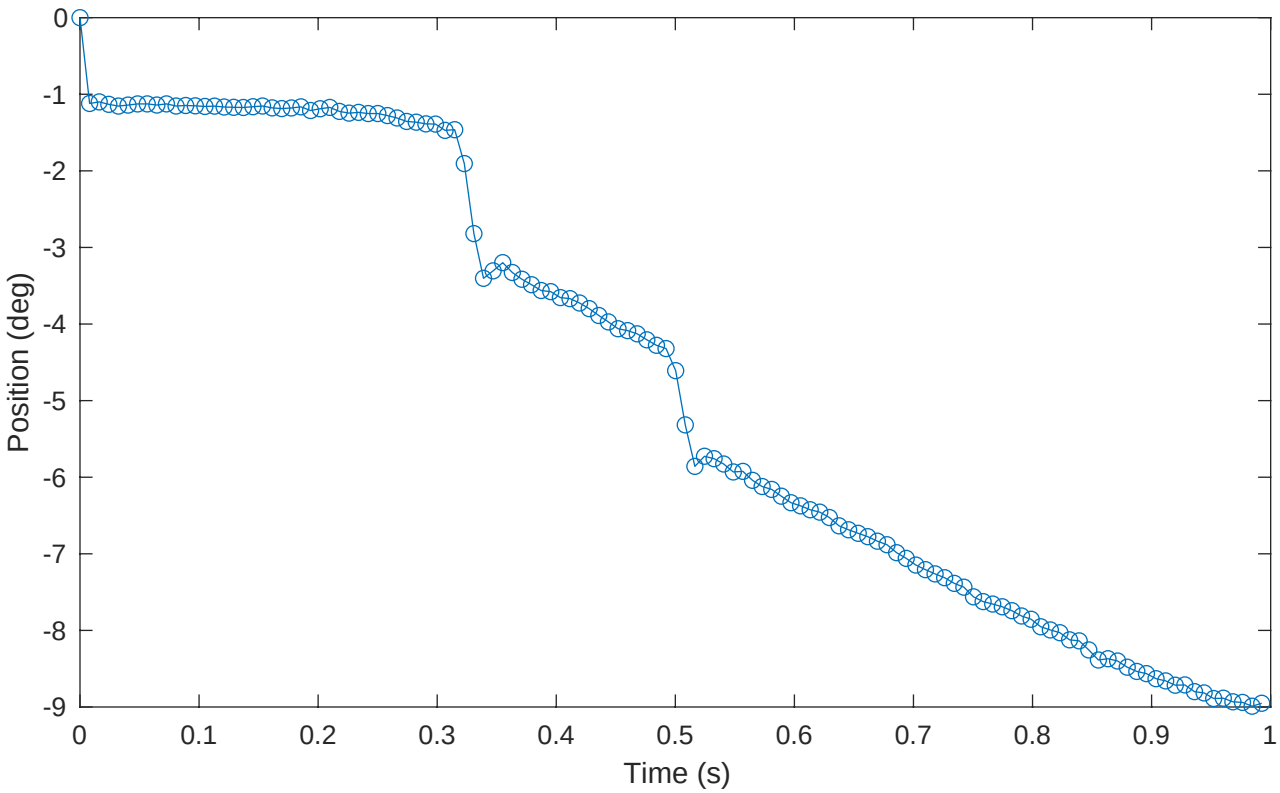

Filtered Position/Velocity: Trial 196 (External)
Position (deg)
Velocity (deg/s)
Time (s)
Externally Filtered Position
Externally Filtered Velocity

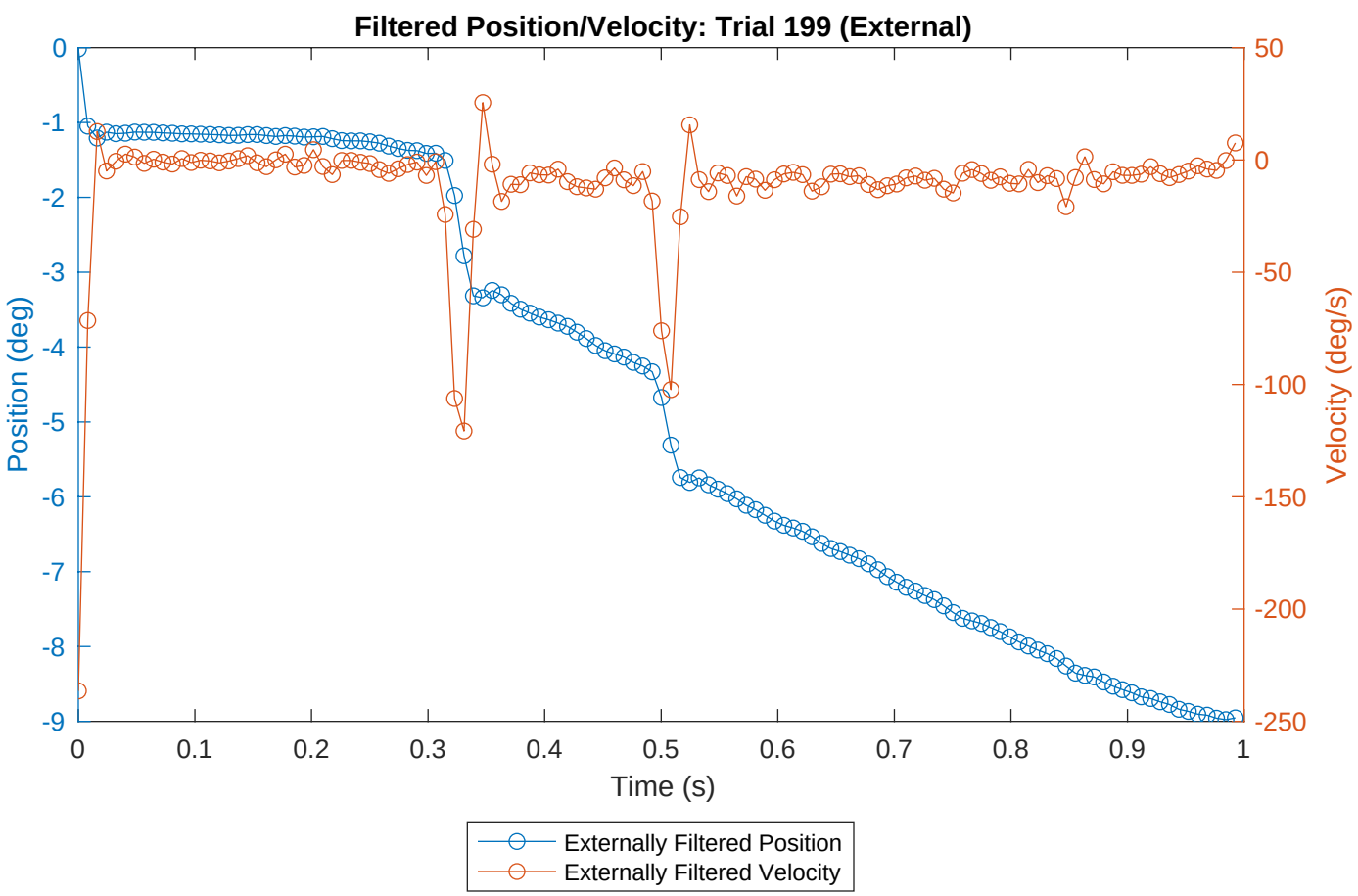

Position (deg)
Time (s)

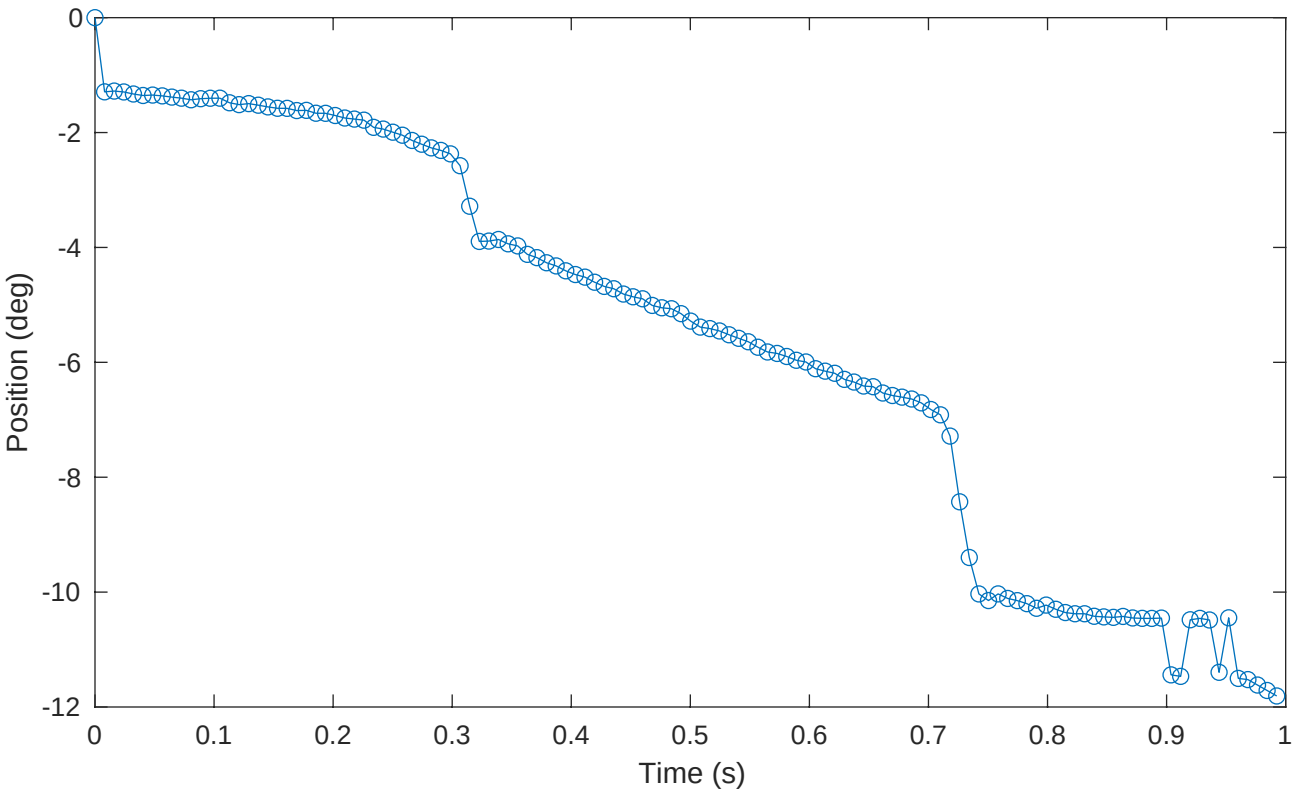

Filtered Position/Velocity: Trial 197 (External)
Position (deg)
Velocity (deg/s)
Time (s)
Externally Filtered Position
Externally Filtered Velocity

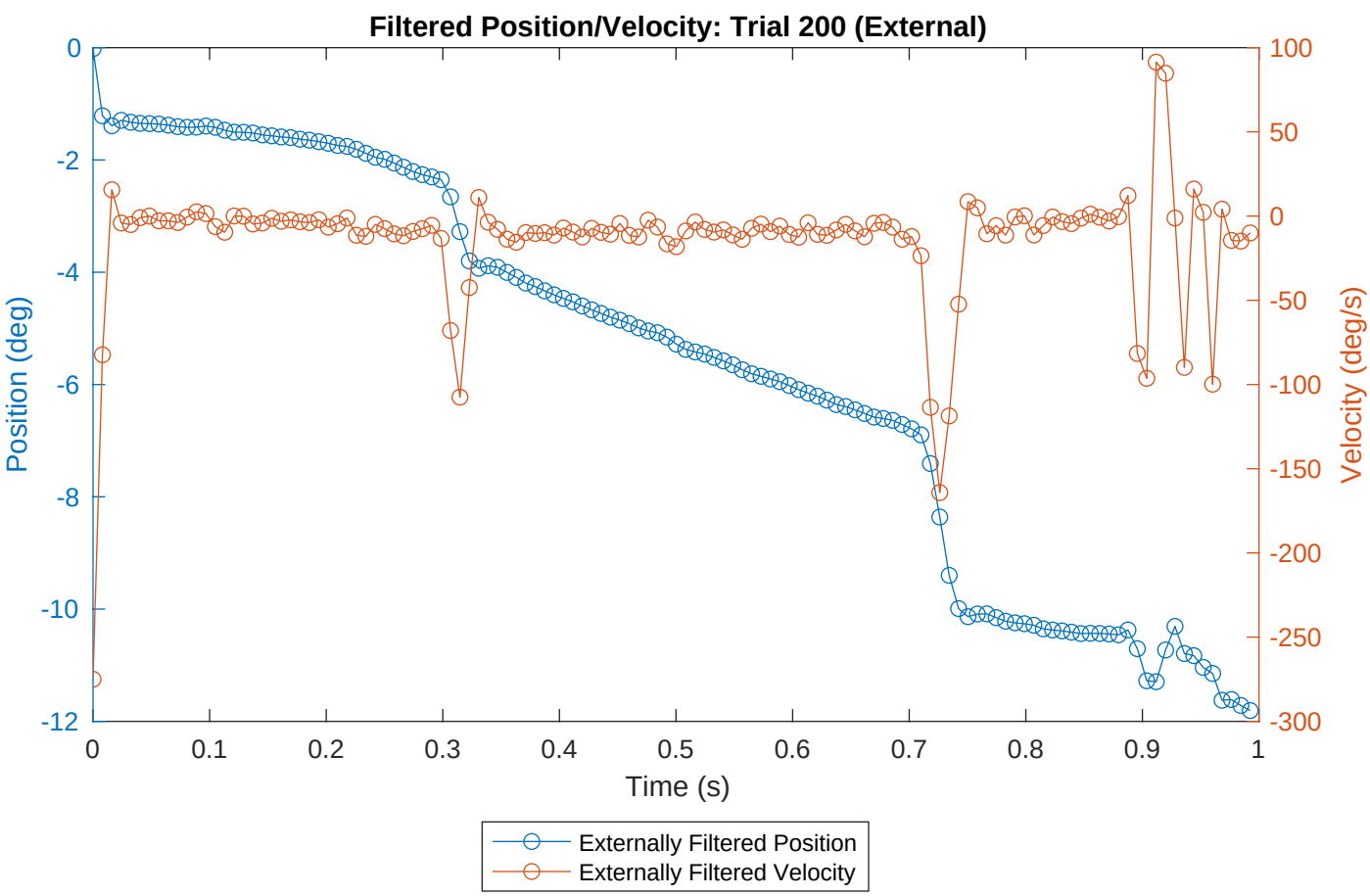

Position (deg)
Time (s)
0
-1
-2
-3
-4
-5
-6
-7
-8
-9
0
0.1
0.2
0.3
0.4
0.5
0.6
0.7
0.8
0.9
1

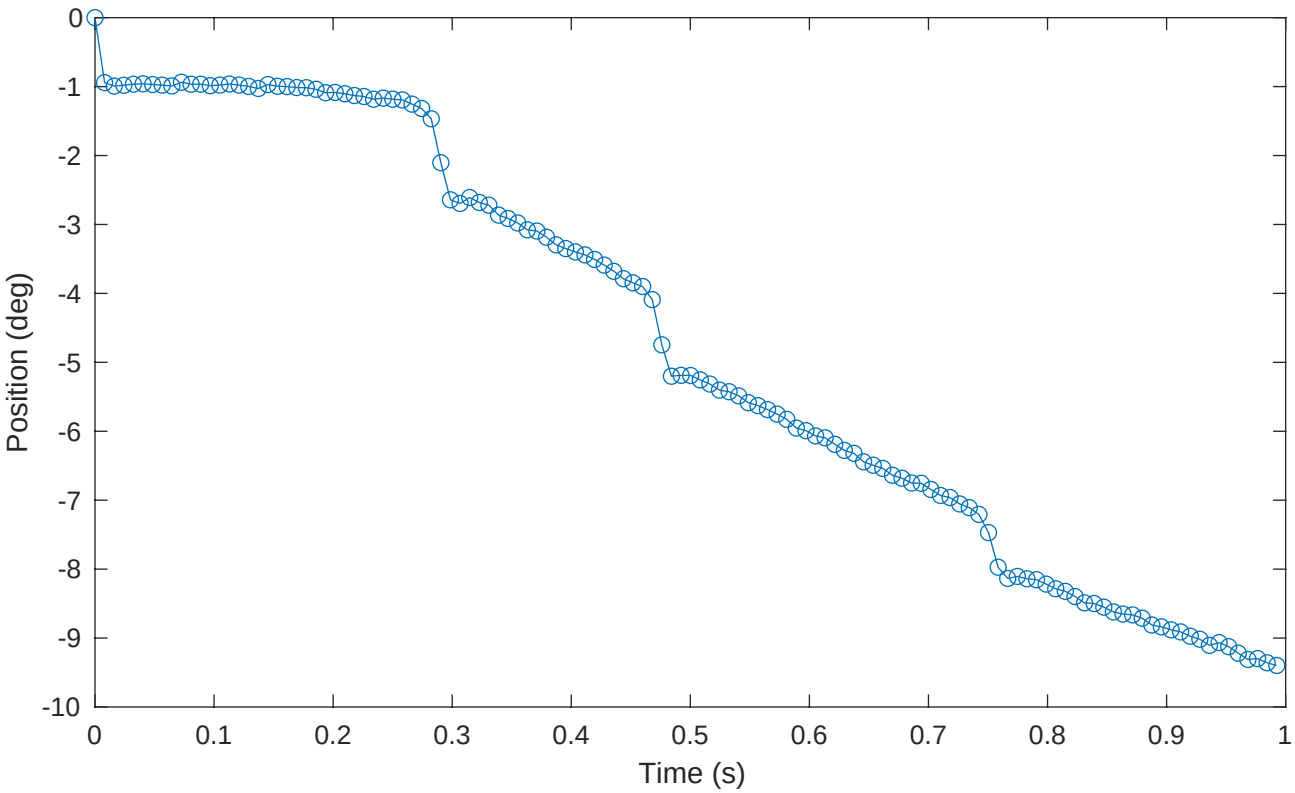

Filtered Position/Velocity: Trial 198 (External)
Position (deg)
Velocity (deg/s)
Time (s)
0
-1
-2
-3
-4
-5
-6
-7
-8
-9
50
0
-50
-100
-150
-200
-250
0
0.1
0.2
0.3
0.4
0.5
0.6
0.7
0.8
0.9
1
Externally Filtered Position
Externally Filtered Velocity

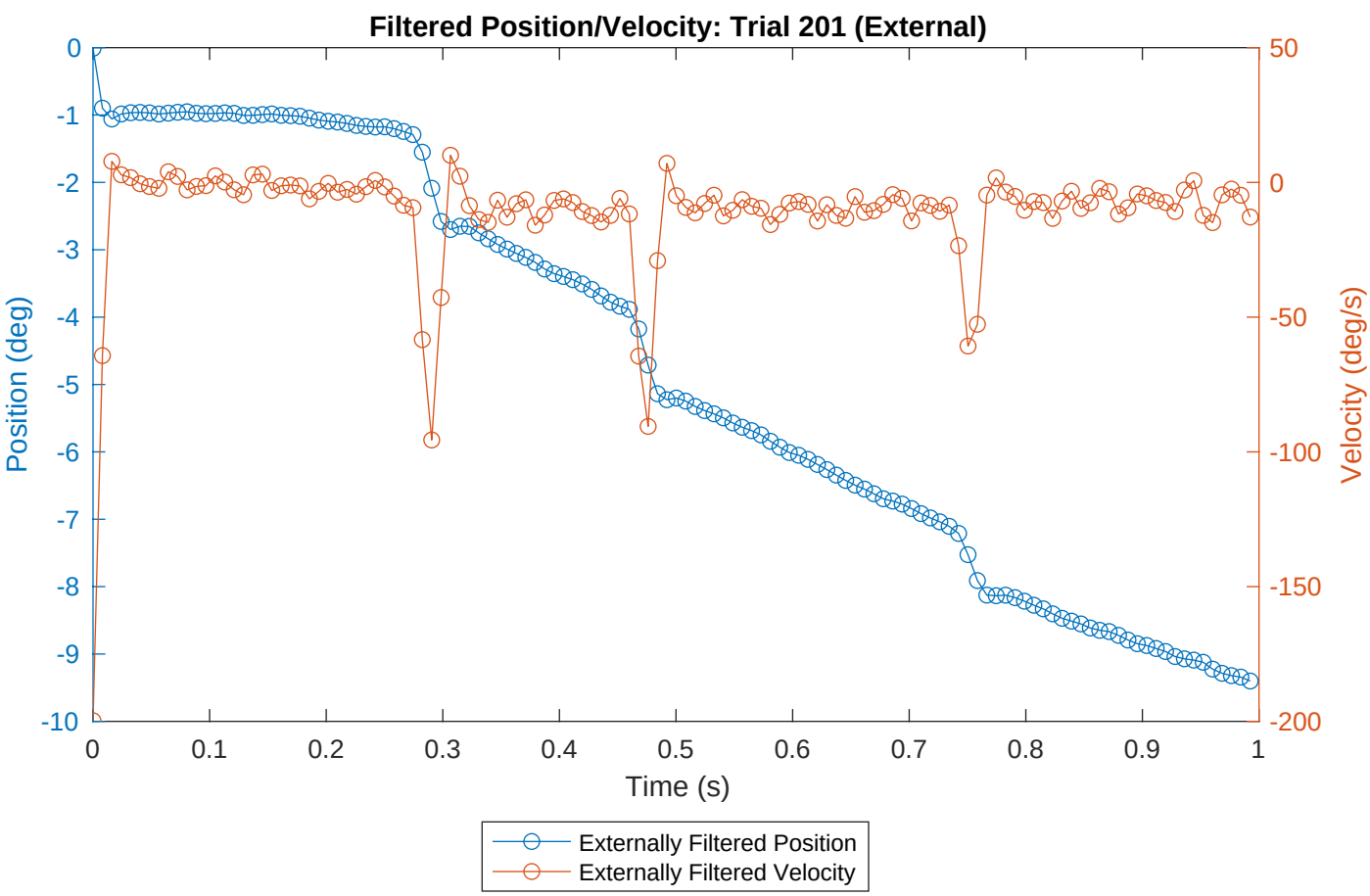

Position (deg)
Time (s)
0
-1
-2
-3
-4
-5
-6
-7
-8
-9
0
0.1
0.2
0.3
0.4
0.5
0.6
0.7
0.8
0.9
1

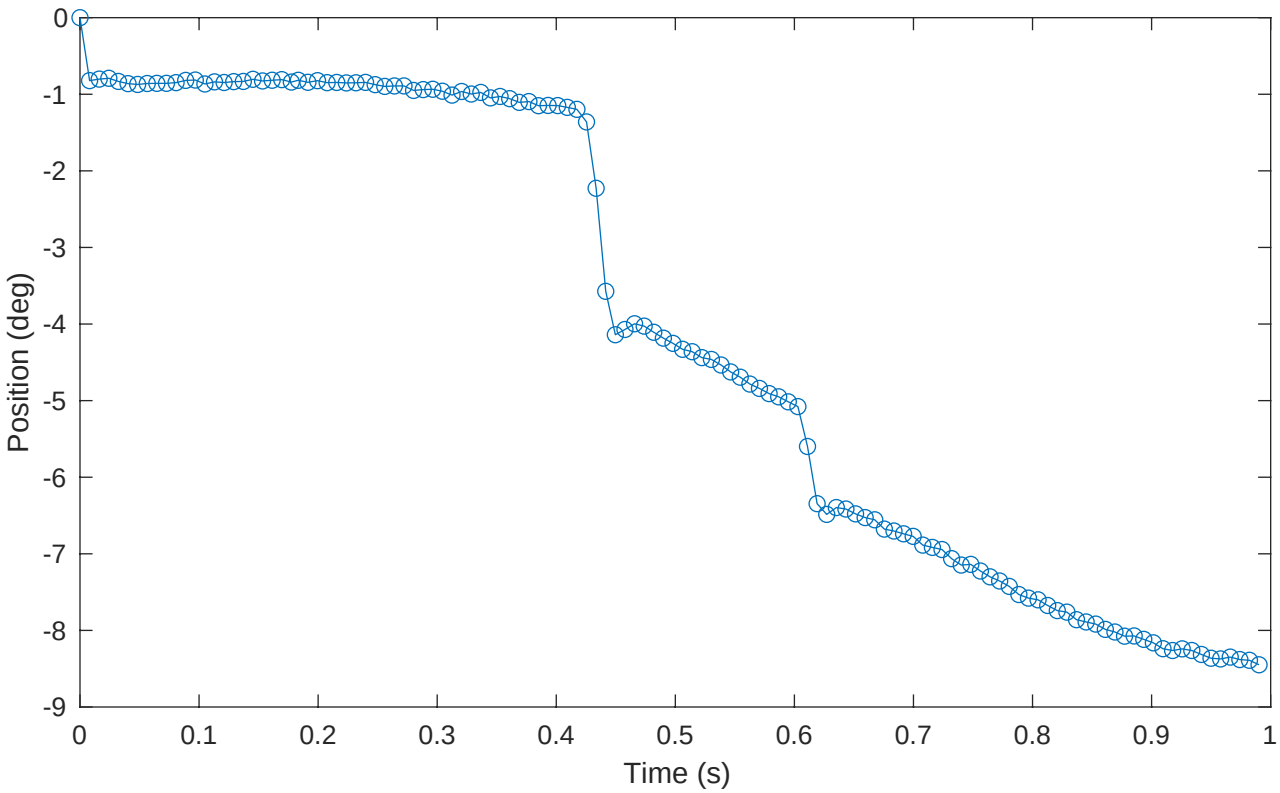

Filtered Position/Velocity: Trial 199 (External)
Position (deg)
Velocity (deg/s)
Time (s)
0
-1
-2
-3
-4
-5
-6
-7
-8
-9
50
0
-50
-100
-150
-200
-250
0
0.1
0.2
0.3
0.4
0.5
0.6
0.7
0.8
0.9
1
Externally Filtered Position
Externally Filtered Velocity

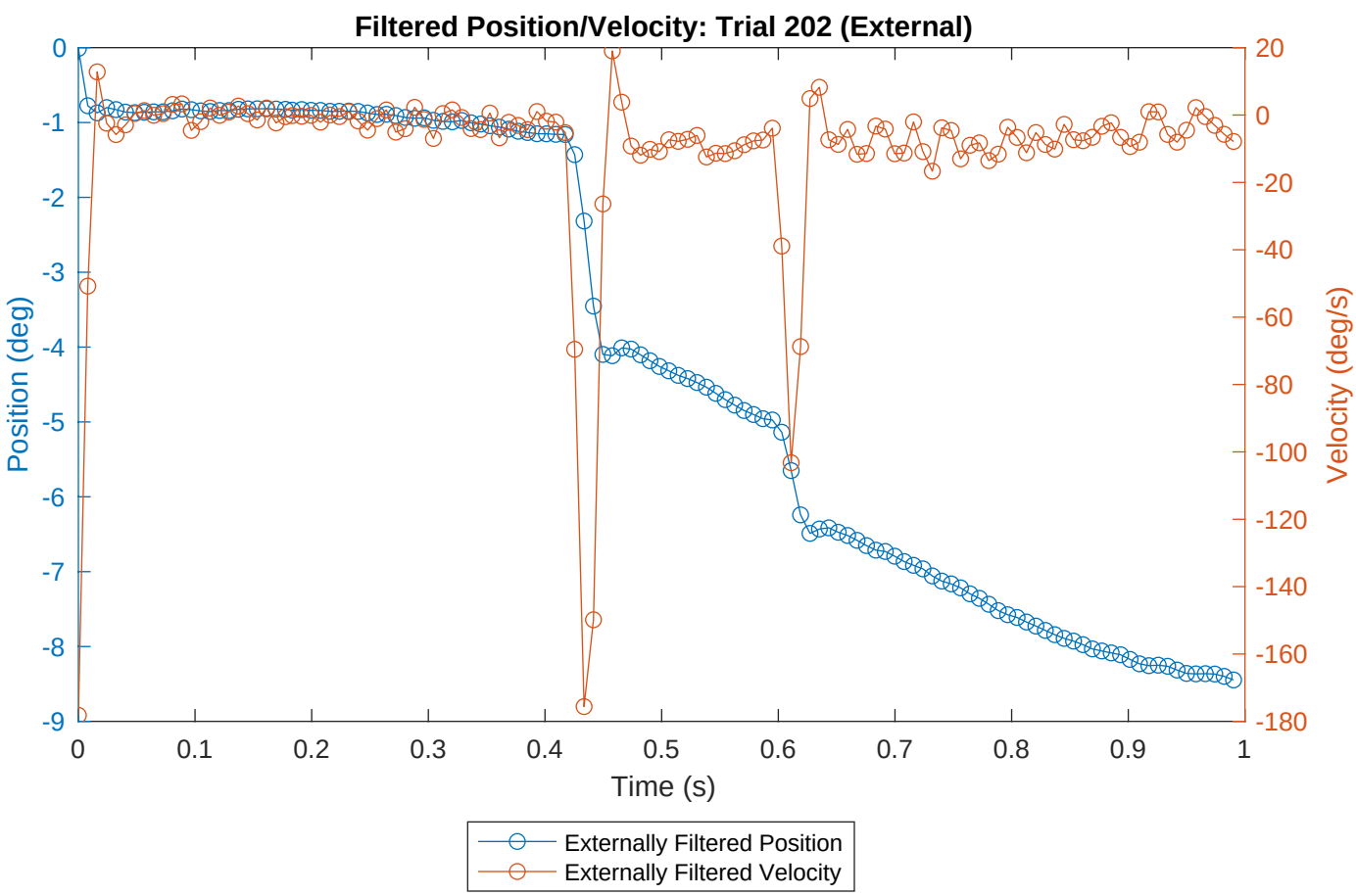

Position (deg)
Time (s)
0
-2
-4
-6
-8
-10
-12
0
0.1
0.2
0.3
0.4
0.5
0.6
0.7
0.8
0.9
1

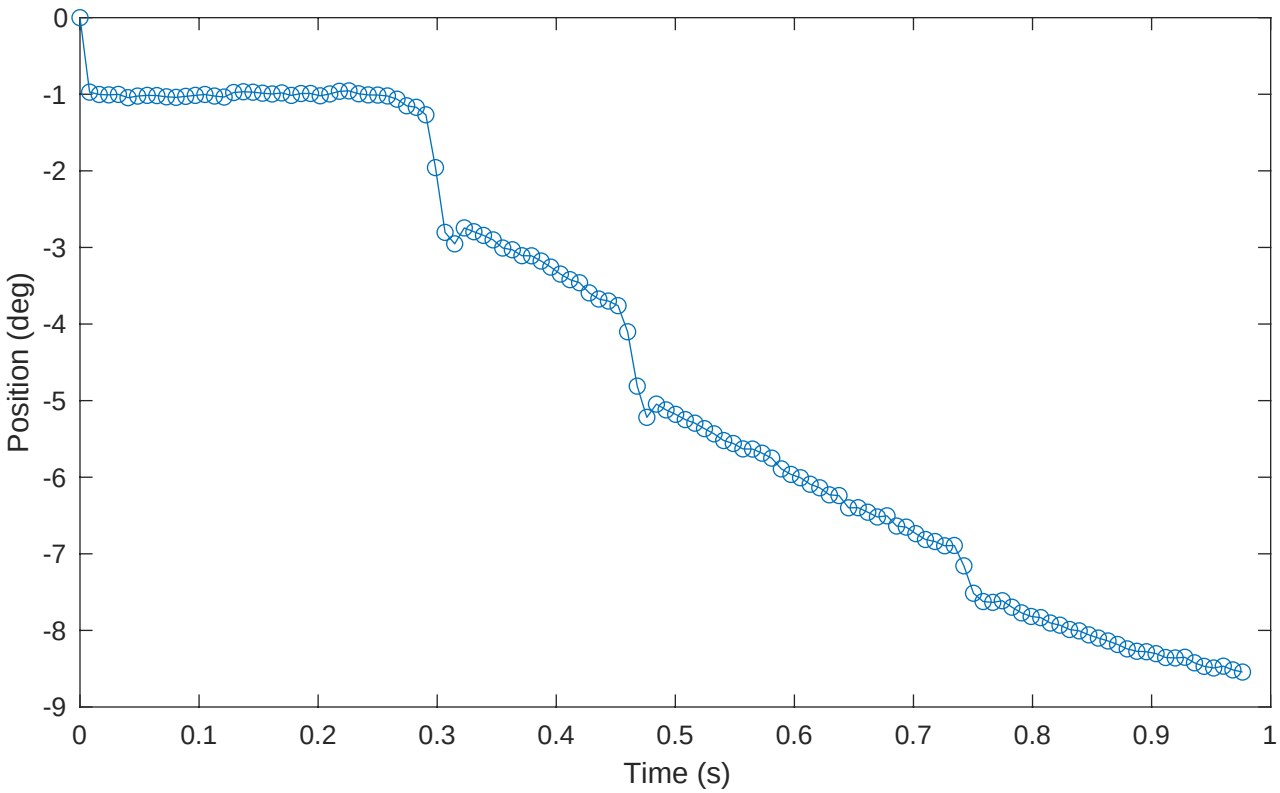

Filtered Position/Velocity: Trial 200 (External)
Position (deg)
Velocity (deg/s)
Time (s)
0
-2
-4
-6
-8
-10
-12
100
50
0
-50
-100
-150
-200
-250
-300
0
0.1
0.2
0.3
0.4
0.5
0.6
0.7
0.8
0.9
1
Externally Filtered Position
Externally Filtered Velocity

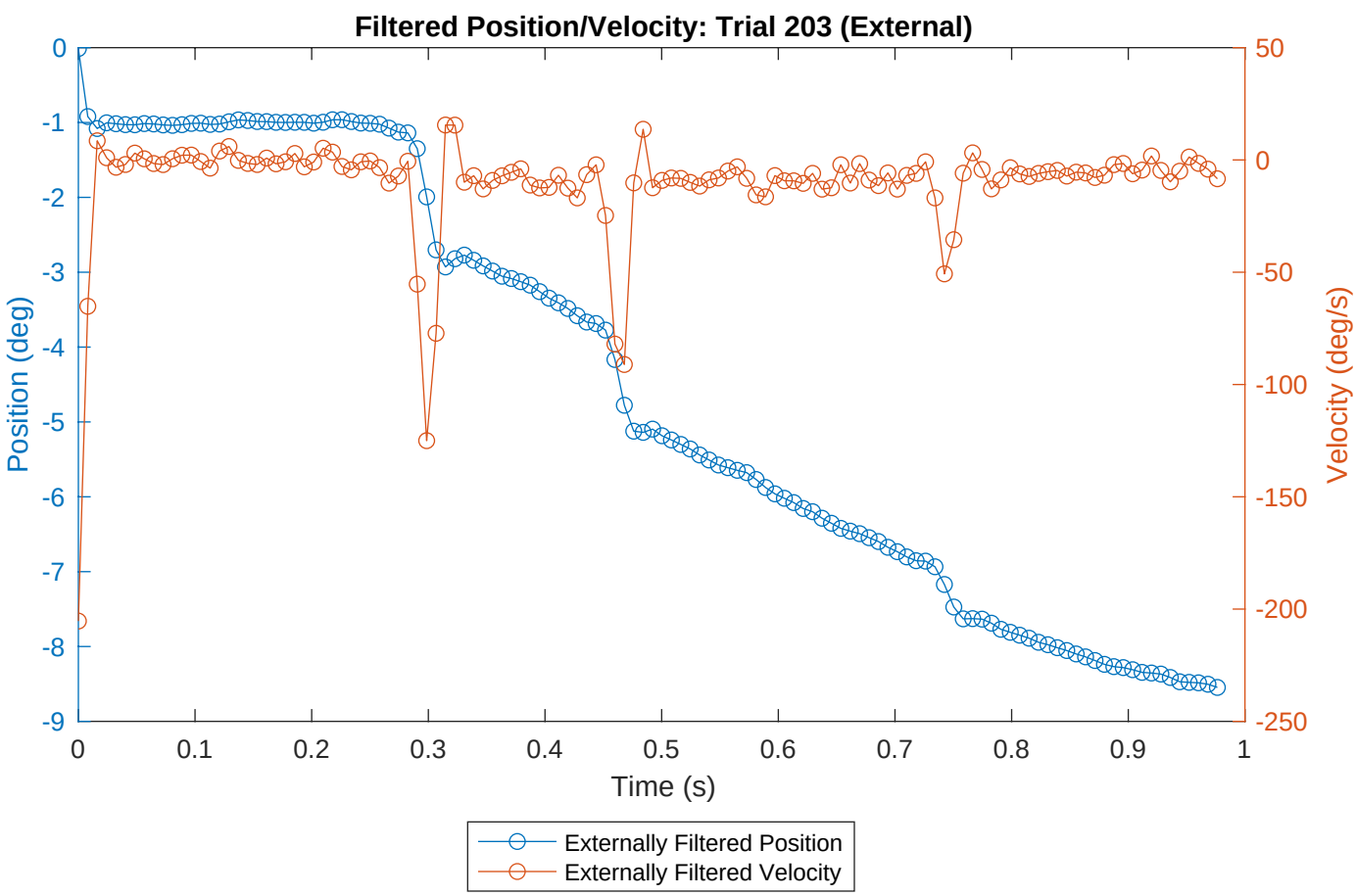

Position (deg)
Time (s)
0
-1
-2
-3
-4
-5
-6
-7
-8
-9
-10
0
0.1
0.2
0.3
0.4
0.5
0.6
0.7
0.8
0.9
1

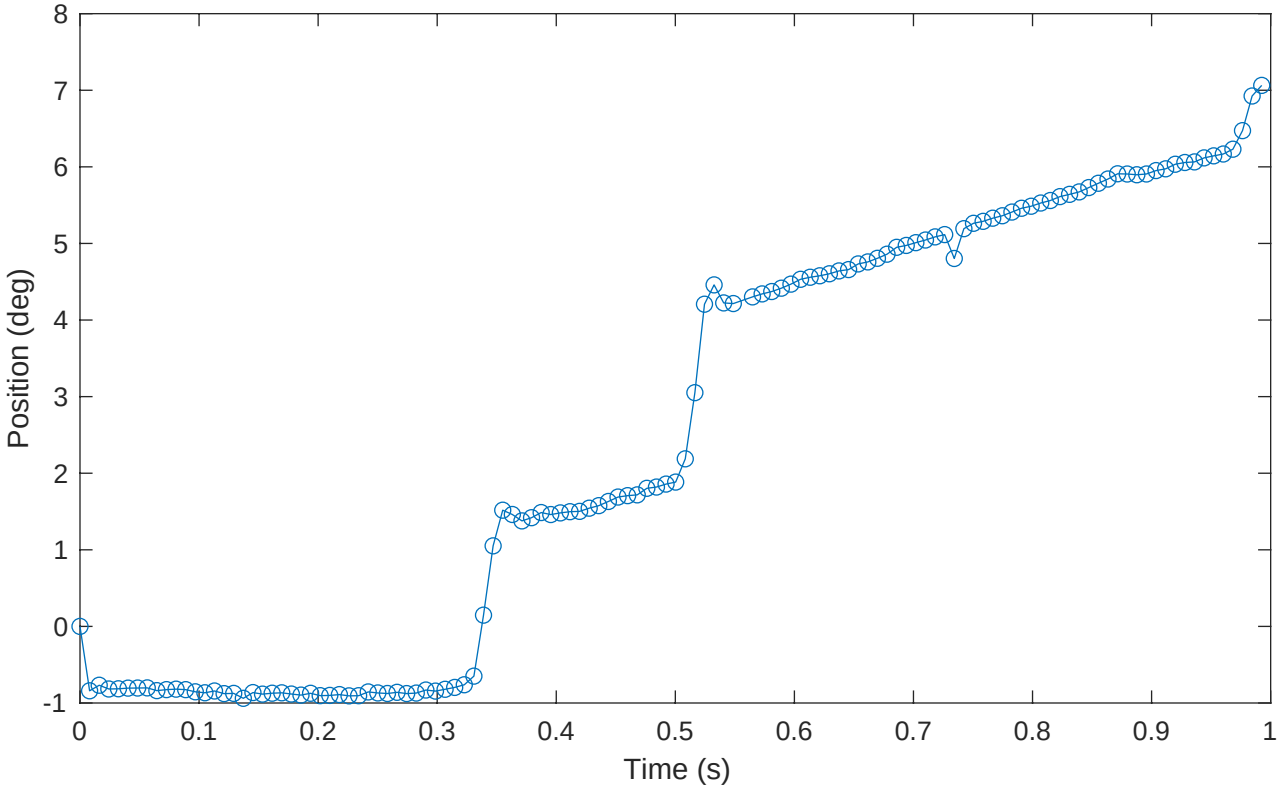

Filtered Position/Velocity: Trial 201 (External)
Position (deg)
Velocity (deg/s)
Time (s)
0
-1
-2
-3
-4
-5
-6
-7
-8
-9
-10
50
0
-50
-100
-150
-200
0
0.1
0.2
0.3
0.4
0.5
0.6
0.7
0.8
0.9
1
Externally Filtered Position
Externally Filtered Velocity

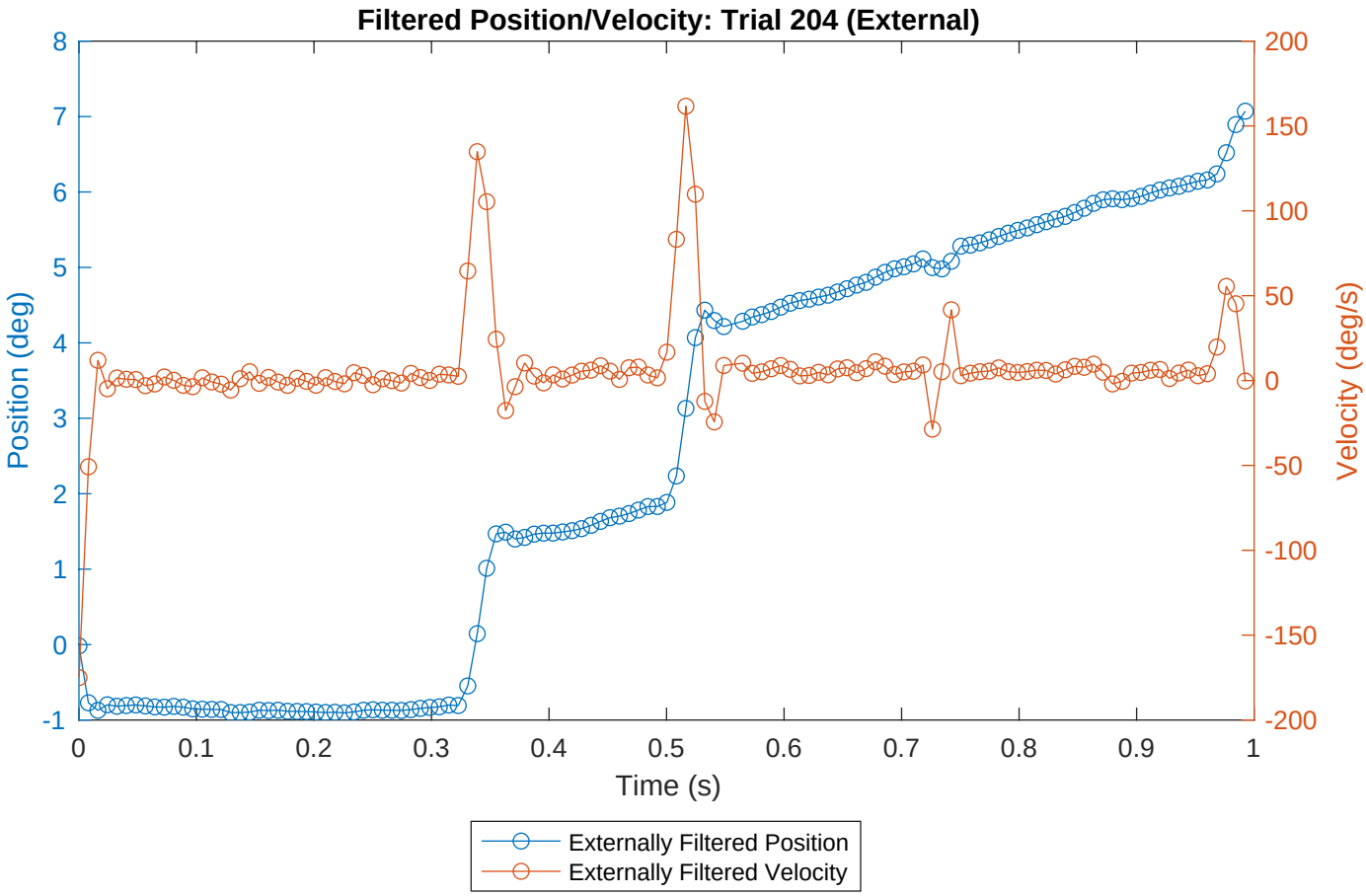

Position (deg)
Time (s)

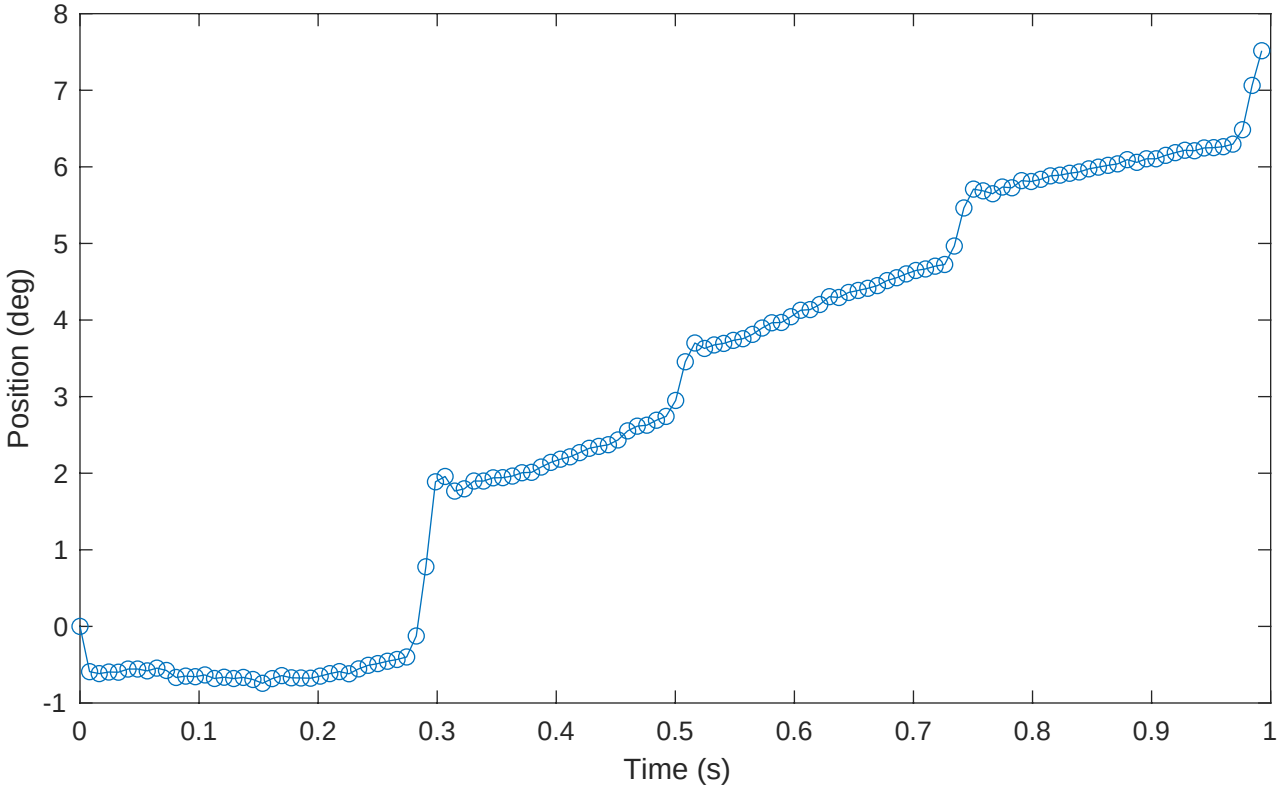

Filtered Position/Velocity: Trial 202 (External)
Position (deg)
Velocity (deg/s)
Time (s)
Externally Filtered Position
Externally Filtered Velocity

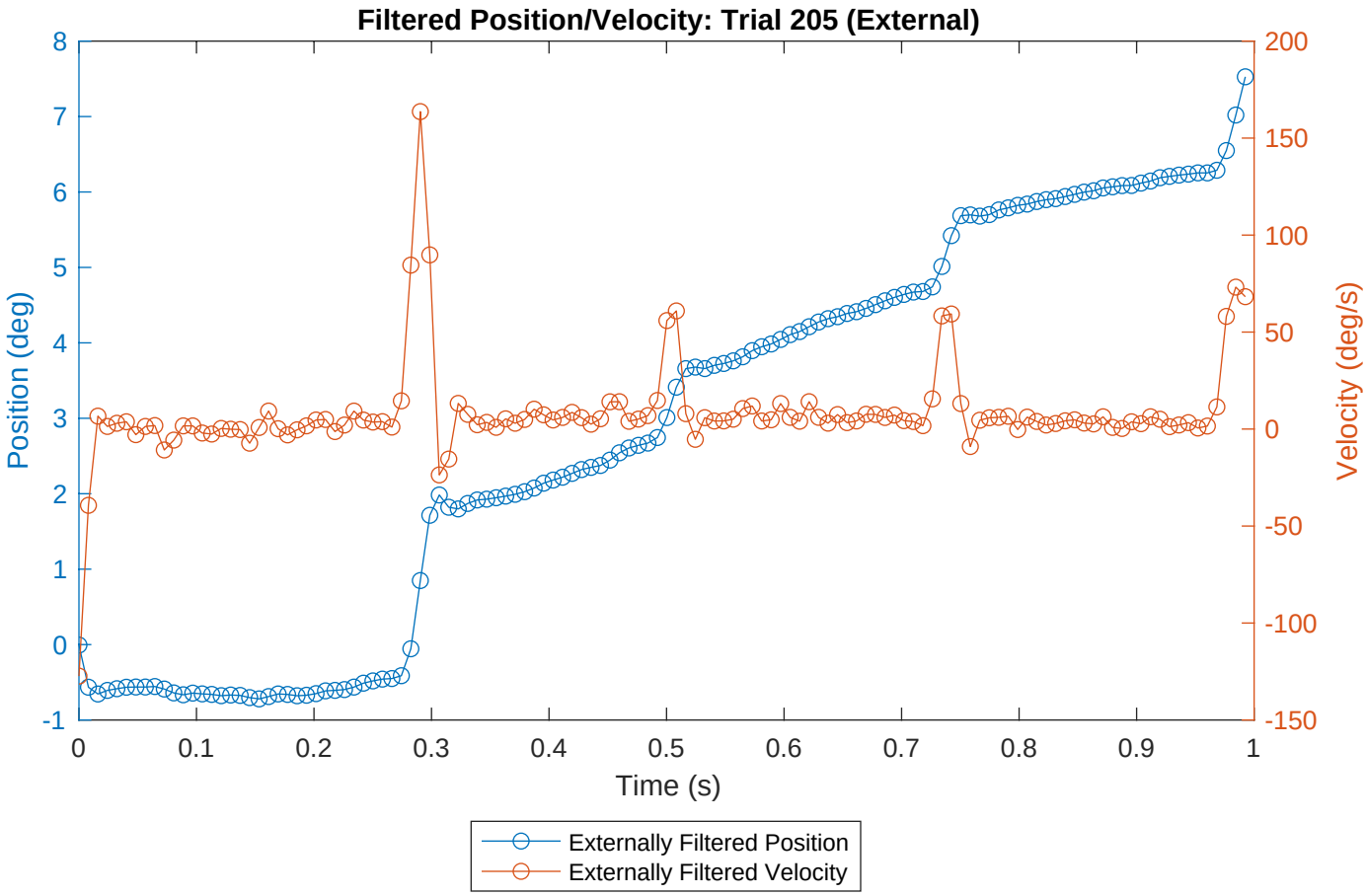

Position (deg)
Time (s)

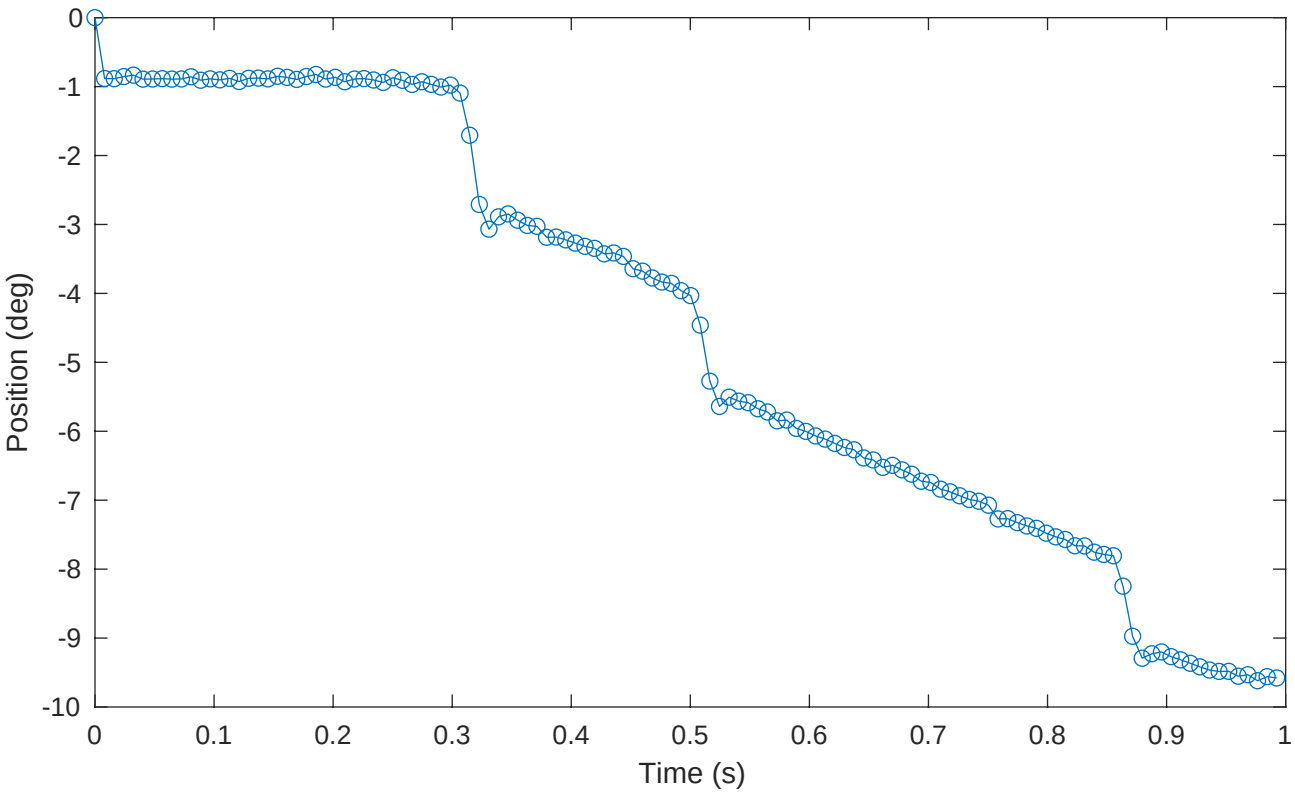

Filtered Position/Velocity: Trial 203 (External)
Position (deg)
Velocity (deg/s)
Time (s)
Externally Filtered Position
Externally Filtered Velocity

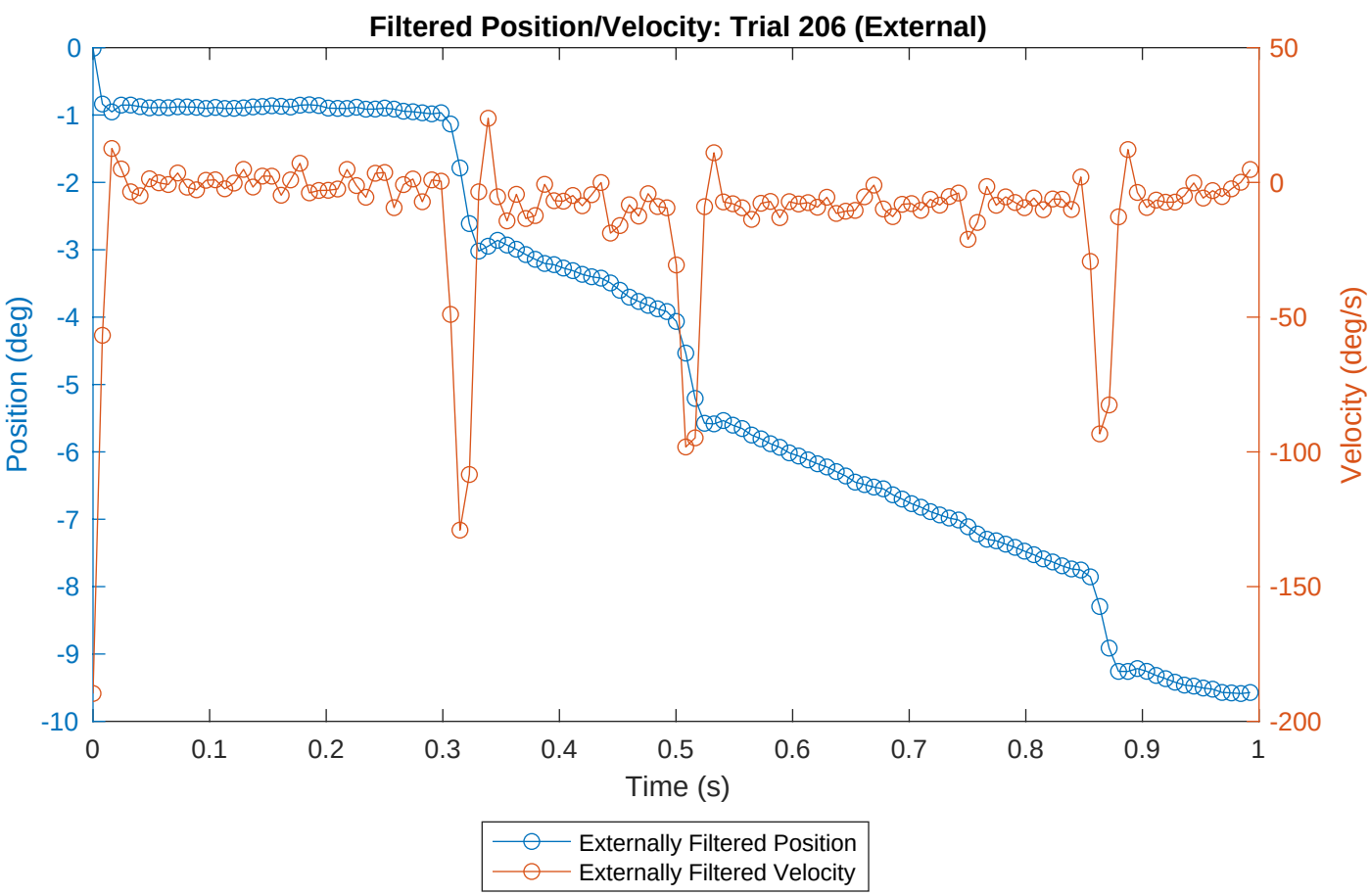

Position (deg)
Time (s)

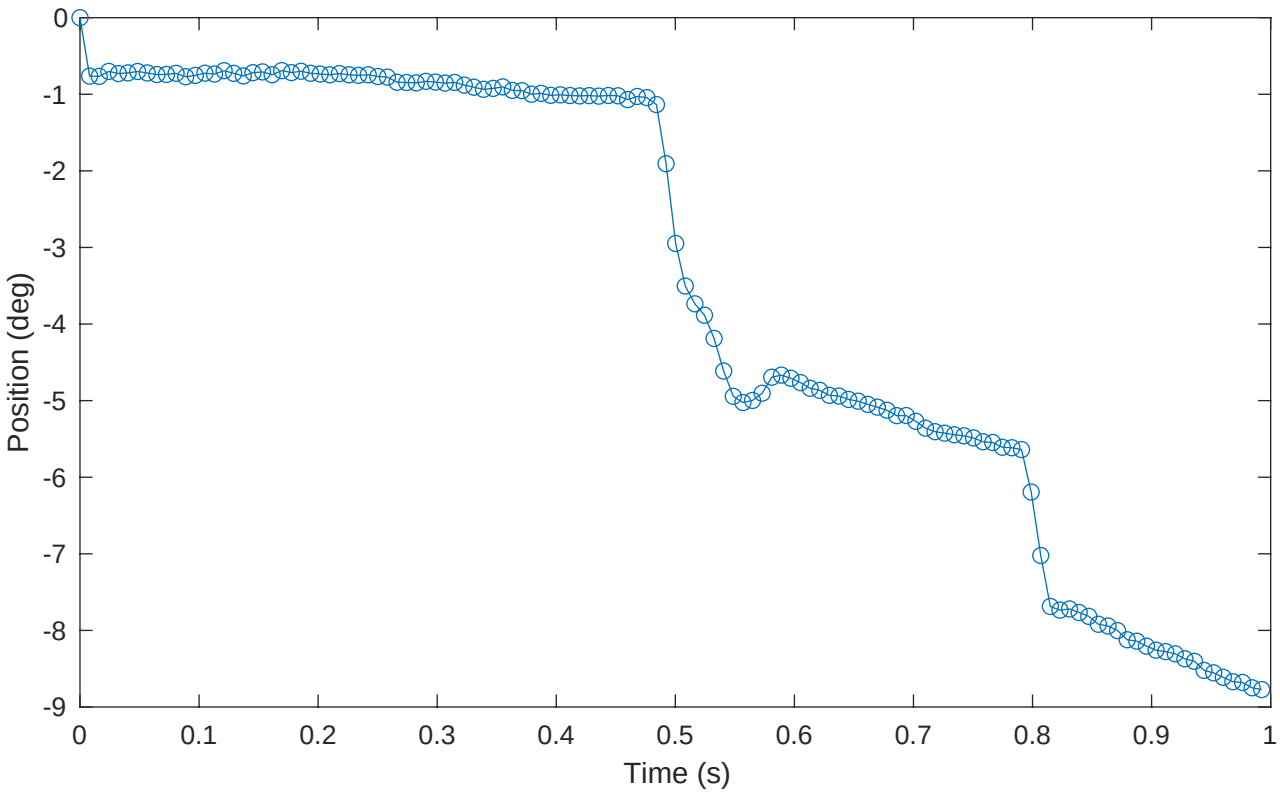

Filtered Position/Velocity: Trial 204 (External)
Position (deg)
Velocity (deg/s)
Time (s)
Externally Filtered Position
Externally Filtered Velocity

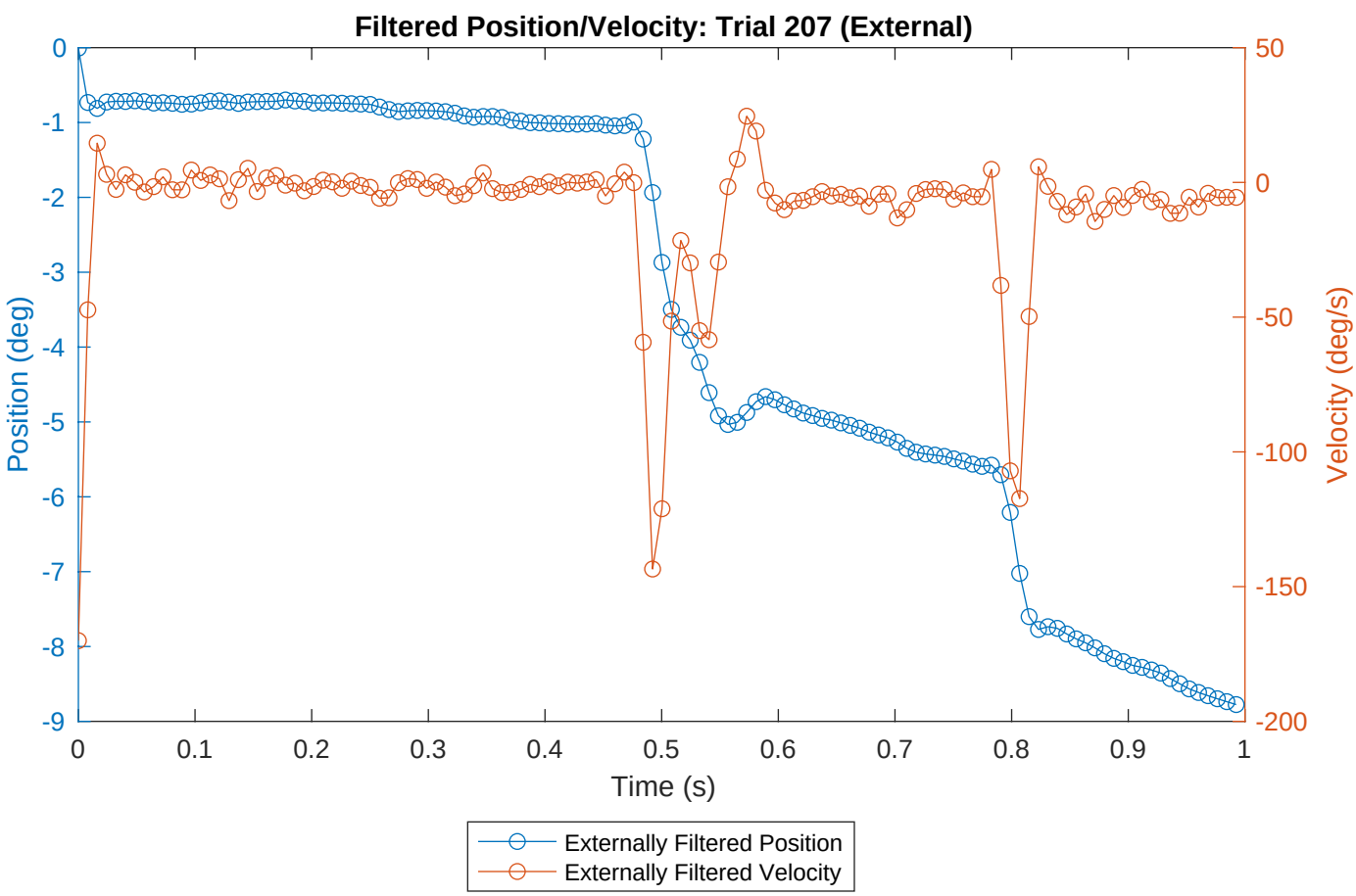

Position (deg)
Time (s)

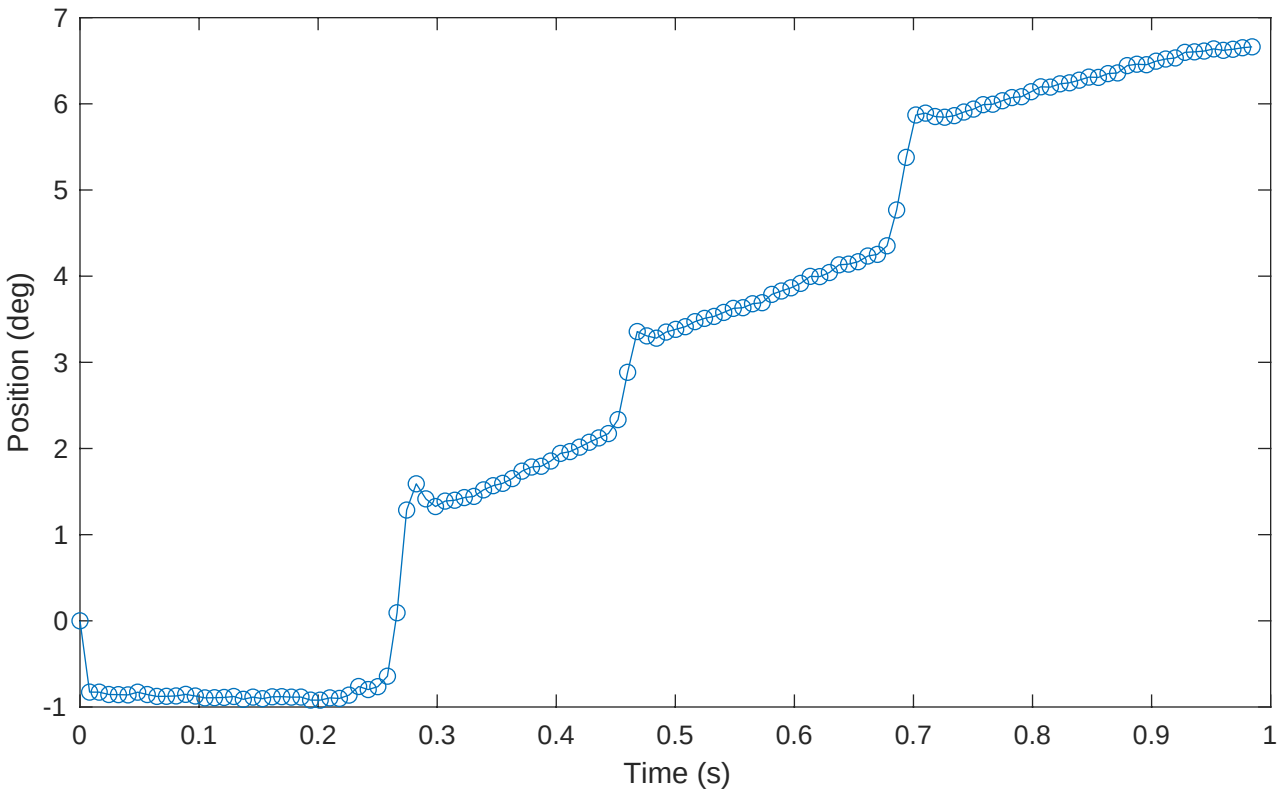

Filtered Position/Velocity: Trial 205 (External)
Position (deg)
Velocity (deg/s)
Time (s)
Externally Filtered Position
Externally Filtered Velocity

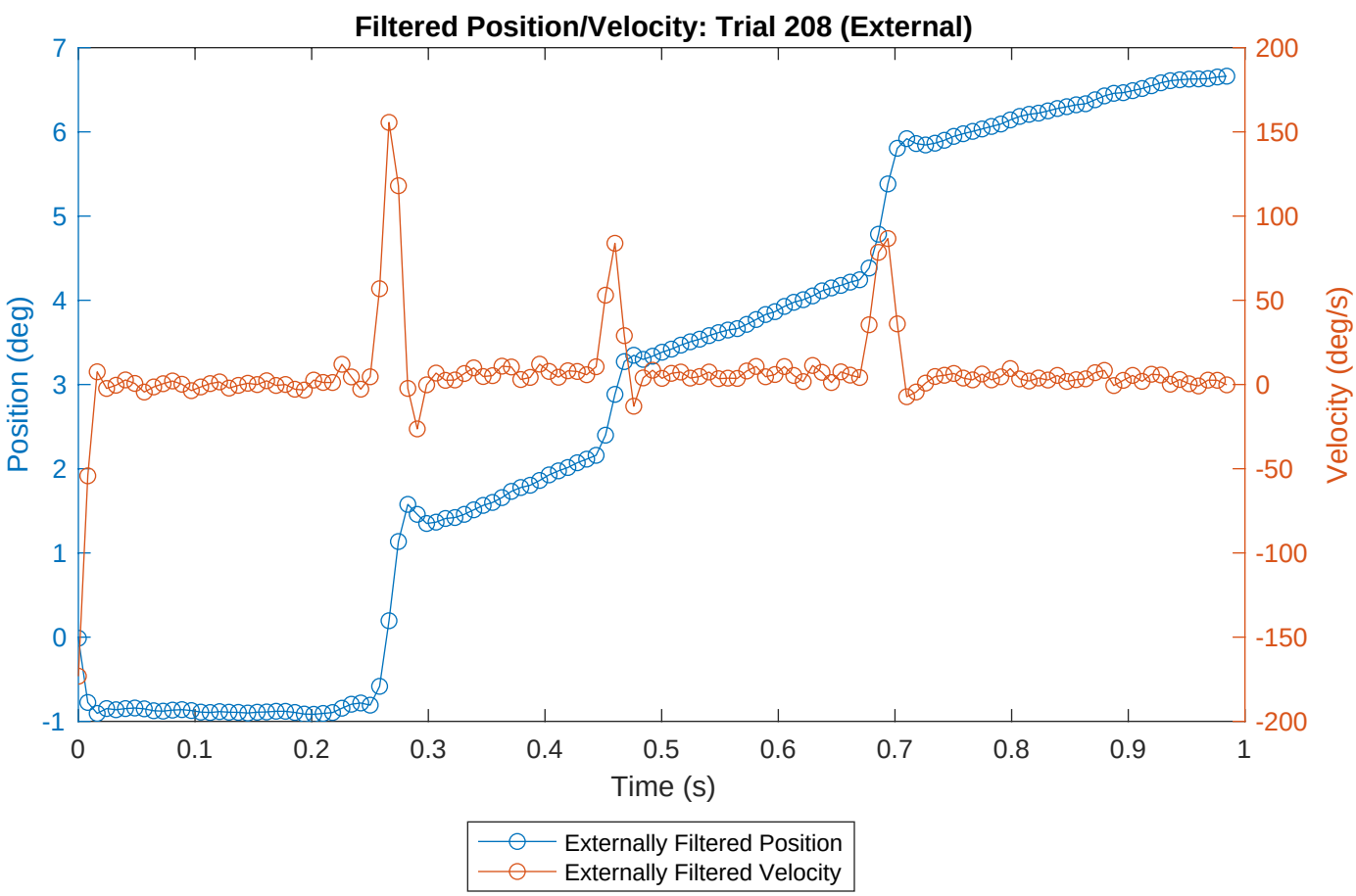

Position (deg)
Time (s)
0
-1
-2
-3
-4
-5
-6
-7
-8
-9
-10
0
0.1
0.2
0.3
0.4
0.5
0.6
0.7
0.8
0.9
1

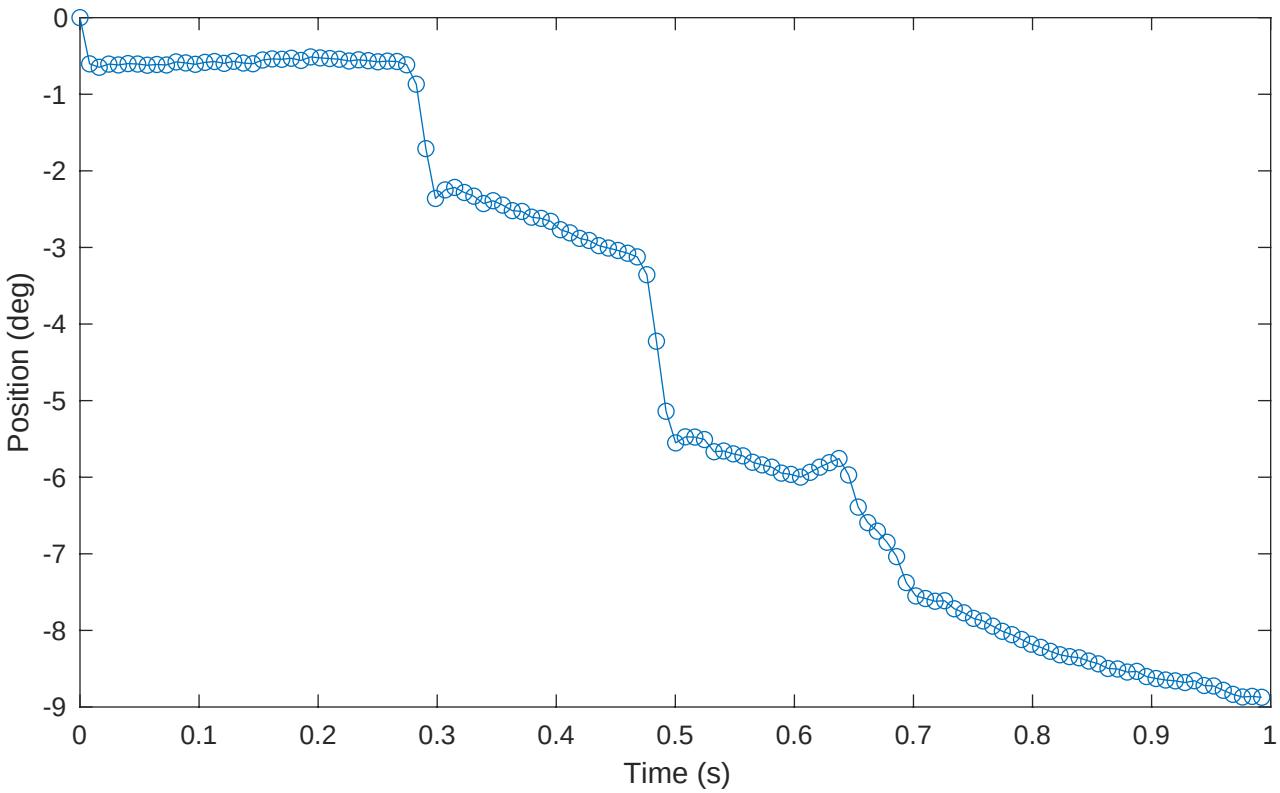

Filtered Position/Velocity: Trial 206 (External)
Position (deg)
Velocity (deg/s)
Time (s)
0
-1
-2
-3
-4
-5
-6
-7
-8
-9
-10
50
0
-50
-100
-150
-200
0
0.1
0.2
0.3
0.4
0.5
0.6
0.7
0.8
0.9
1
Externally Filtered Position
Externally Filtered Velocity

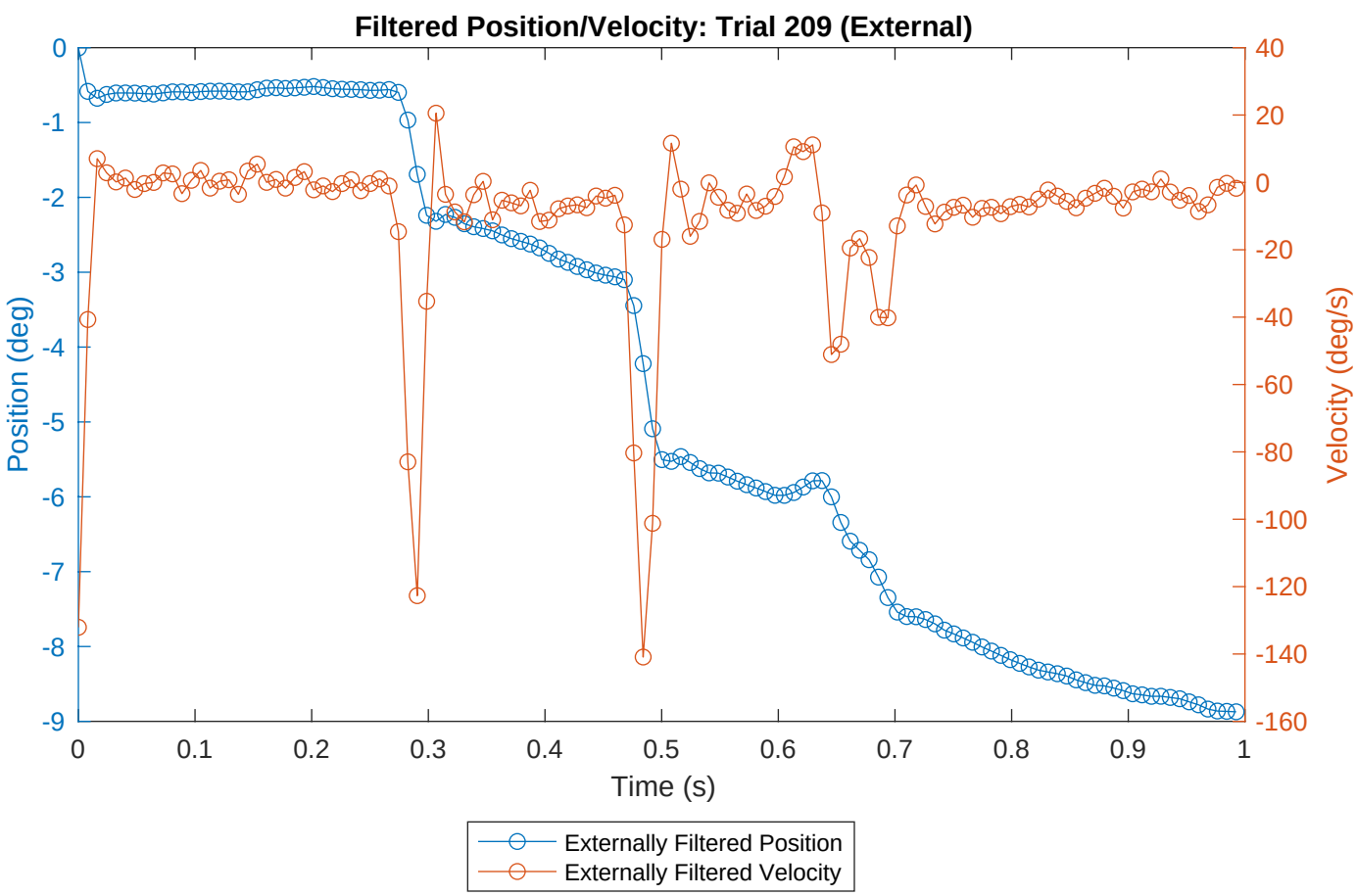

Position (deg)
Time (s)

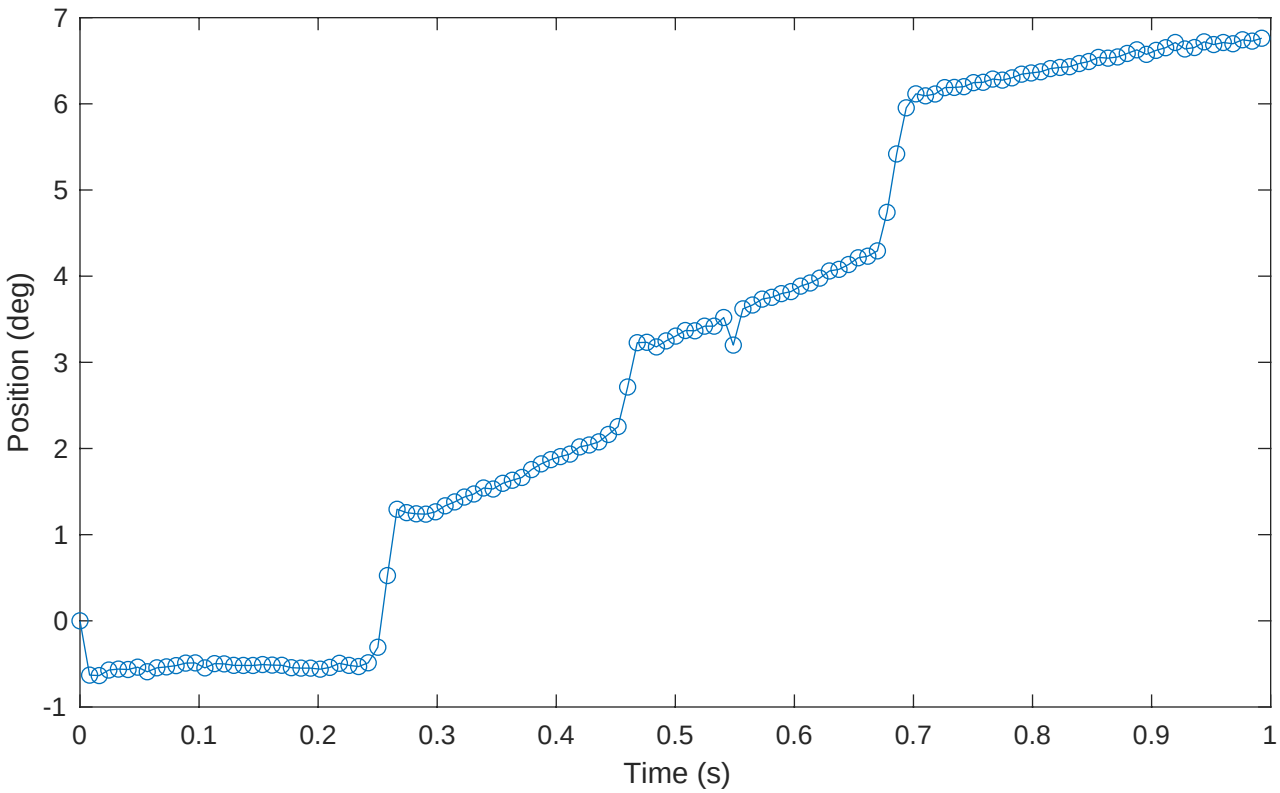

Filtered Position/Velocity: Trial 207 (External)
Position (deg)
Velocity (deg/s)
Time (s)
Externally Filtered Position
Externally Filtered Velocity

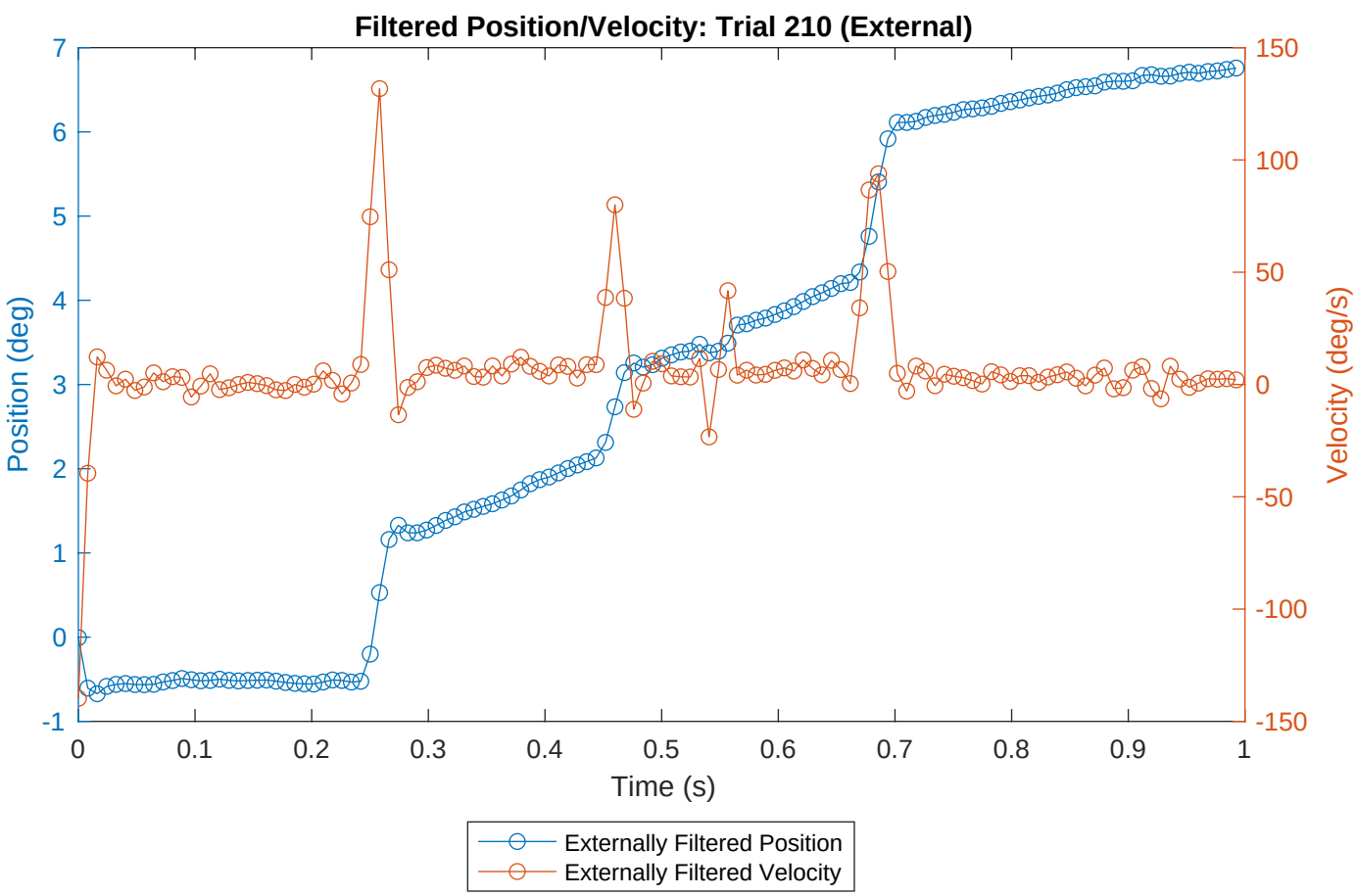

Position (deg)
Time (s)

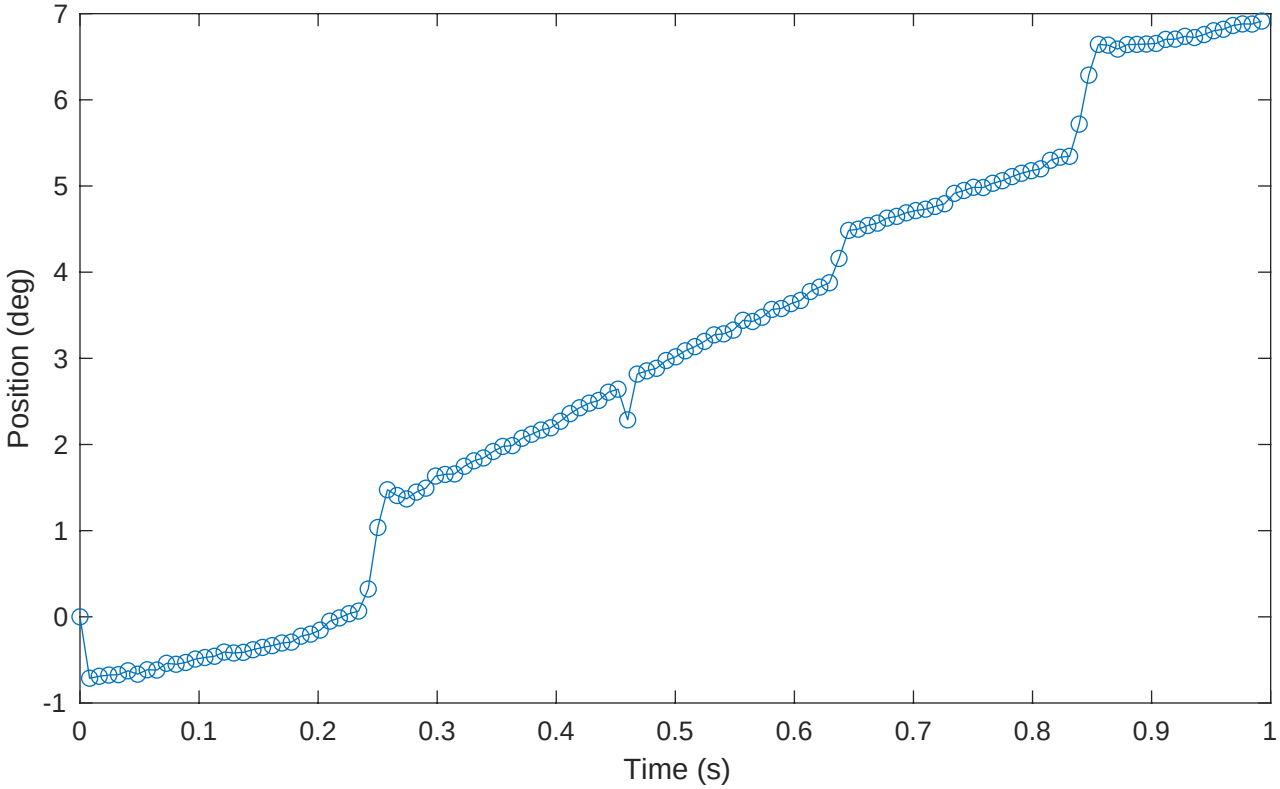

Filtered Position/Velocity: Trial 208 (External)
Position (deg)
Velocity (deg/s)
Time (s)
Externally Filtered Position
Externally Filtered Velocity

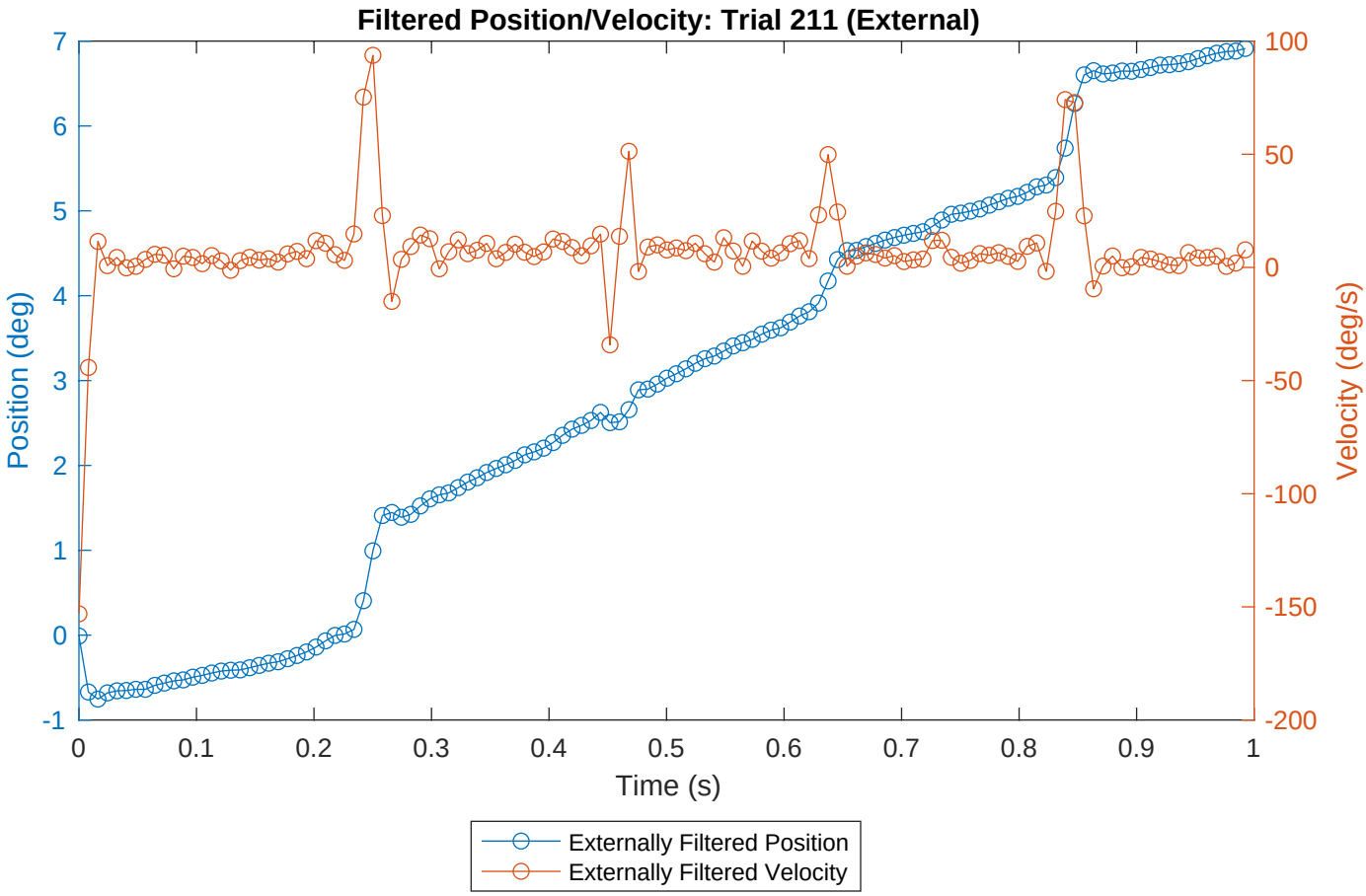

Position (deg)
Time (s)

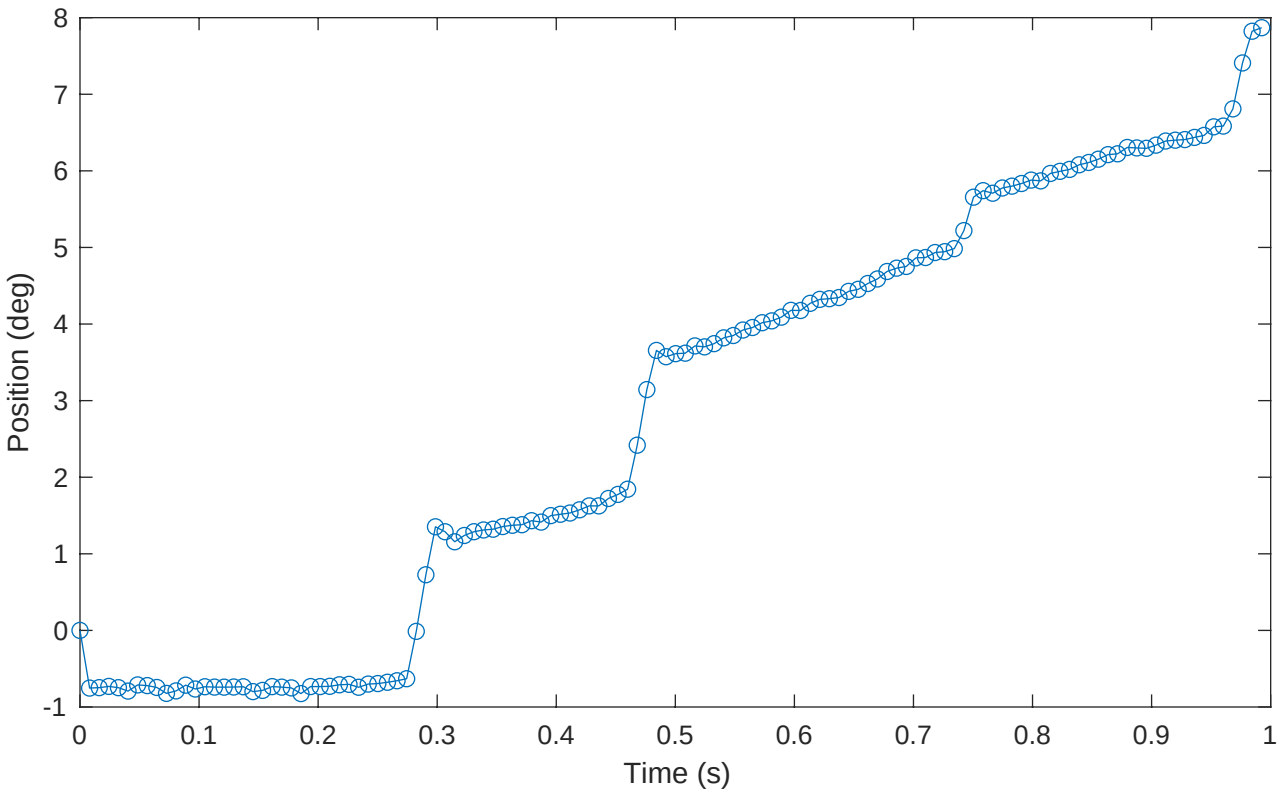

Filtered Position/Velocity: Trial 209 (External)
Position (deg)
Velocity (deg/s)
Time (s)
Externally Filtered Position
Externally Filtered Velocity

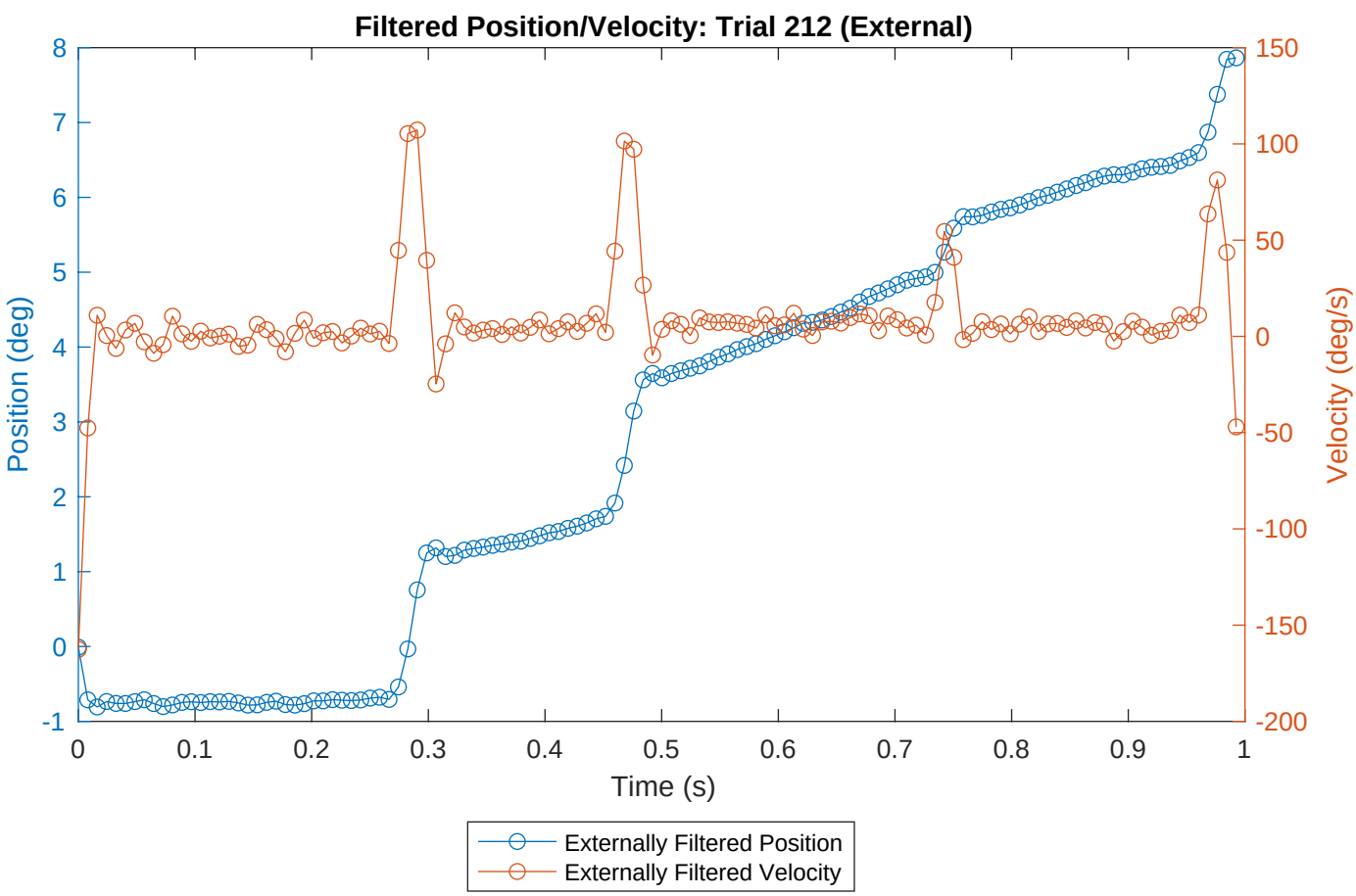

Position (deg)
Time (s)

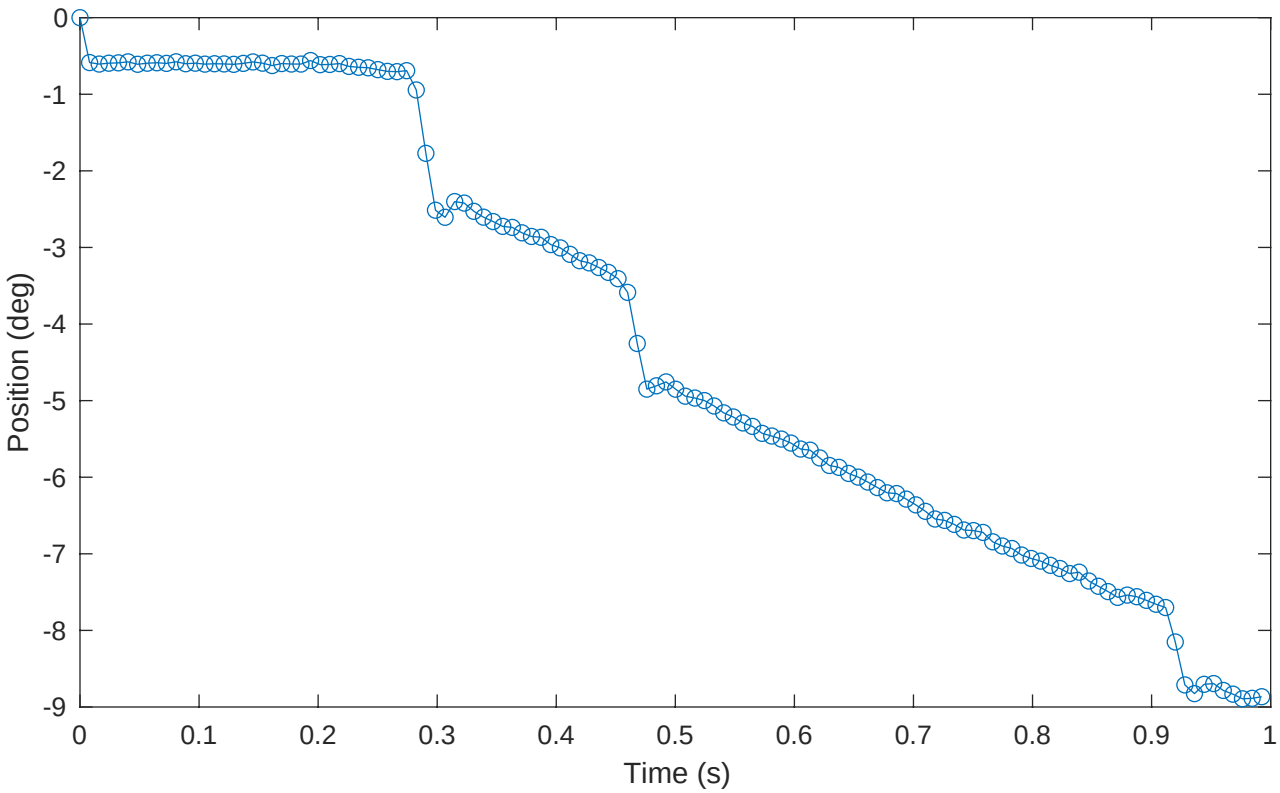

Filtered Position/Velocity: Trial 210 (External)
Position (deg)
Velocity (deg/s)
Time (s)
Externally Filtered Position
Externally Filtered Velocity

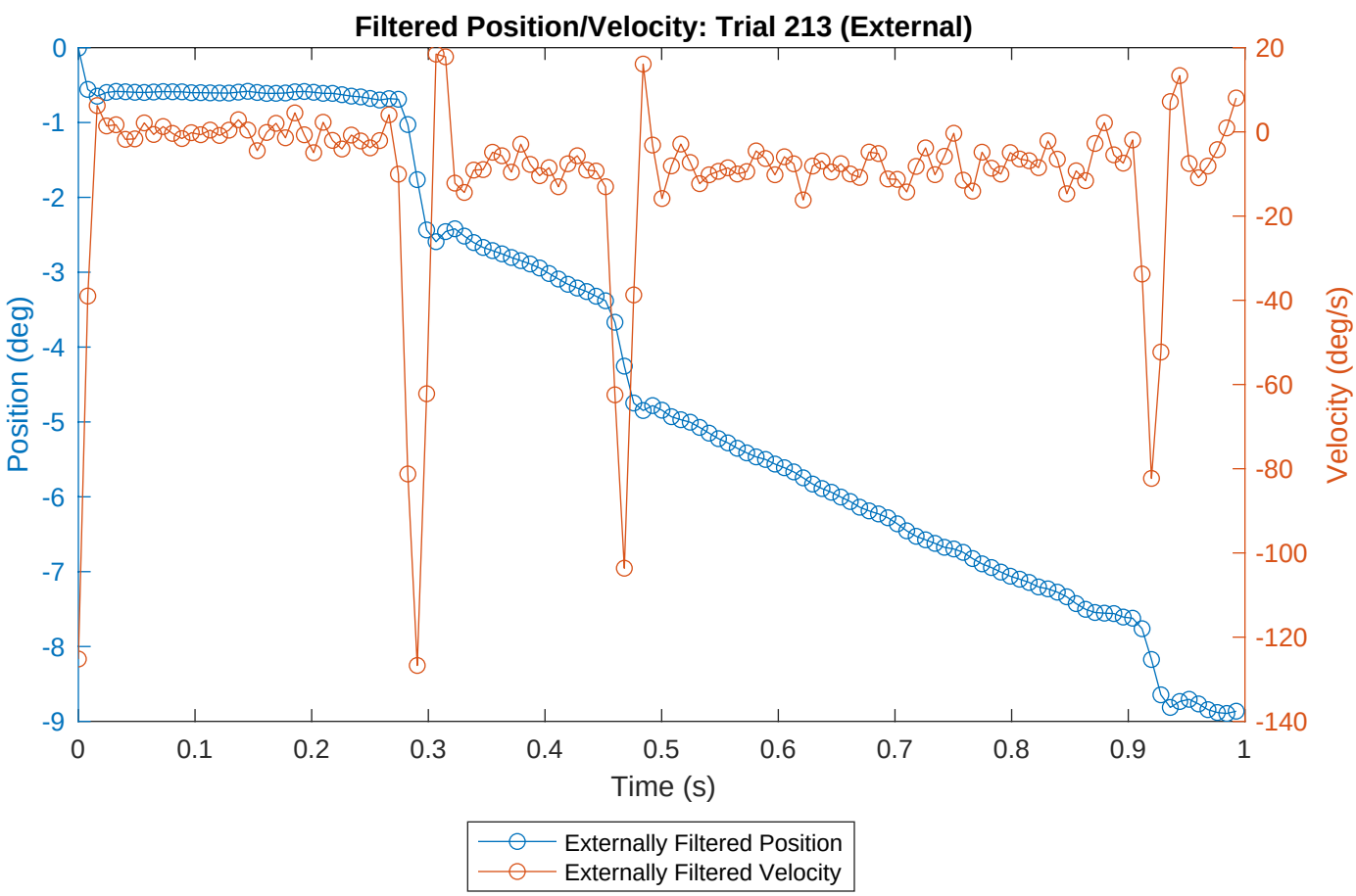

Position (deg)
Time (s)

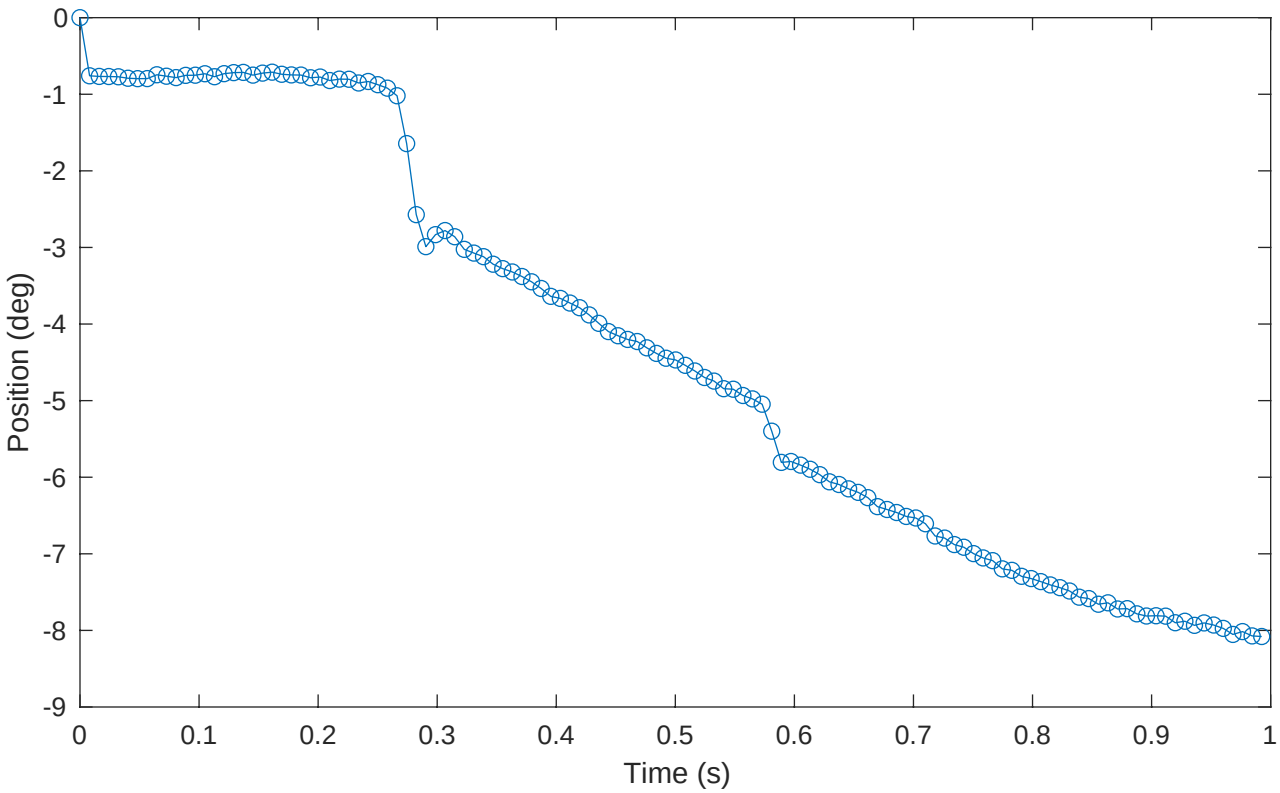

Filtered Position/Velocity: Trial 211 (External)
Position (deg)
Velocity (deg/s)
Time (s)
Externally Filtered Position
Externally Filtered Velocity

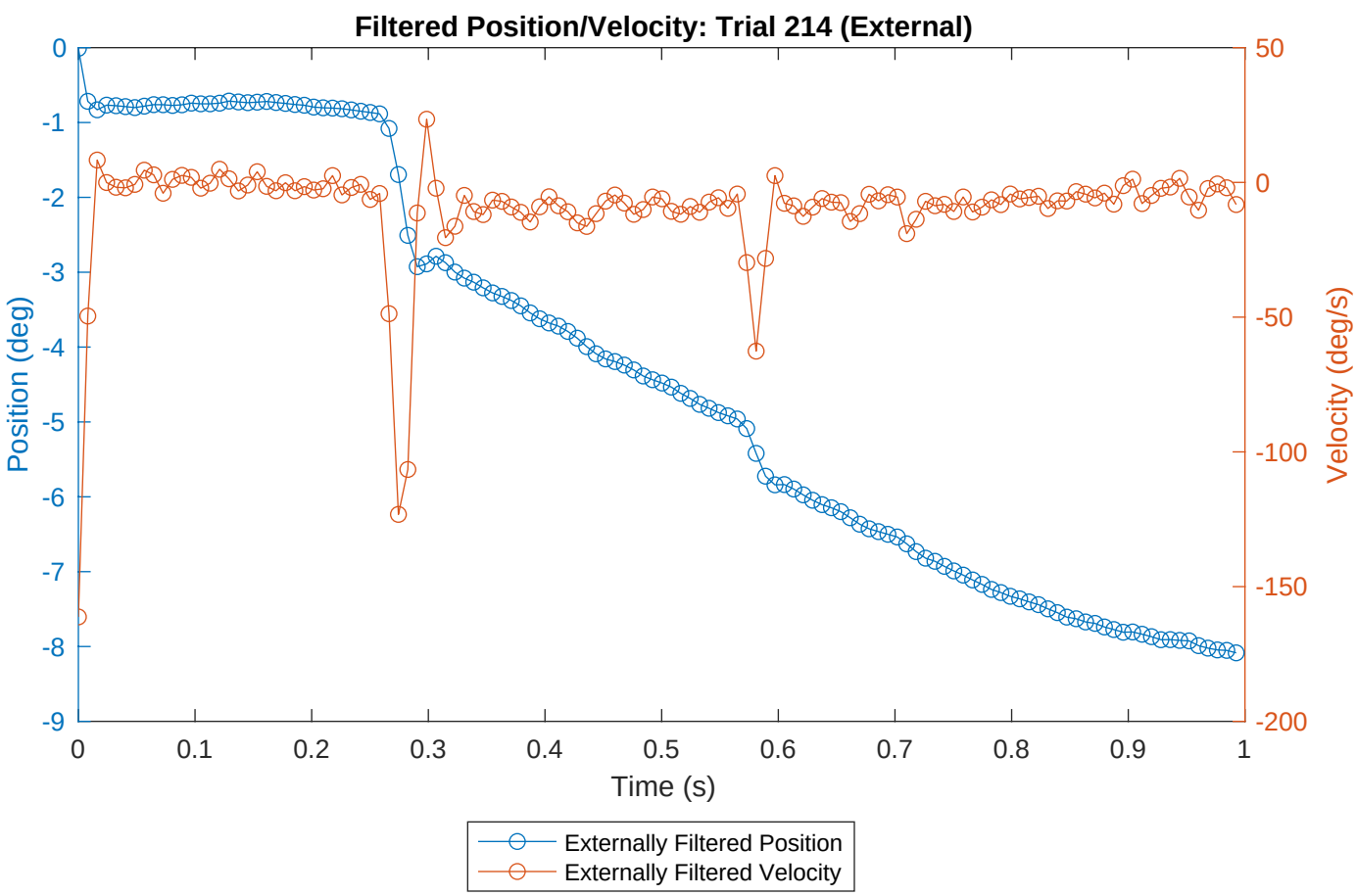

Position (deg)
Time (s)

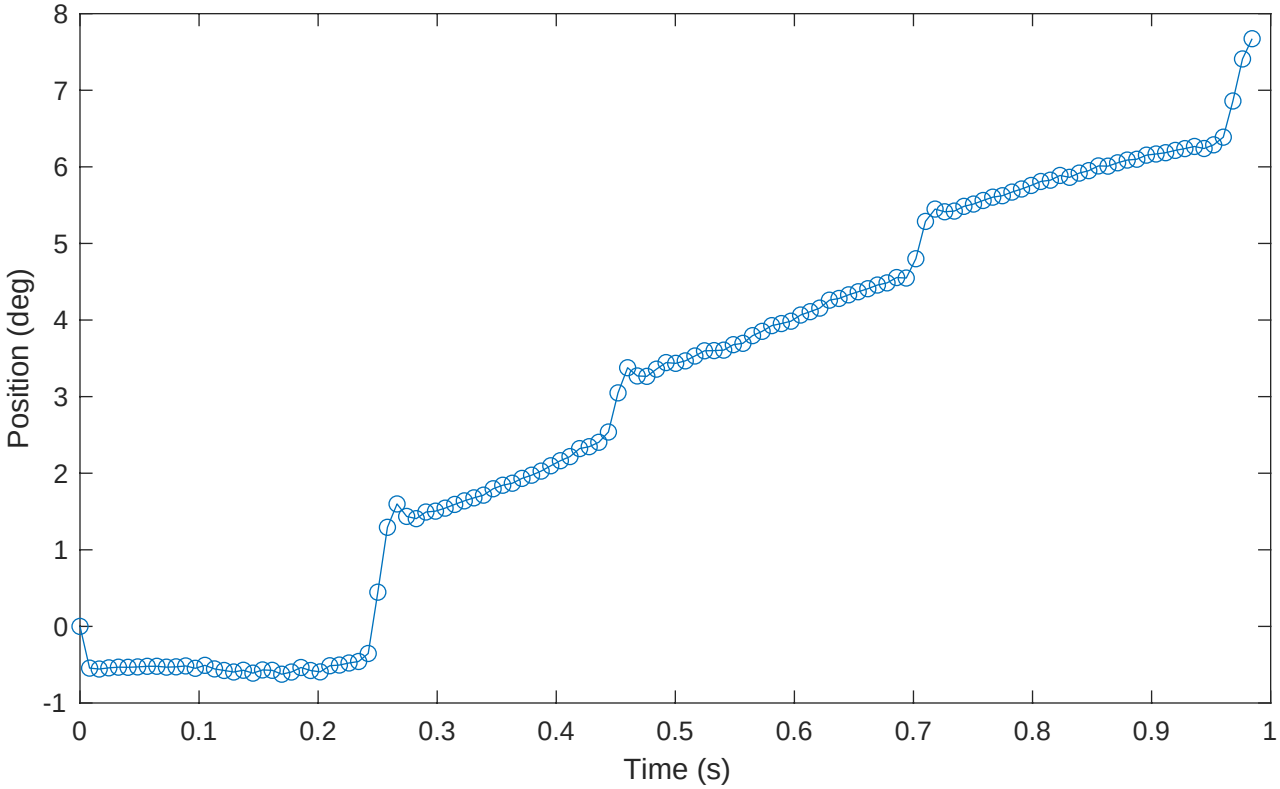

Filtered Position/Velocity: Trial 212 (External)
Position (deg)
Velocity (deg/s)
Time (s)
Externally Filtered Position
Externally Filtered Velocity

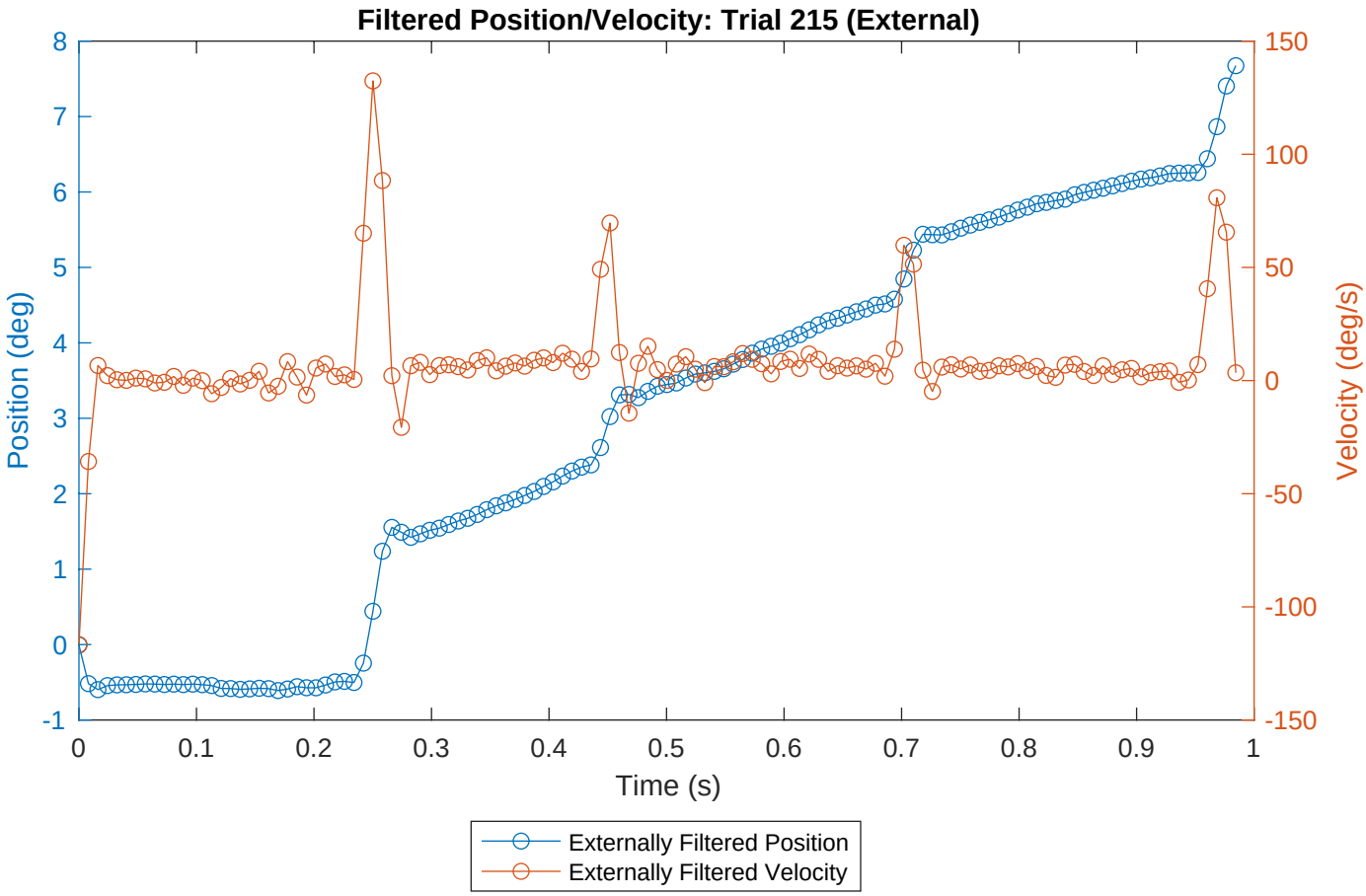

Position (deg)
Time (s)

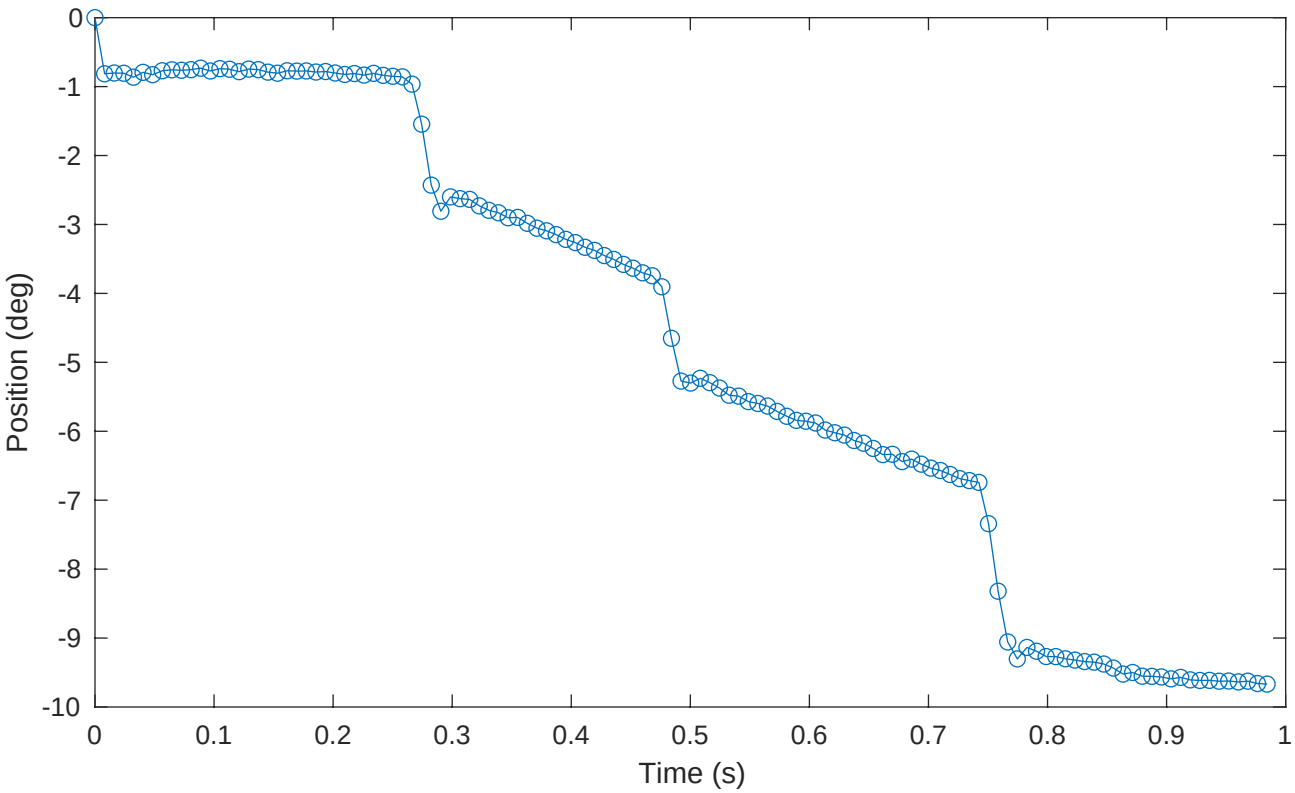

Filtered Position/Velocity: Trial 213 (External)
Position (deg)
Velocity (deg/s)
Time (s)
Externally Filtered Position
Externally Filtered Velocity

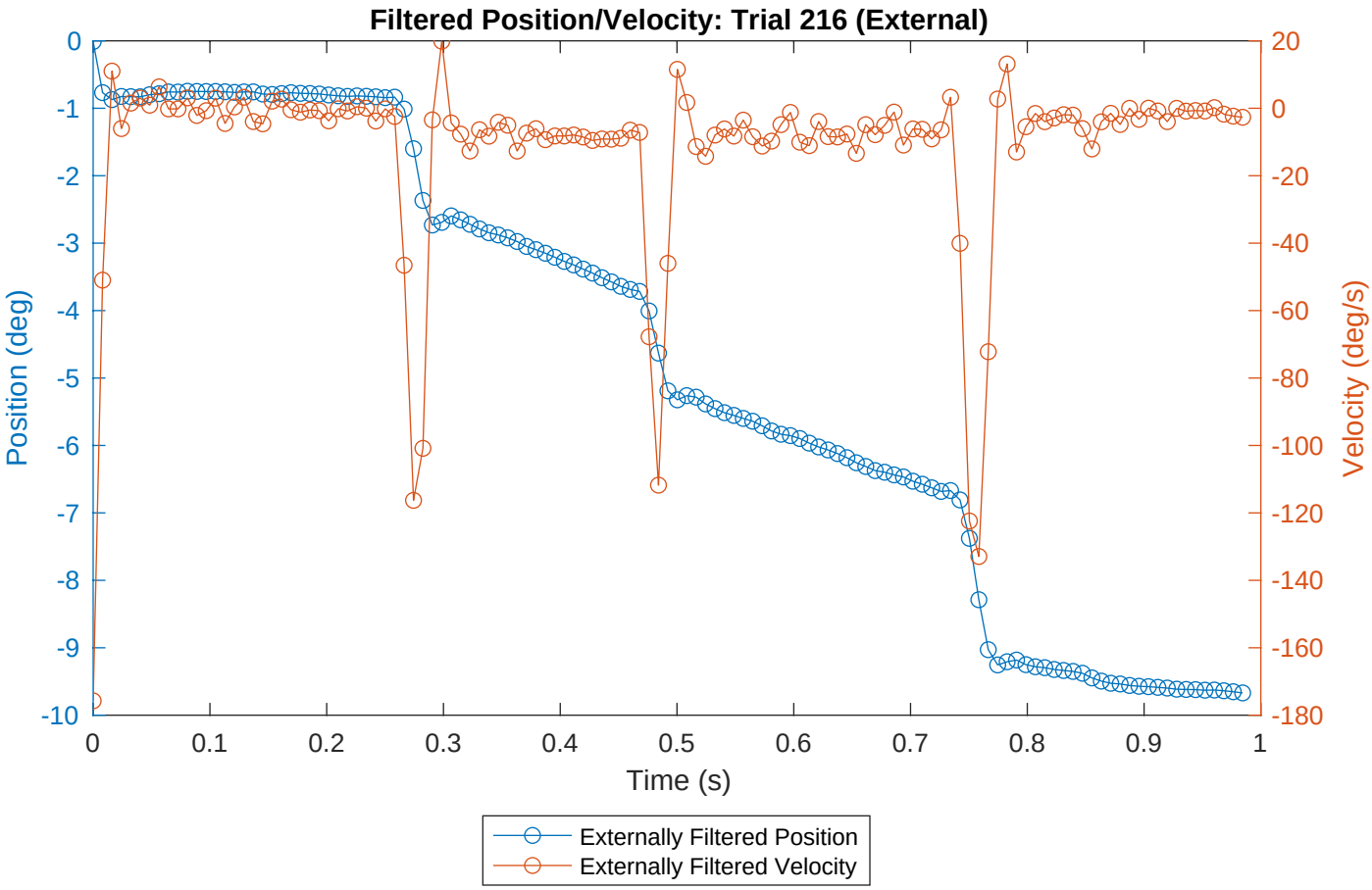

Position (deg)
Time (s)

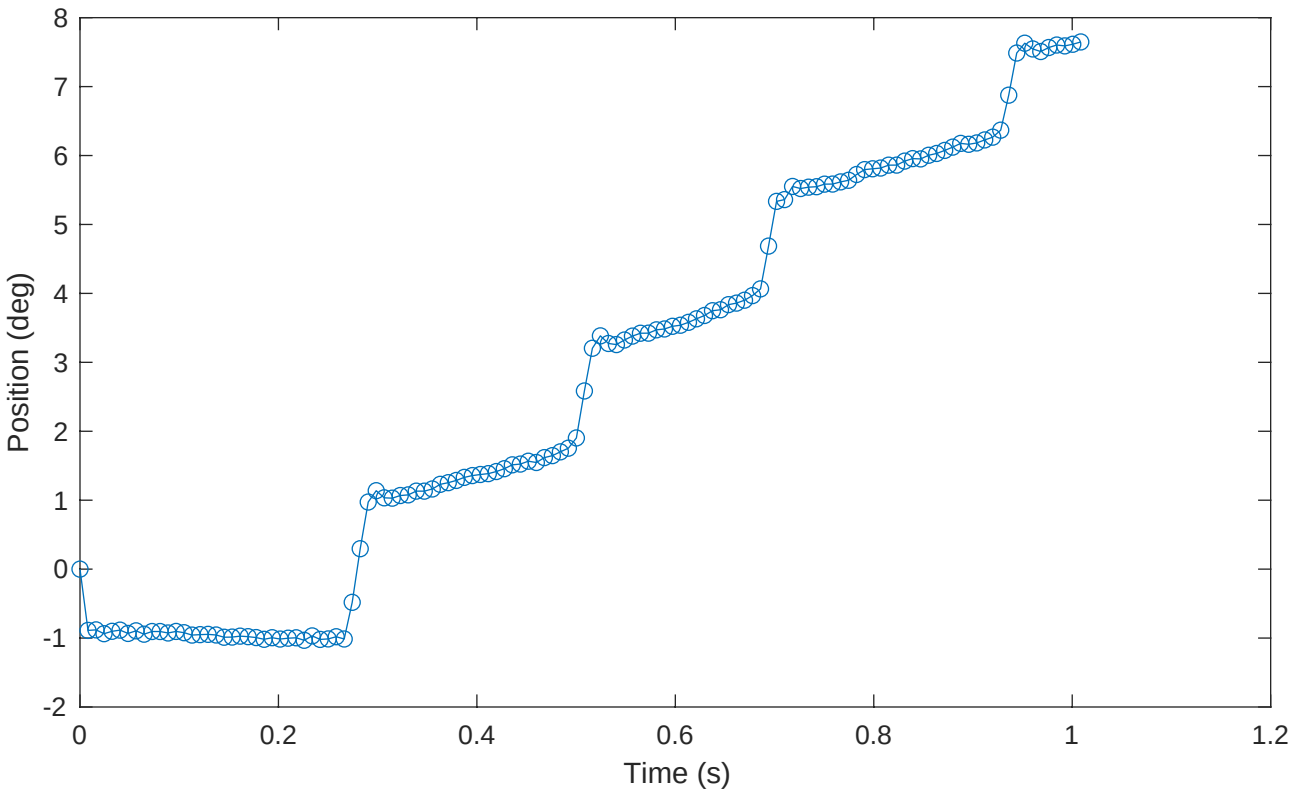

Filtered Position/Velocity: Trial 214 (External)
Position (deg)
Velocity (deg/s)
Time (s)
Externally Filtered Position
Externally Filtered Velocity

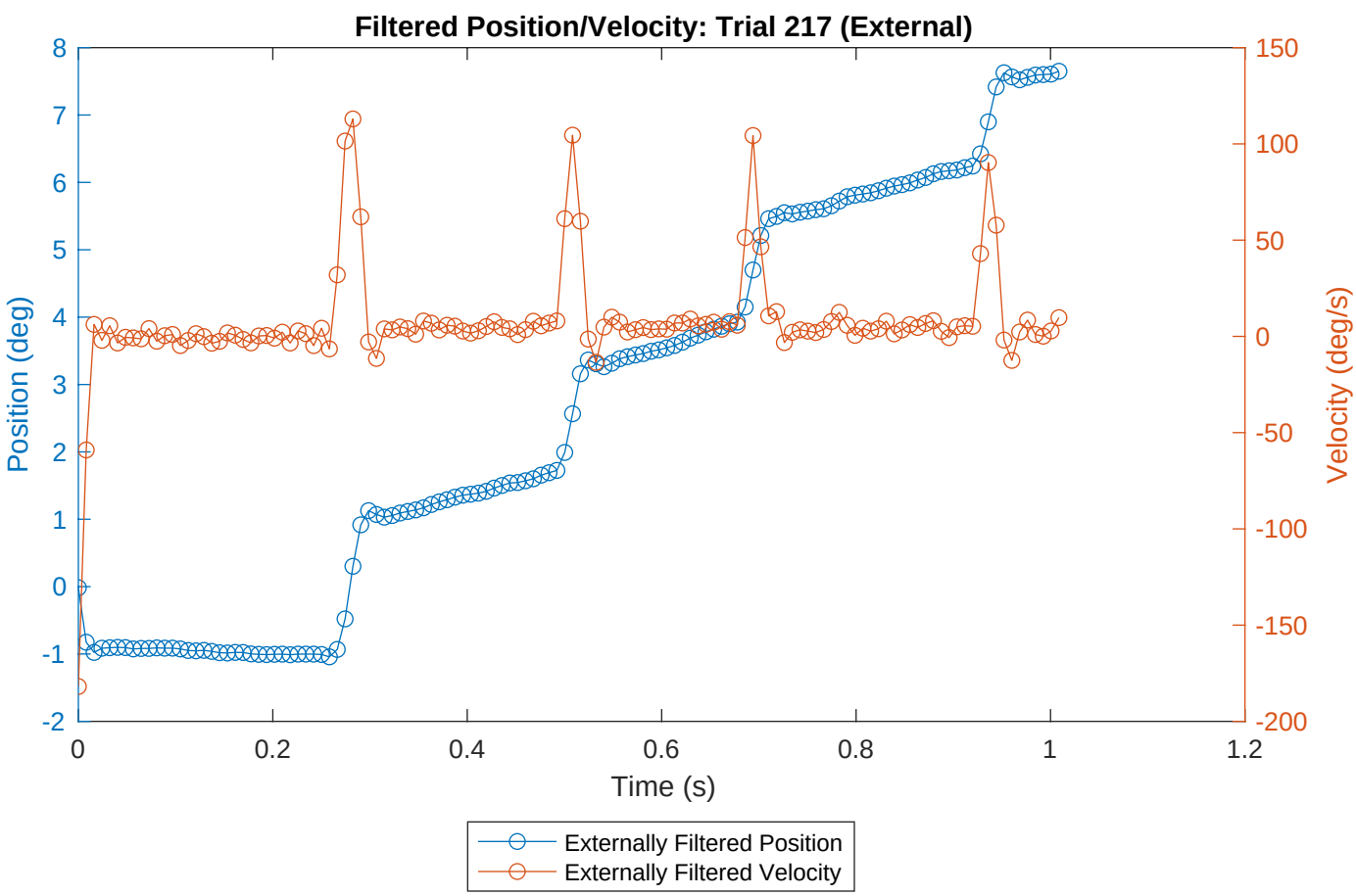

Position (deg)
Time (s)

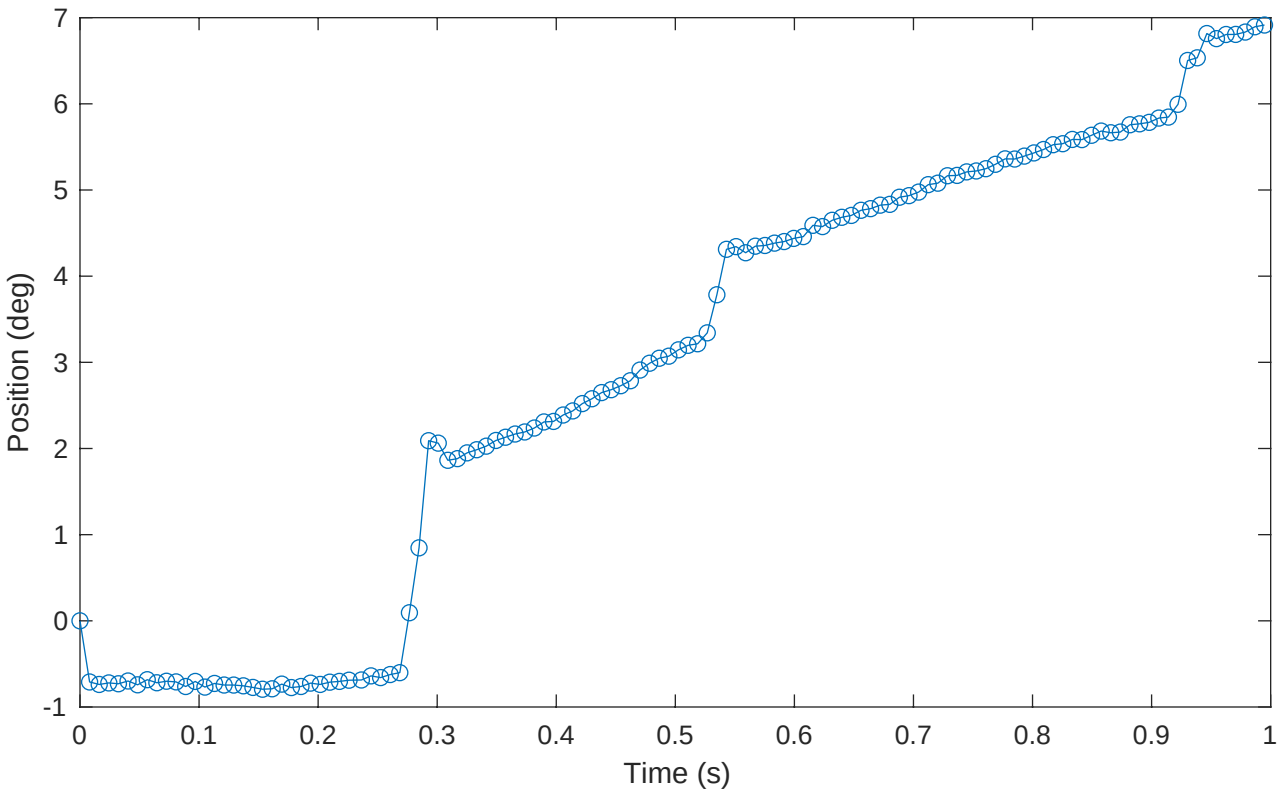

Filtered Position/Velocity: Trial 215 (External)
Position (deg)
Velocity (deg/s)
Time (s)
Externally Filtered Position
Externally Filtered Velocity

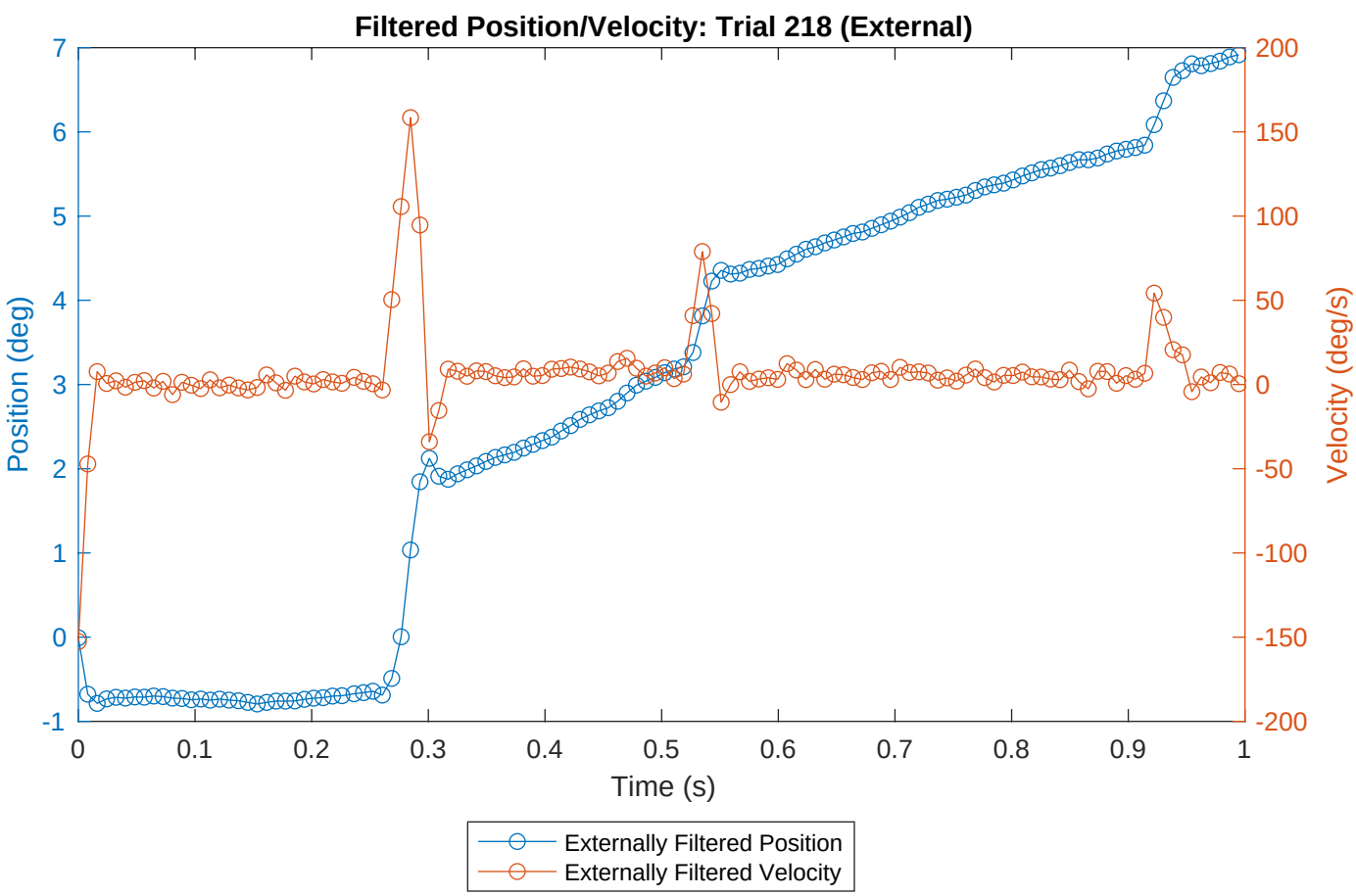

Position (deg)
Time (s)

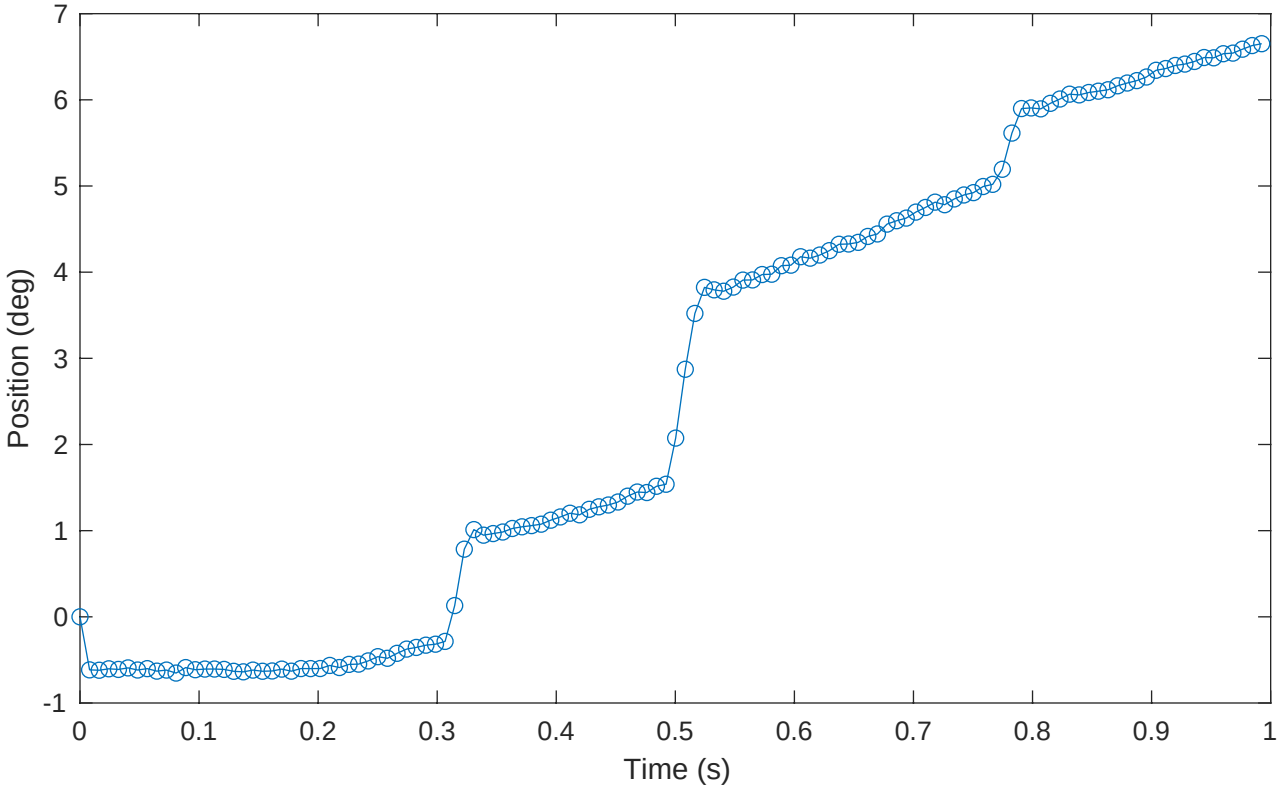

Filtered Position/Velocity: Trial 216 (External)
Position (deg)
Velocity (deg/s)
Time (s)
Externally Filtered Position
Externally Filtered Velocity

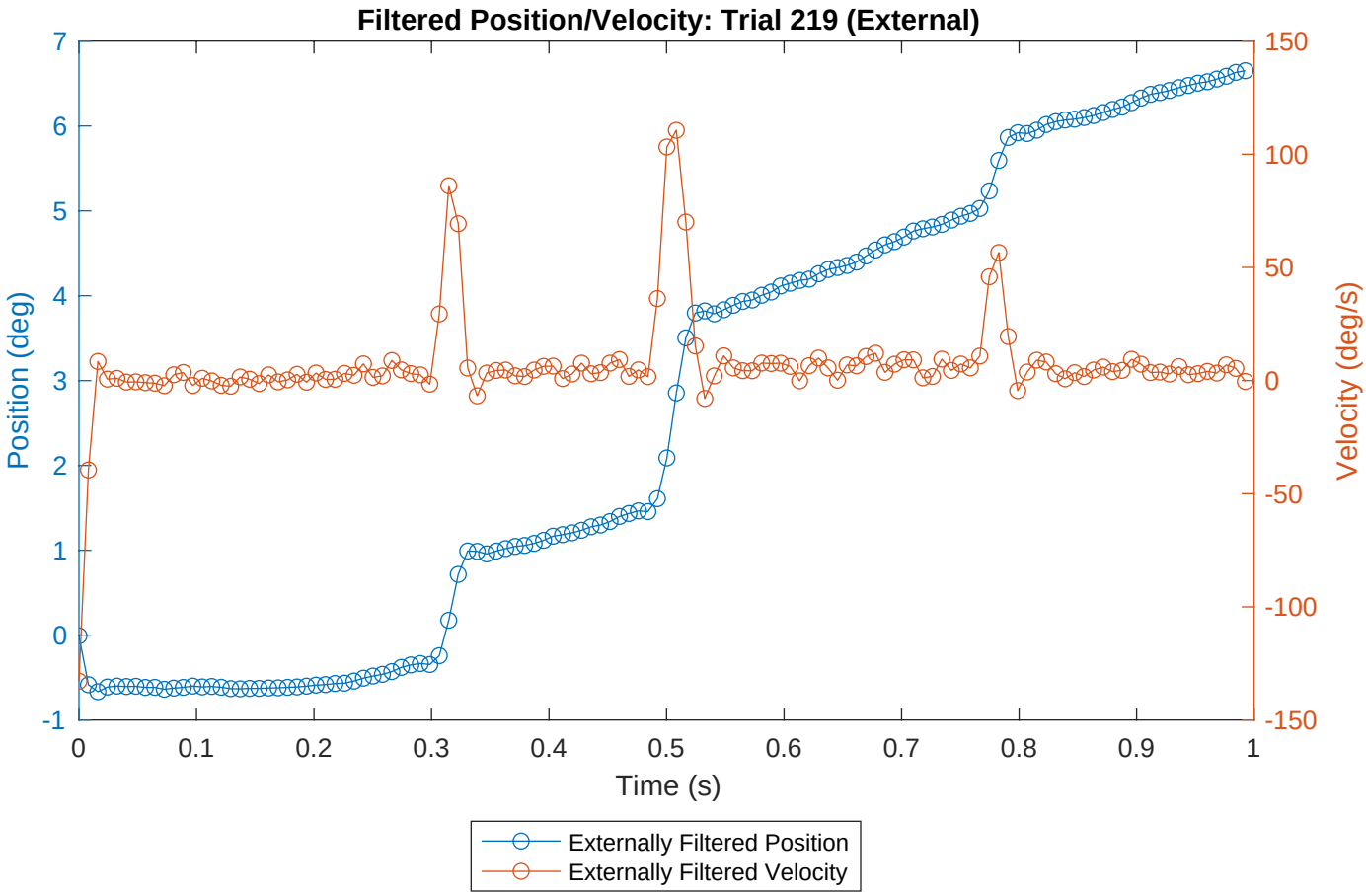

Position (deg)
Time (s)

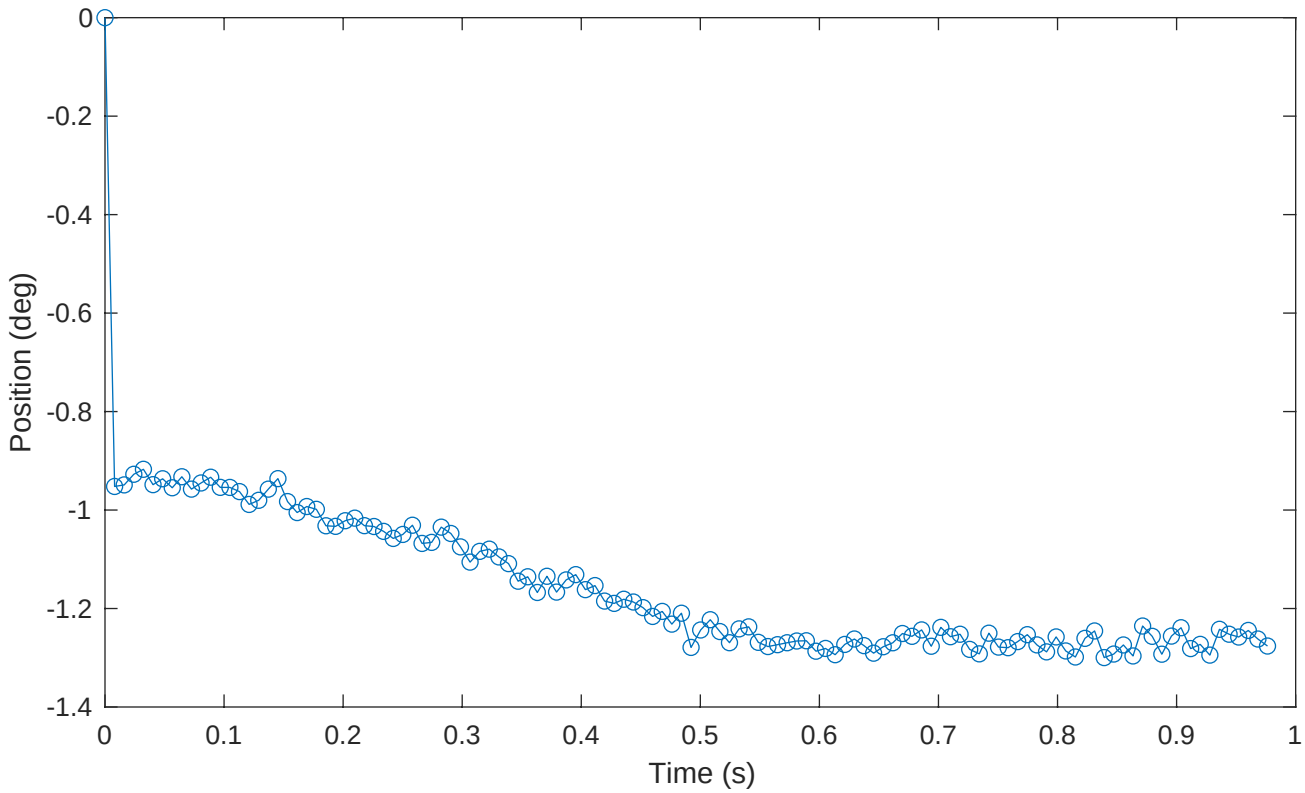

Filtered Position/Velocity: Trial 217 (External)
Position (deg)
Velocity (deg/s)
Time (s)
Externally Filtered Position
Externally Filtered Velocity

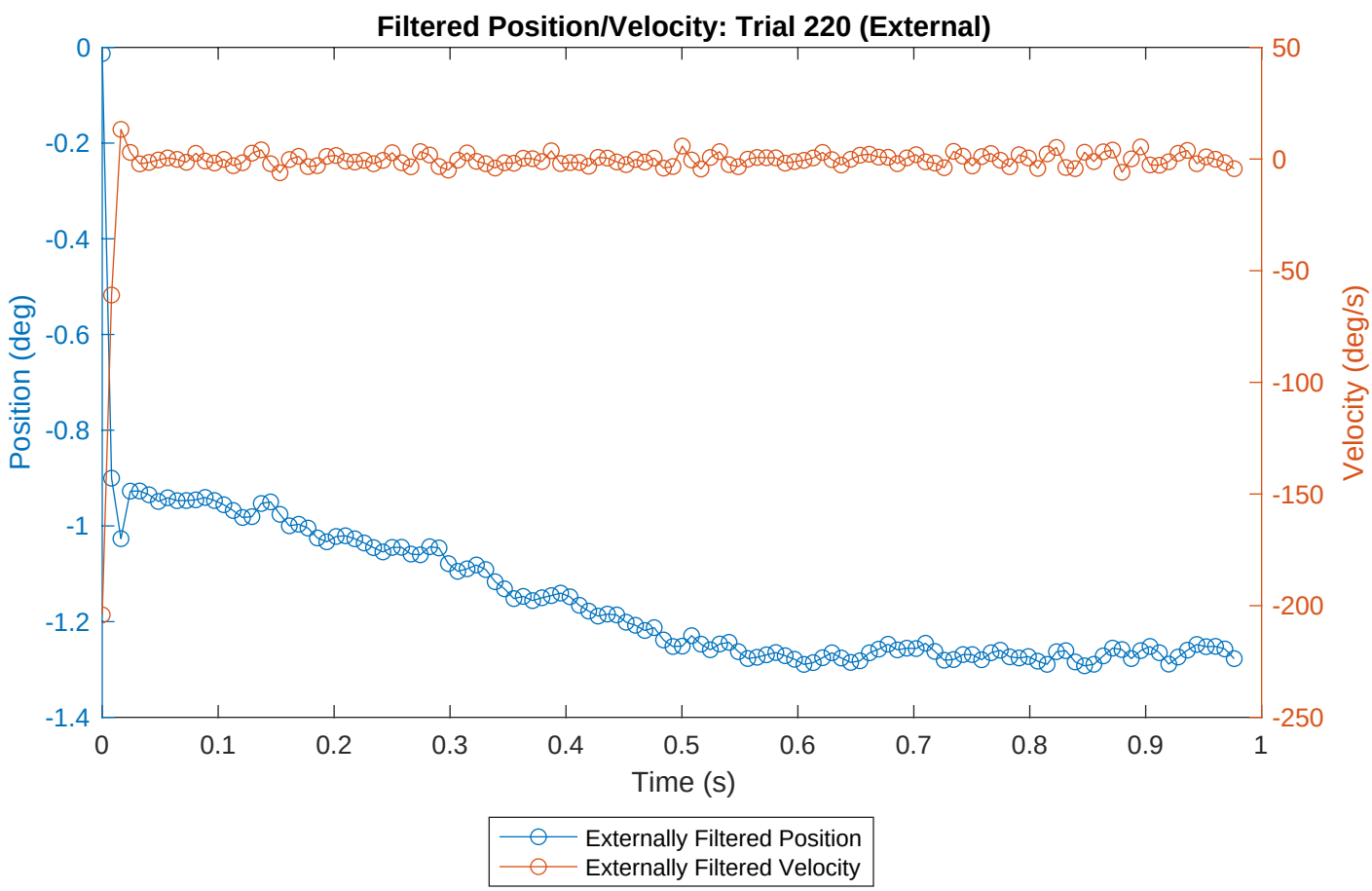

Position (deg)
Time (s)

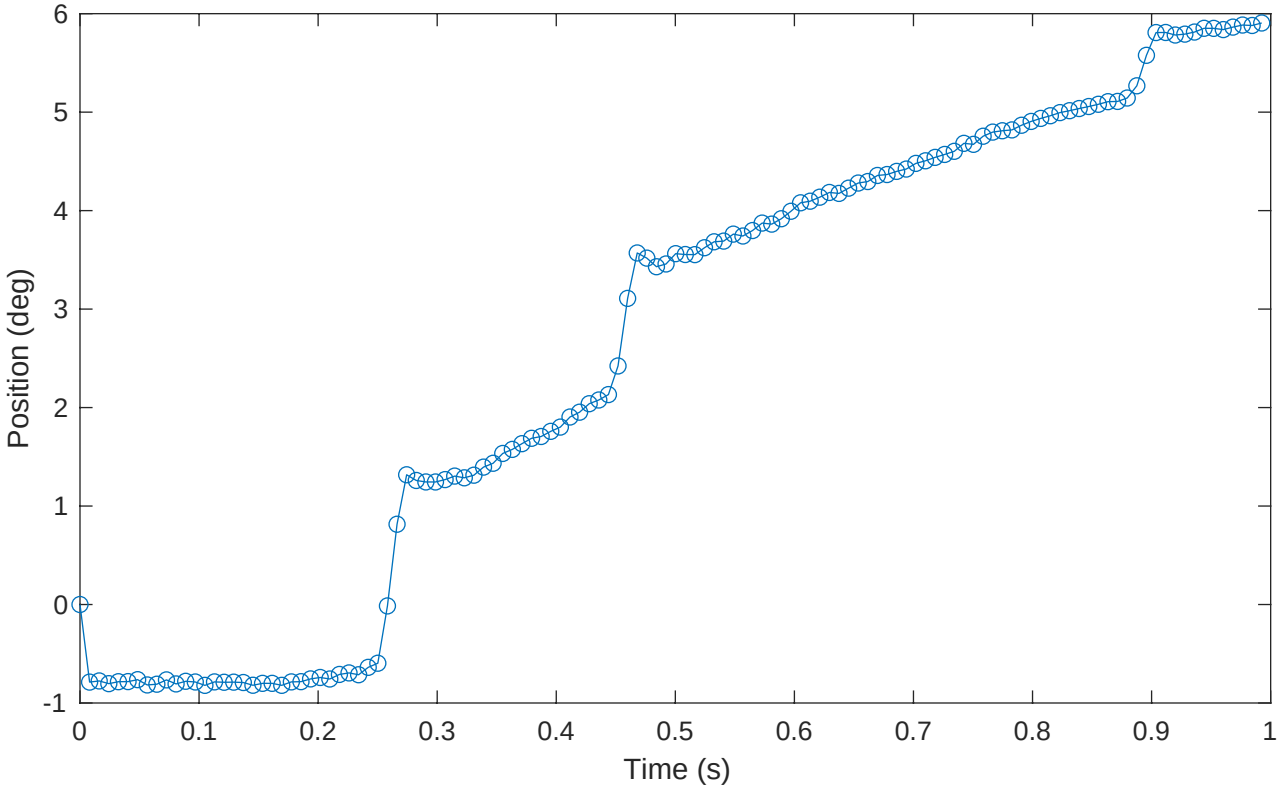

Filtered Position/Velocity: Trial 218 (External)
Position (deg)
Velocity (deg/s)
Time (s)
Externally Filtered Position
Externally Filtered Velocity

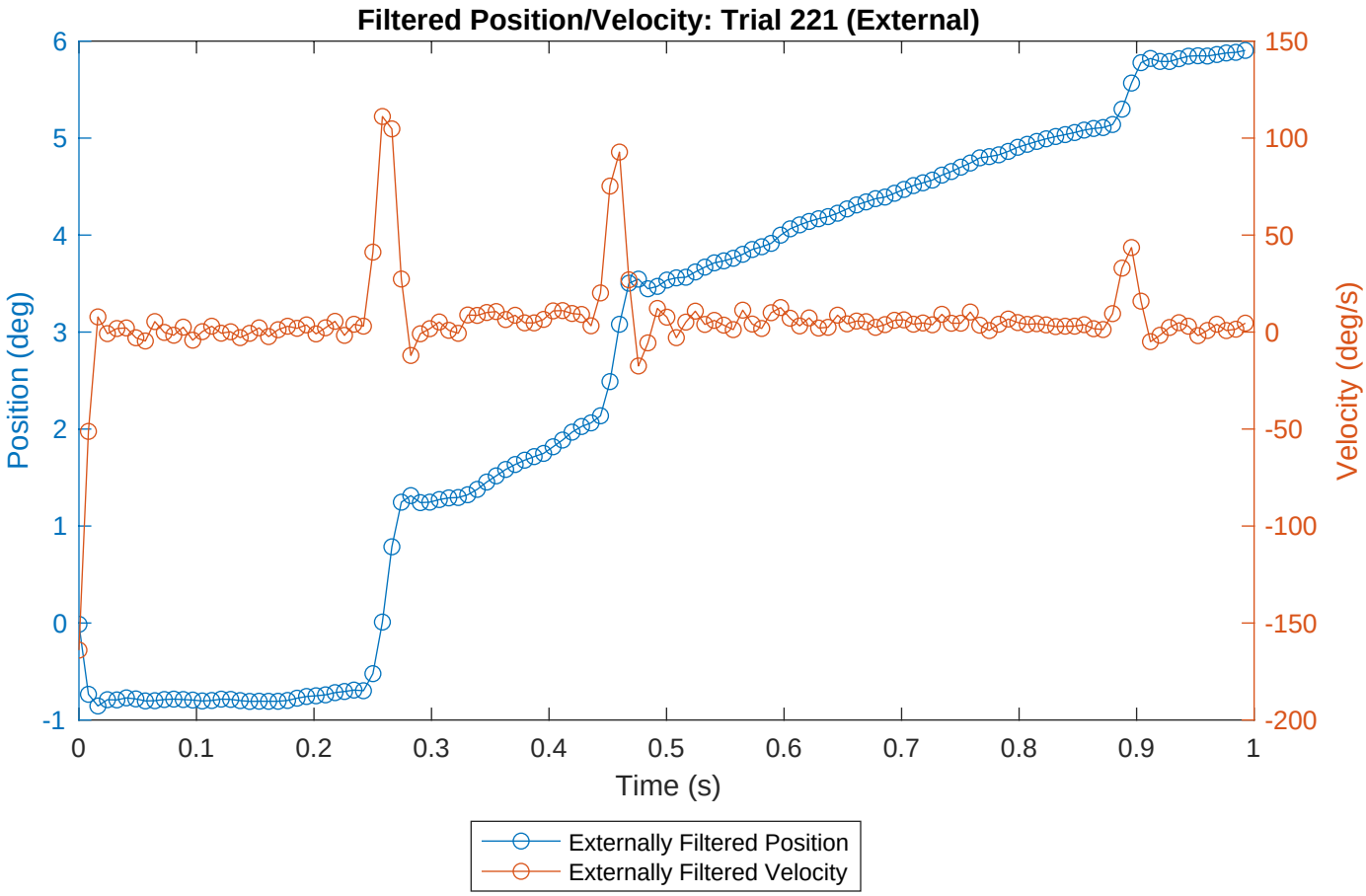

Position (deg)
Time (s)

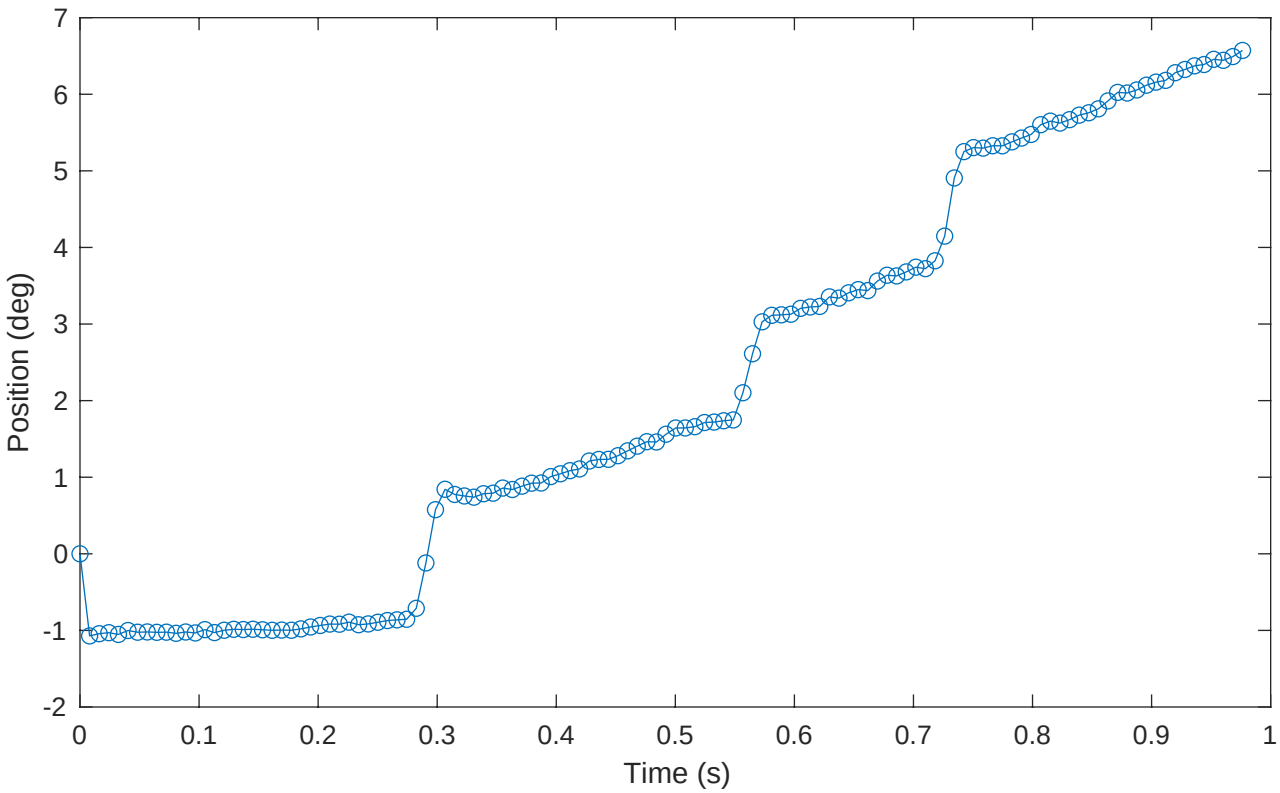

Filtered Position/Velocity: Trial 219 (External)
Position (deg)
Velocity (deg/s)
Time (s)
Externally Filtered Position
Externally Filtered Velocity

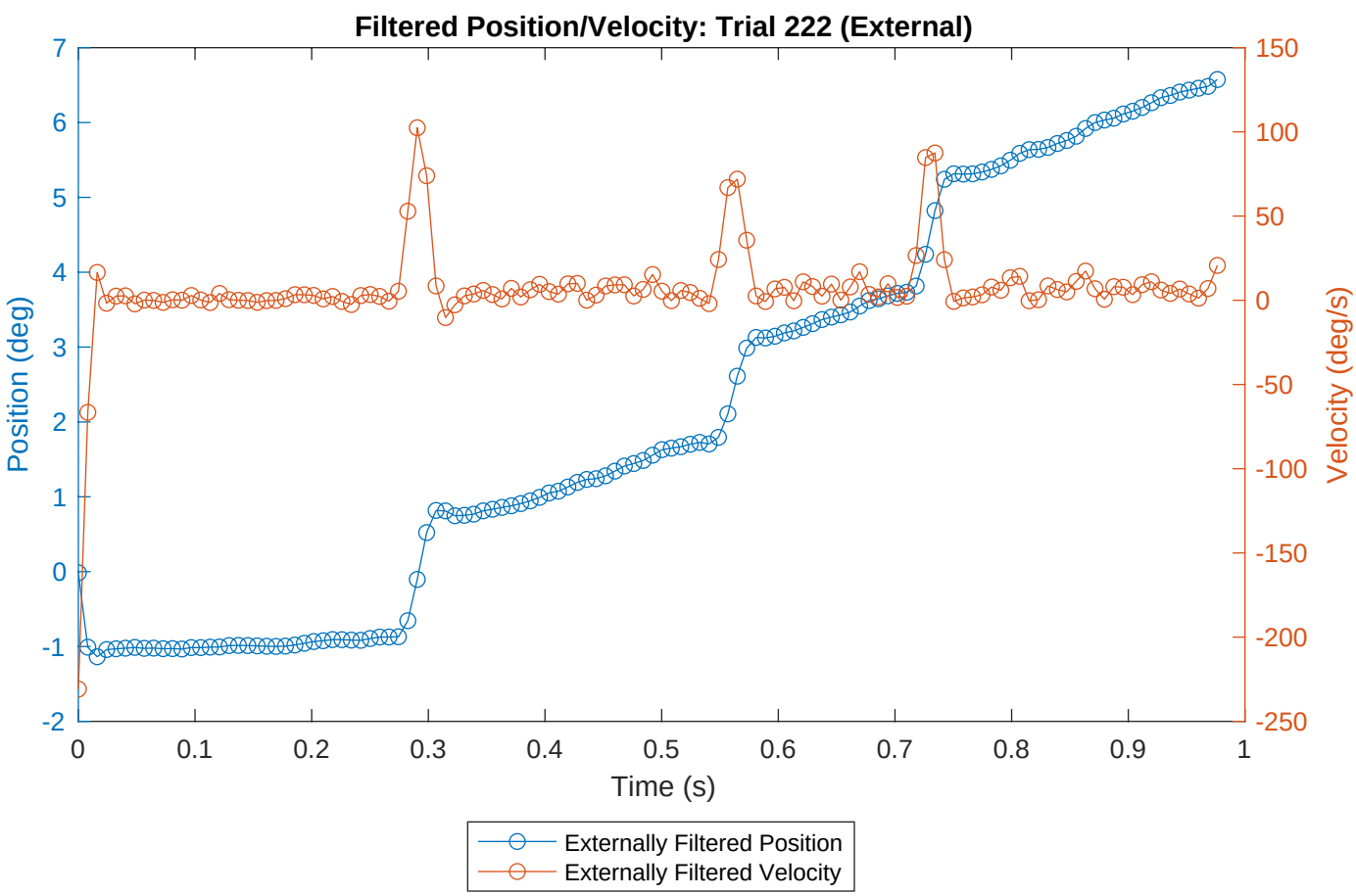

0
-0.2
-0.4
-0.6
-0.8
-1
-1.2
-1.4
Position (deg)
0
0.1
0.2
0.3
0.4
0.5
0.6
0.7
0.8
0.9
1
Time (s)

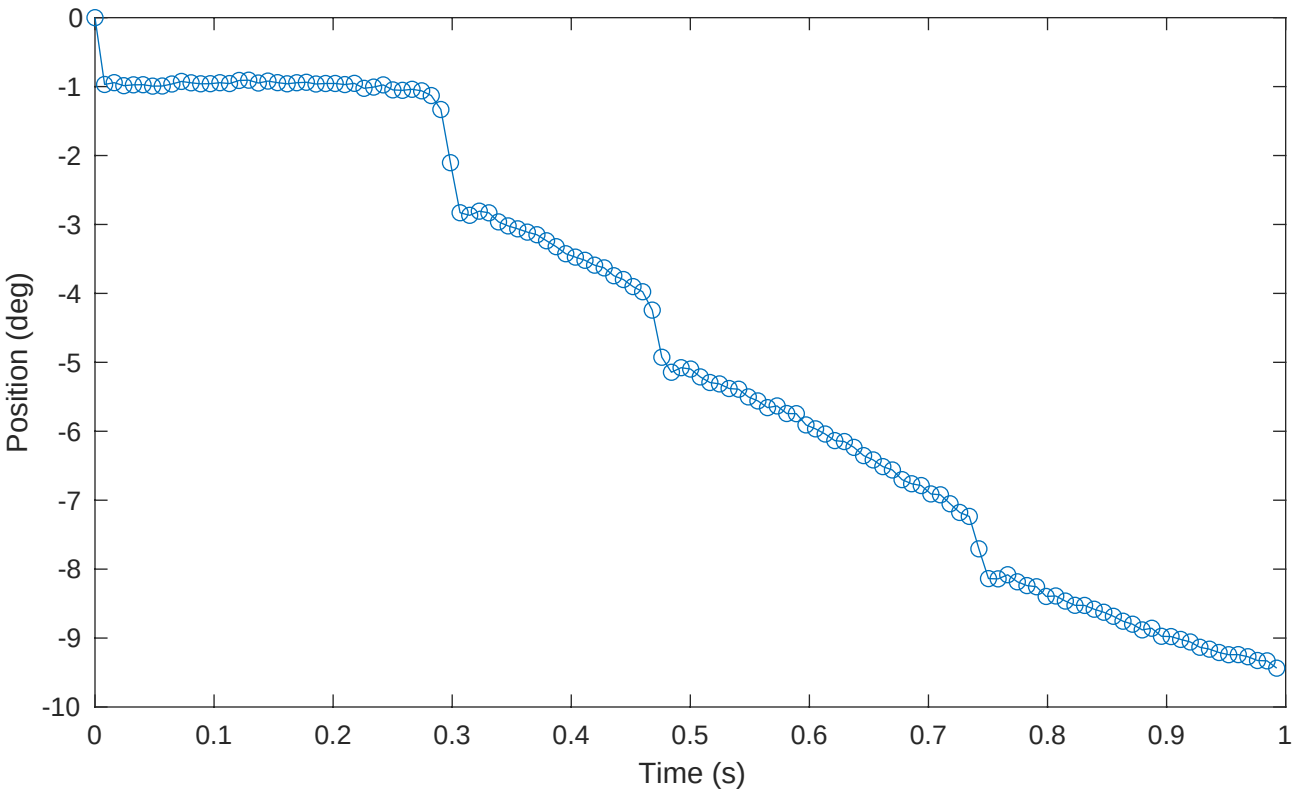

Filtered Position/Velocity: Trial 220 (External)
0
-0.2
-0.4
-0.6
-0.8
-1
-1.2
-1.4
Position (deg)
50
0
-50
-100
-150
-200
-250
Velocity (deg/s)
0
0.1
0.2
0.3
0.4
0.5
0.6
0.7
0.8
0.9
1
Time (s)
Externally Filtered Position
Externally Filtered Velocity

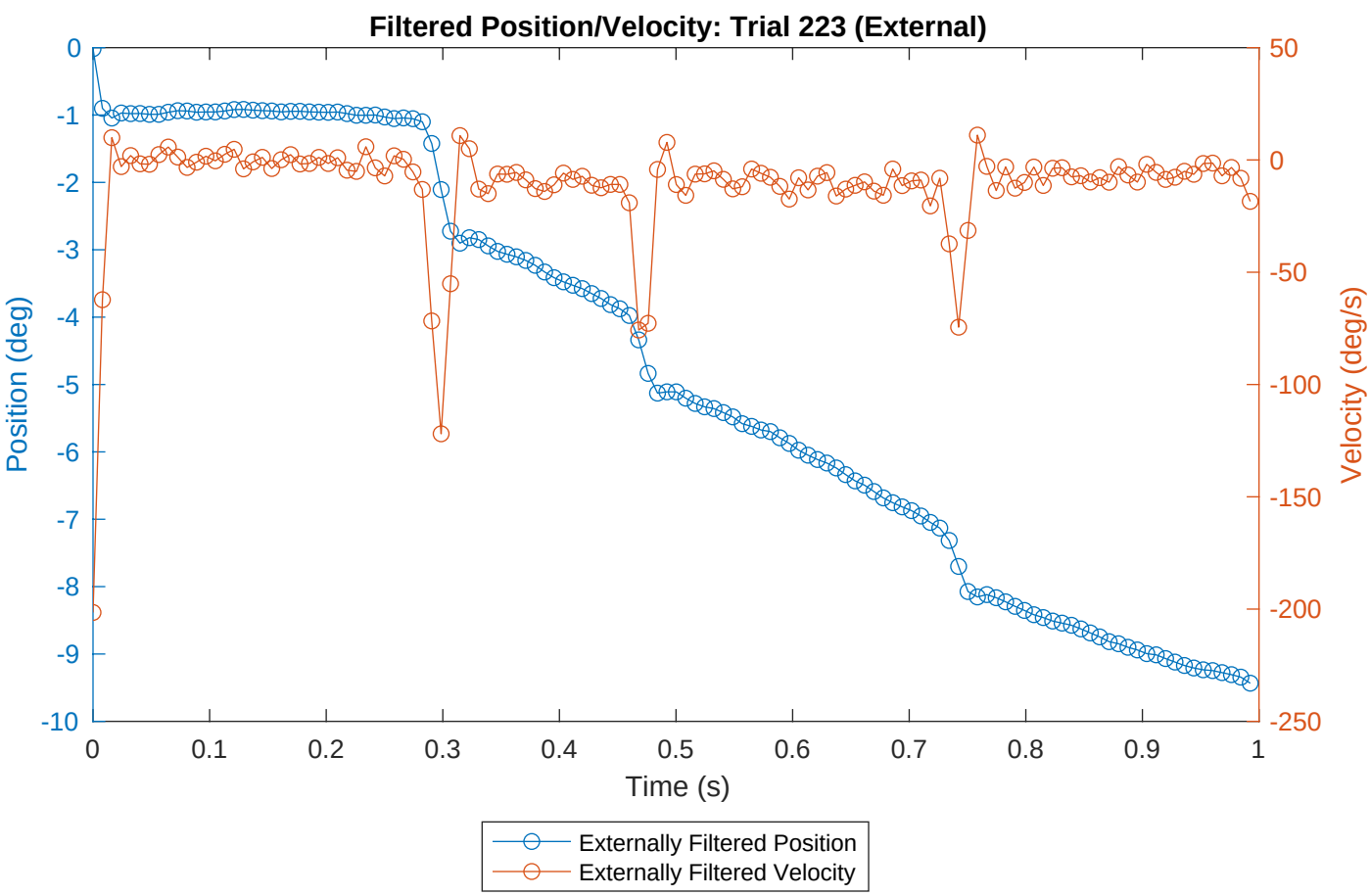

Position (deg)
Time (s)

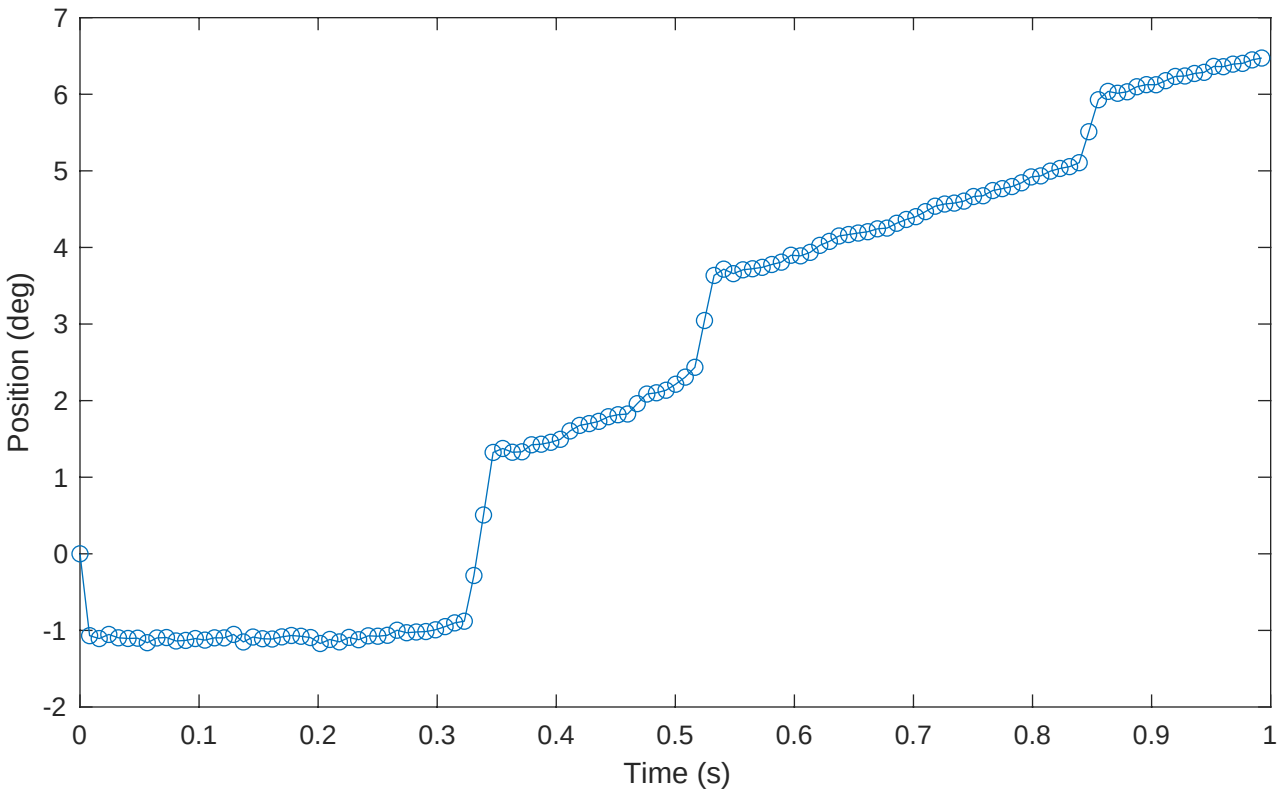

Filtered Position/Velocity: Trial 221 (External)
Position (deg)
Velocity (deg/s)
Time (s)
Externally Filtered Position
Externally Filtered Velocity

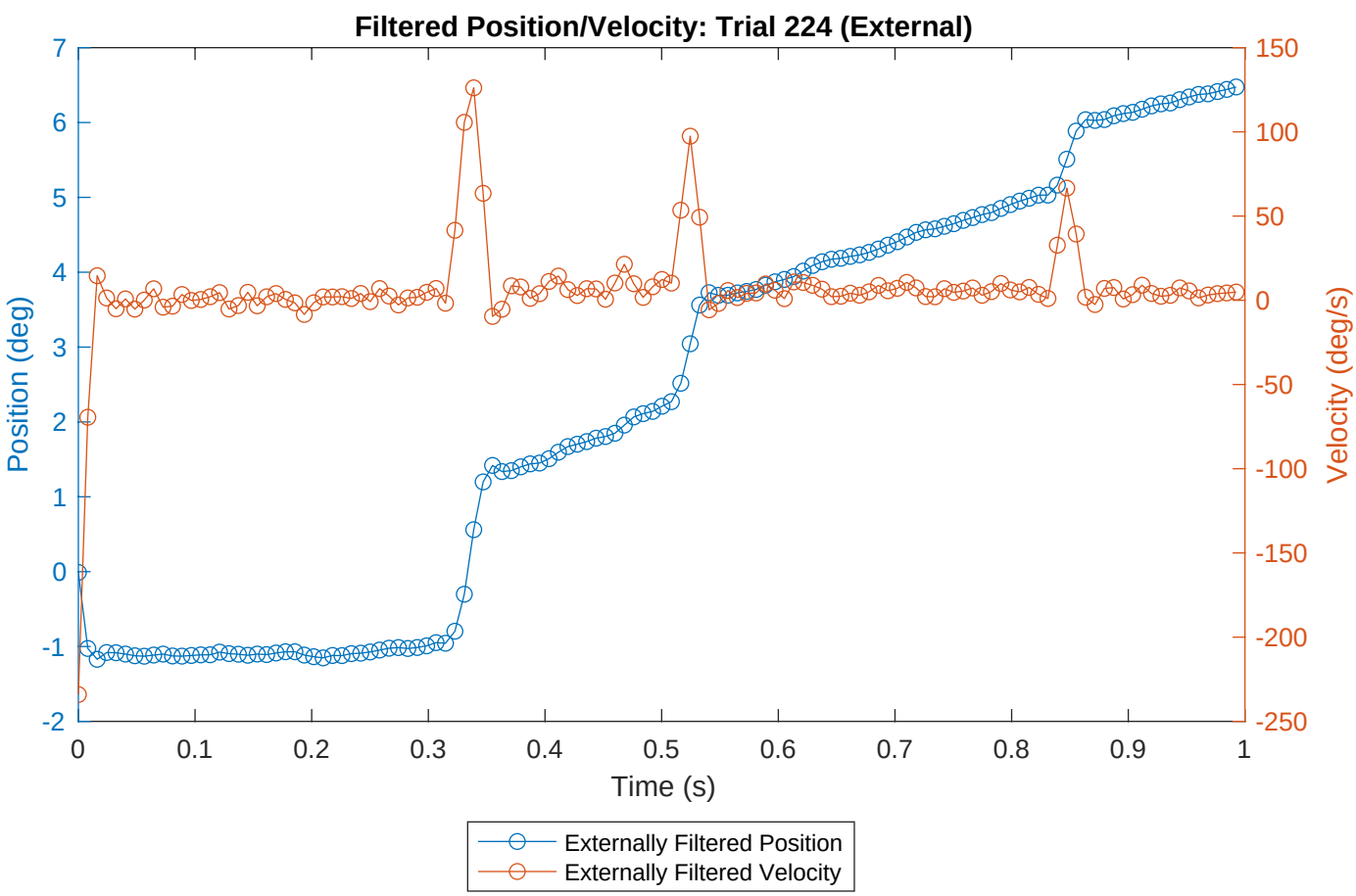

Position (deg)
Time (s)

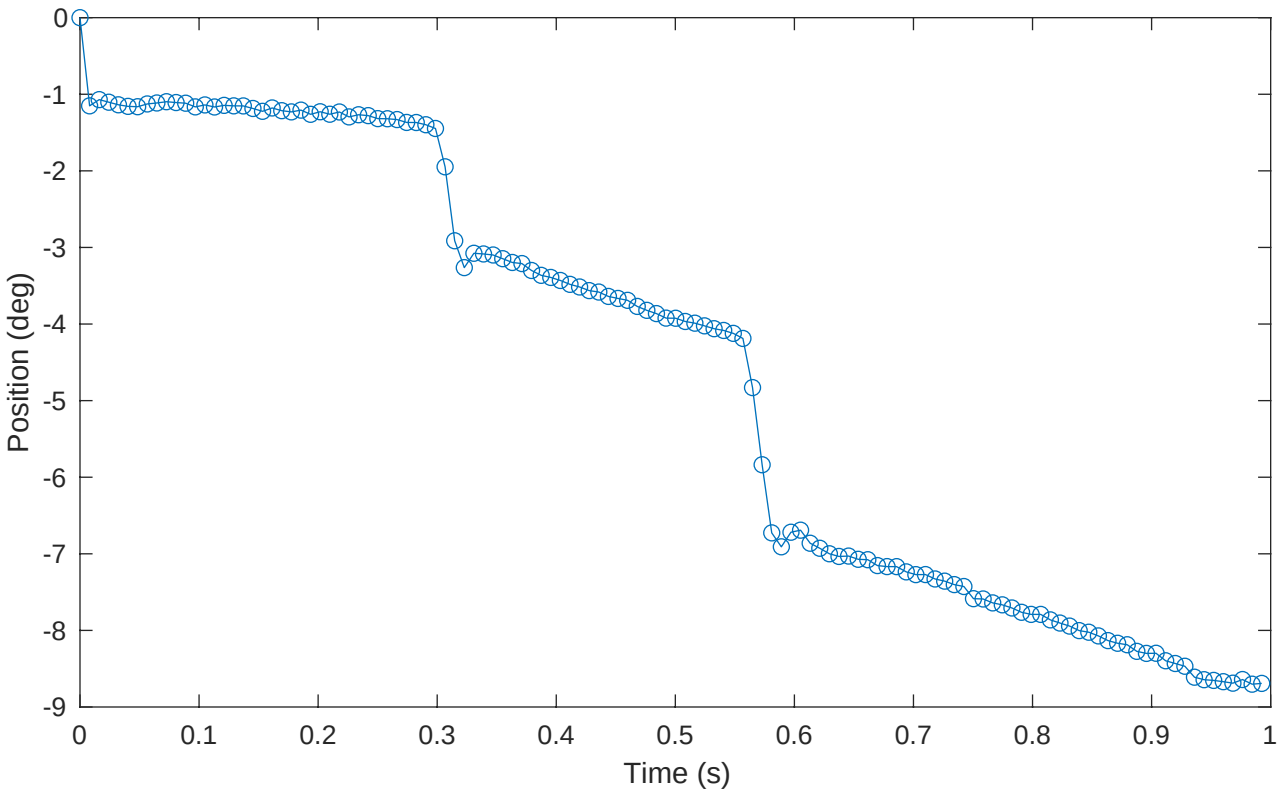

Filtered Position/Velocity: Trial 222 (External)
Position (deg)
Velocity (deg/s)
Time (s)
Externally Filtered Position
Externally Filtered Velocity

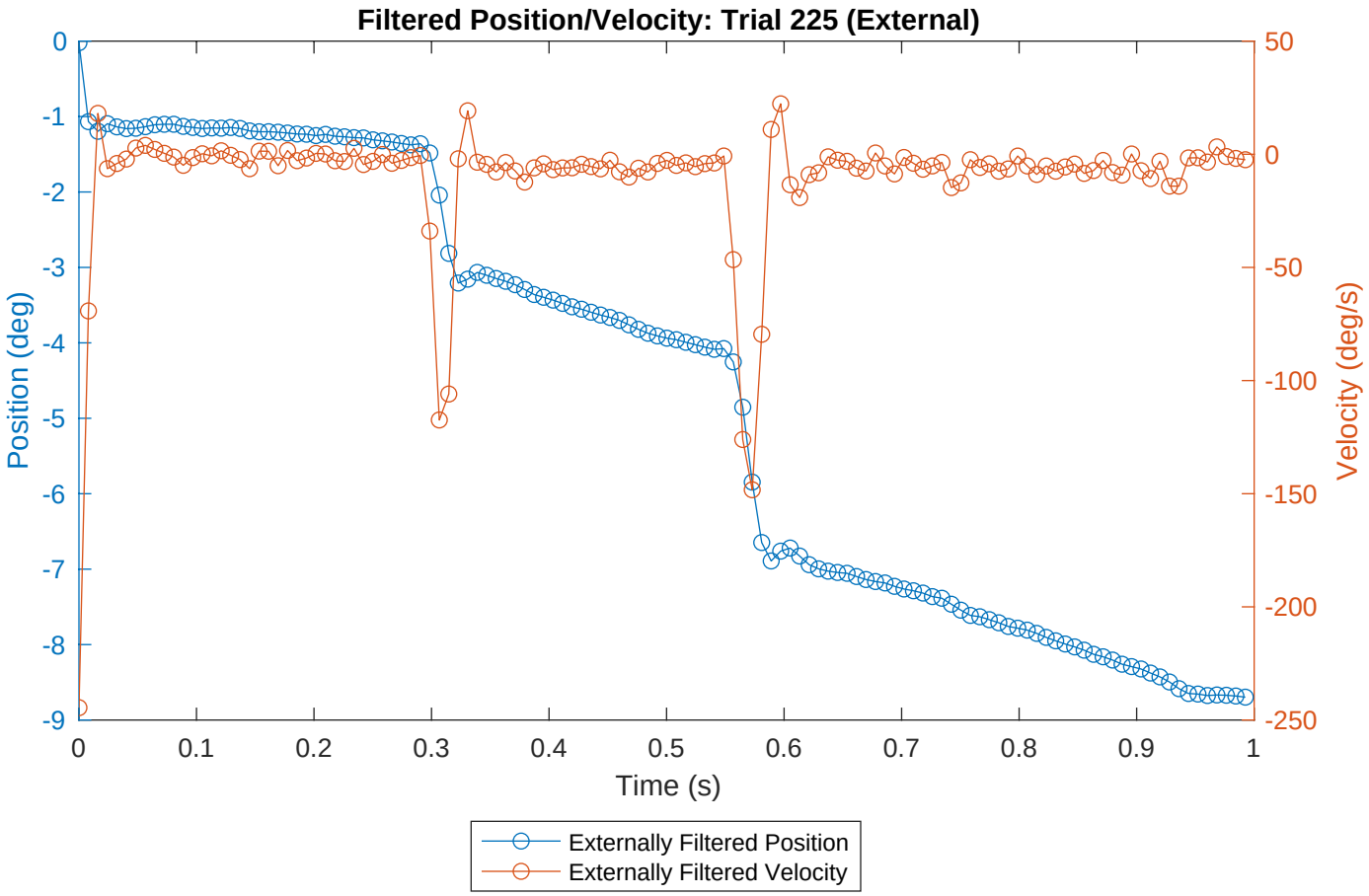

Position (deg)
Time (s)
0
-1
-2
-3
-4
-5
-6
-7
-8
-9
-10
0
0.1
0.2
0.3
0.4
0.5
0.6
0.7
0.8
0.9
1

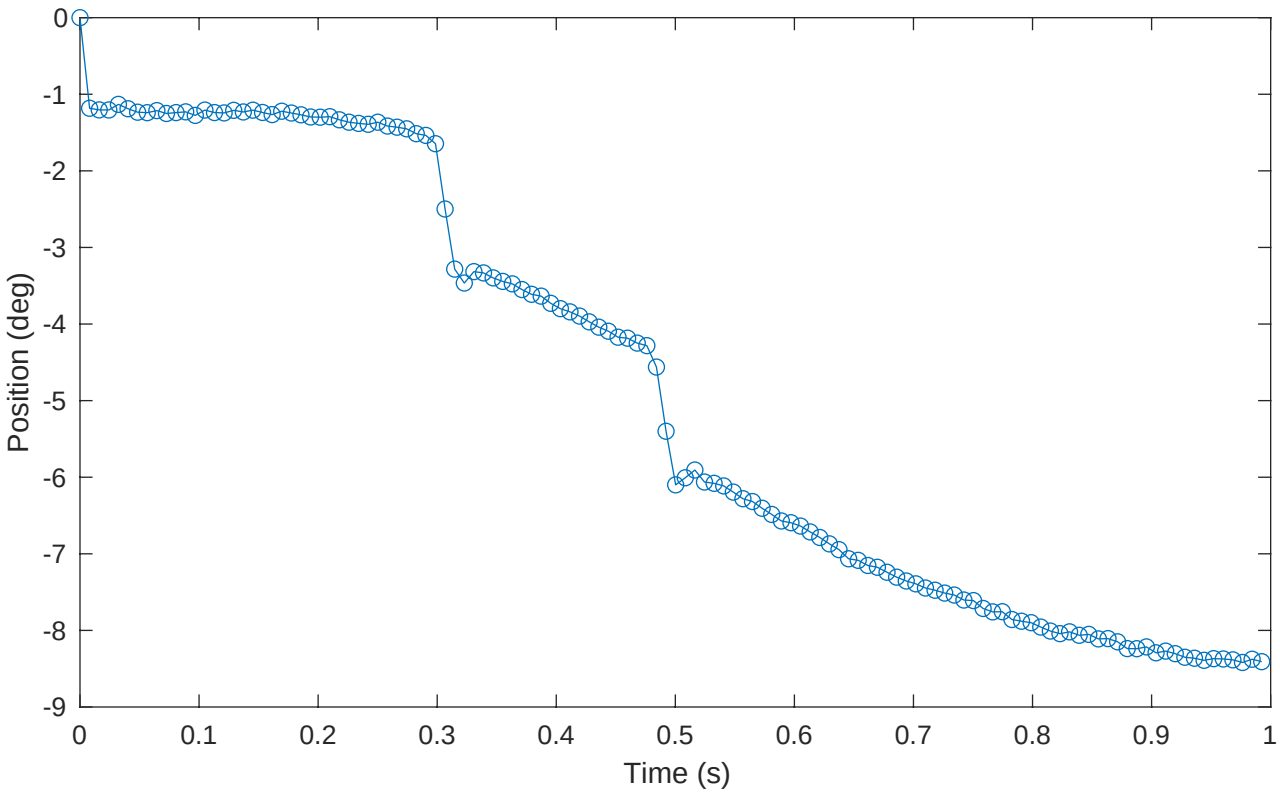

Filtered Position/Velocity: Trial 223 (External)
Position (deg)
Velocity (deg/s)
Time (s)
0
-1
-2
-3
-4
-5
-6
-7
-8
-9
-10
50
0
-50
-100
-150
-200
-250
0
0.1
0.2
0.3
0.4
0.5
0.6
0.7
0.8
0.9
1
Externally Filtered Position
Externally Filtered Velocity

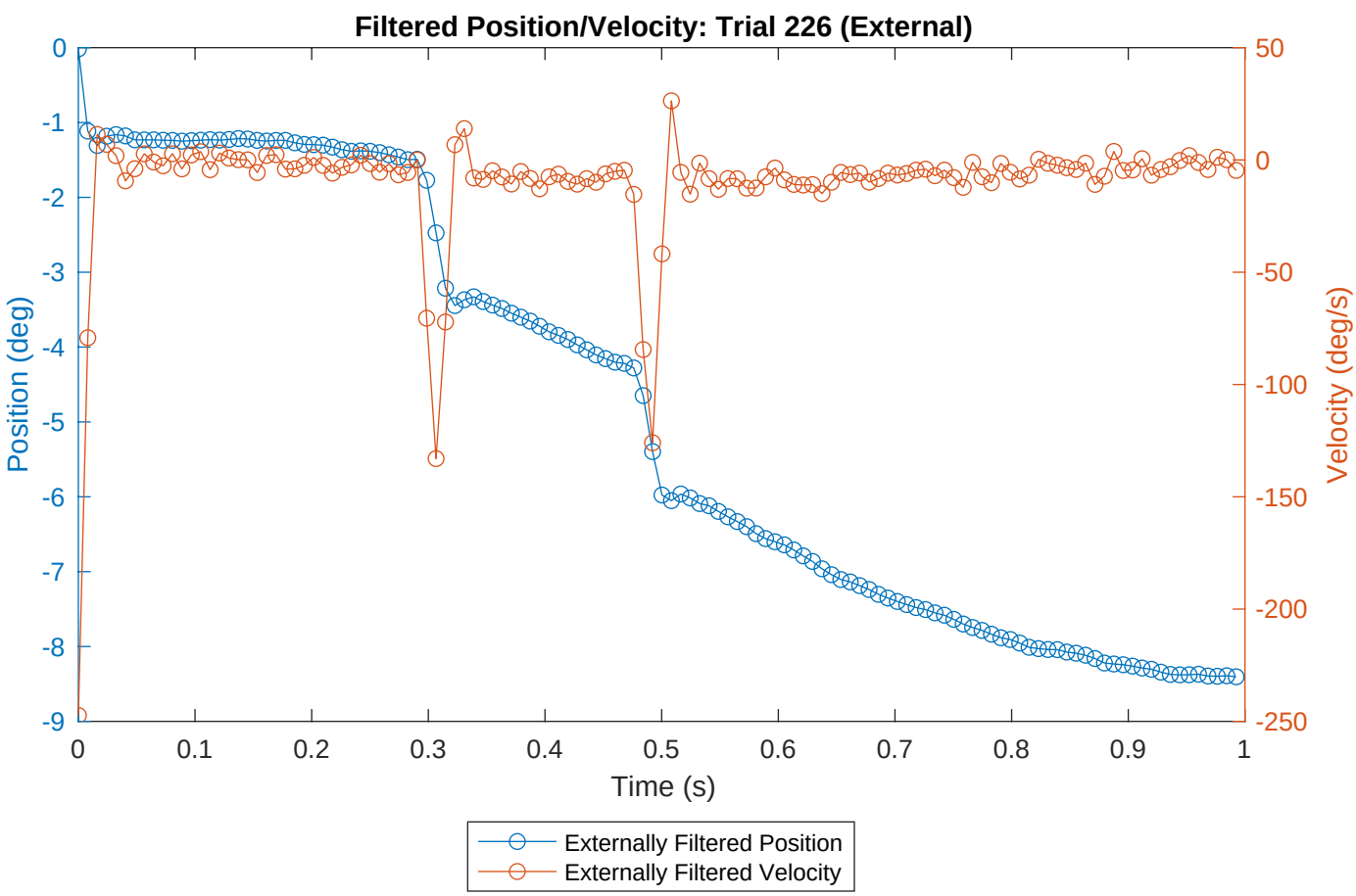

Position (deg)
Time (s)

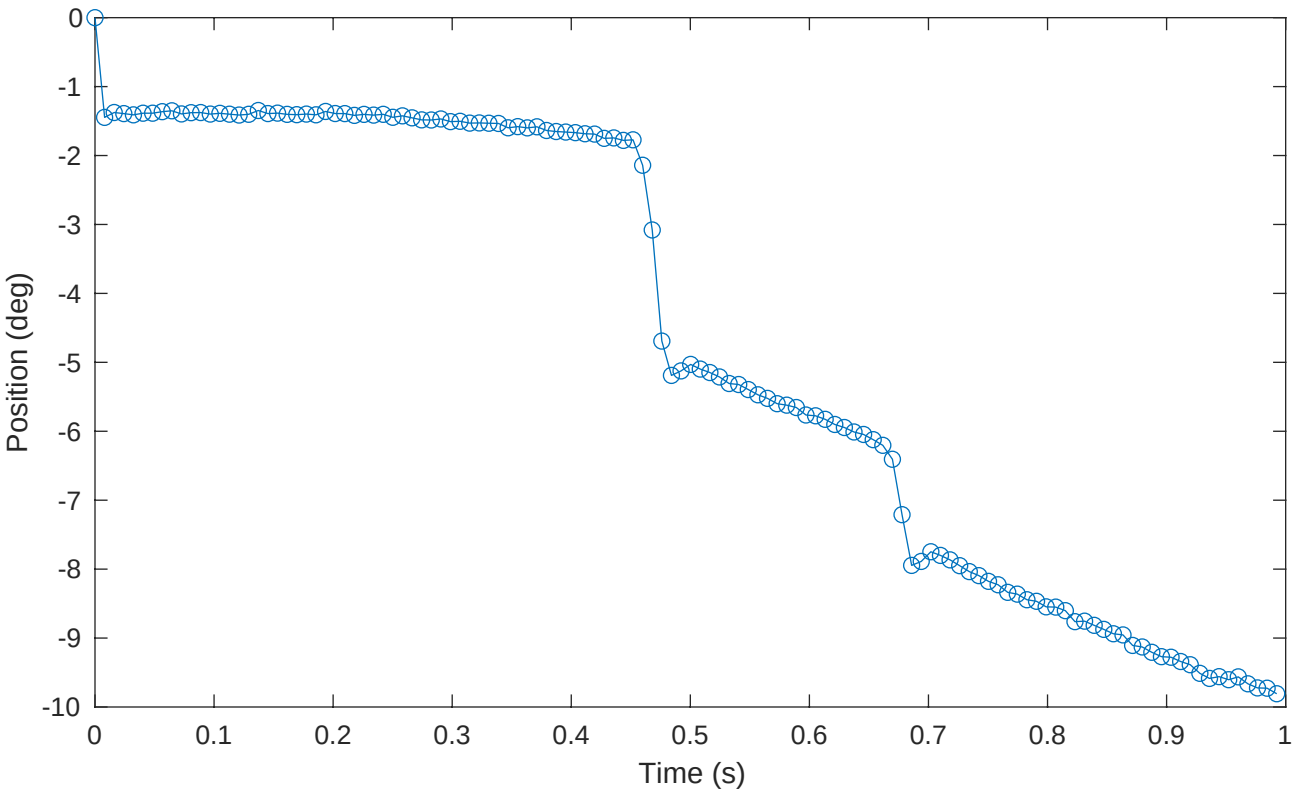

Filtered Position/Velocity: Trial 224 (External)
Position (deg)
Velocity (deg/s)
Time (s)
Externally Filtered Position
Externally Filtered Velocity

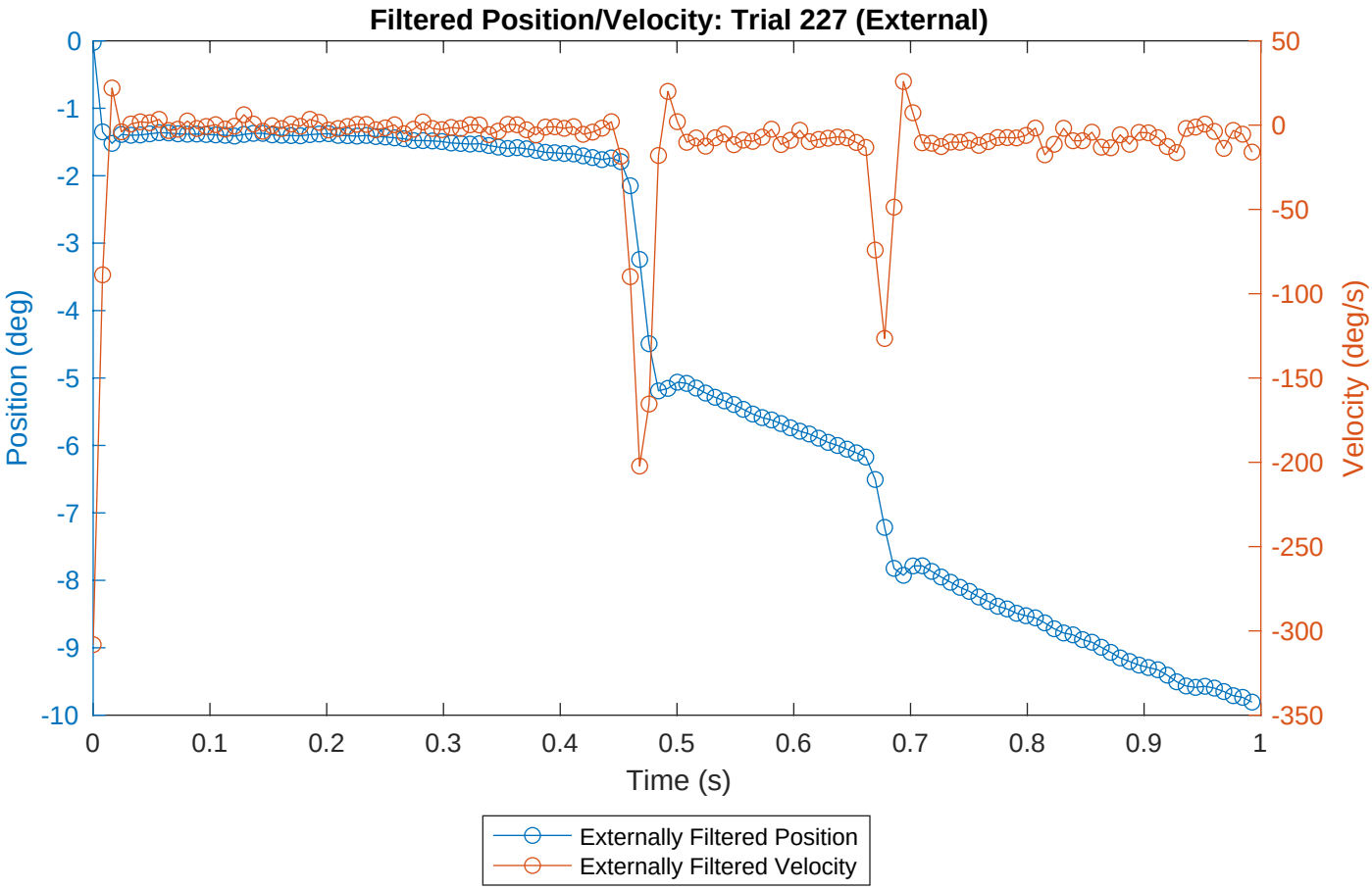

Position (deg)
Time (s)

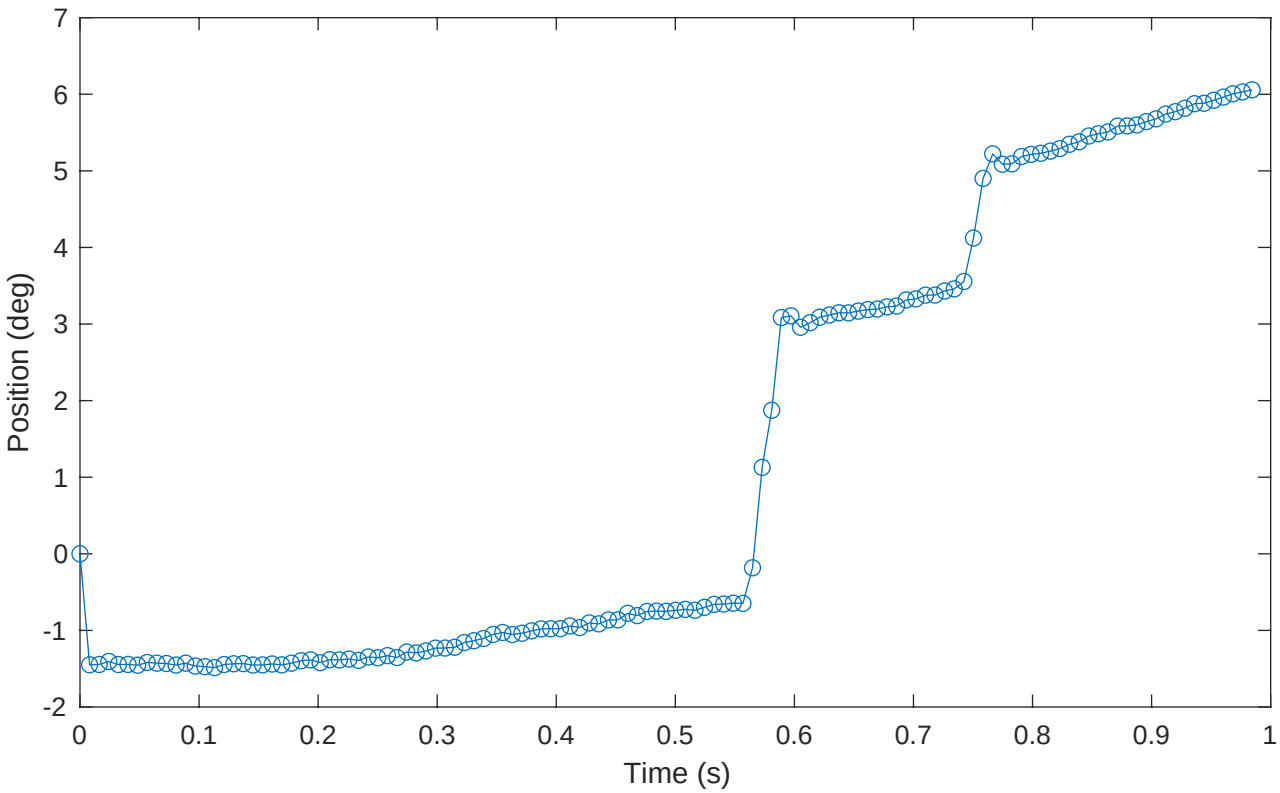

Filtered Position/Velocity: Trial 225 (External)
Position (deg)
Velocity (deg/s)
Time (s)
Externally Filtered Position
Externally Filtered Velocity

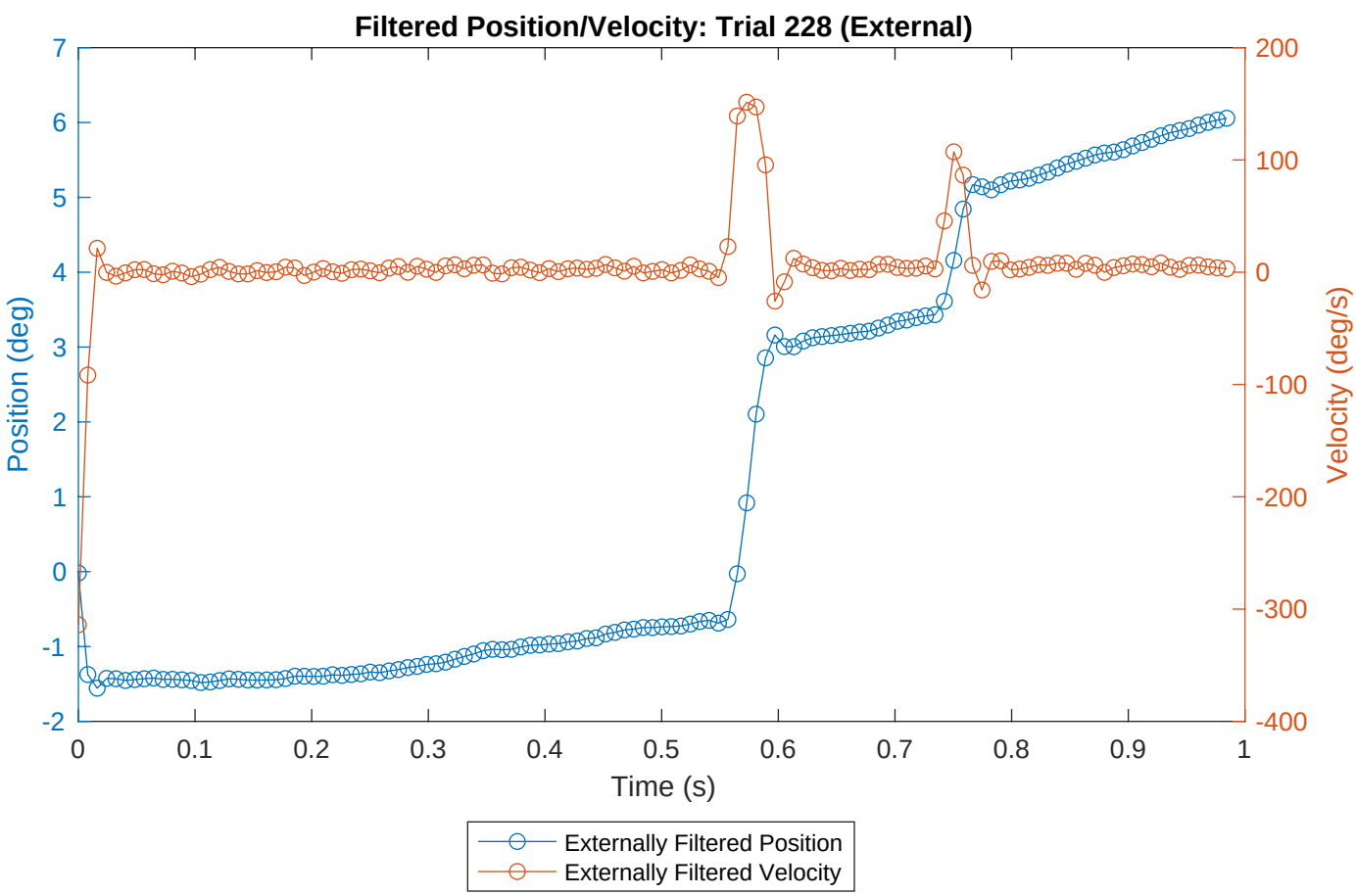

Position (deg)
Time (s)

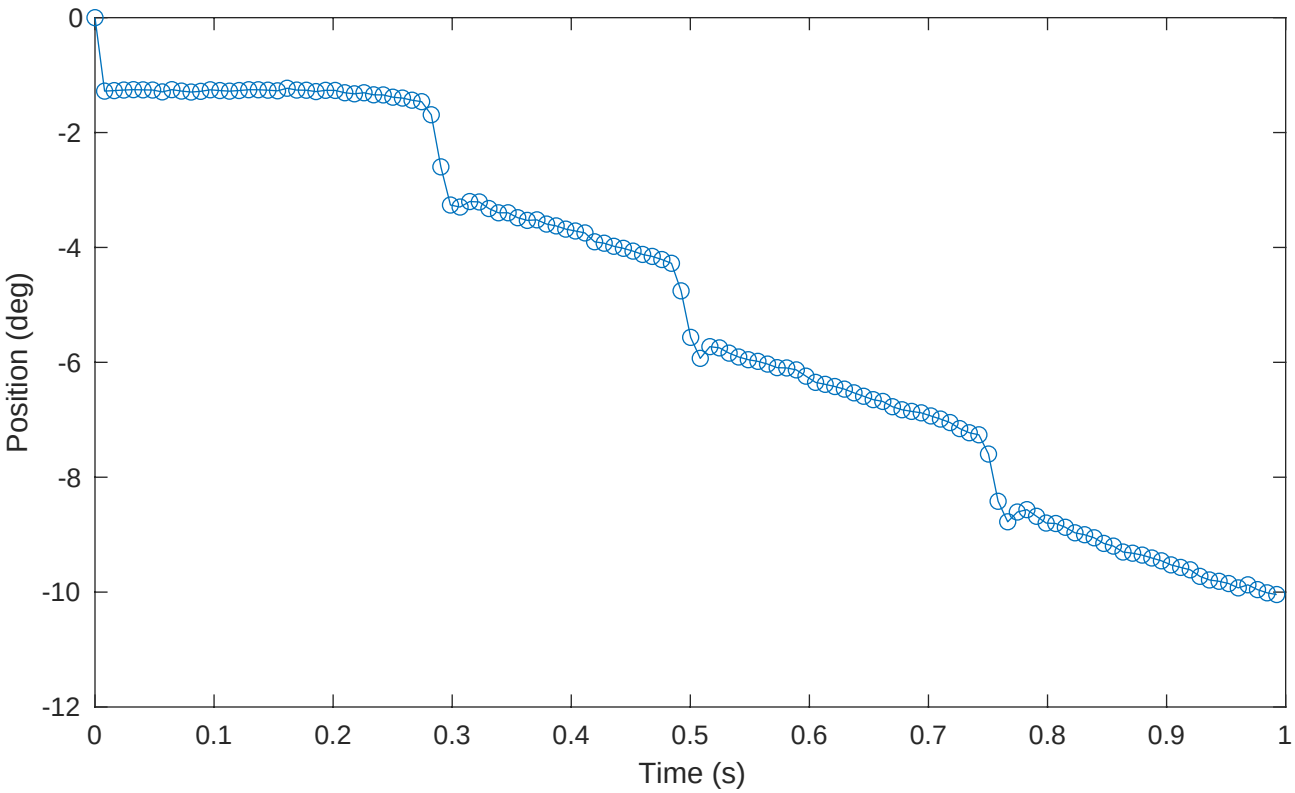

Filtered Position/Velocity: Trial 226 (External)
Position (deg)
Velocity (deg/s)
Time (s)
Externally Filtered Position
Externally Filtered Velocity

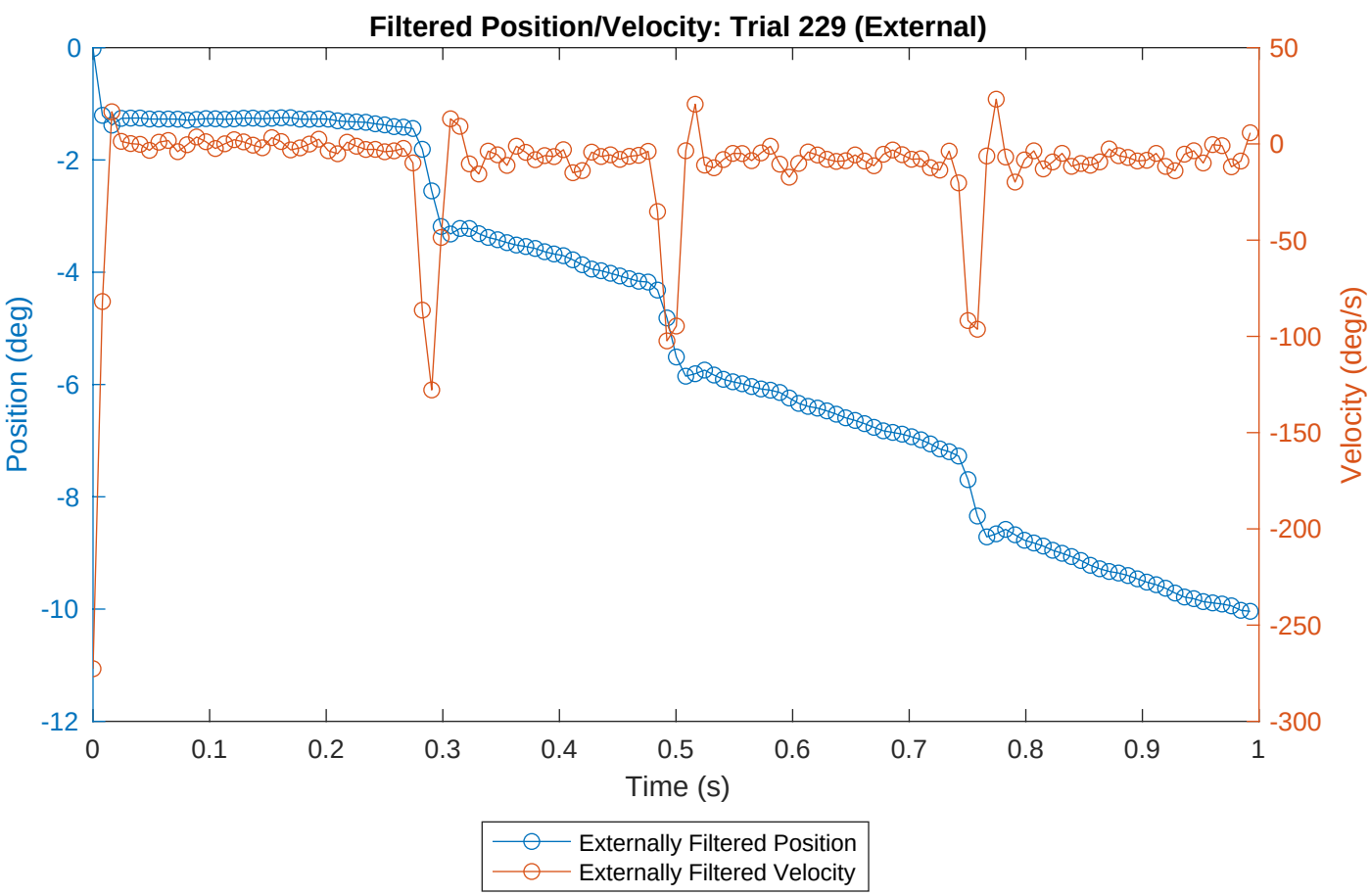

Position (deg)
Time (s)

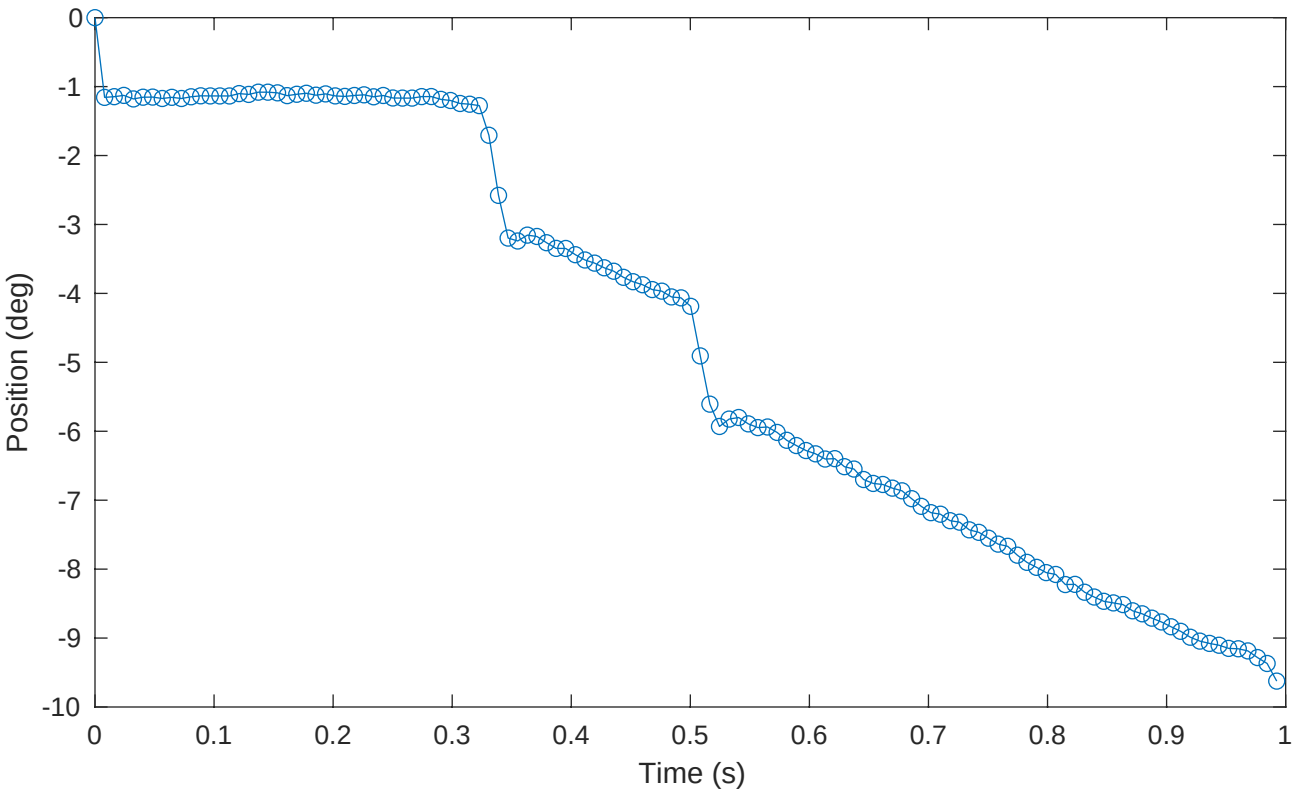

Filtered Position/Velocity: Trial 227 (External)
Position (deg)
Velocity (deg/s)
Time (s)
Externally Filtered Position
Externally Filtered Velocity

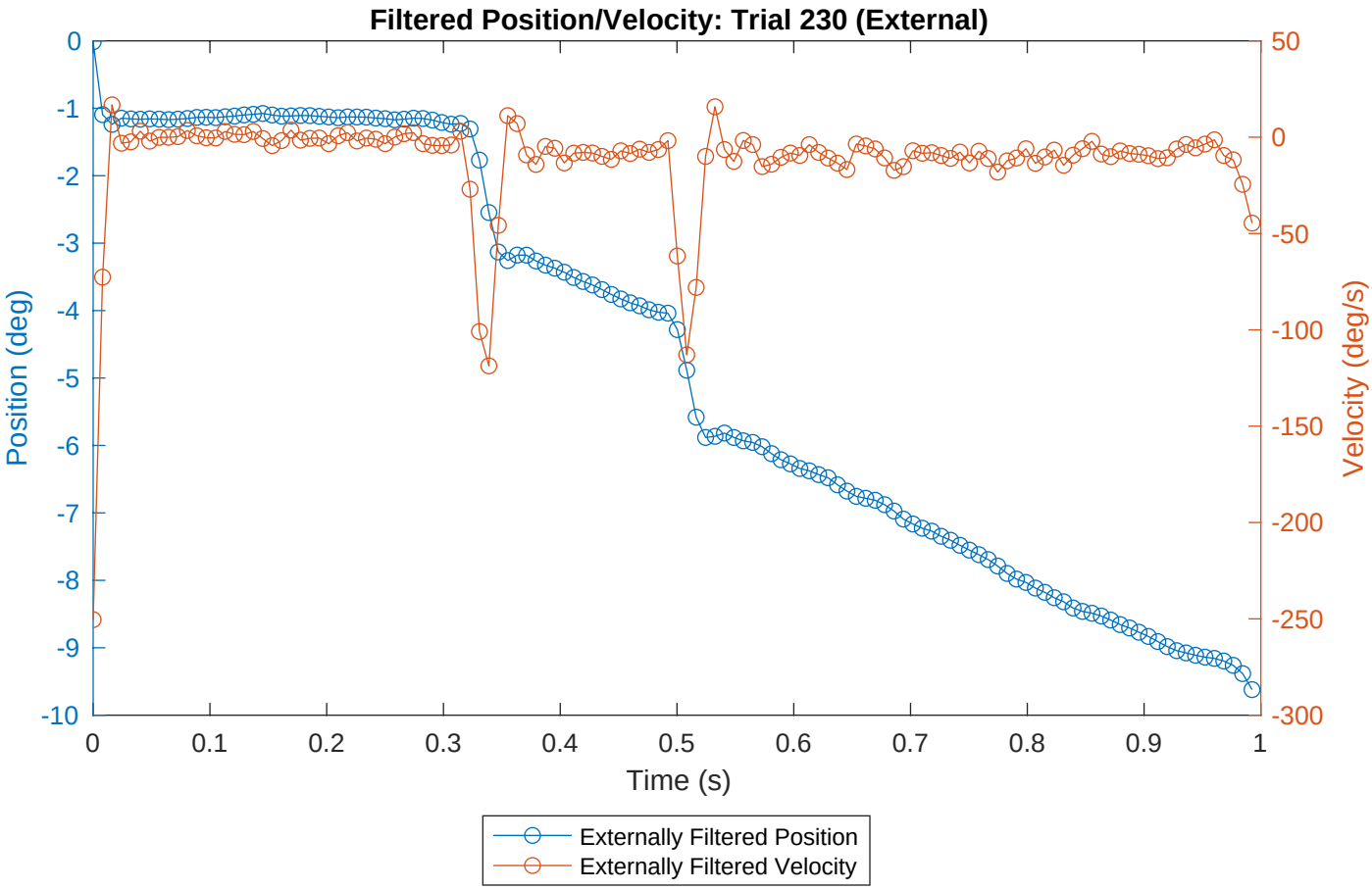

Position (deg)
Time (s)

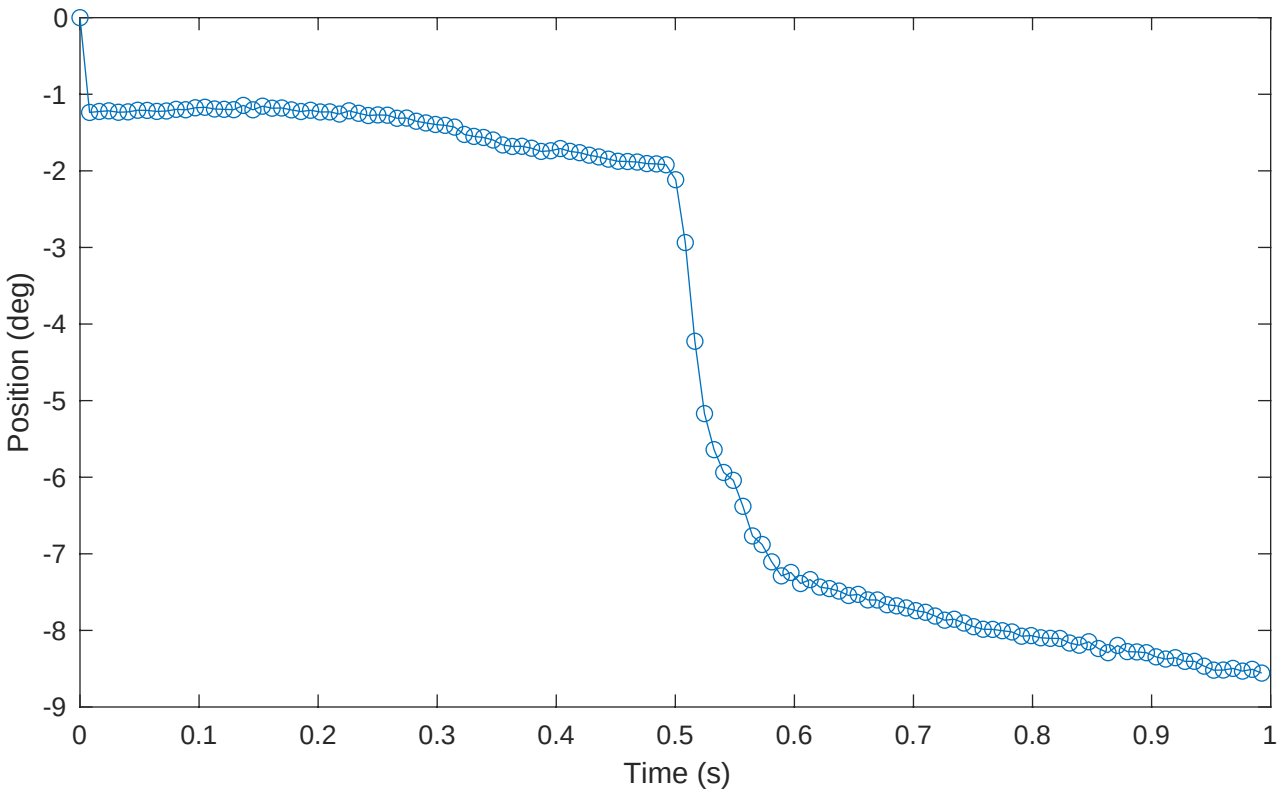

Filtered Position/Velocity: Trial 228 (External)
Position (deg)
Velocity (deg/s)
Time (s)
Externally Filtered Position
Externally Filtered Velocity

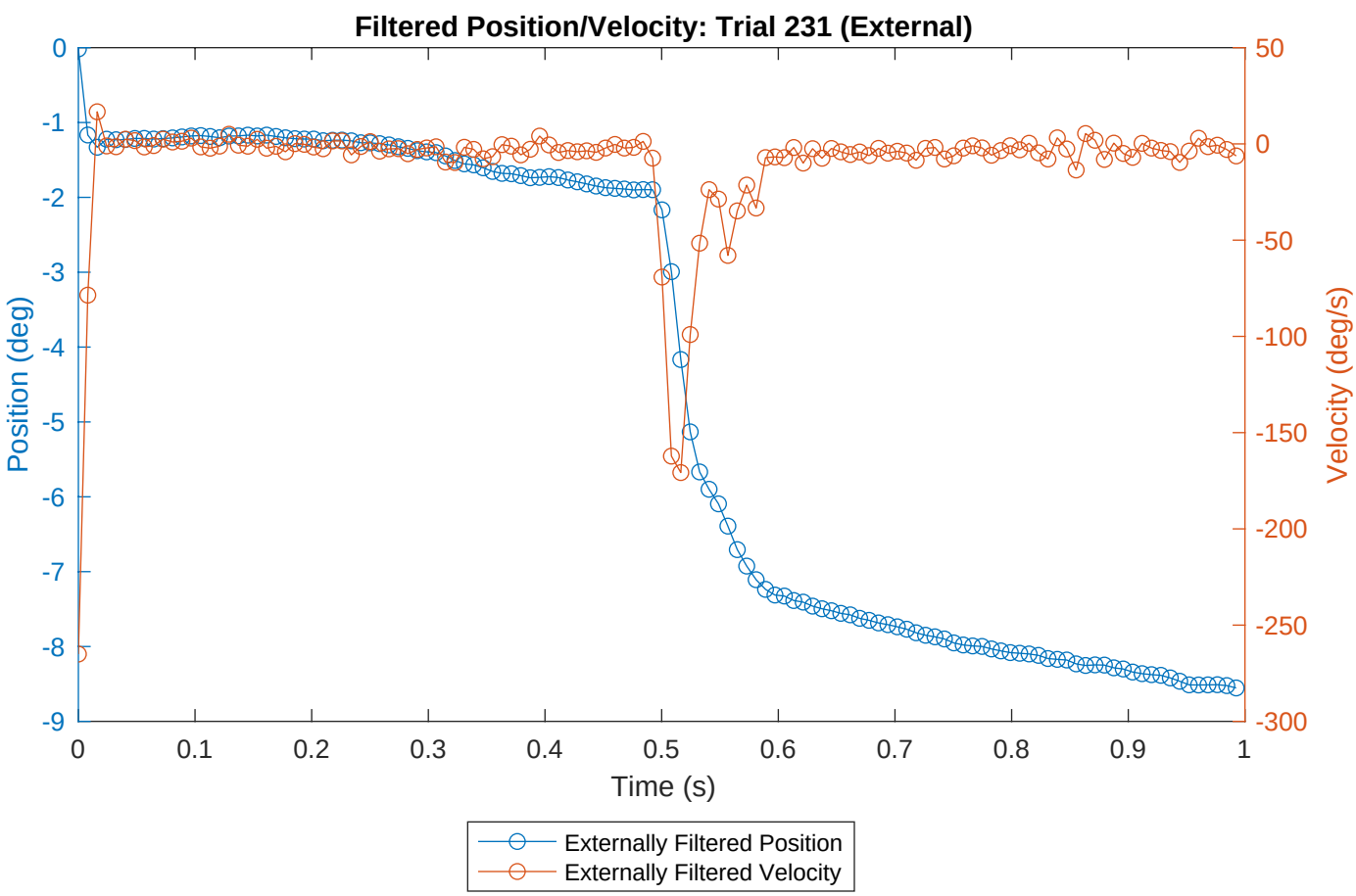

0
-2
-4
-6
-8
-10
-12
Position (deg)
0
0.1
0.2
0.3
0.4
0.5
0.6
0.7
0.8
0.9
1
Time (s)

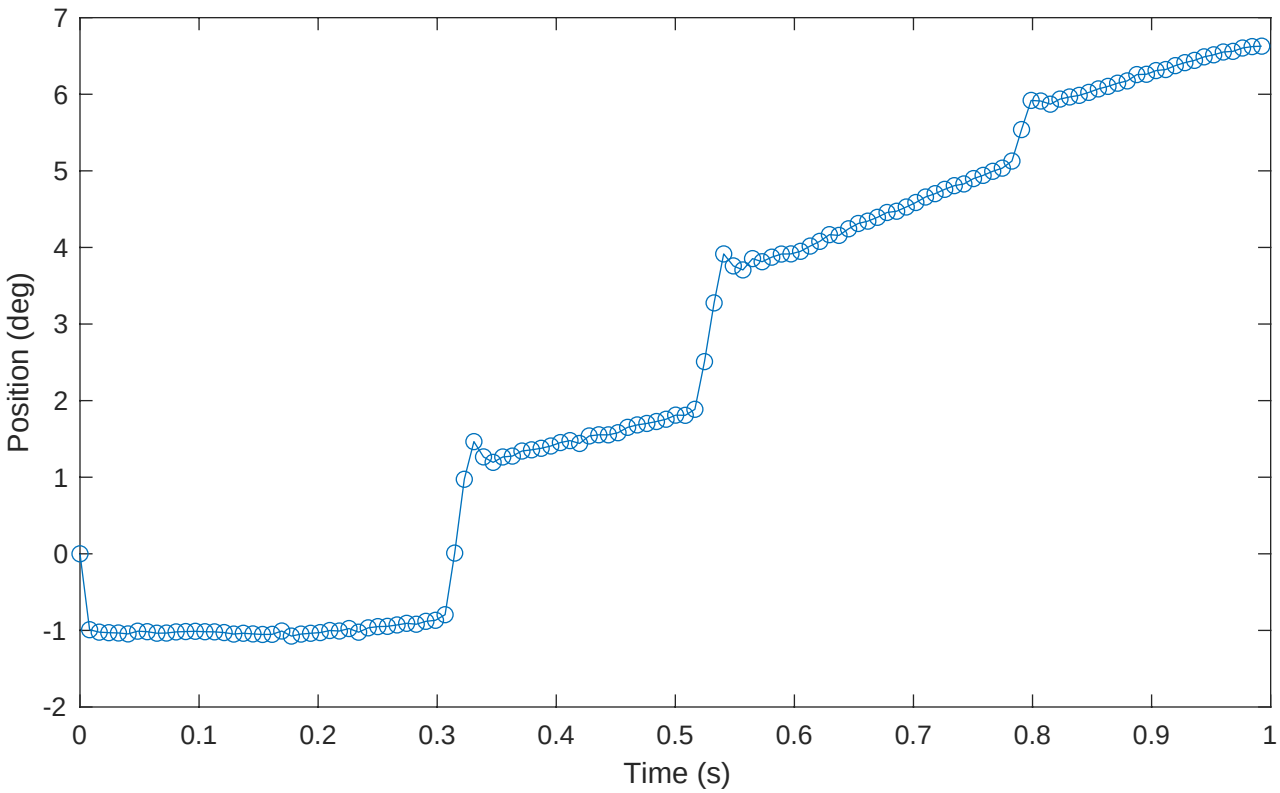

Filtered Position/Velocity: Trial 229 (External)
0
-2
-4
-6
-8
-10
-12
Position (deg)
50
0
-50
-100
-150
-200
-250
-300
Velocity (deg/s)
0
0.1
0.2
0.3
0.4
0.5
0.6
0.7
0.8
0.9
1
Time (s)
Externally Filtered Position
Externally Filtered Velocity

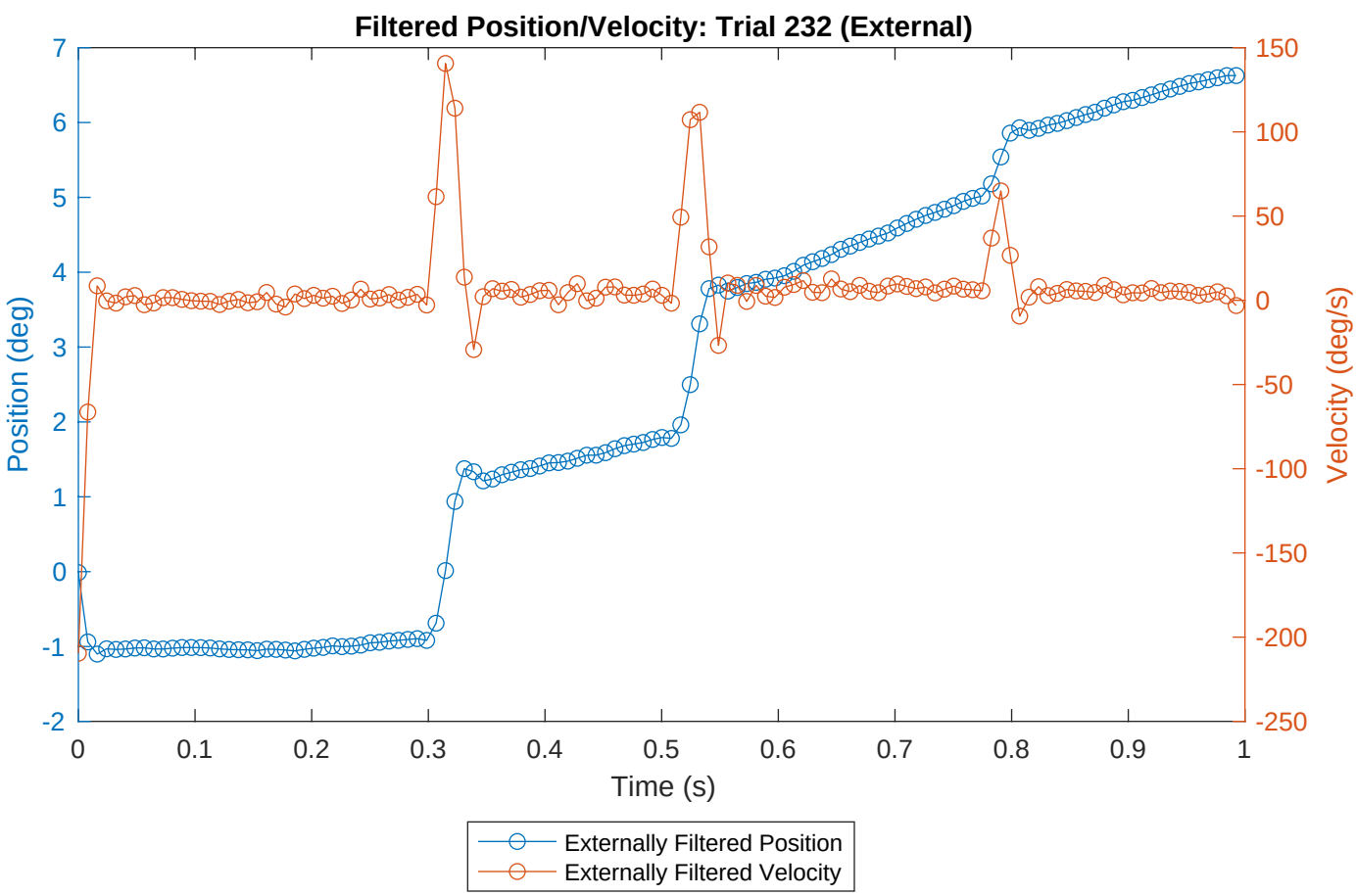

Position (deg)
Time (s)

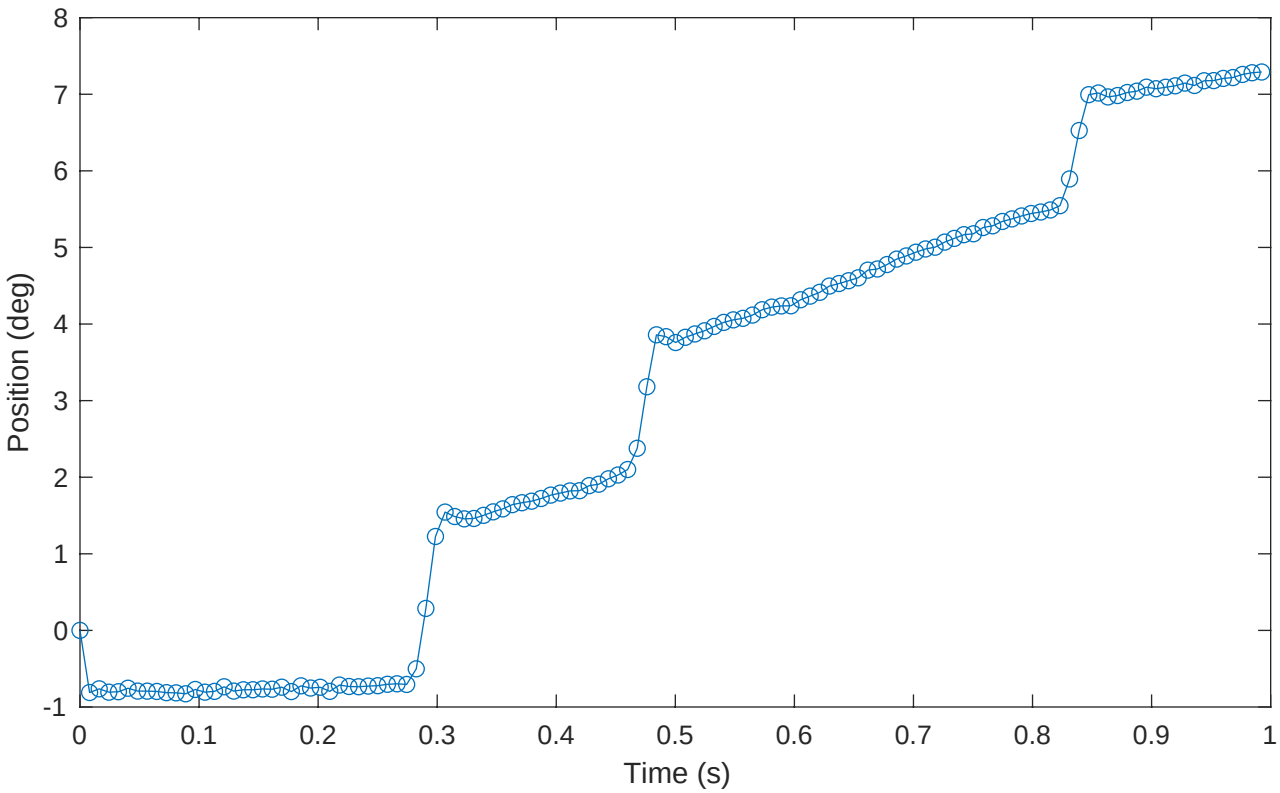

Filtered Position/Velocity: Trial 230 (External)
Position (deg)
Velocity (deg/s)
Time (s)
Externally Filtered Position
Externally Filtered Velocity

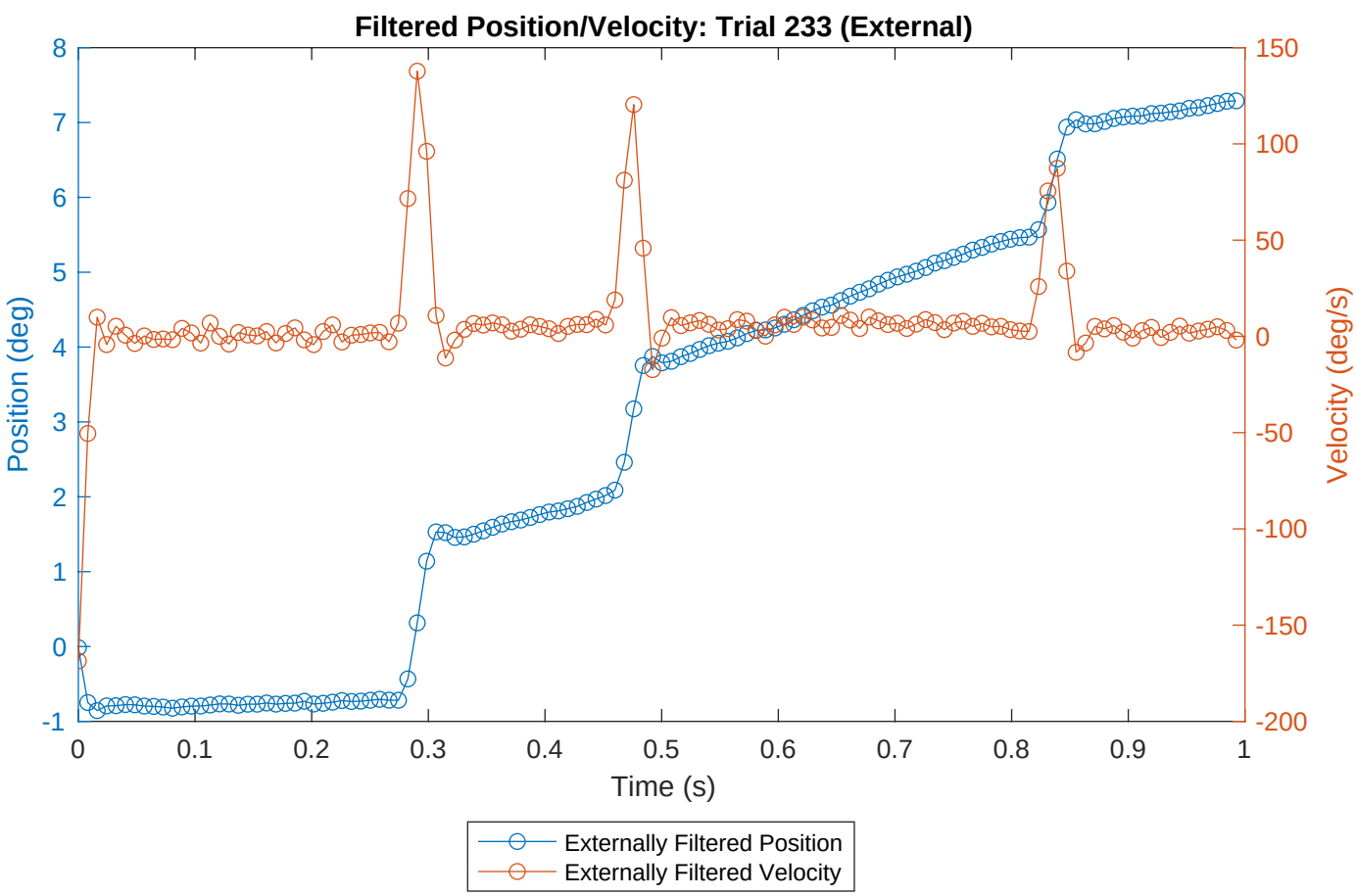

Position (deg)
Time (s)

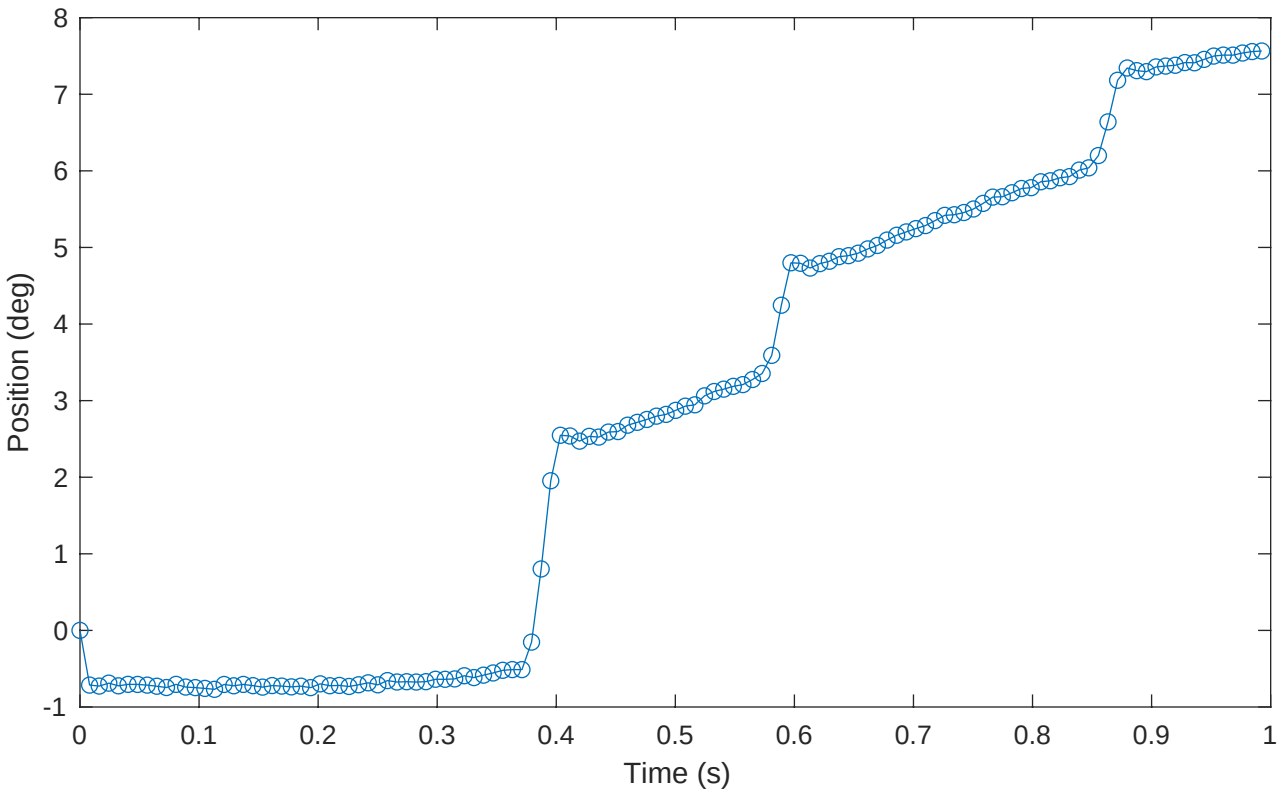

Filtered Position/Velocity: Trial 231 (External)
Position (deg)
Velocity (deg/s)
Time (s)
Externally Filtered Position
Externally Filtered Velocity

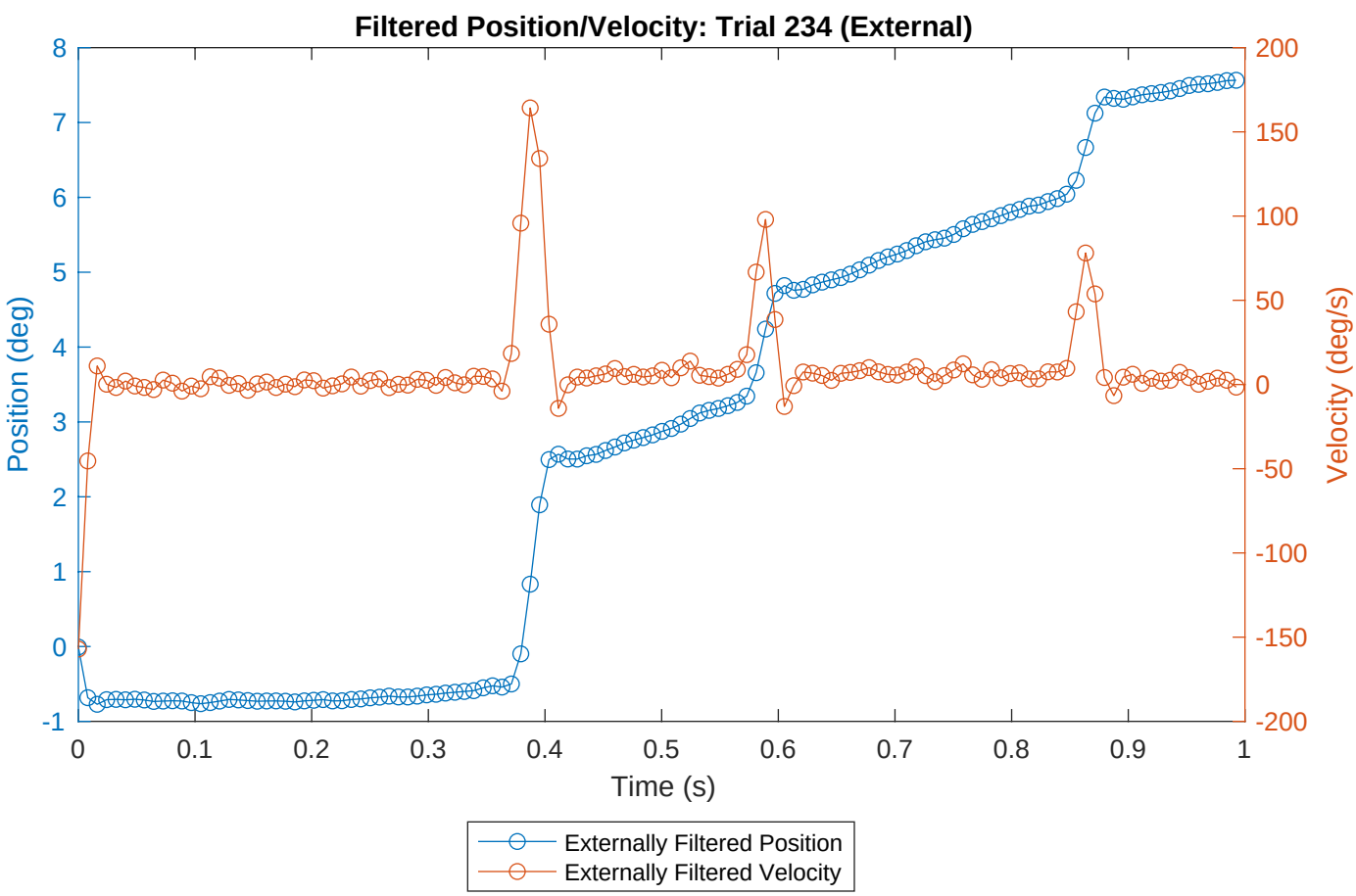

Position (deg)
Time (s)

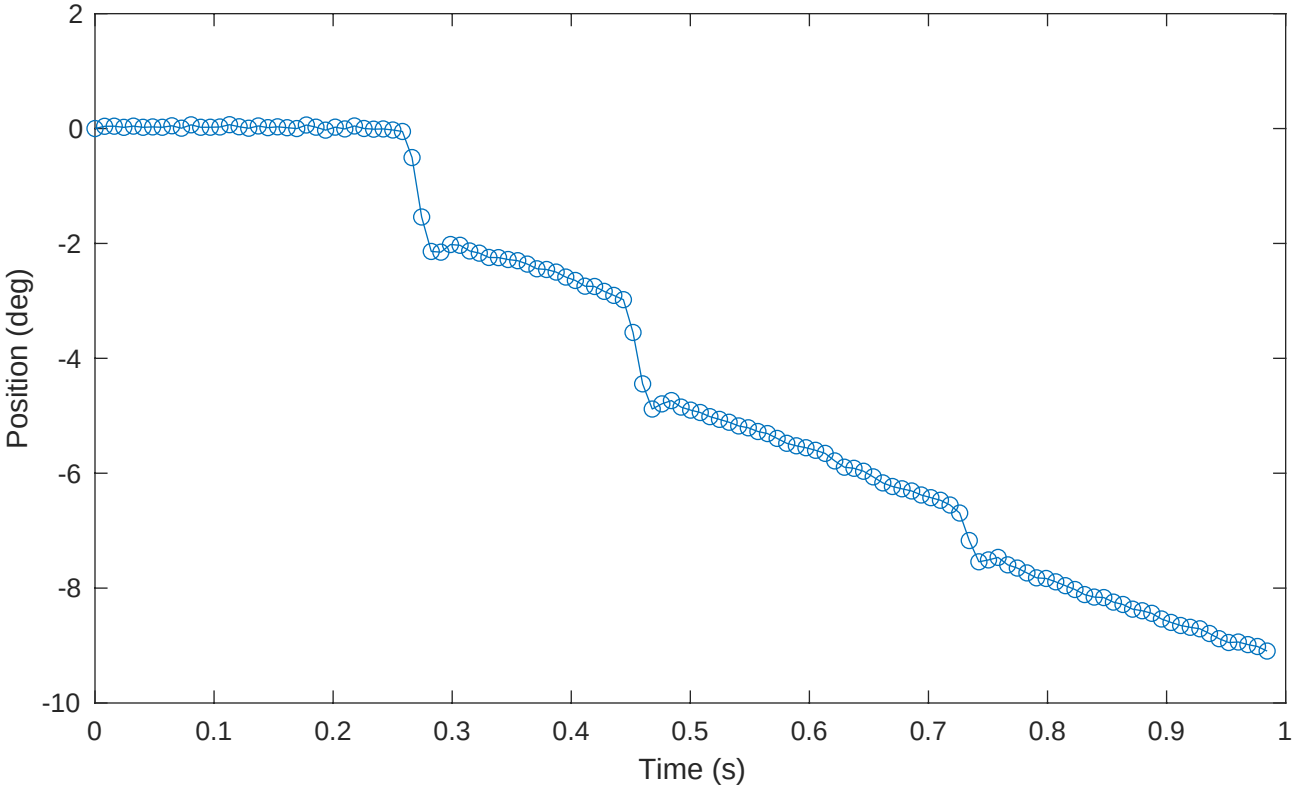

Filtered Position/Velocity: Trial 232 (External)
Position (deg)
Velocity (deg/s)
Time (s)
Externally Filtered Position
Externally Filtered Velocity

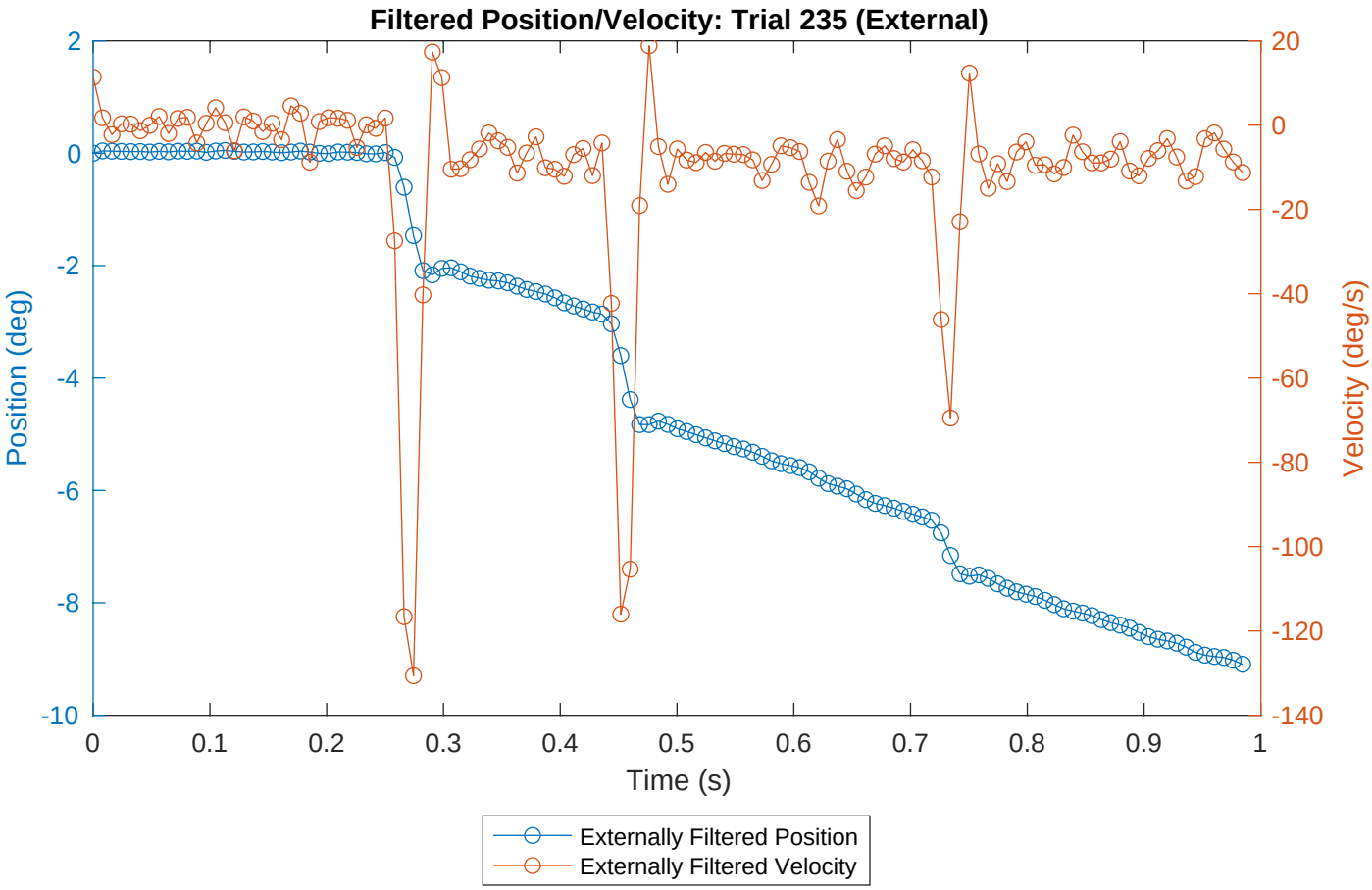

Position (deg)
Time (s)

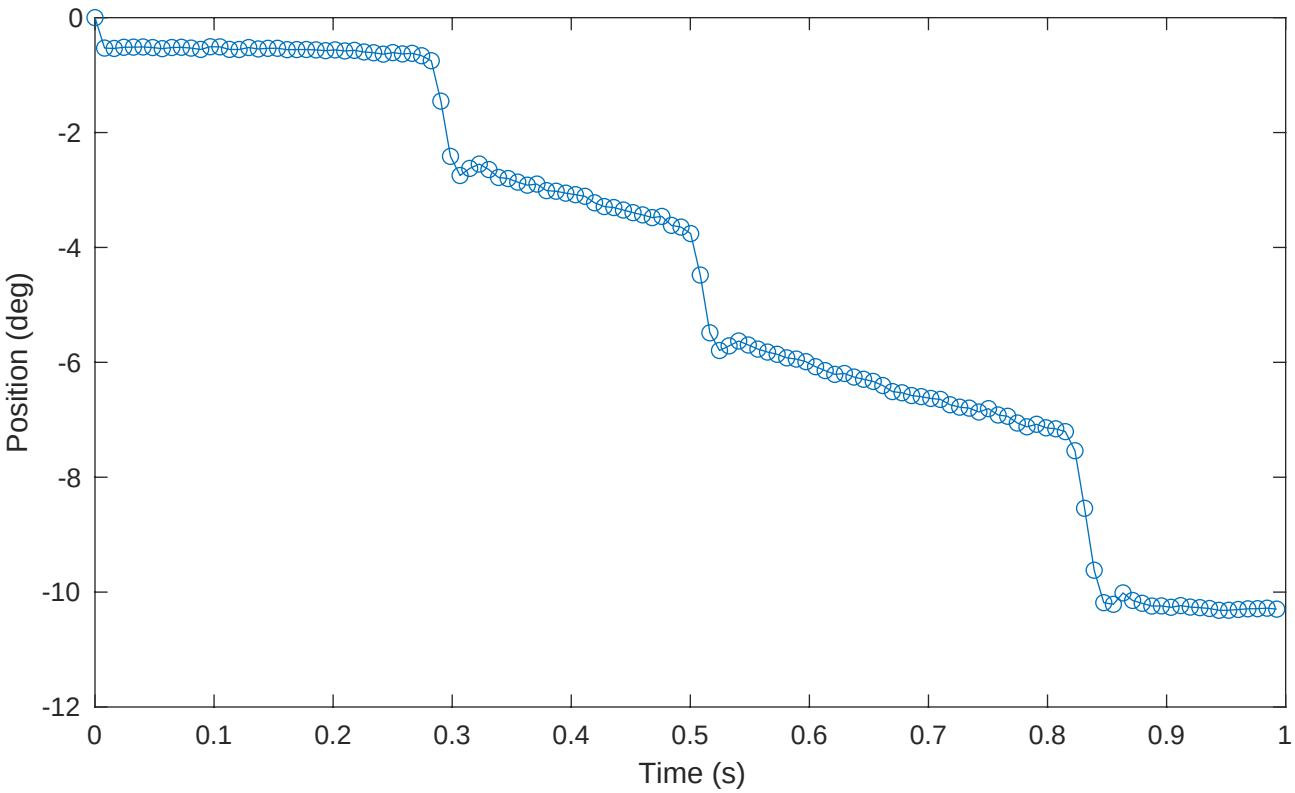

Filtered Position/Velocity: Trial 233 (External)
Position (deg)
Velocity (deg/s)
Time (s)
Externally Filtered Position
Externally Filtered Velocity

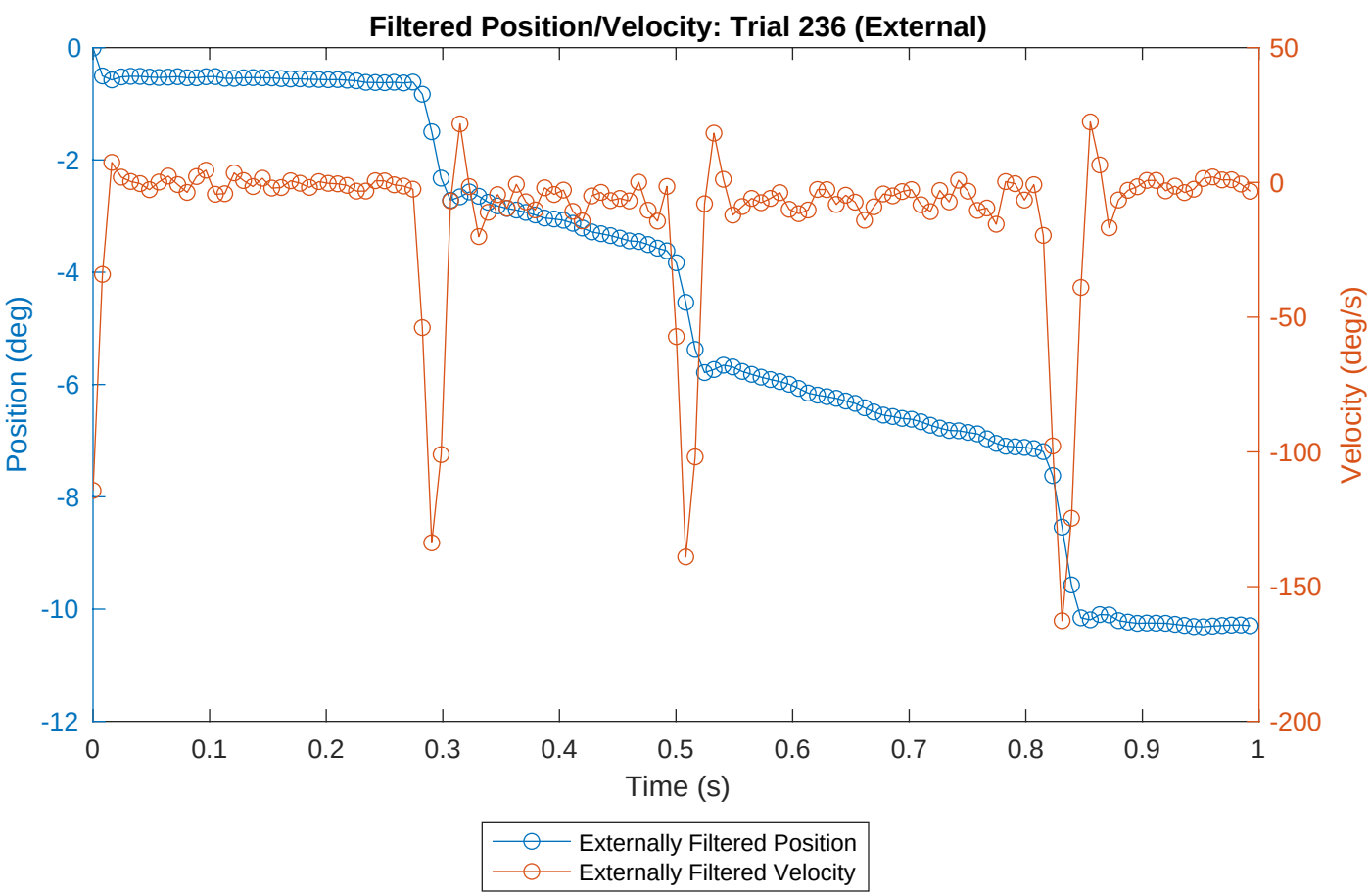

Position (deg)
Time (s)

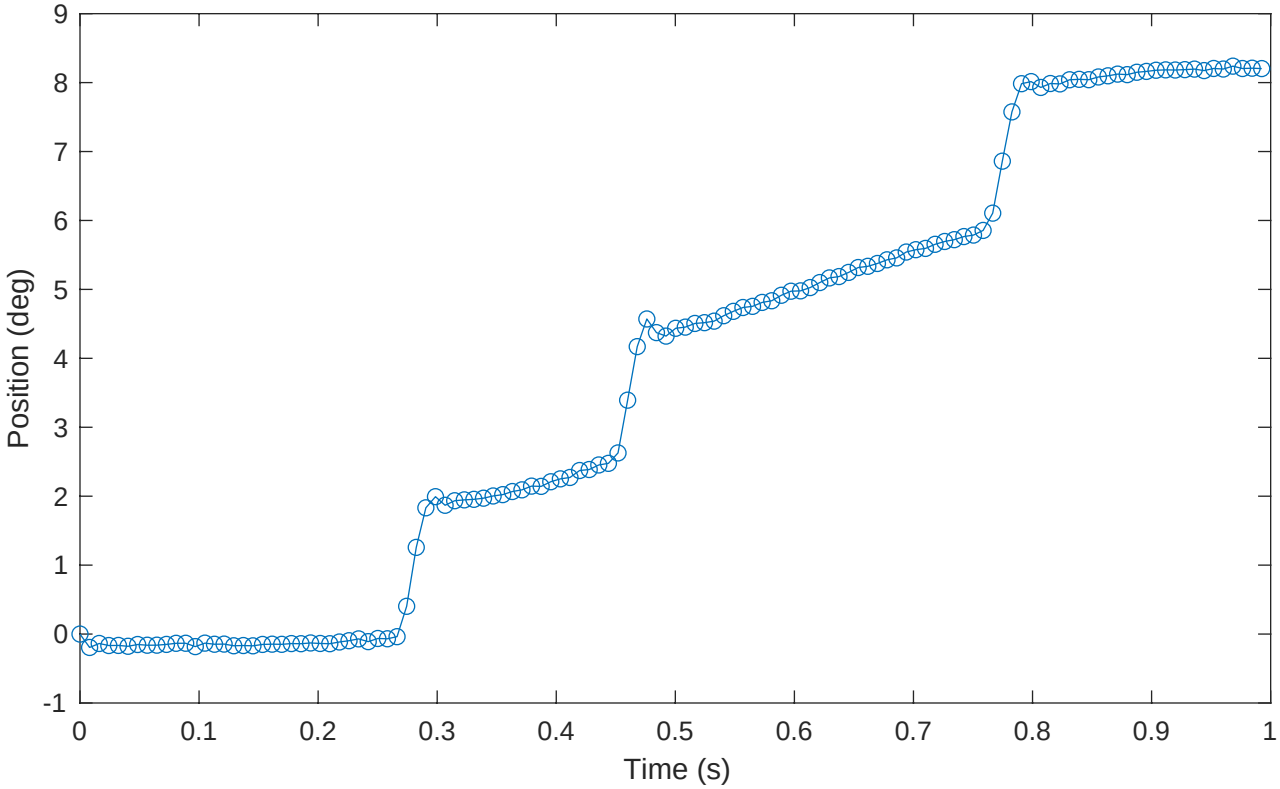

Filtered Position/Velocity: Trial 234 (External)
Position (deg)
Velocity (deg/s)
Time (s)
Externally Filtered Position
Externally Filtered Velocity

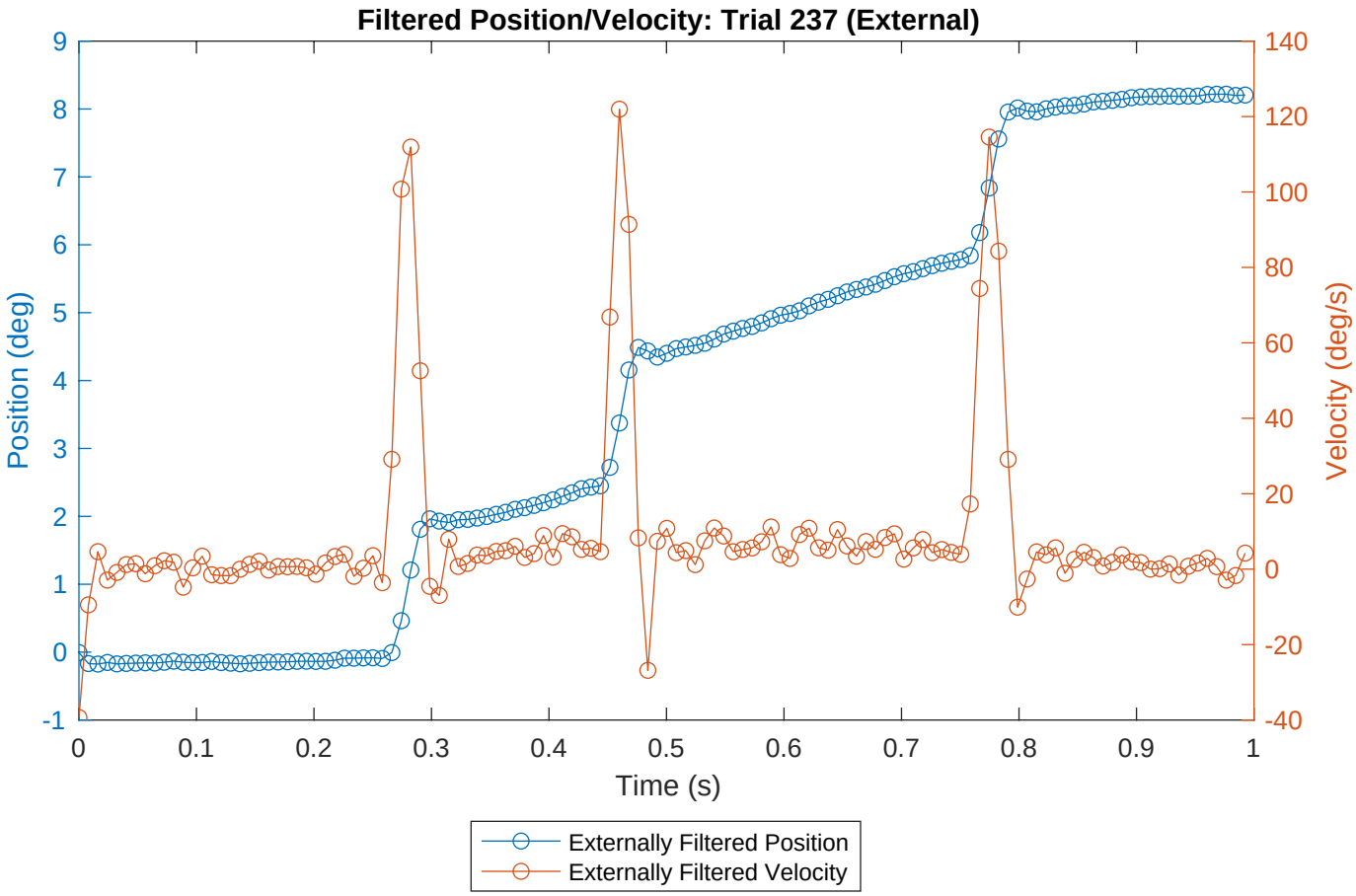

Position (deg)
Time (s)
2
0
-2
-4
-6
-8
-10
0
0.1
0.2
0.3
0.4
0.5
0.6
0.7
0.8
0.9
1

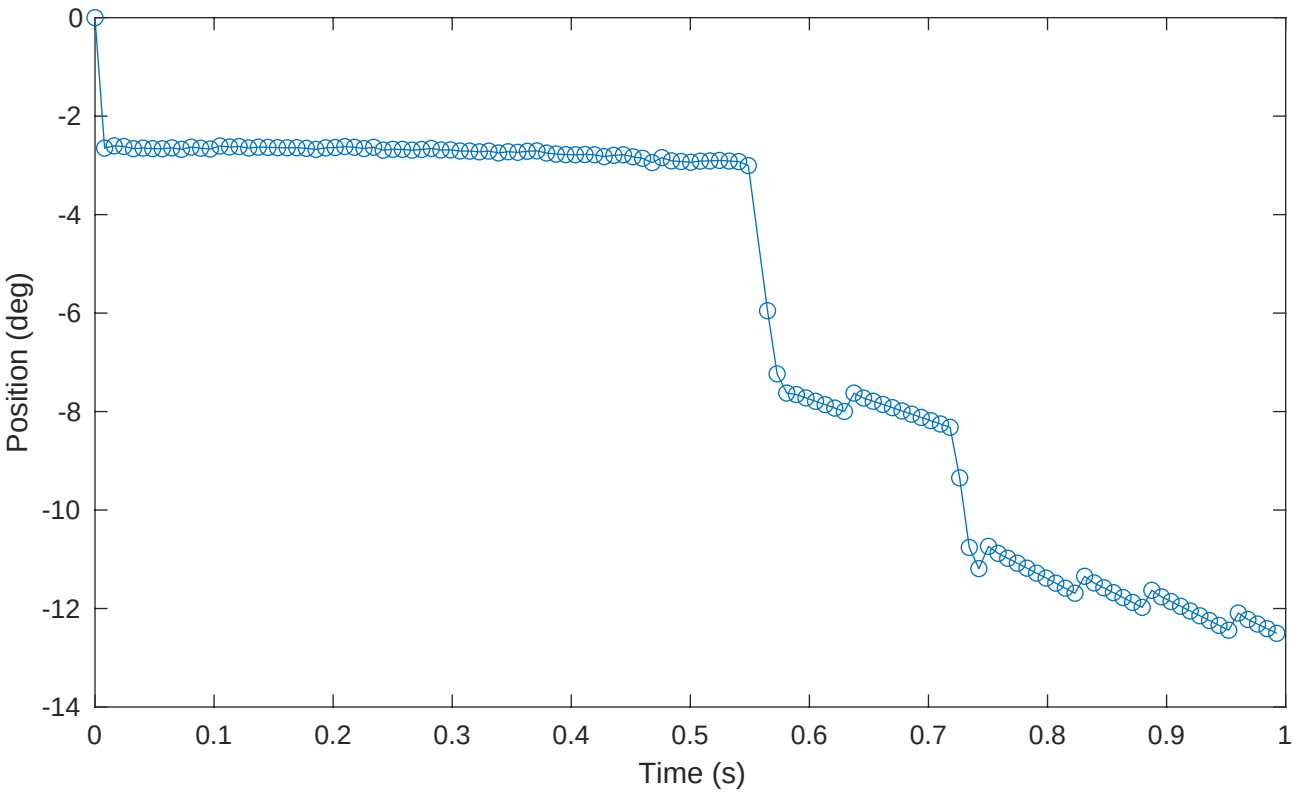

Filtered Position/Velocity: Trial 235 (External)
Position (deg)
Velocity (deg/s)
Time (s)
2
0
-2
-4
-6
-8
-10
20
0
-20
-40
-60
-80
-100
-120
-140
0
0.1
0.2
0.3
0.4
0.5
0.6
0.7
0.8
0.9
1
Externally Filtered Position
Externally Filtered Velocity

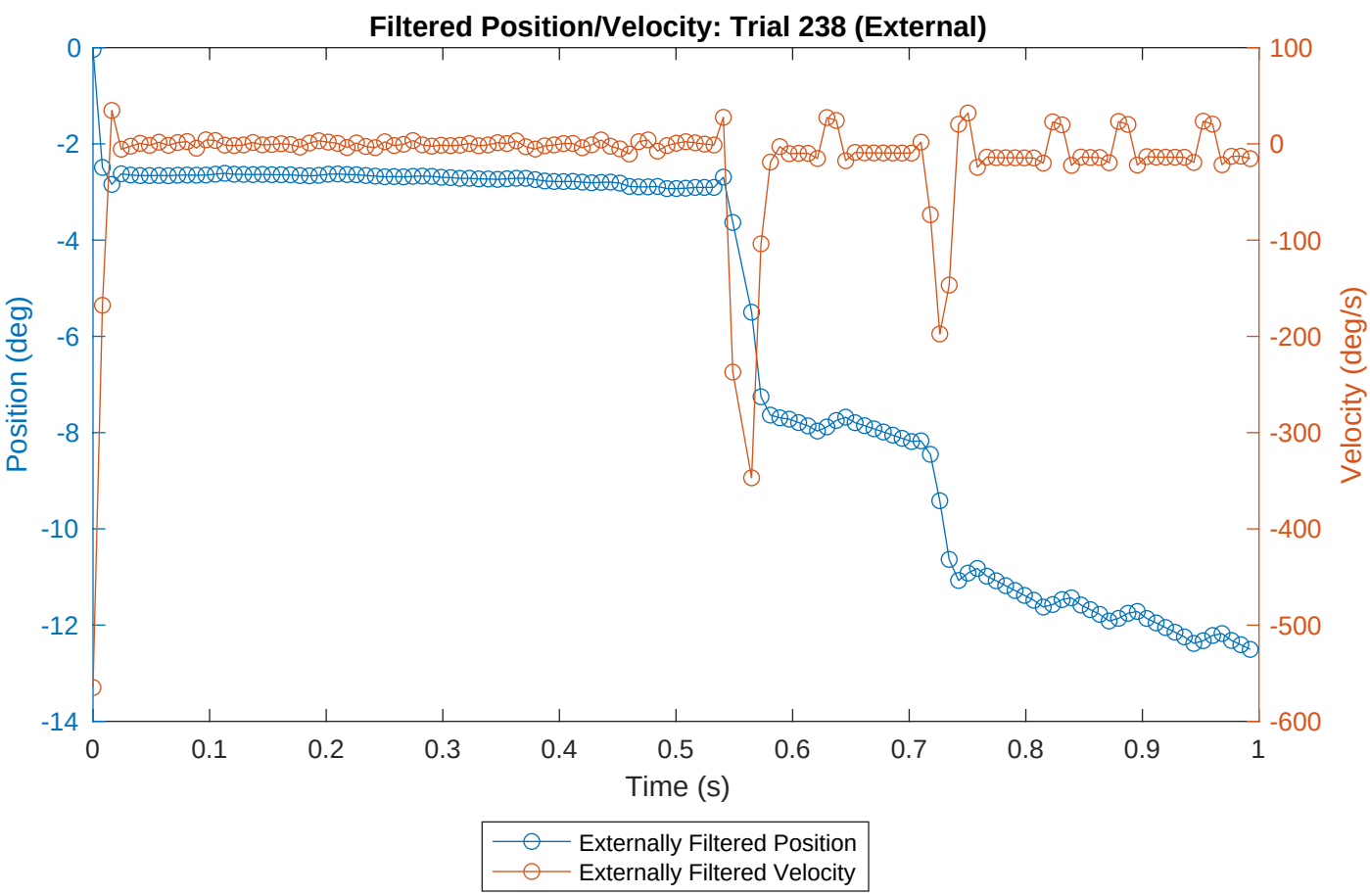

0
-2
-4
-6
-8
-10
-12
Position (deg)
0
0.1
0.2
0.3
0.4
0.5
0.6
0.7
0.8
0.9
1
Time (s)

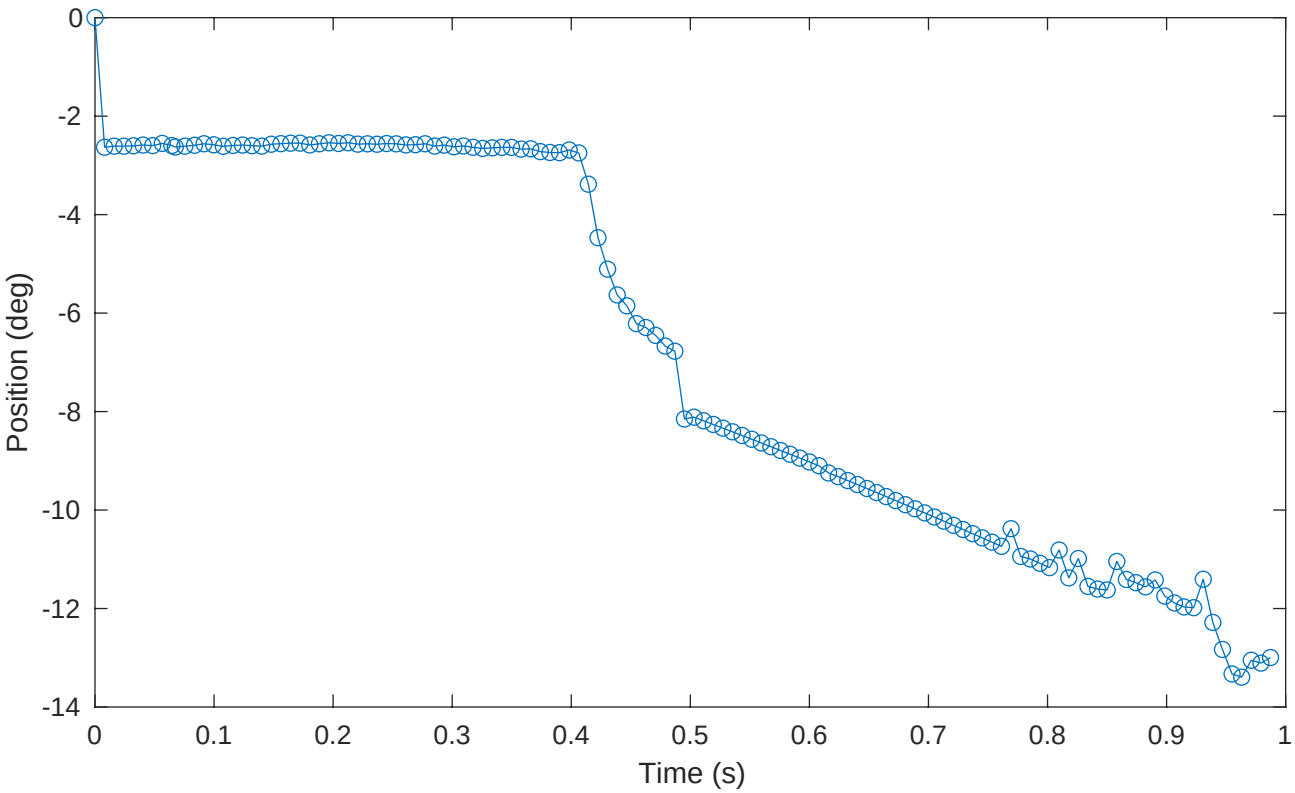

Filtered Position/Velocity: Trial 236 (External)
0
-2
-4
-6
-8
-10
-12
Position (deg)
50
0
-50
-100
-150
-200
Velocity (deg/s)
0
0.1
0.2
0.3
0.4
0.5
0.6
0.7
0.8
0.9
1
Time (s)
Externally Filtered Position
Externally Filtered Velocity

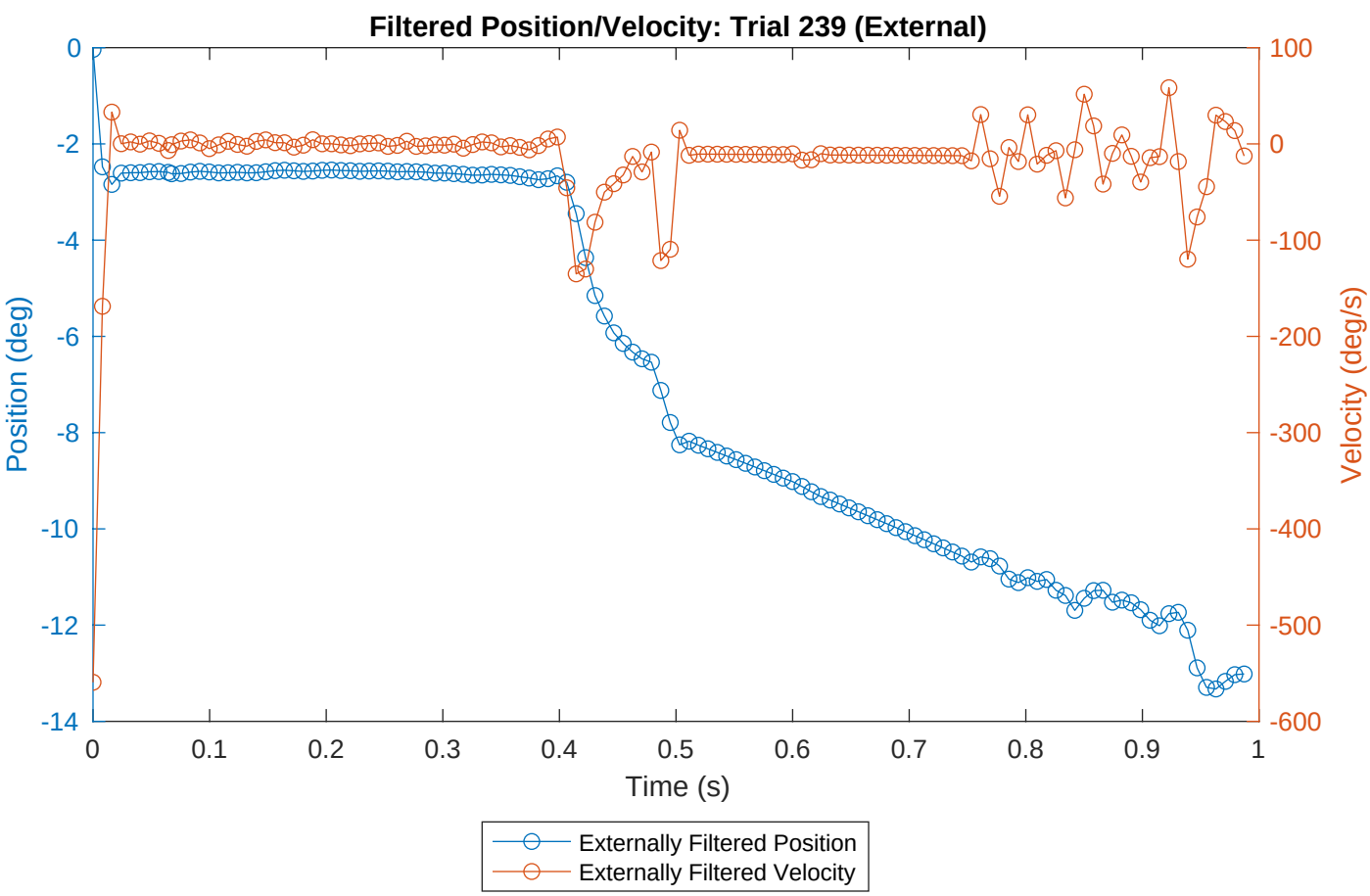

Position (deg)
Time (s)

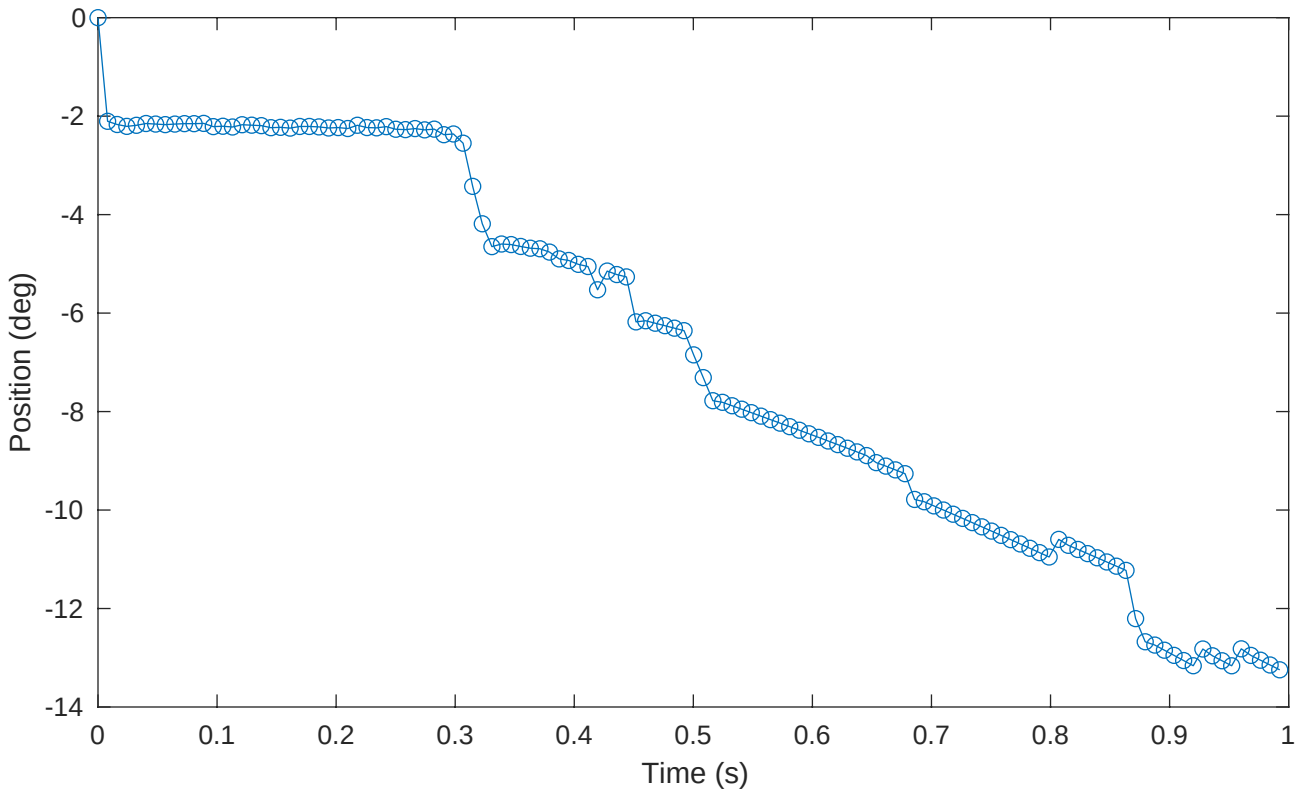

Filtered Position/Velocity: Trial 237 (External)
Position (deg)
Velocity (deg/s)
Time (s)
Externally Filtered Position
Externally Filtered Velocity

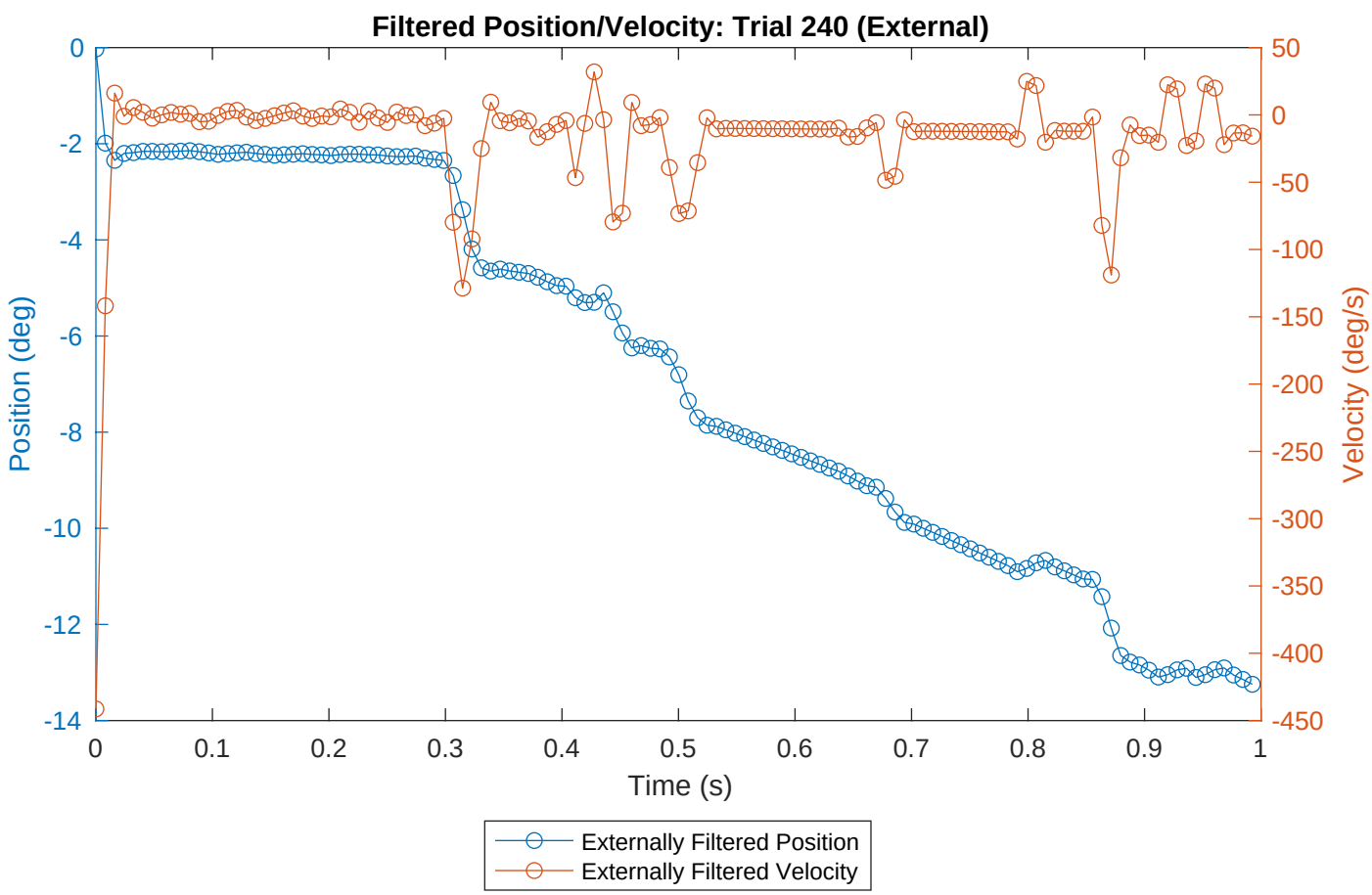

0
-2
-4
-6
-8
-10
-12
-14
Position (deg)
0
0.1
0.2
0.3
0.4
0.5
0.6
0.7
0.8
0.9
1
Time (s)

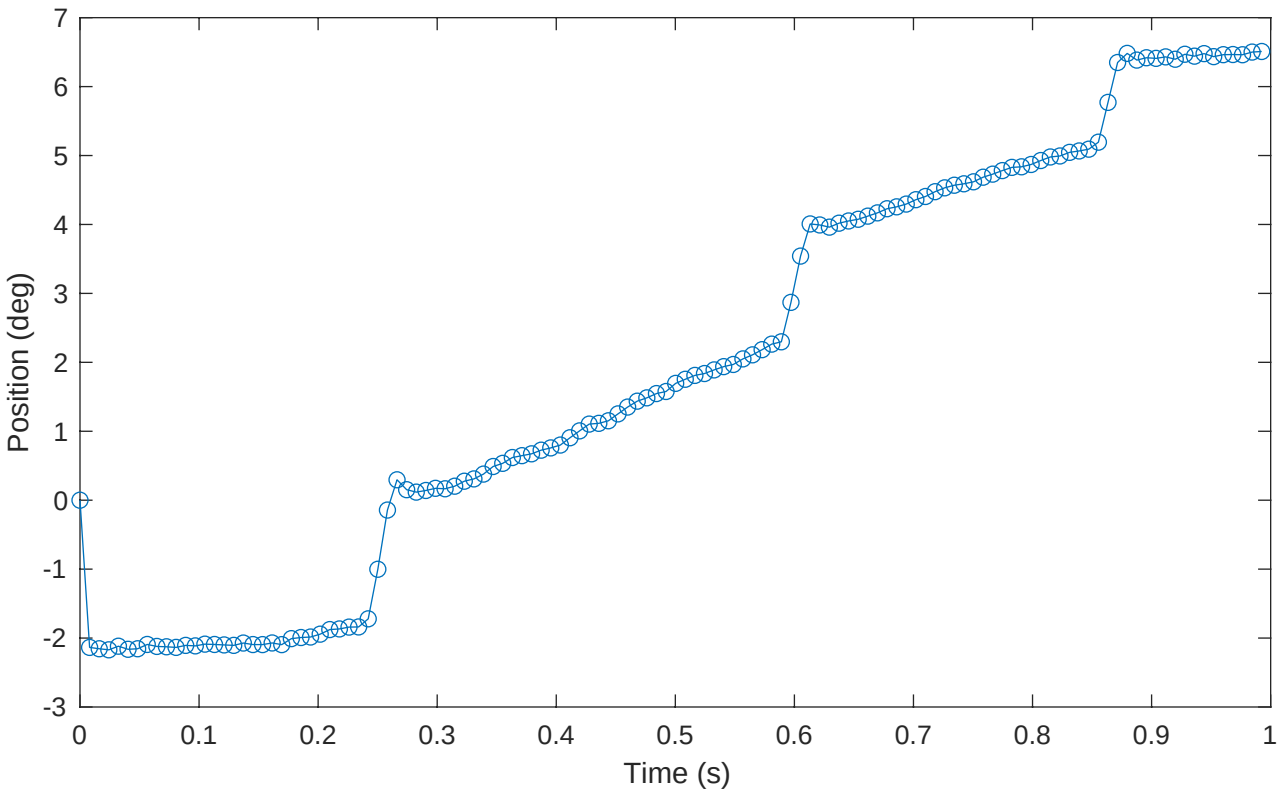

Filtered Position/Velocity: Trial 238 (External)
0
-2
-4
-6
-8
-10
-12
-14
Position (deg)
100
0
-100
-200
-300
-400
-500
-600
Velocity (deg/s)
0
0.1
0.2
0.3
0.4
0.5
0.6
0.7
0.8
0.9
1
Time (s)
Externally Filtered Position
Externally Filtered Velocity

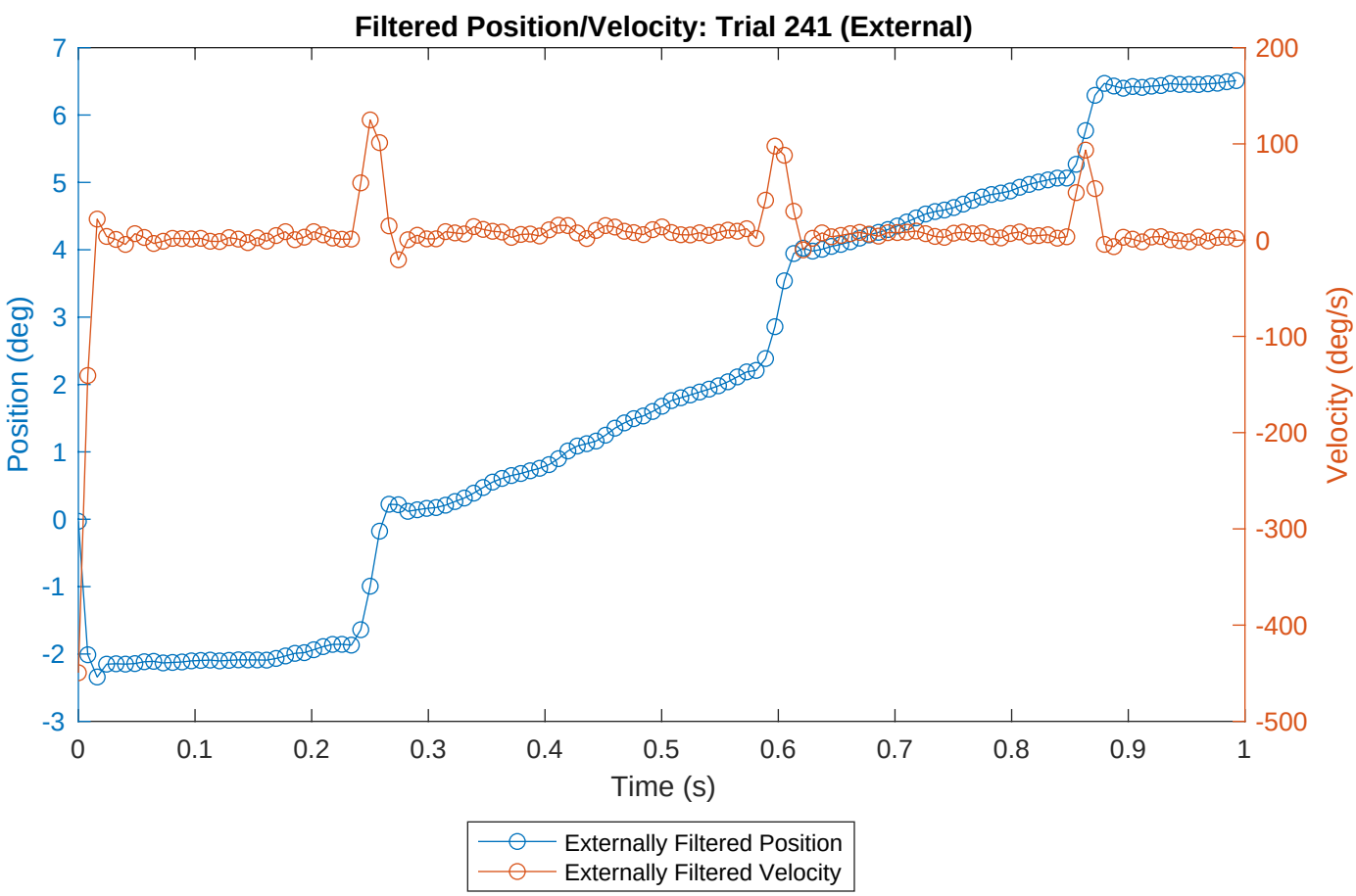

0
-2
-4
-6
-8
-10
-12
-14
Position (deg)
0
0.1
0.2
0.3
0.4
0.5
0.6
0.7
0.8
0.9
1
Time (s)

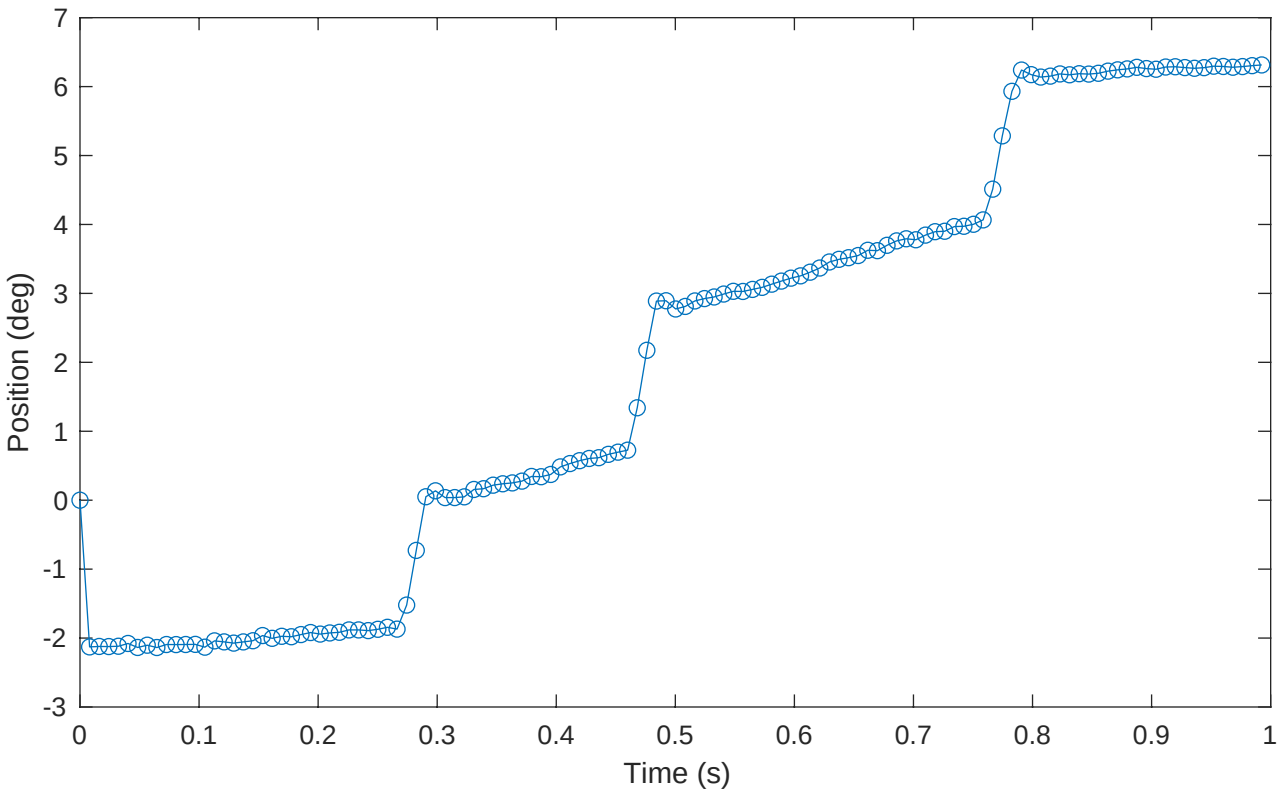

Filtered Position/Velocity: Trial 239 (External)
0
-2
-4
-6
-8
-10
-12
-14
Position (deg)
100
0
-100
-200
-300
-400
-500
-600
Velocity (deg/s)
0
0.1
0.2
0.3
0.4
0.5
0.6
0.7
0.8
0.9
1
Time (s)
Externally Filtered Position
Externally Filtered Velocity

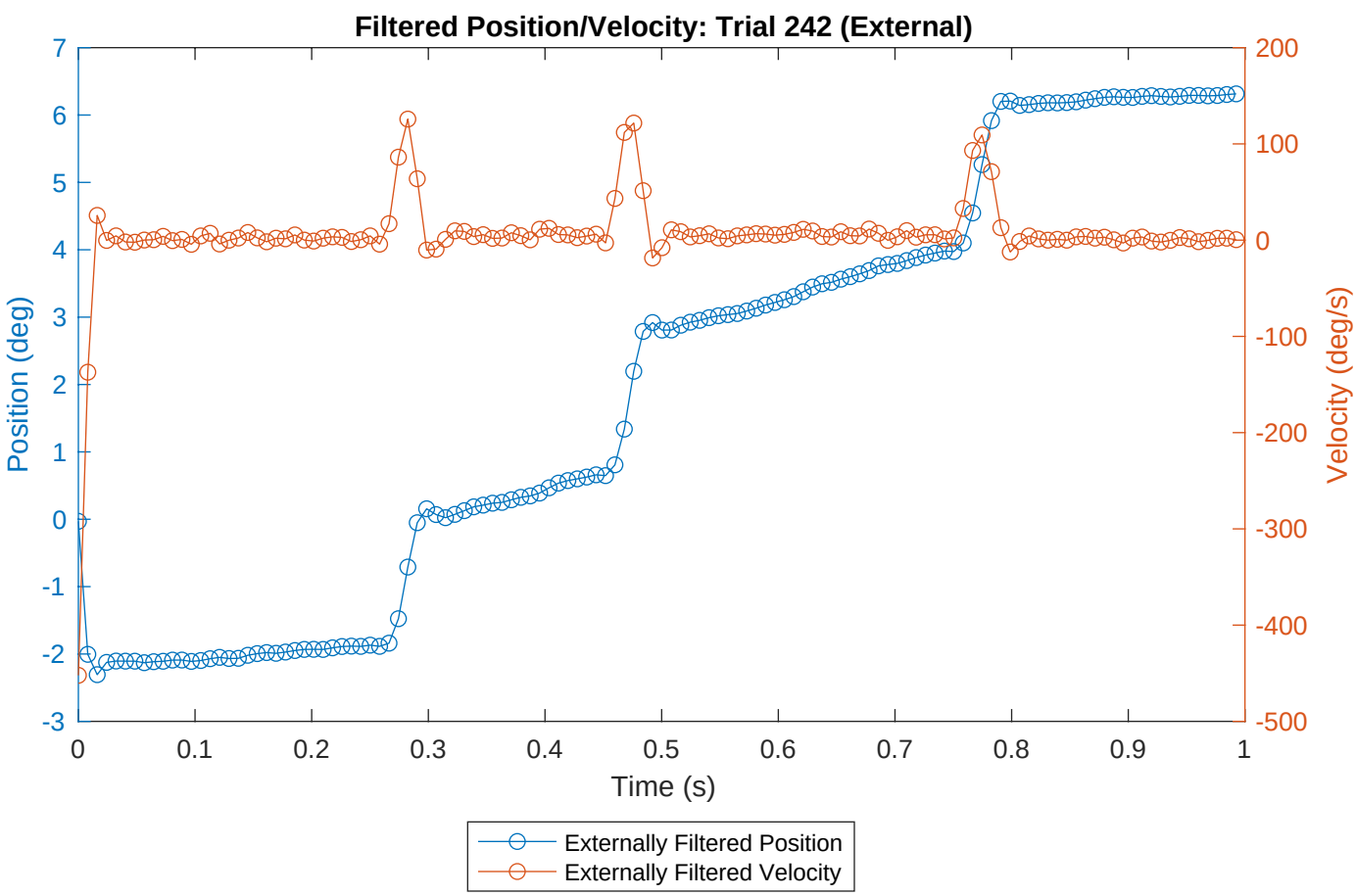

Position (deg)
Time (s)

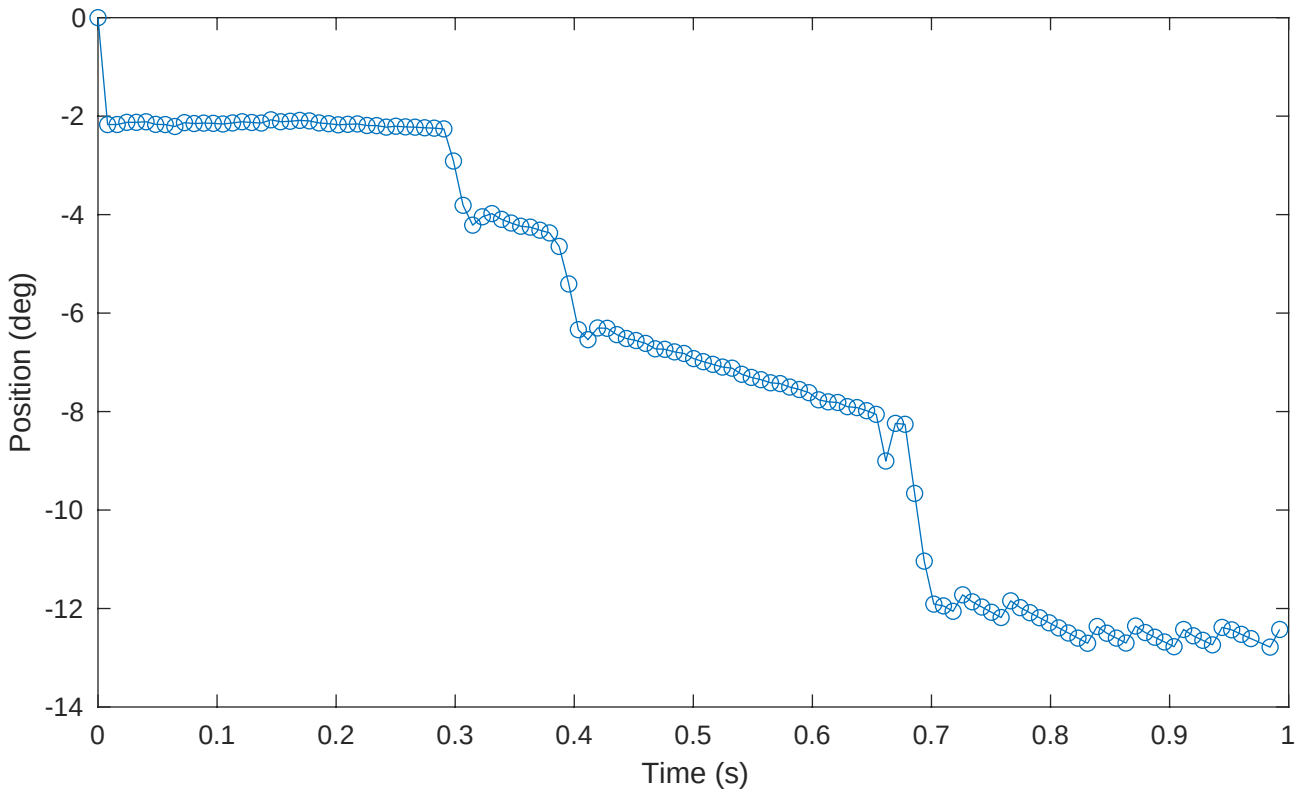

Filtered Position/Velocity: Trial 240 (External)
Position (deg)
Velocity (deg/s)
Time (s)
Externally Filtered Position
Externally Filtered Velocity

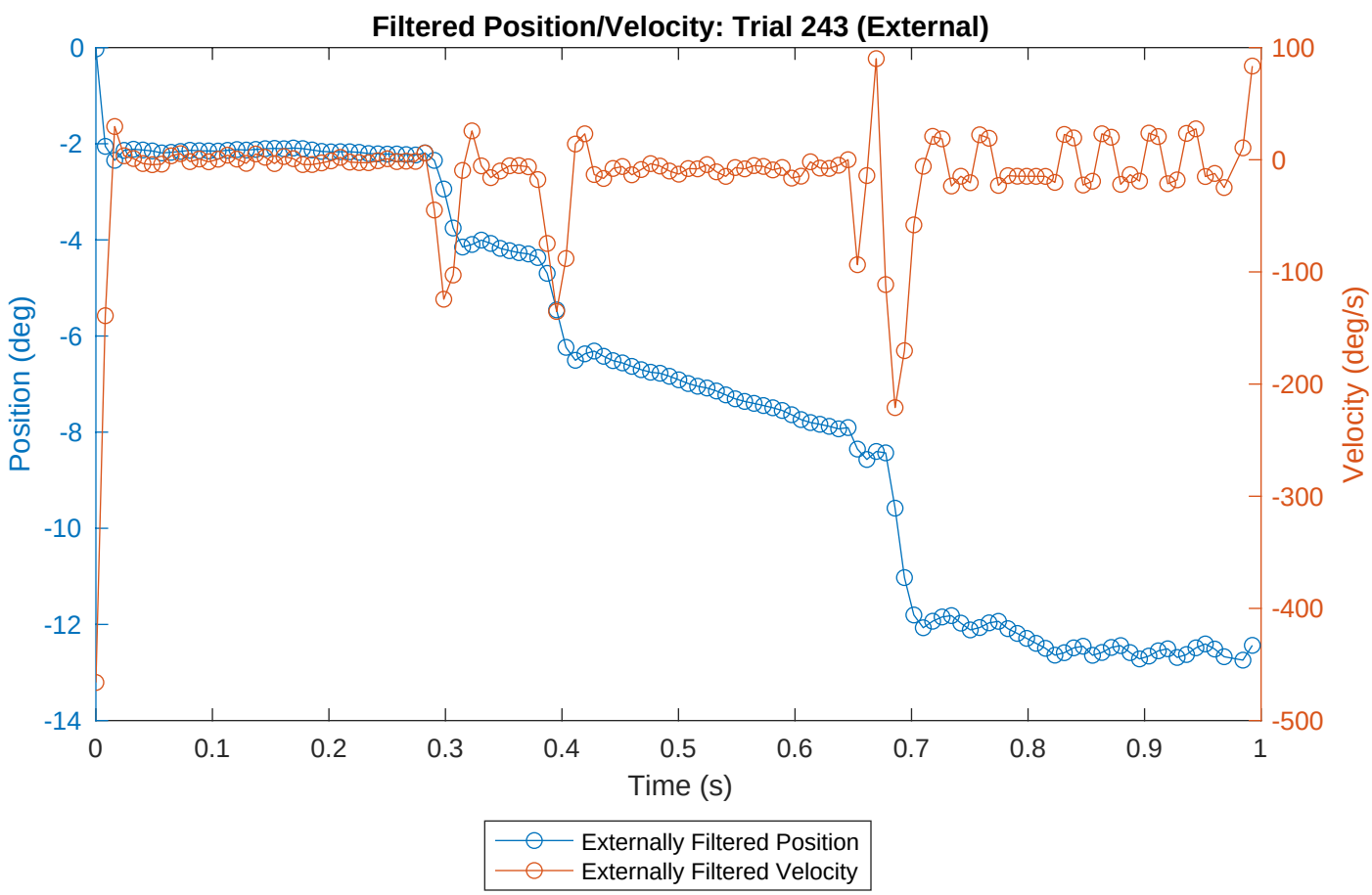

Position (deg)
Time (s)

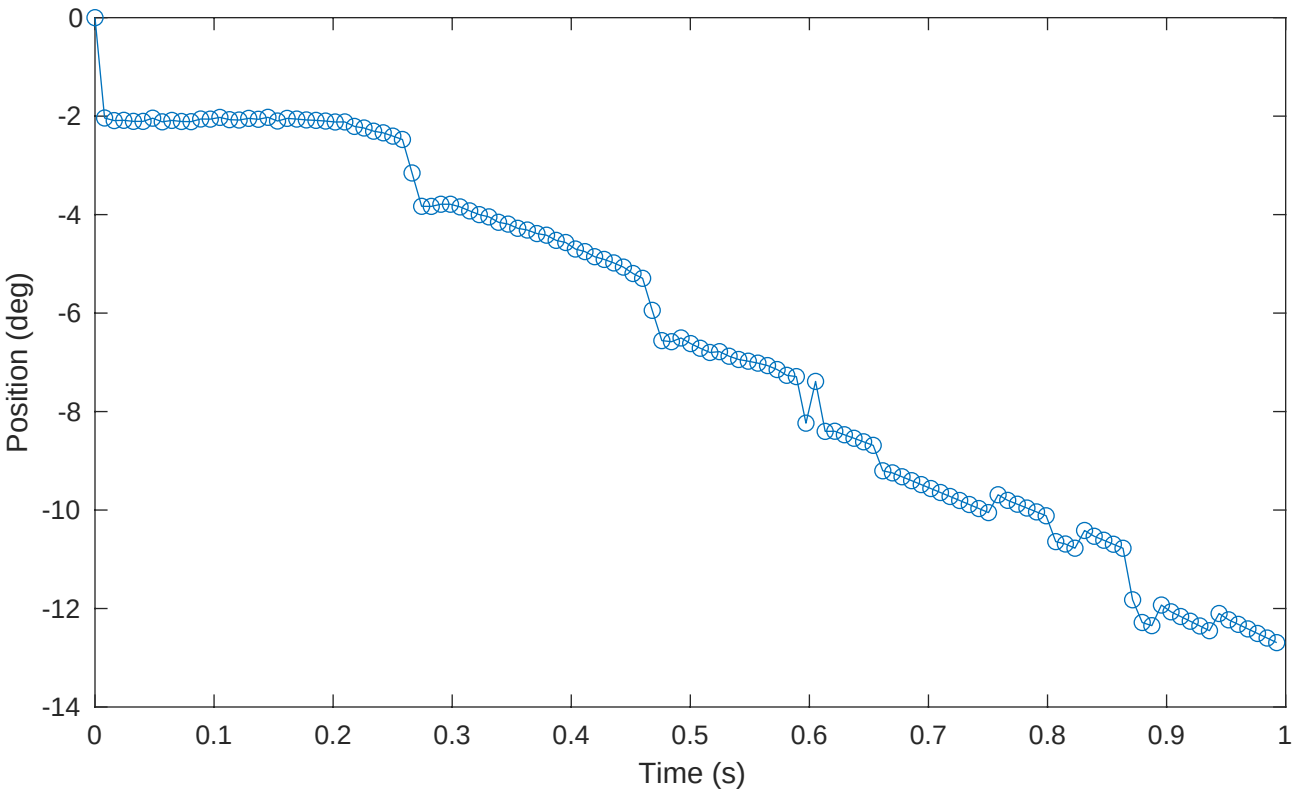

Filtered Position/Velocity: Trial 241 (External)
Position (deg)
Velocity (deg/s)
Time (s)
Externally Filtered Position
Externally Filtered Velocity

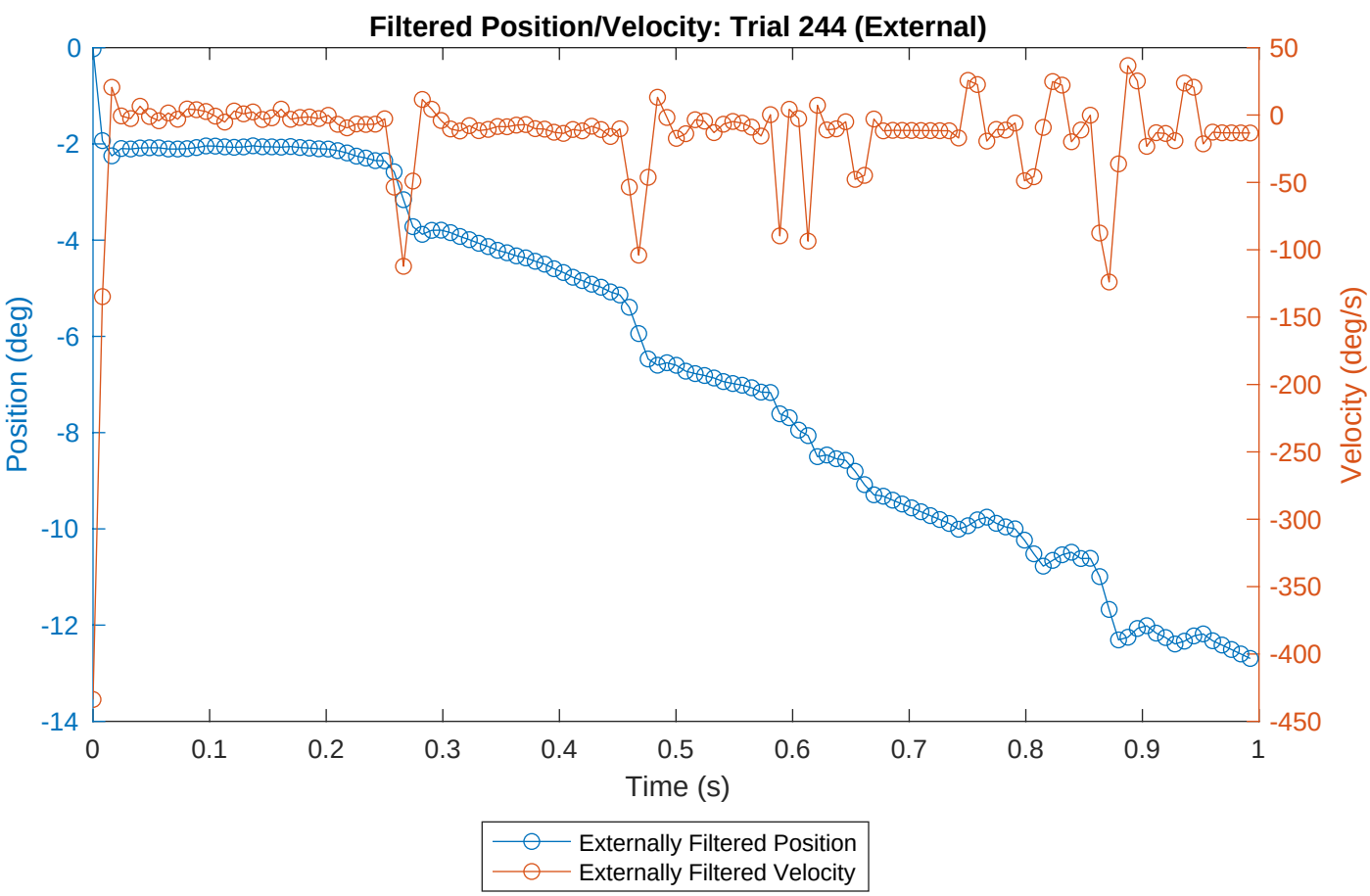

Position (deg)
Time (s)

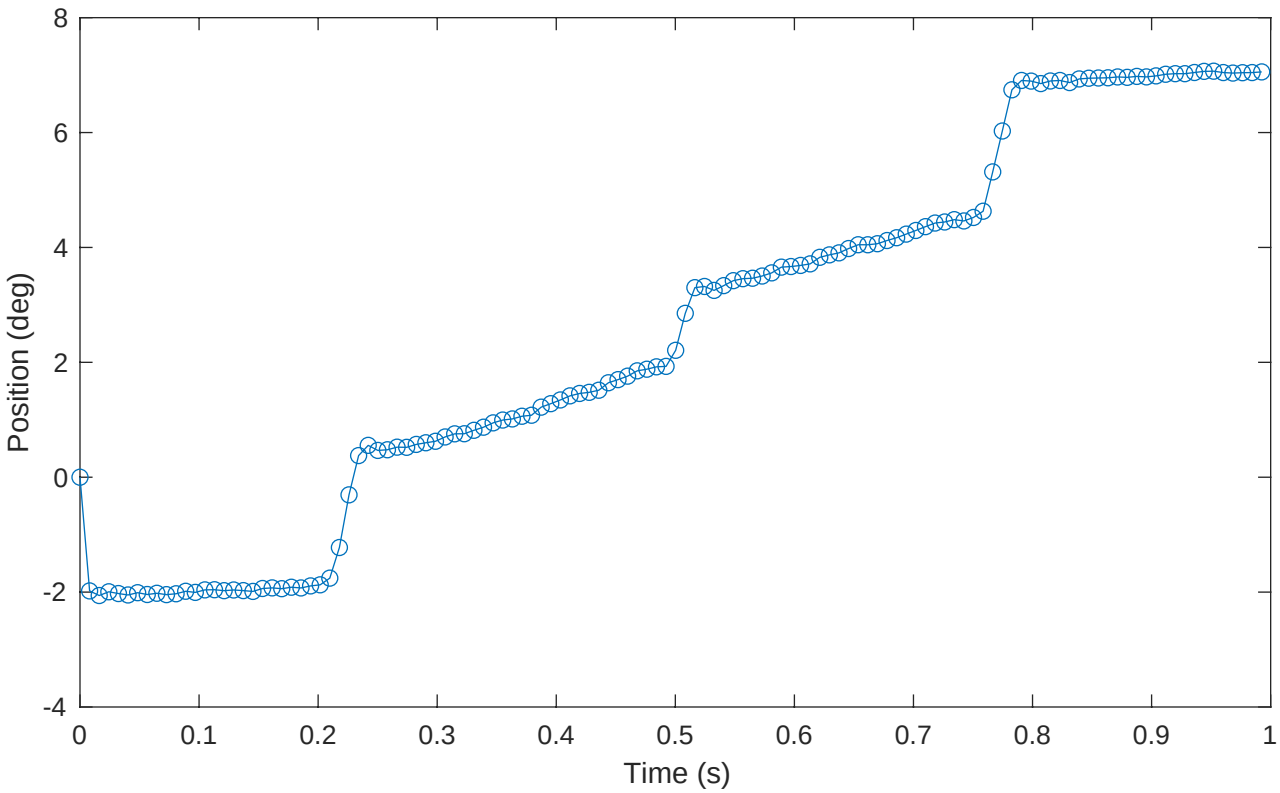

Filtered Position/Velocity: Trial 242 (External)
Position (deg)
Velocity (deg/s)
Time (s)
Externally Filtered Position
Externally Filtered Velocity

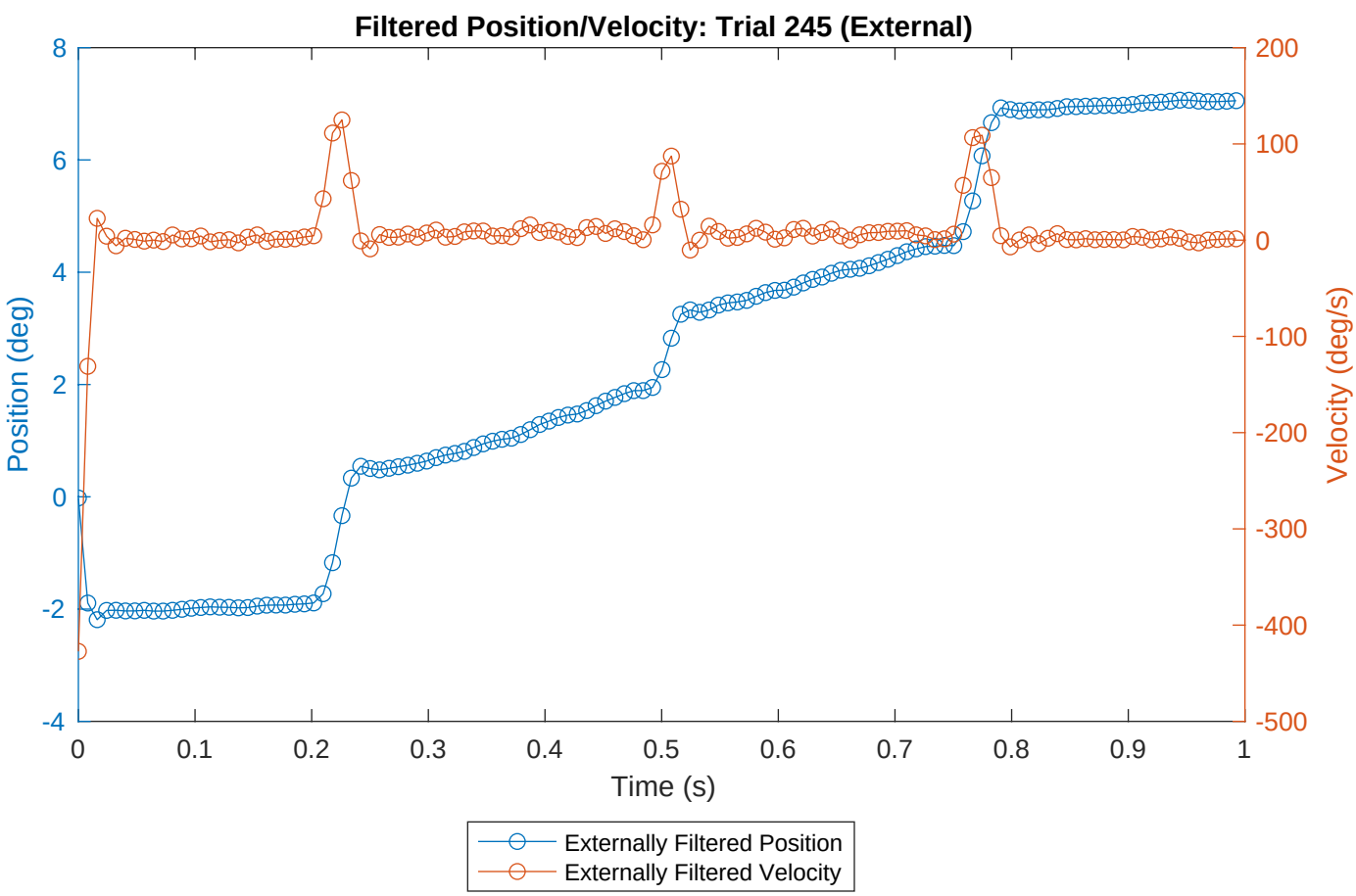

Position (deg)
Time (s)
0
-2
-4
-6
-8
-10
-12
-14
0
0.1
0.2
0.3
0.4
0.5
0.6
0.7
0.8
0.9
1

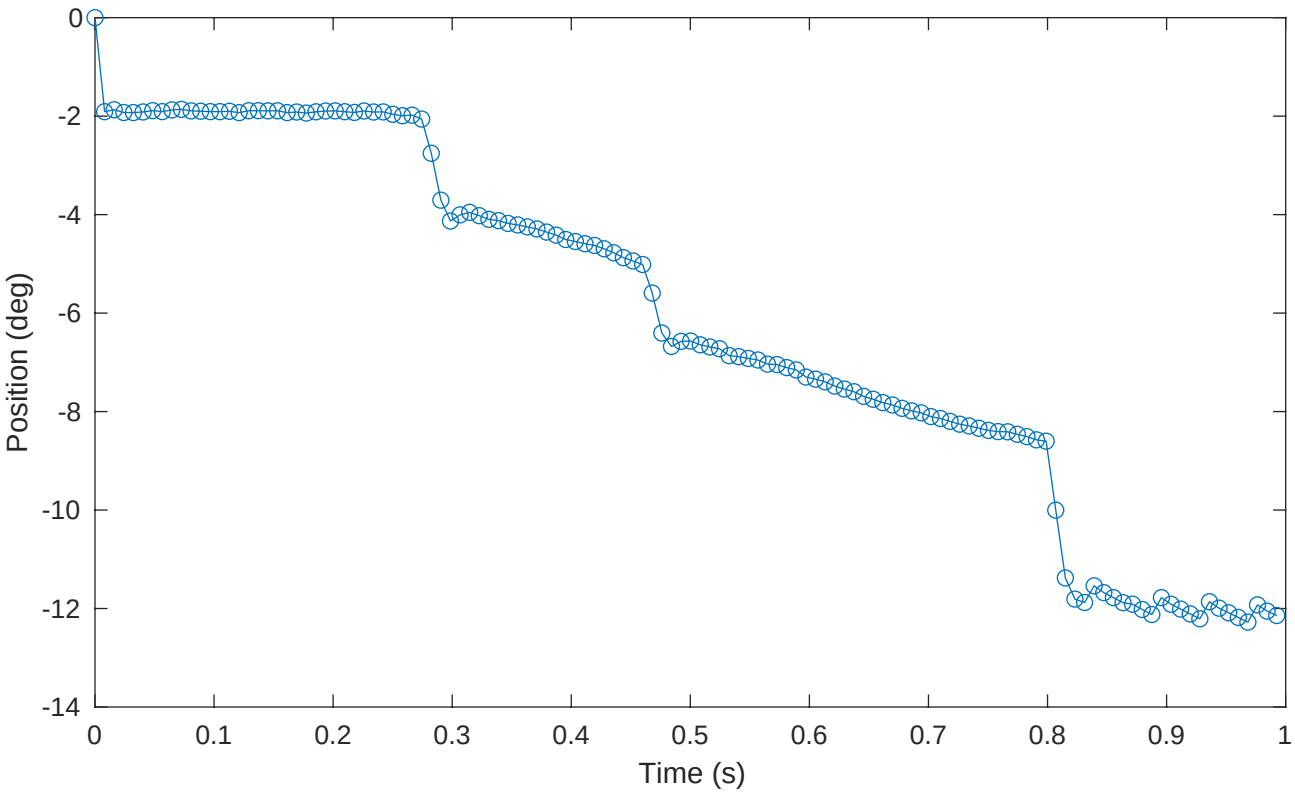

Filtered Position/Velocity: Trial 243 (External)
Position (deg)
Velocity (deg/s)
Time (s)
0
-2
-4
-6
-8
-10
-12
-14
100
0
-100
-200
-300
-400
-500
0
0.1
0.2
0.3
0.4
0.5
0.6
0.7
0.8
0.9
1
Externally Filtered Position
Externally Filtered Velocity

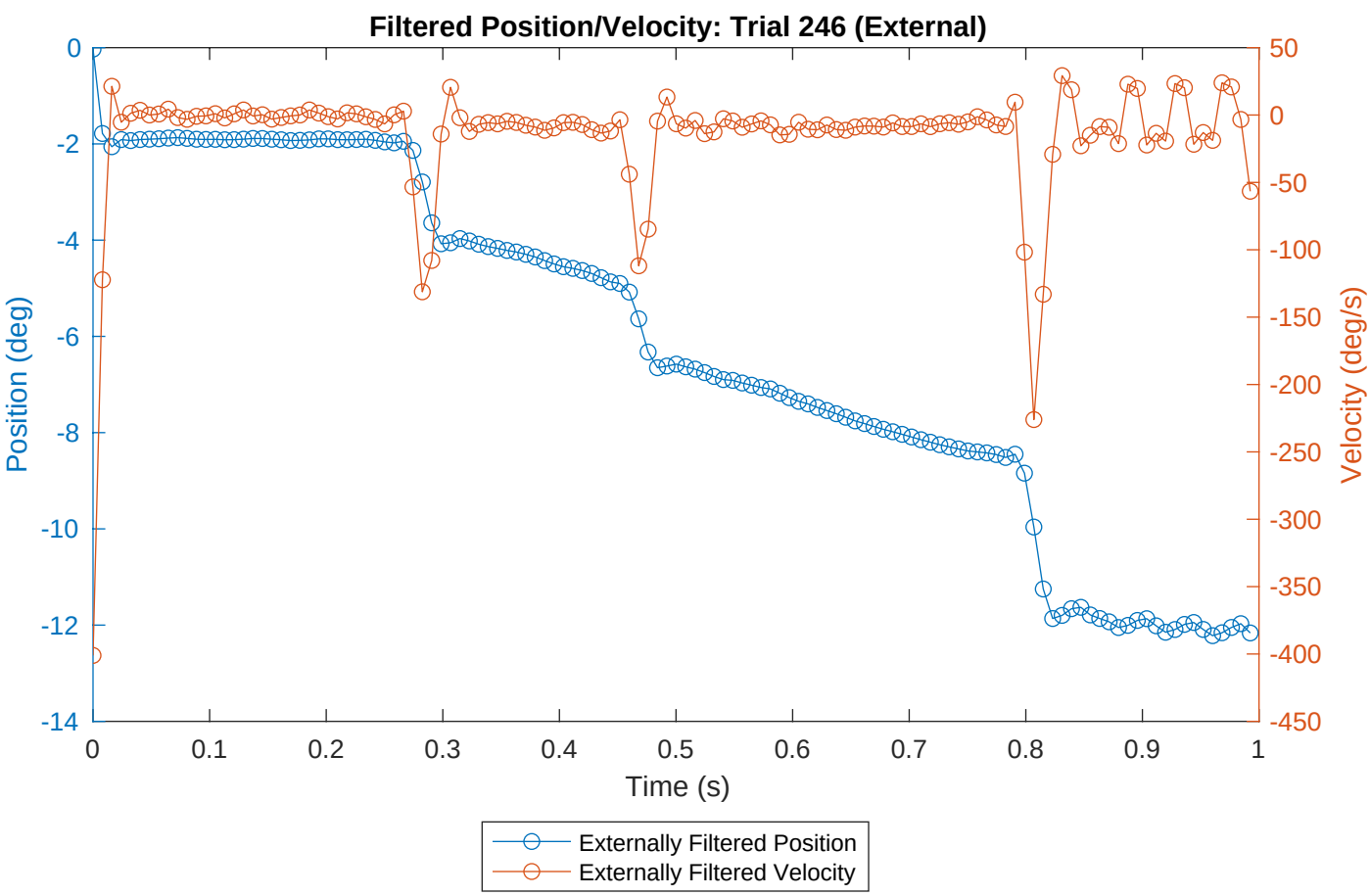

Position (deg)
Time (s)
0
-2
-4
-6
-8
-10
-12
-14
0
0.1
0.2
0.3
0.4
0.5
0.6
0.7
0.8
0.9
1

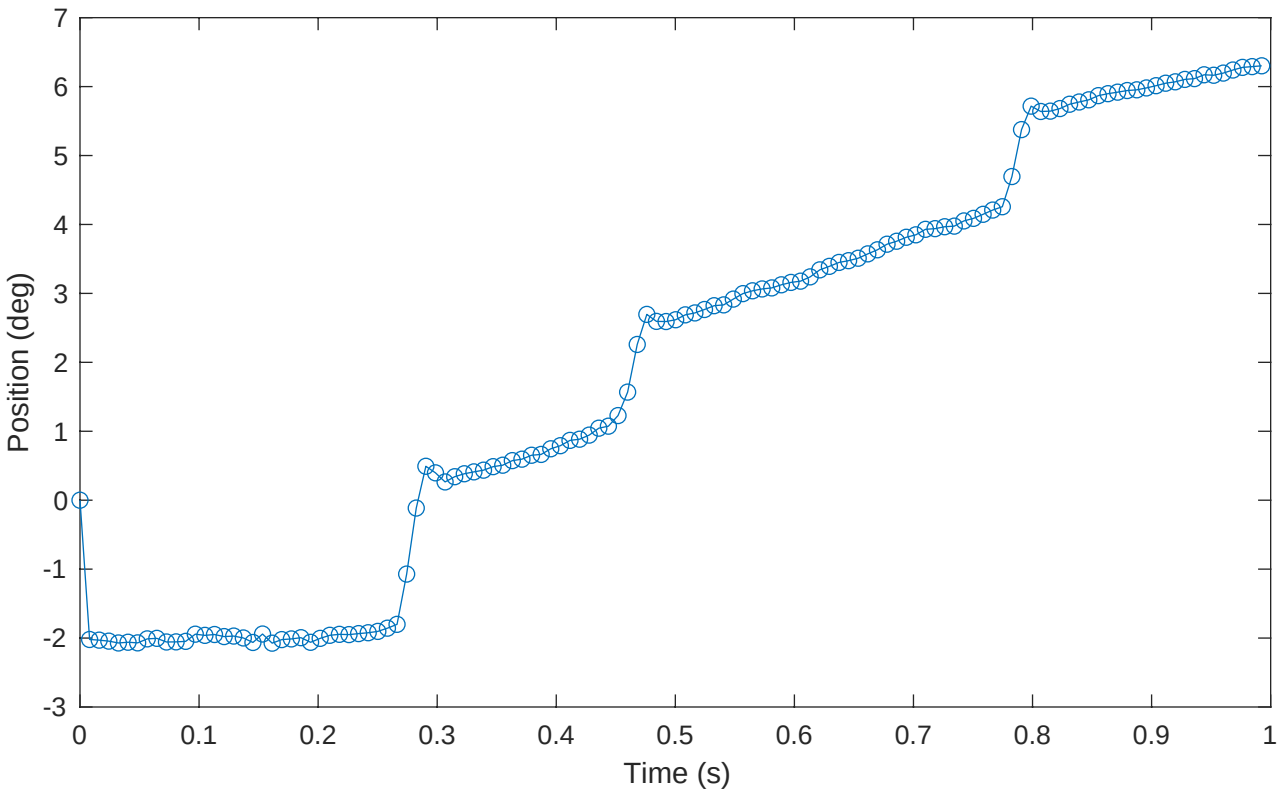

Filtered Position/Velocity: Trial 244 (External)
Position (deg)
Velocity (deg/s)
Time (s)
0
-2
-4
-6
-8
-10
-12
-14
50
0
-50
-100
-150
-200
-250
-300
-350
-400
-450
0
0.1
0.2
0.3
0.4
0.5
0.6
0.7
0.8
0.9
1
Externally Filtered Position
Externally Filtered Velocity

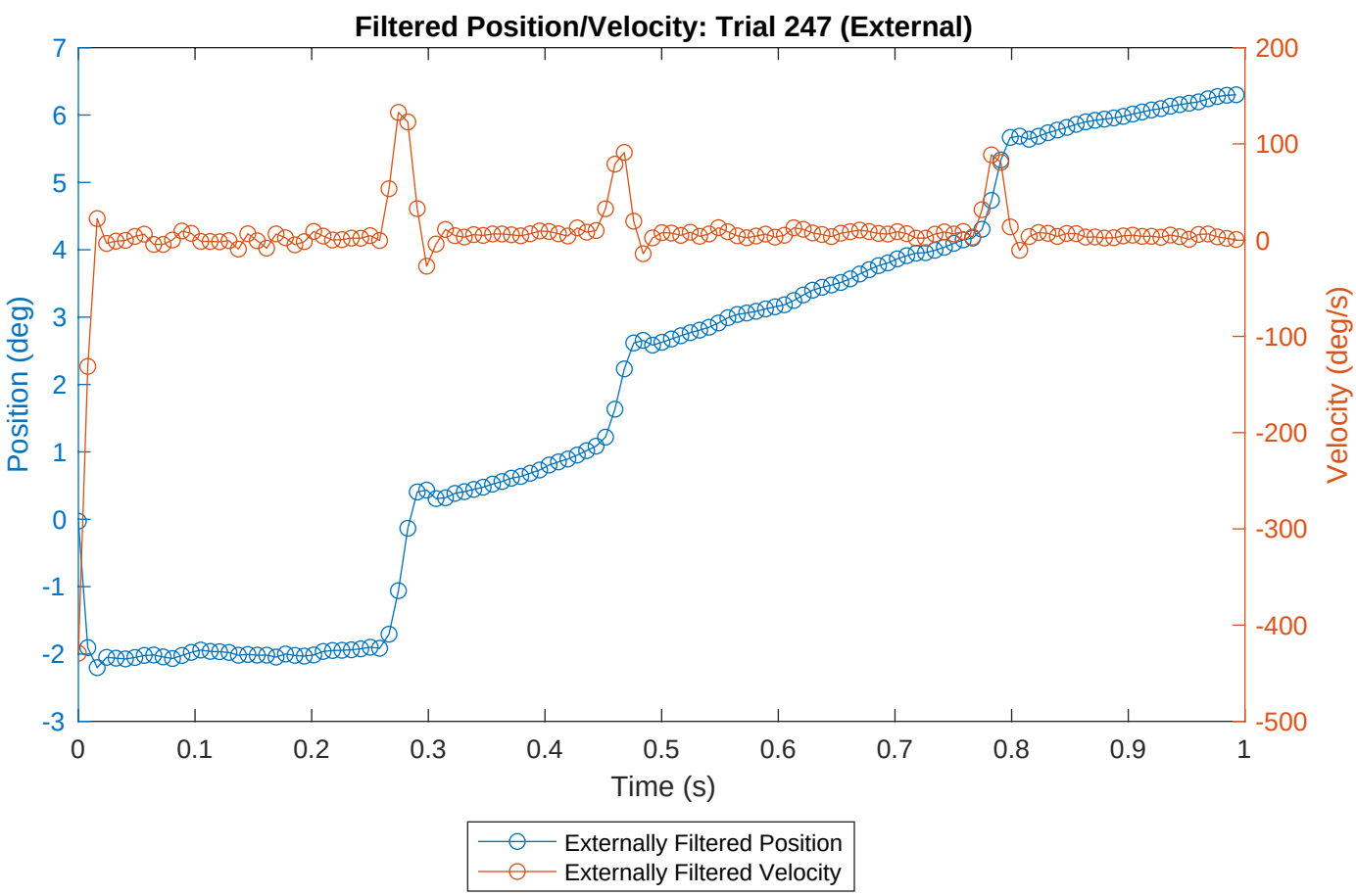

Position (deg)
Time (s)

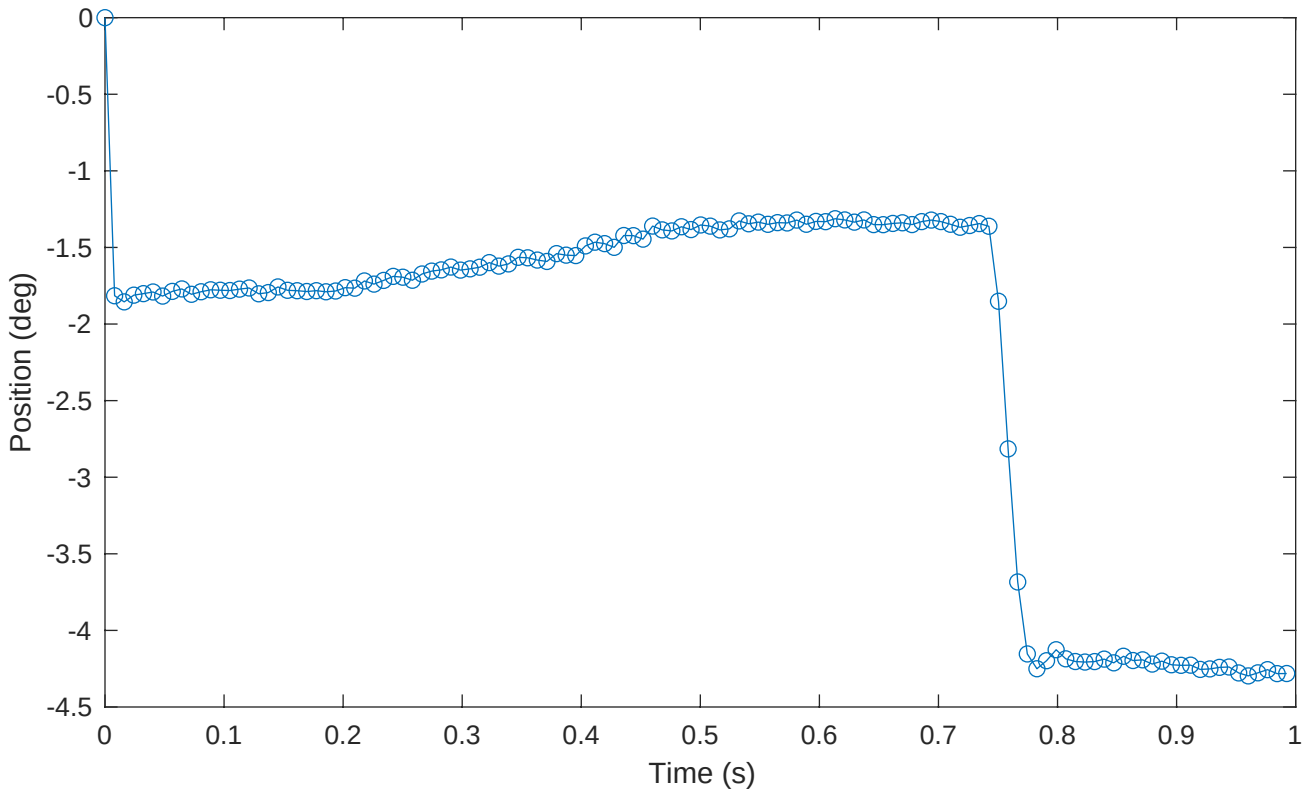

Filtered Position/Velocity: Trial 245 (External)
Position (deg)
Velocity (deg/s)
Time (s)
Externally Filtered Position
Externally Filtered Velocity

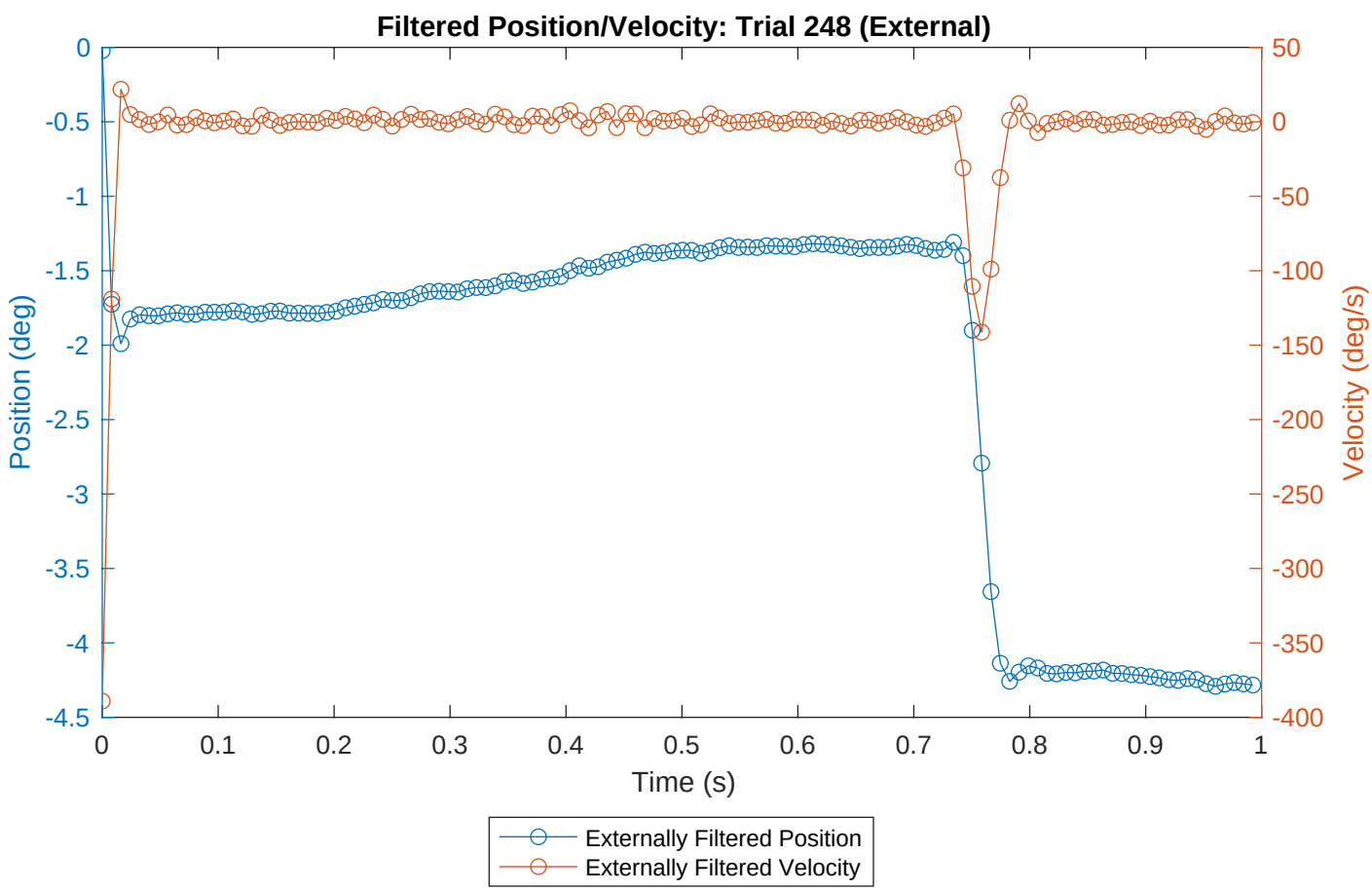

Position (deg)
Time (s)
0
-2
-4
-6
-8
-10
-12
-14
0
0.1
0.2
0.3
0.4
0.5
0.6
0.7
0.8
0.9
1

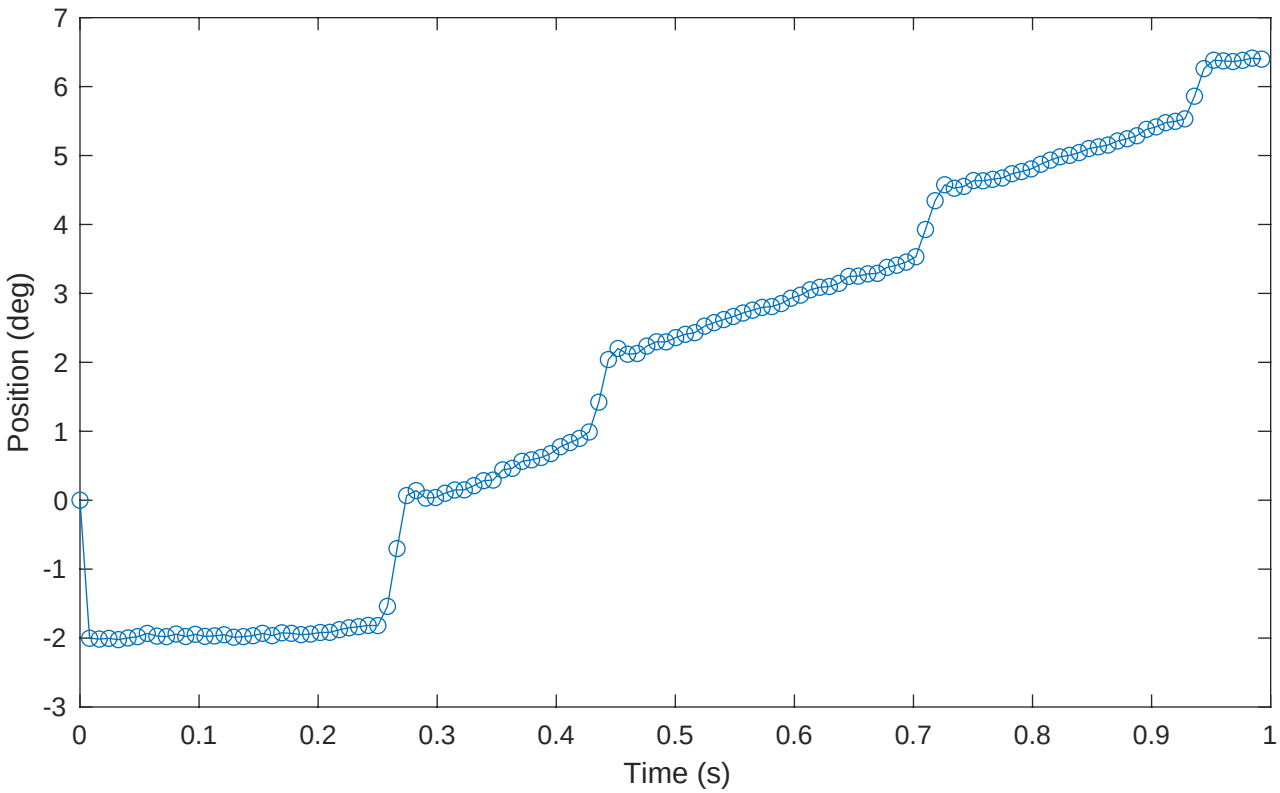

Filtered Position/Velocity: Trial 246 (External)
Position (deg)
Velocity (deg/s)
Time (s)
0
-2
-4
-6
-8
-10
-12
-14
50
0
-50
-100
-150
-200
-250
-300
-350
-400
-450
0
0.1
0.2
0.3
0.4
0.5
0.6
0.7
0.8
0.9
1
Externally Filtered Position
Externally Filtered Velocity

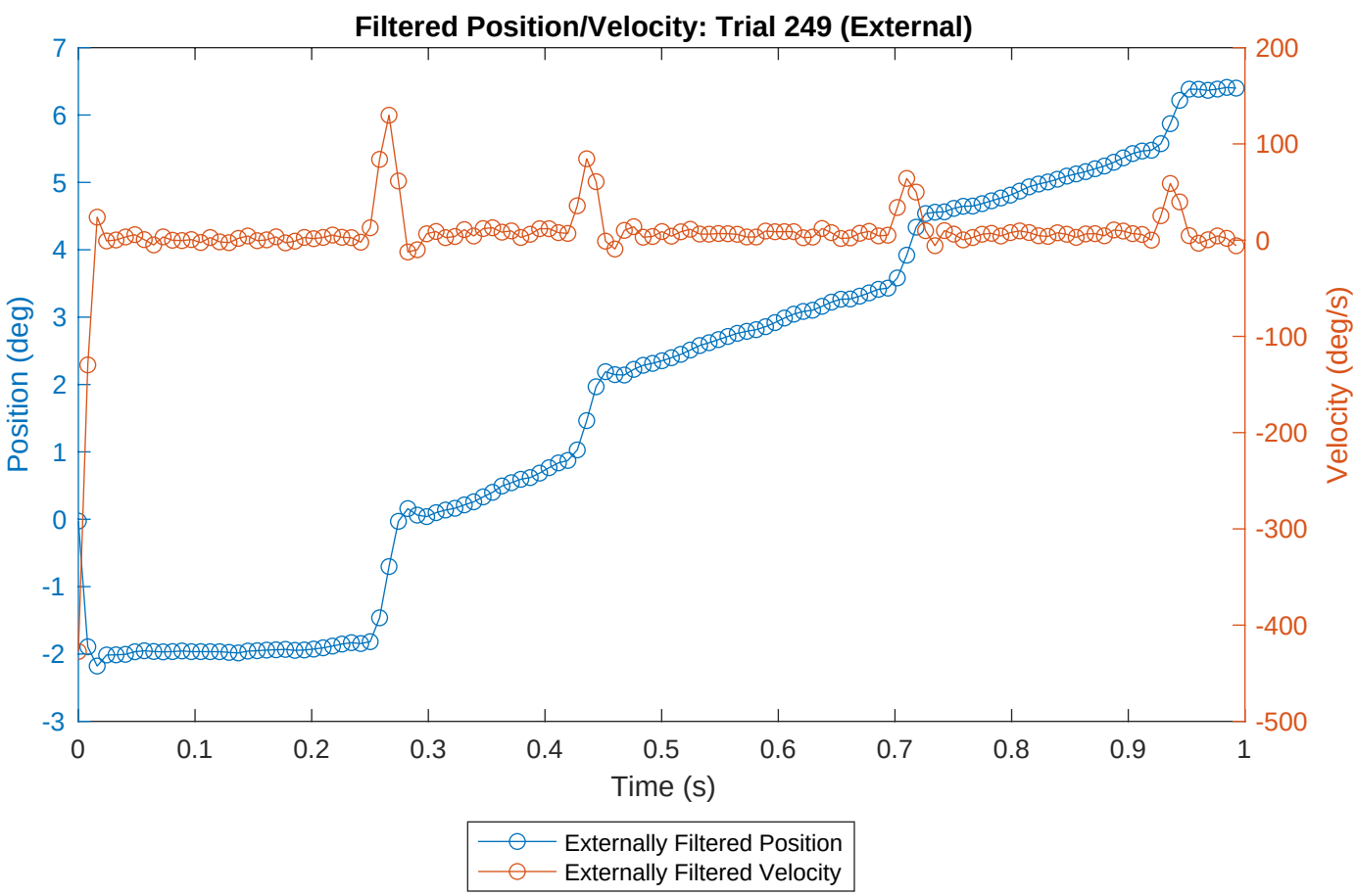

Position (deg)
Time (s)

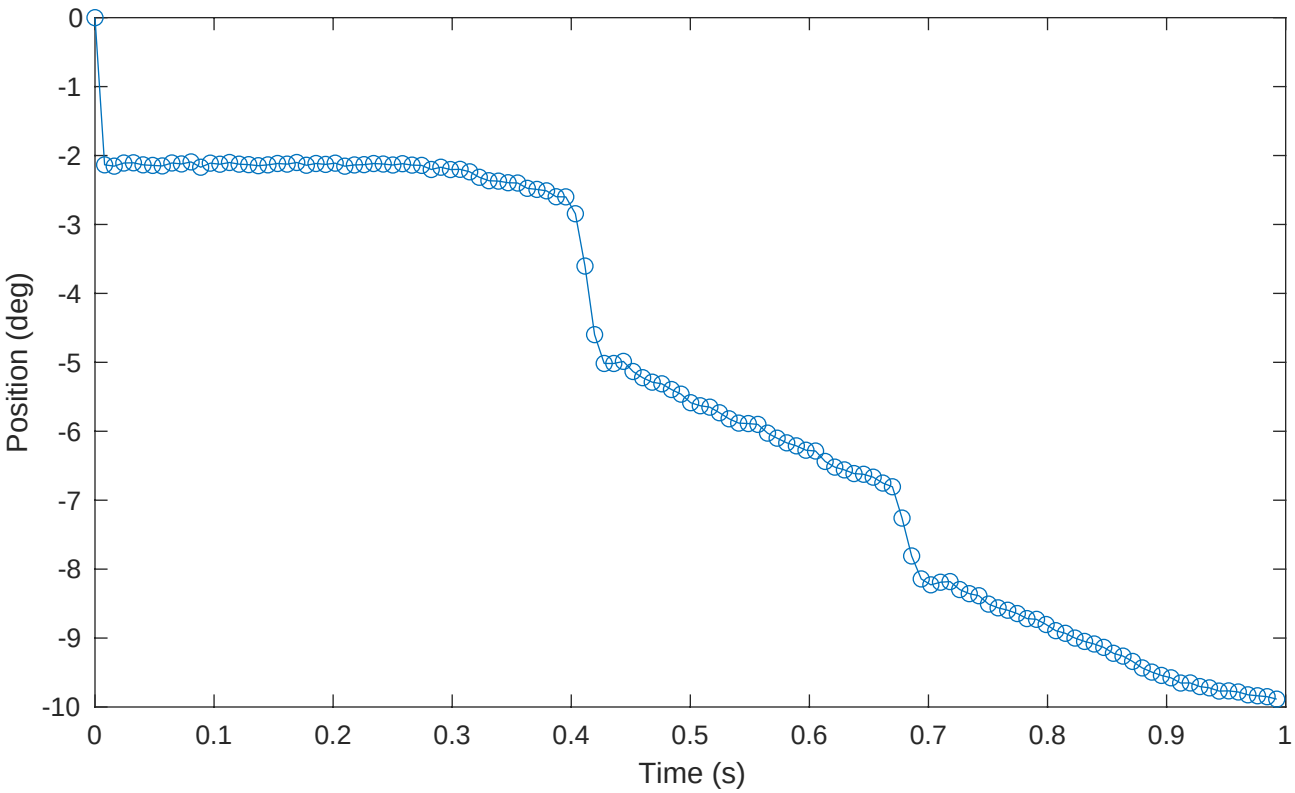

Filtered Position/Velocity: Trial 247 (External)
Position (deg)
Velocity (deg/s)
Time (s)
Externally Filtered Position
Externally Filtered Velocity

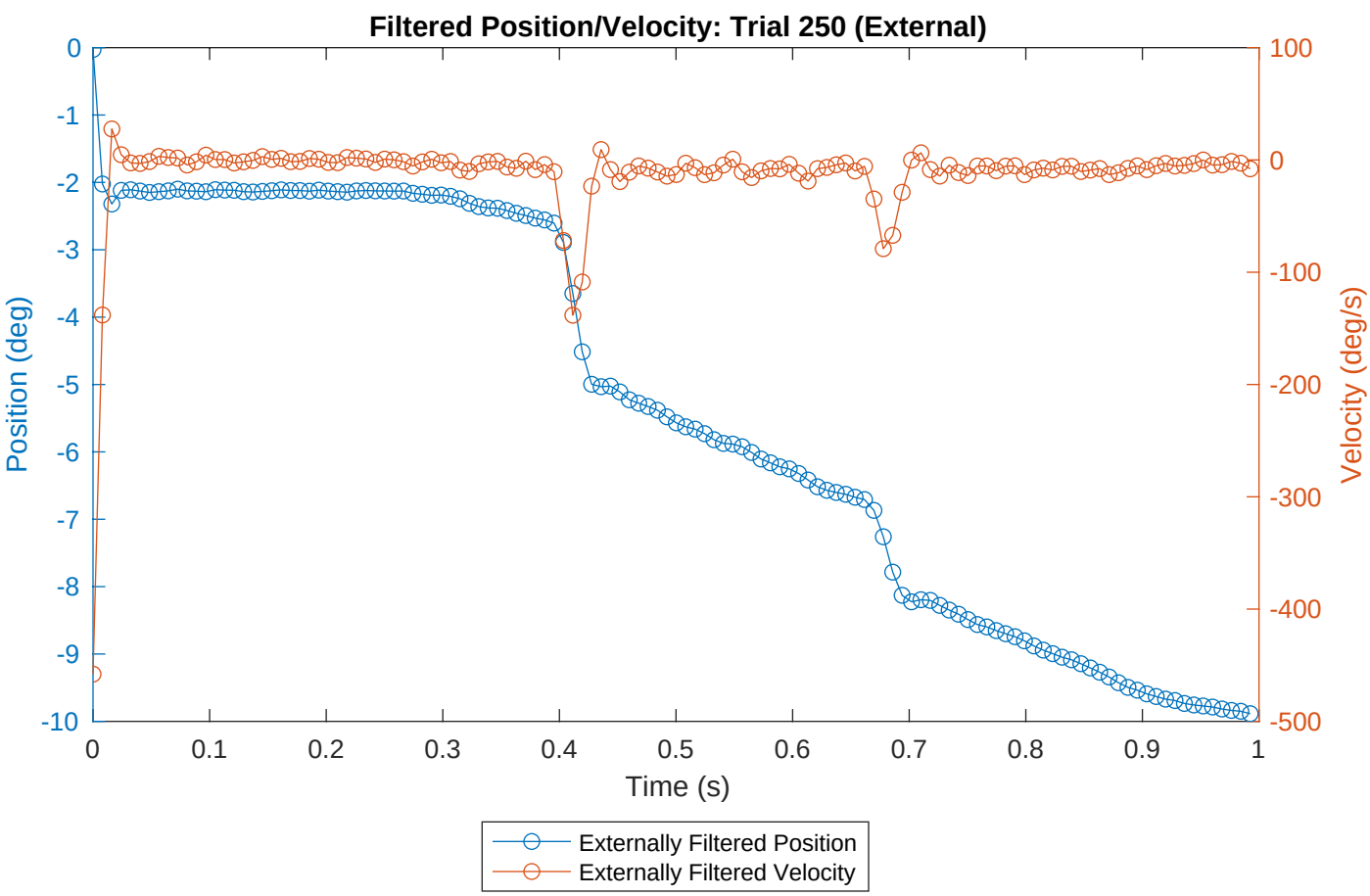

Position (deg)
Time (s)

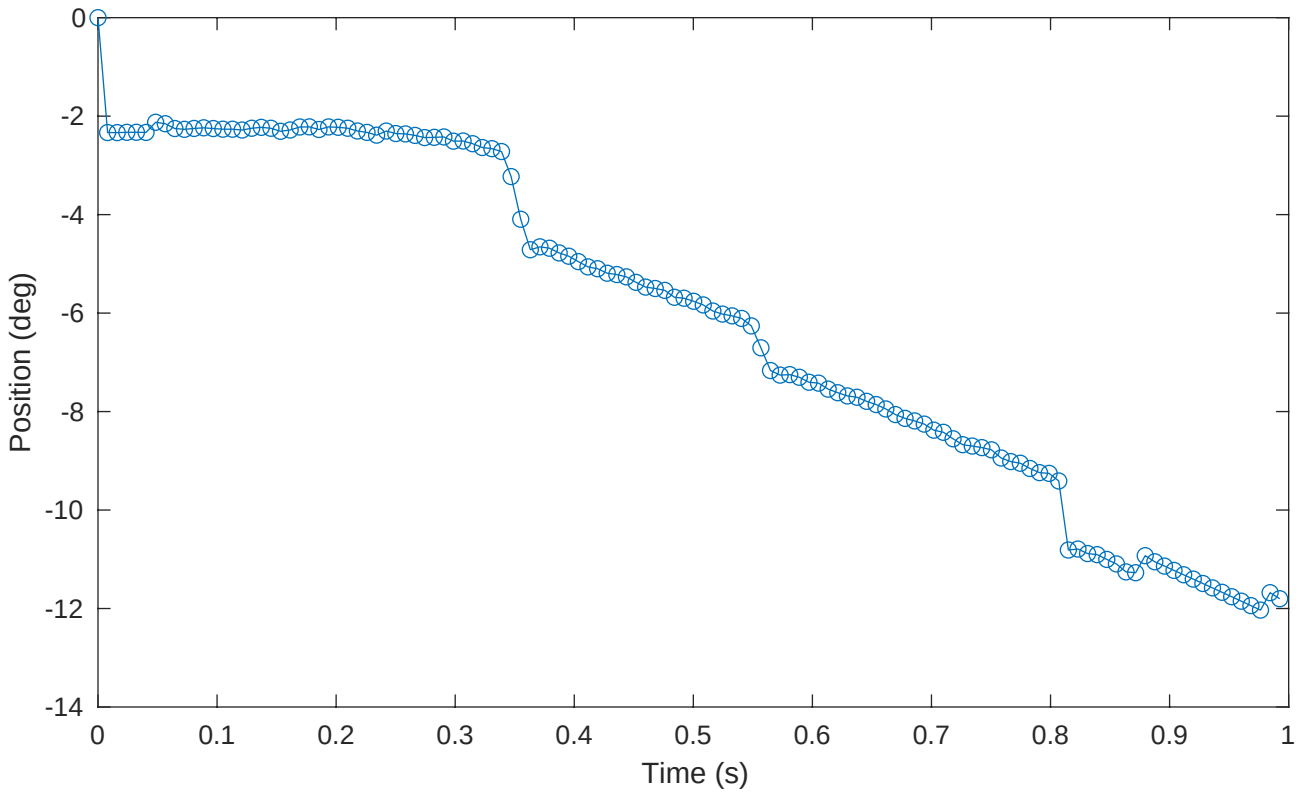

Filtered Position/Velocity: Trial 248 (External)
Position (deg)
Velocity (deg/s)
Time (s)
Externally Filtered Position
Externally Filtered Velocity

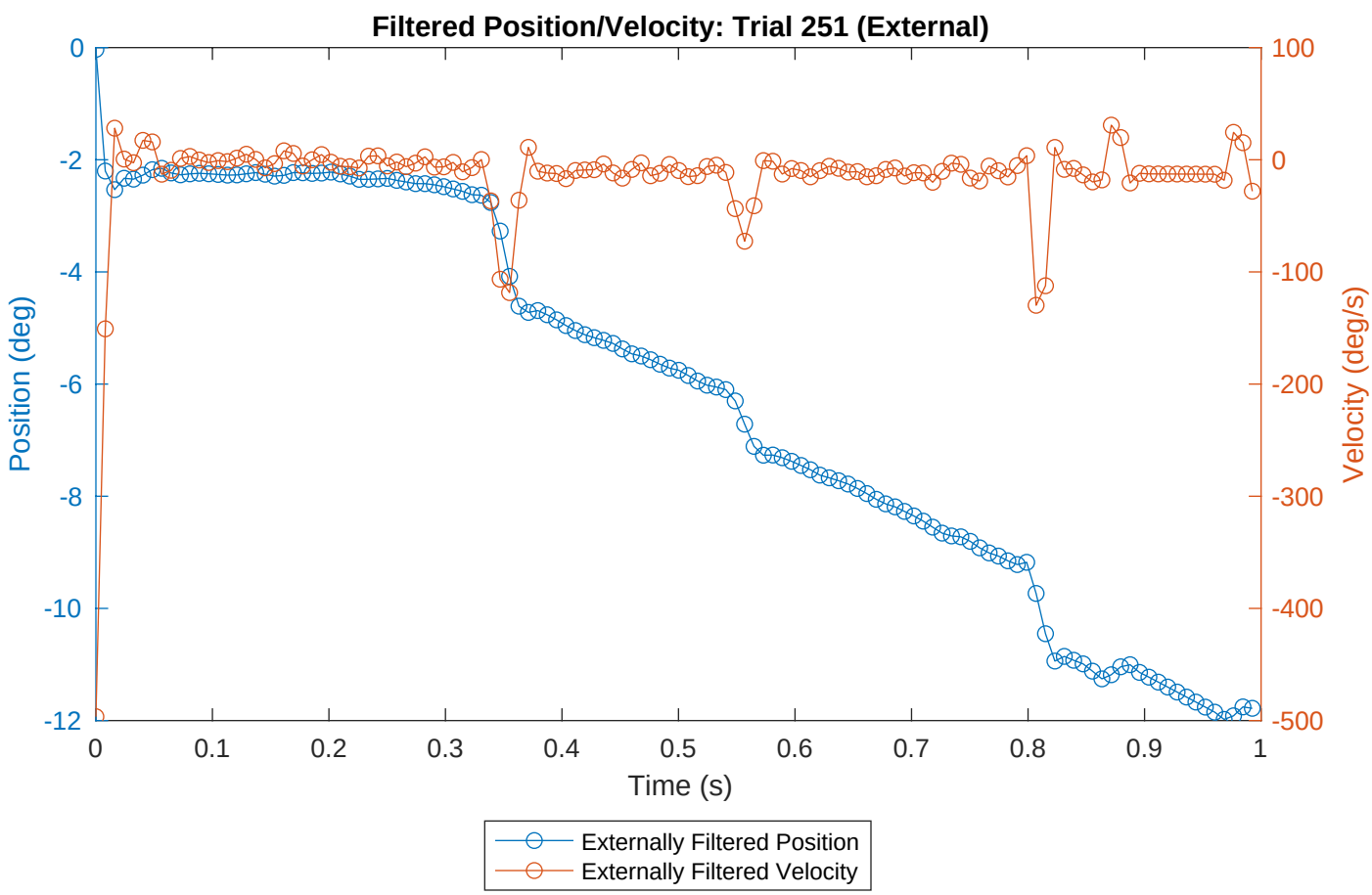

Position (deg)
Time (s)

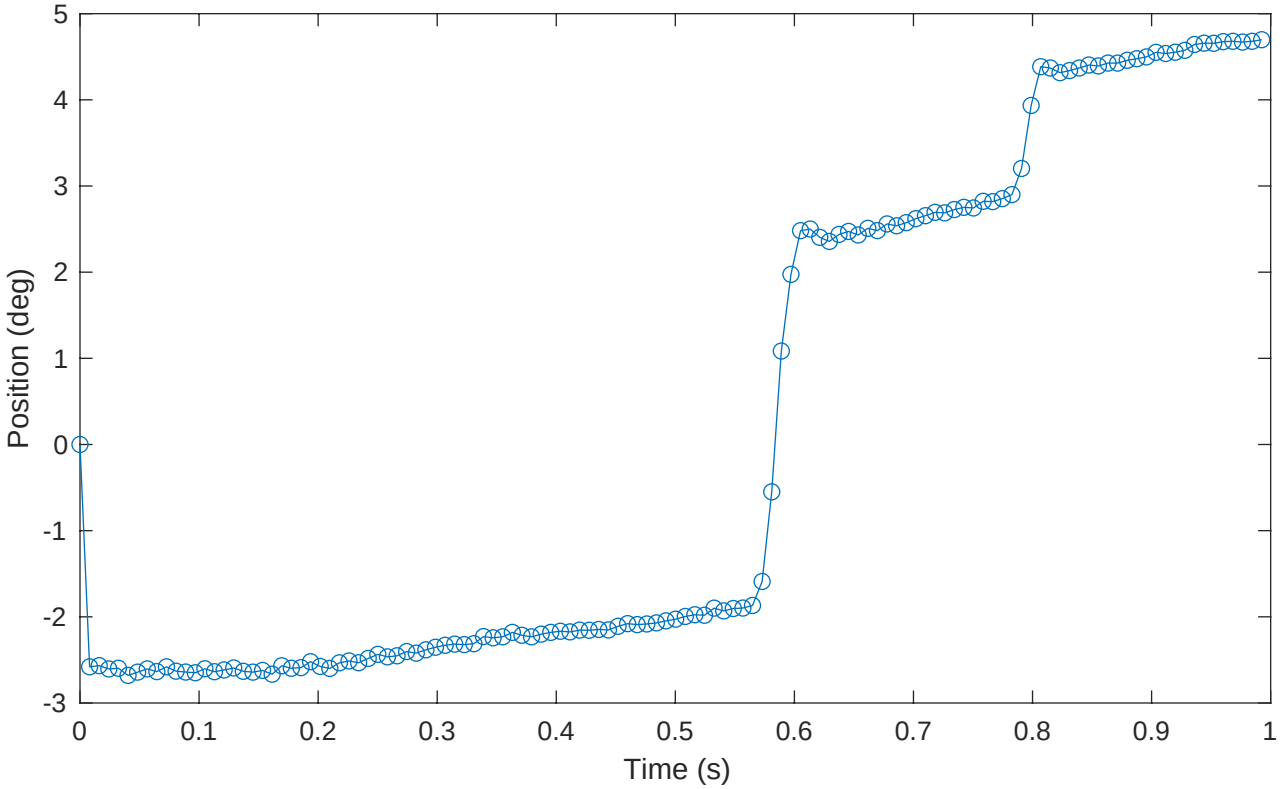

Filtered Position/Velocity: Trial 249 (External)
Position (deg)
Velocity (deg/s)
Time (s)
Externally Filtered Position
Externally Filtered Velocity

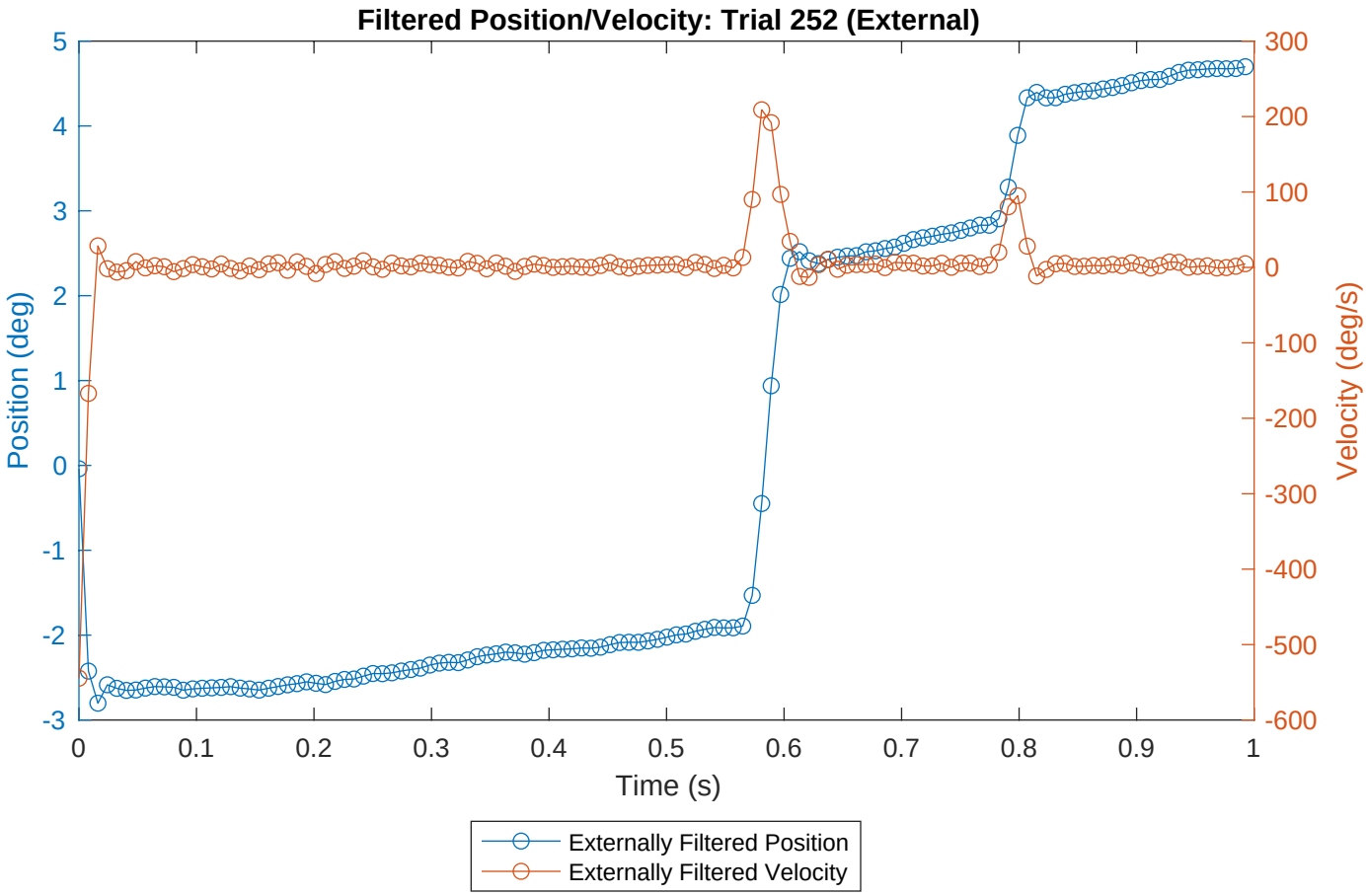

Position (deg)
Time (s)
0
-1
-2
-3
-4
-5
-6
-7
-8
-9
-10
0
0.1
0.2
0.3
0.4
0.5
0.6
0.7
0.8
0.9
1

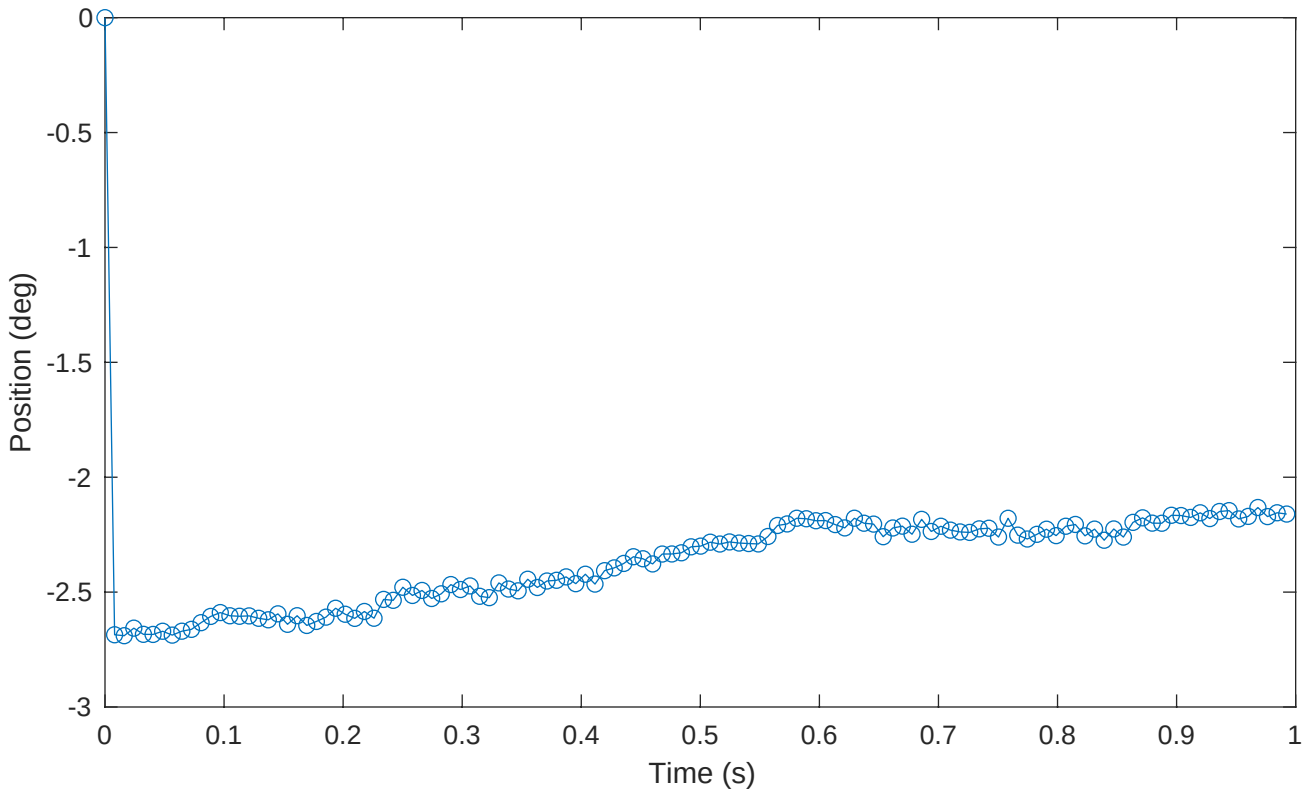

Filtered Position/Velocity: Trial 250 (External)
Position (deg)
Velocity (deg/s)
Time (s)
0
-1
-2
-3
-4
-5
-6
-7
-8
-9
-10
100
0
-100
-200
-300
-400
-500
0
0.1
0.2
0.3
0.4
0.5
0.6
0.7
0.8
0.9
1
Externally Filtered Position
Externally Filtered Velocity

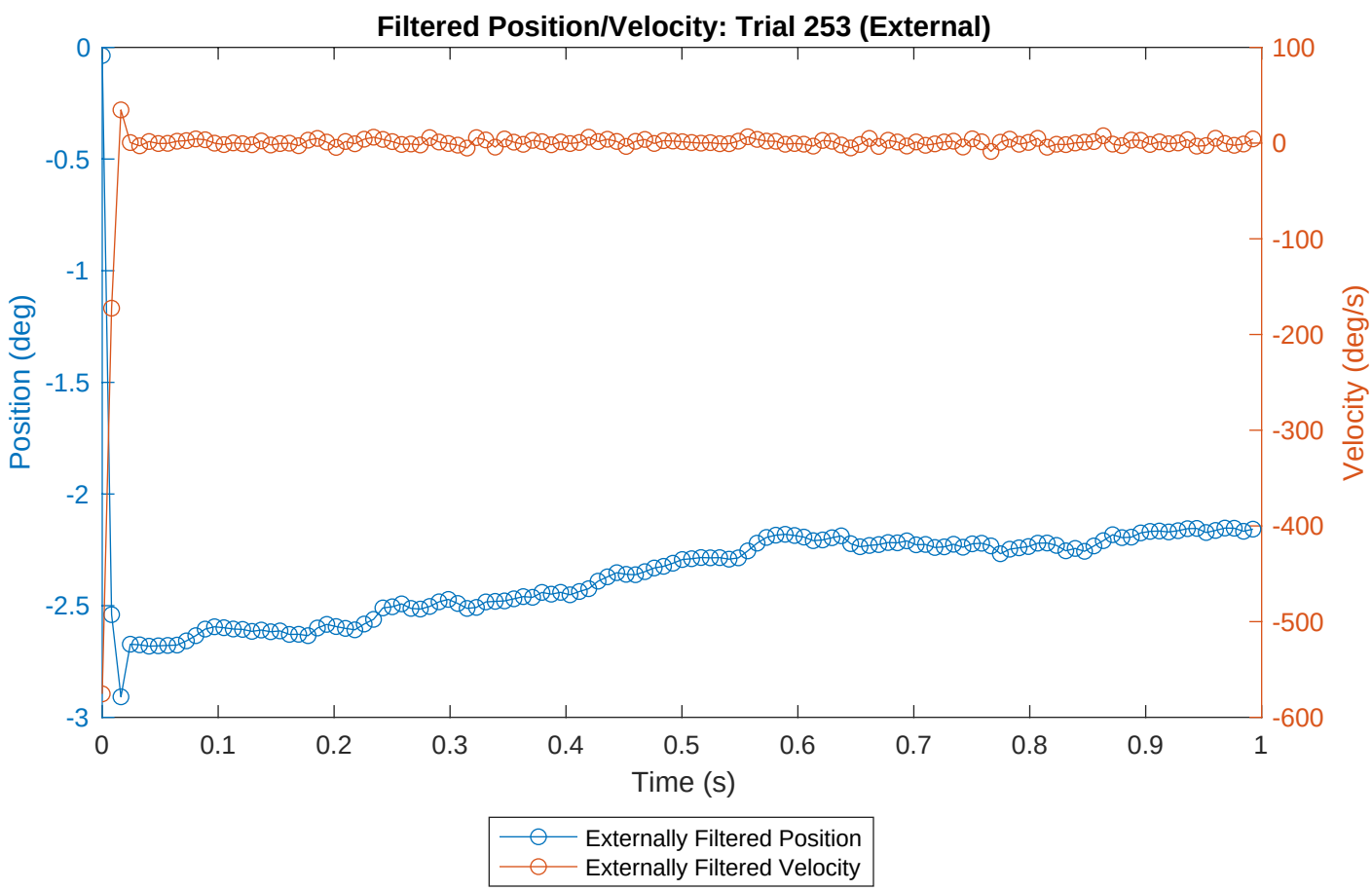

0
-2
-4
-6
-8
-10
-12
-14
Position (deg)
0
0.1
0.2
0.3
0.4
0.5
0.6
0.7
0.8
0.9
1
Time (s)

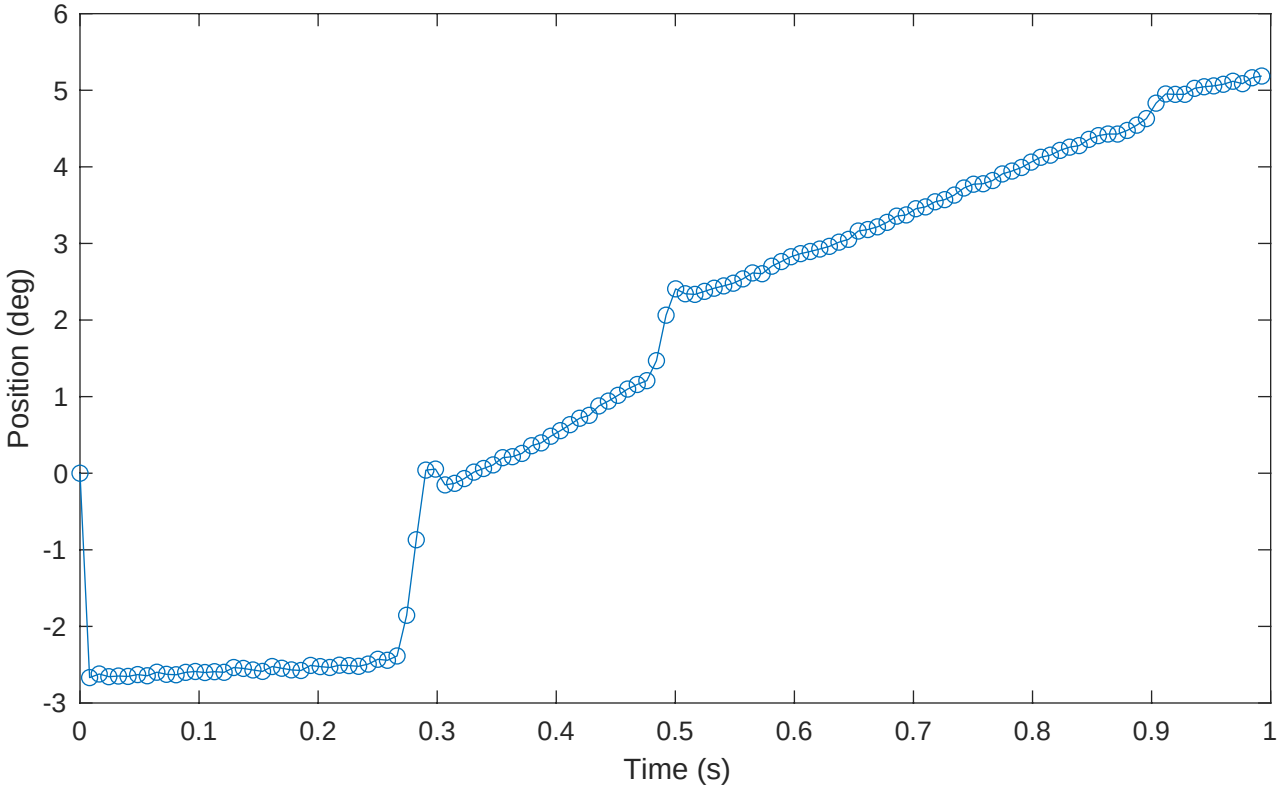

Filtered Position/Velocity: Trial 251 (External)
0
-2
-4
-6
-8
-10
-12
Position (deg)
100
0
-100
-200
-300
-400
-500
Velocity (deg/s)
0
0.1
0.2
0.3
0.4
0.5
0.6
0.7
0.8
0.9
1
Time (s)
Externally Filtered Position
Externally Filtered Velocity

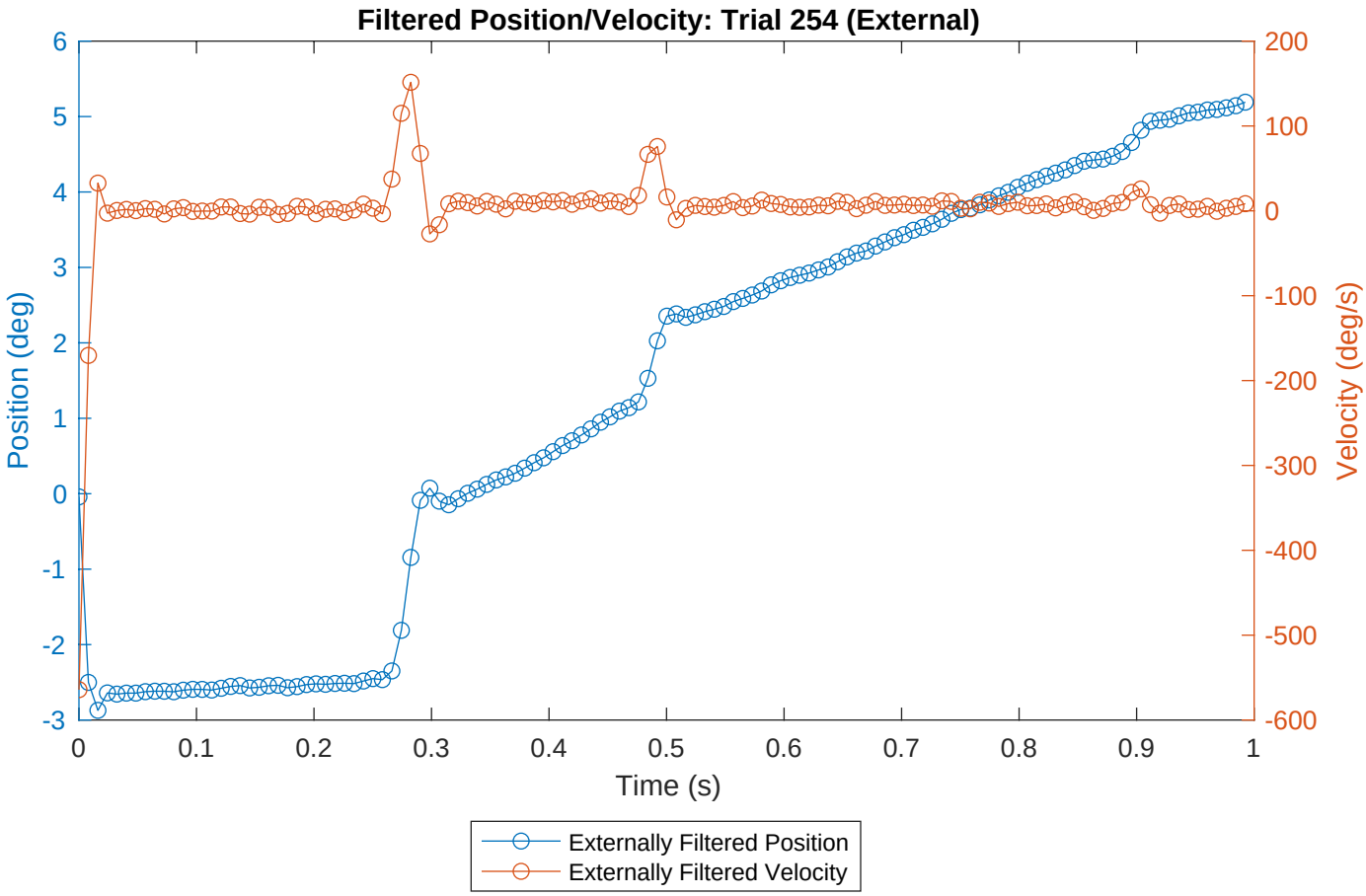

Position (deg)
Time (s)

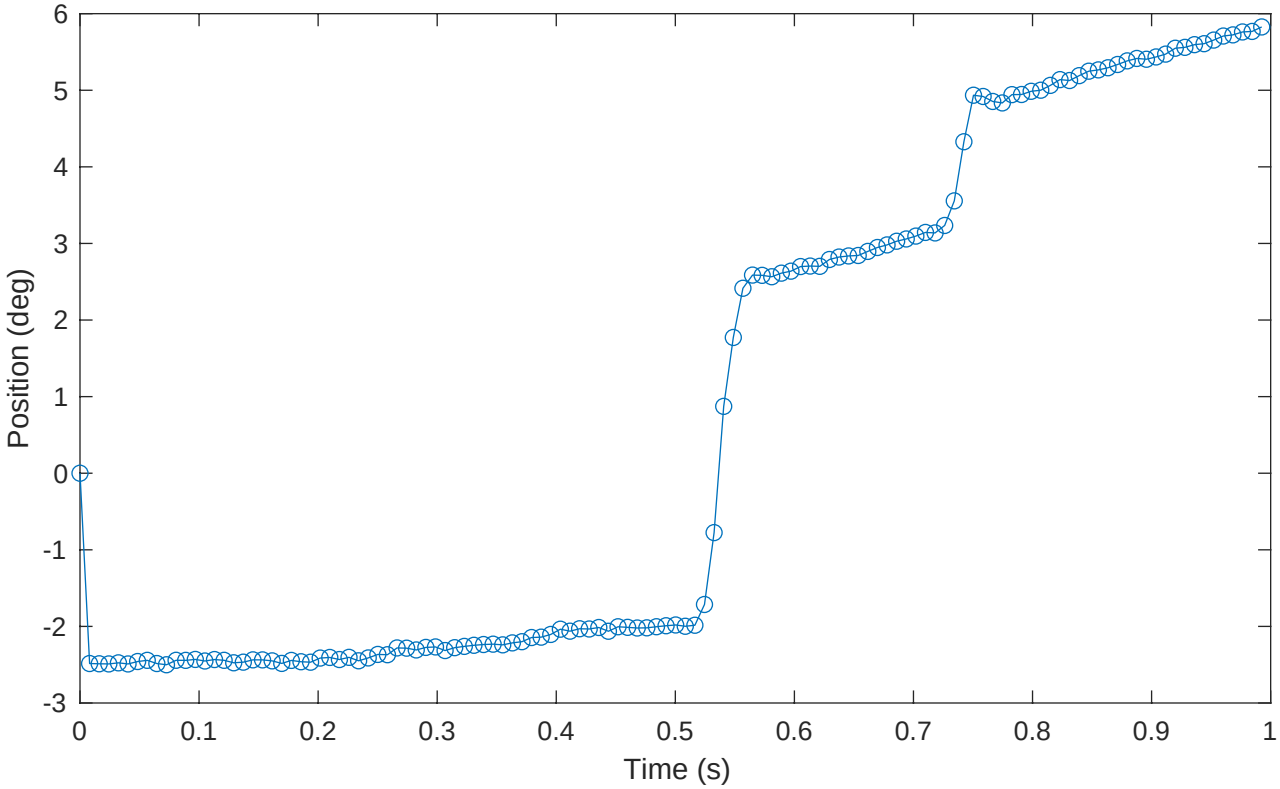

Filtered Position/Velocity: Trial 252 (External)
Position (deg)
Velocity (deg/s)
Time (s)
Externally Filtered Position
Externally Filtered Velocity

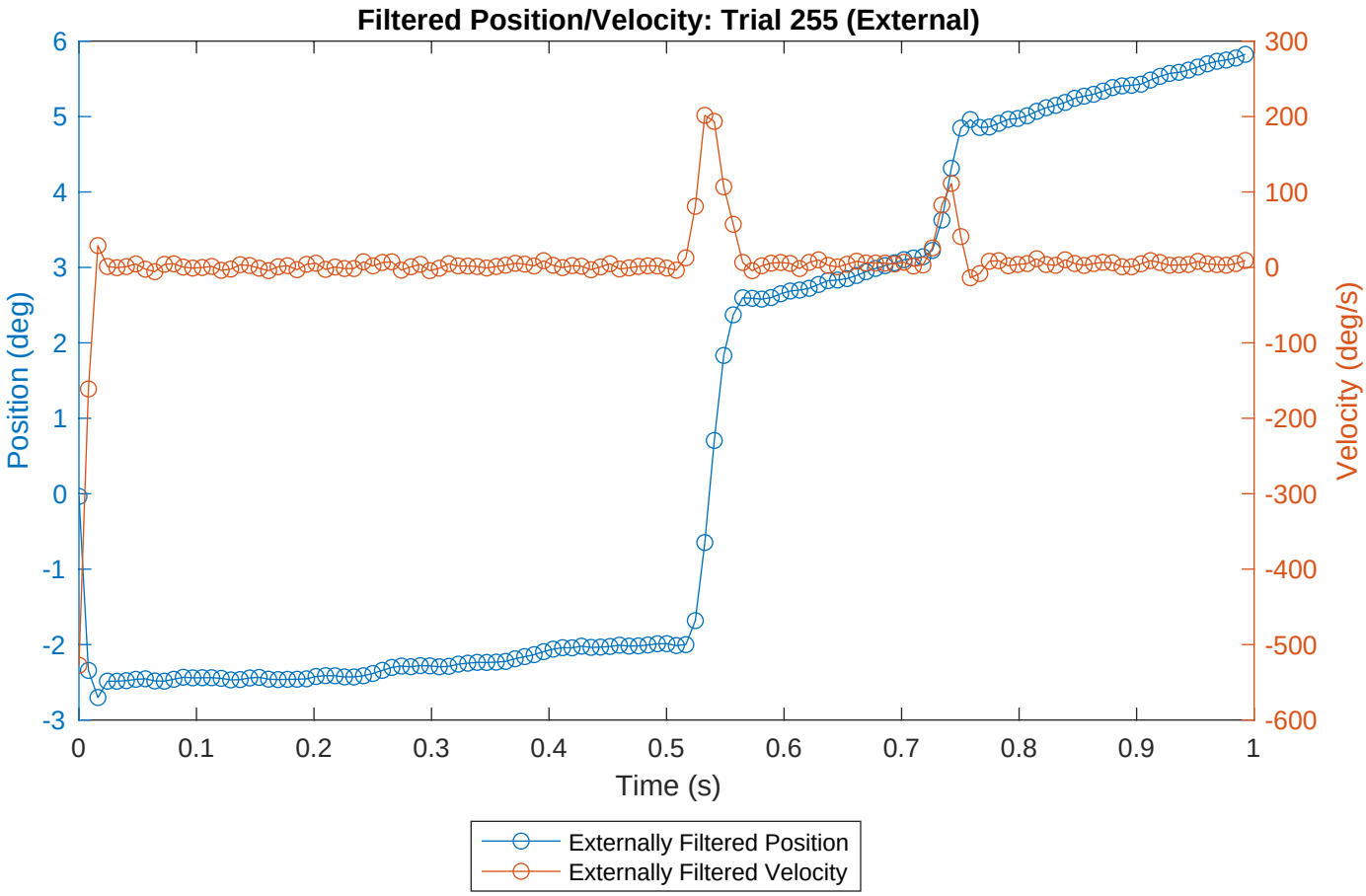

0
-0.5
-1
-1.5
-2
-2.5
-3
Position (deg)
0
0.1
0.2
0.3
0.4
0.5
0.6
0.7
0.8
0.9
1
Time (s)

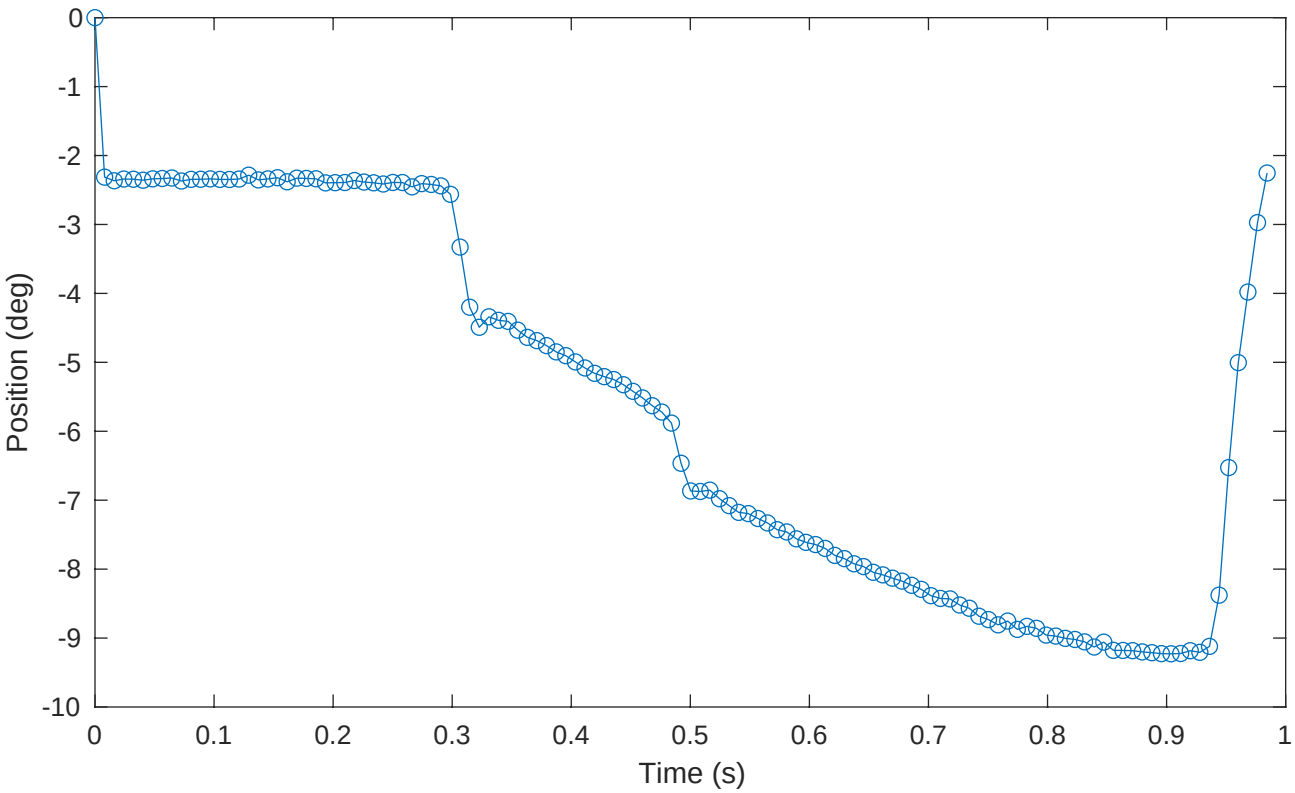

Filtered Position/Velocity: Trial 253 (External)
0
-0.5
-1
-1.5
-2
-2.5
-3
Position (deg)
100
0
-100
-200
-300
-400
-500
-600
Velocity (deg/s)
0
0.1
0.2
0.3
0.4
0.5
0.6
0.7
0.8
0.9
1
Time (s)
Externally Filtered Position
Externally Filtered Velocity

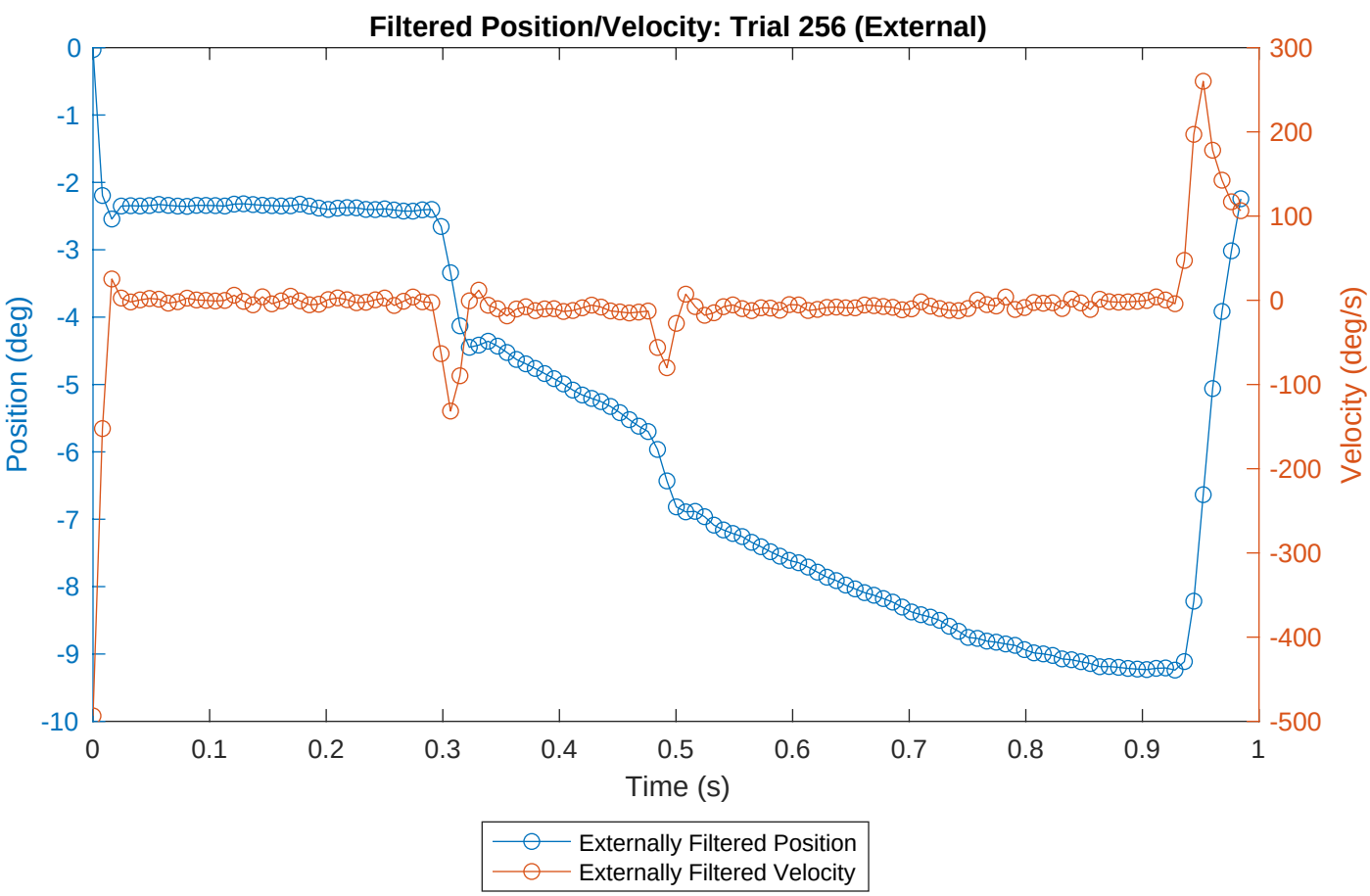

Position (deg)
Time (s)

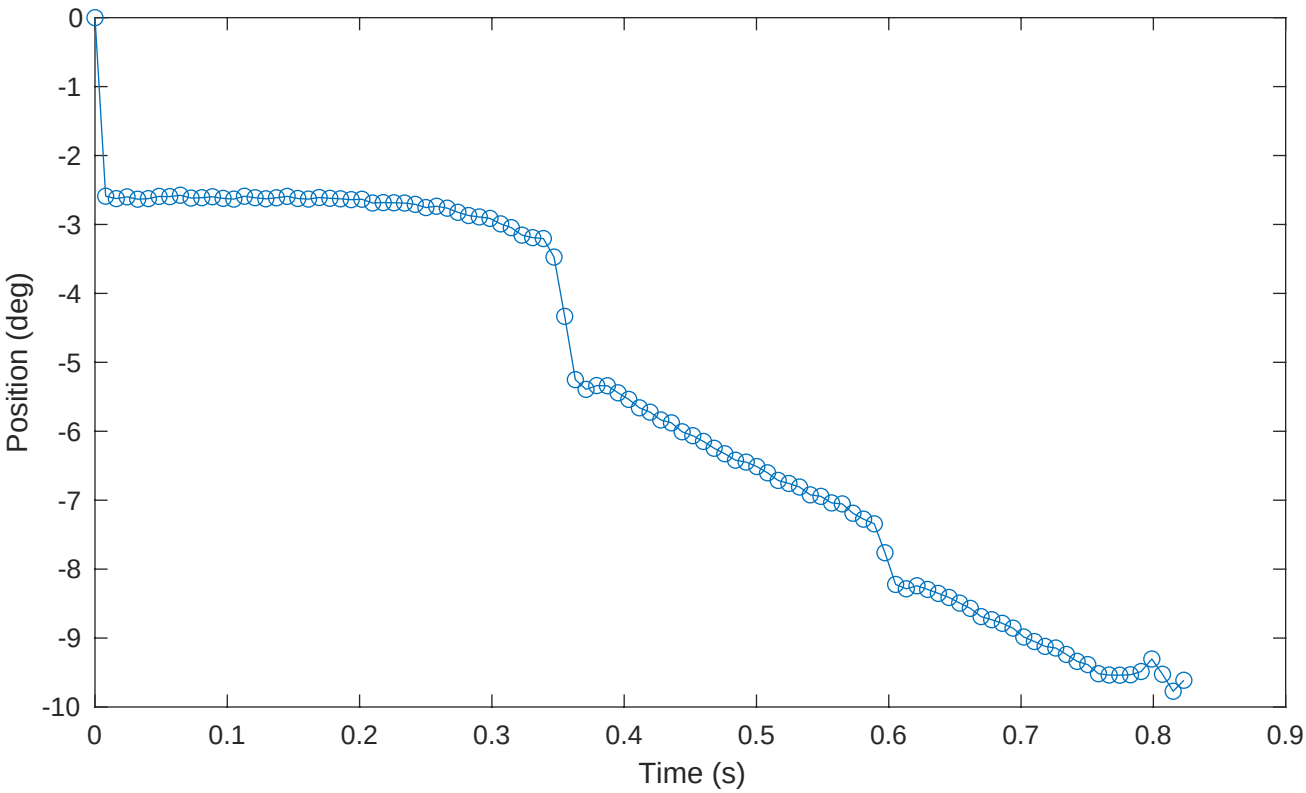

Filtered Position/Velocity: Trial 254 (External)
Position (deg)
Velocity (deg/s)
Time (s)
Externally Filtered Position
Externally Filtered Velocity

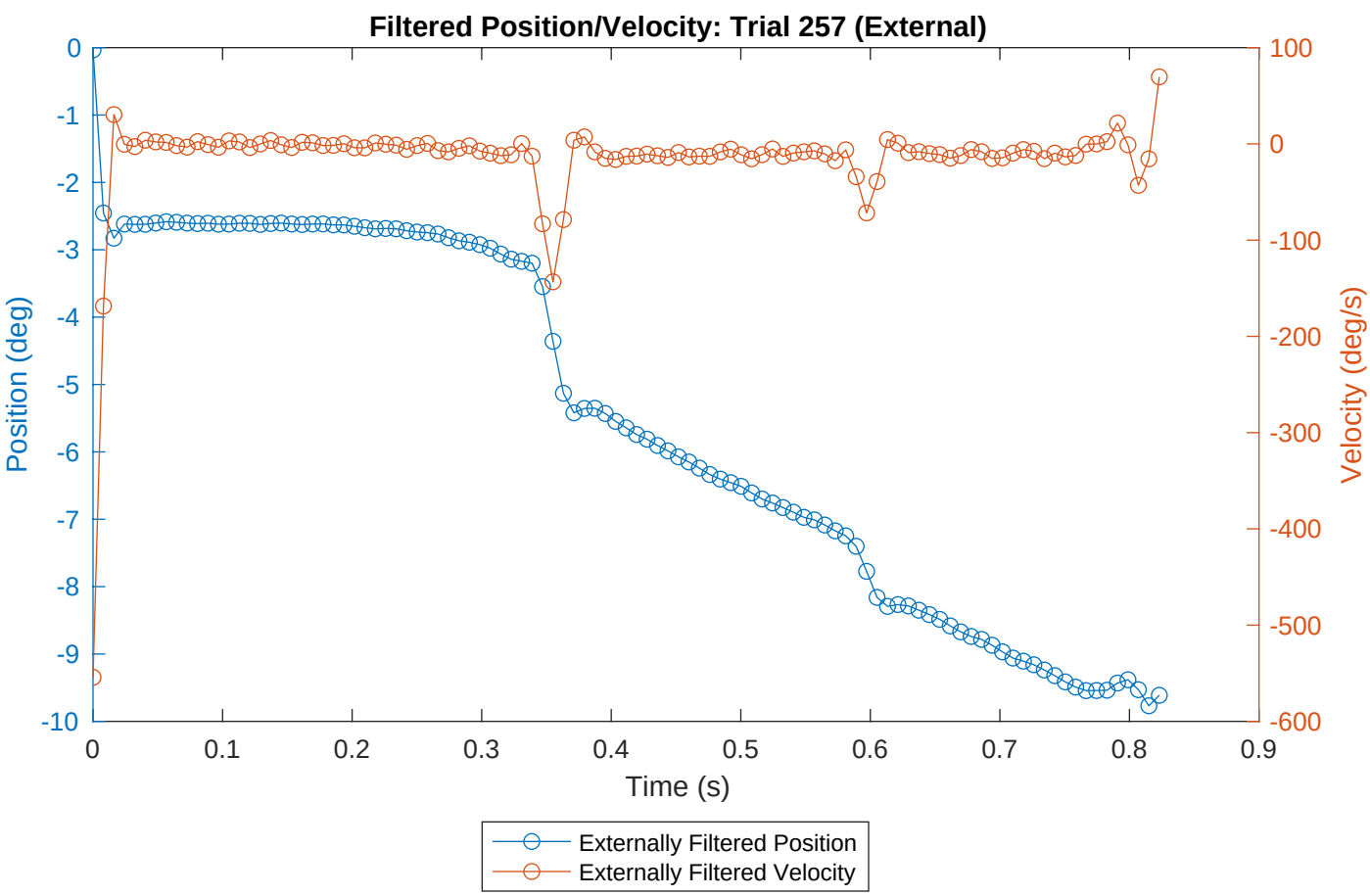

Position (deg)
Time (s)

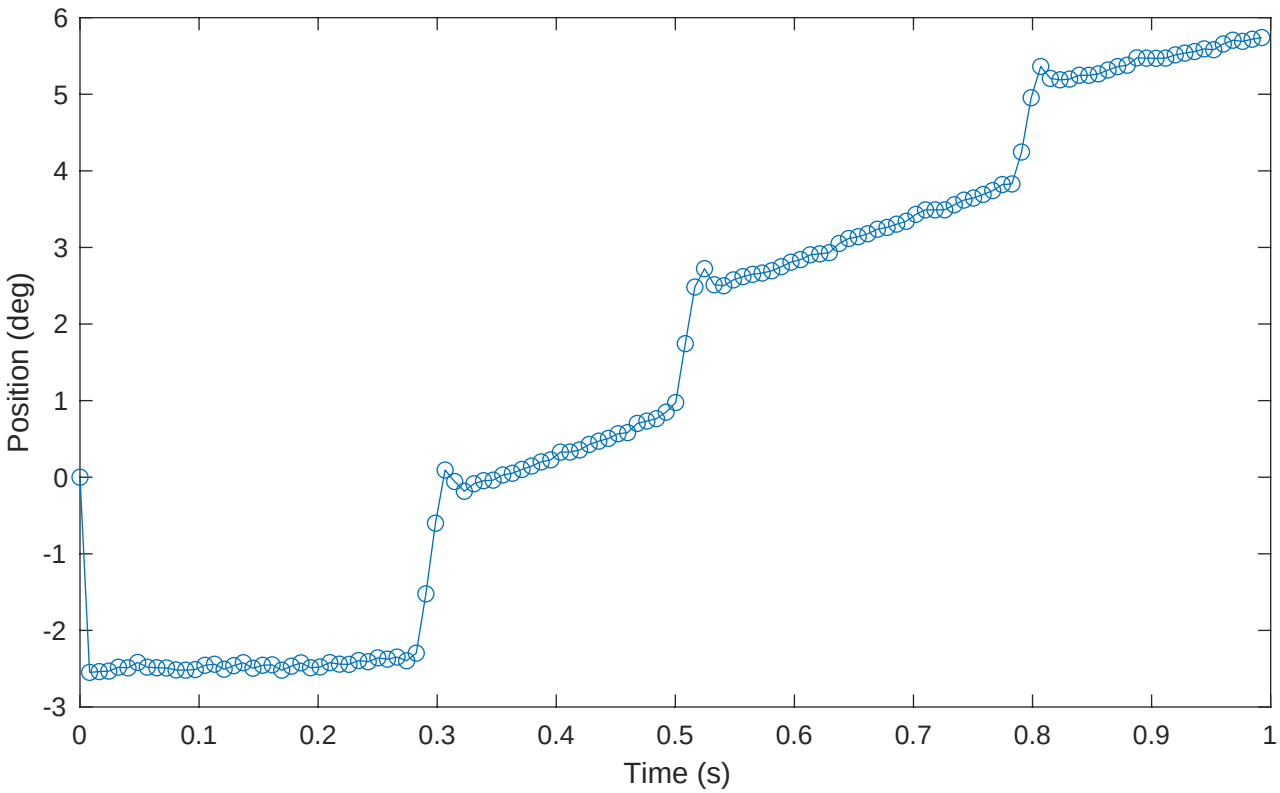

Filtered Position/Velocity: Trial 255 (External)
Position (deg)
Velocity (deg/s)
Time (s)
Externally Filtered Position
Externally Filtered Velocity

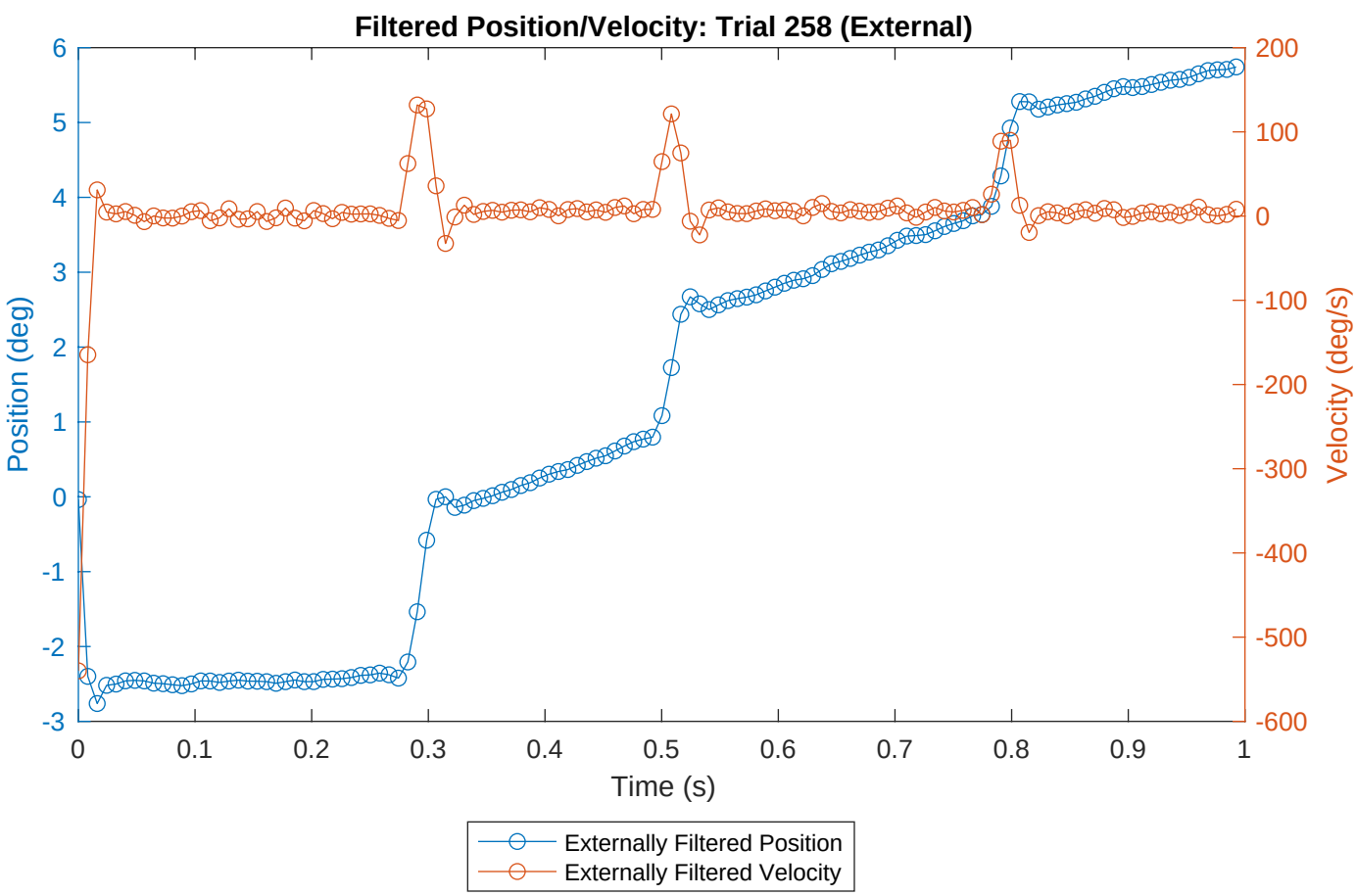

Position (deg)
Time (s)
0
-1
-2
-3
-4
-5
-6
-7
-8
-9
-10
0
0.1
0.2
0.3
0.4
0.5
0.6
0.7
0.8
0.9
1

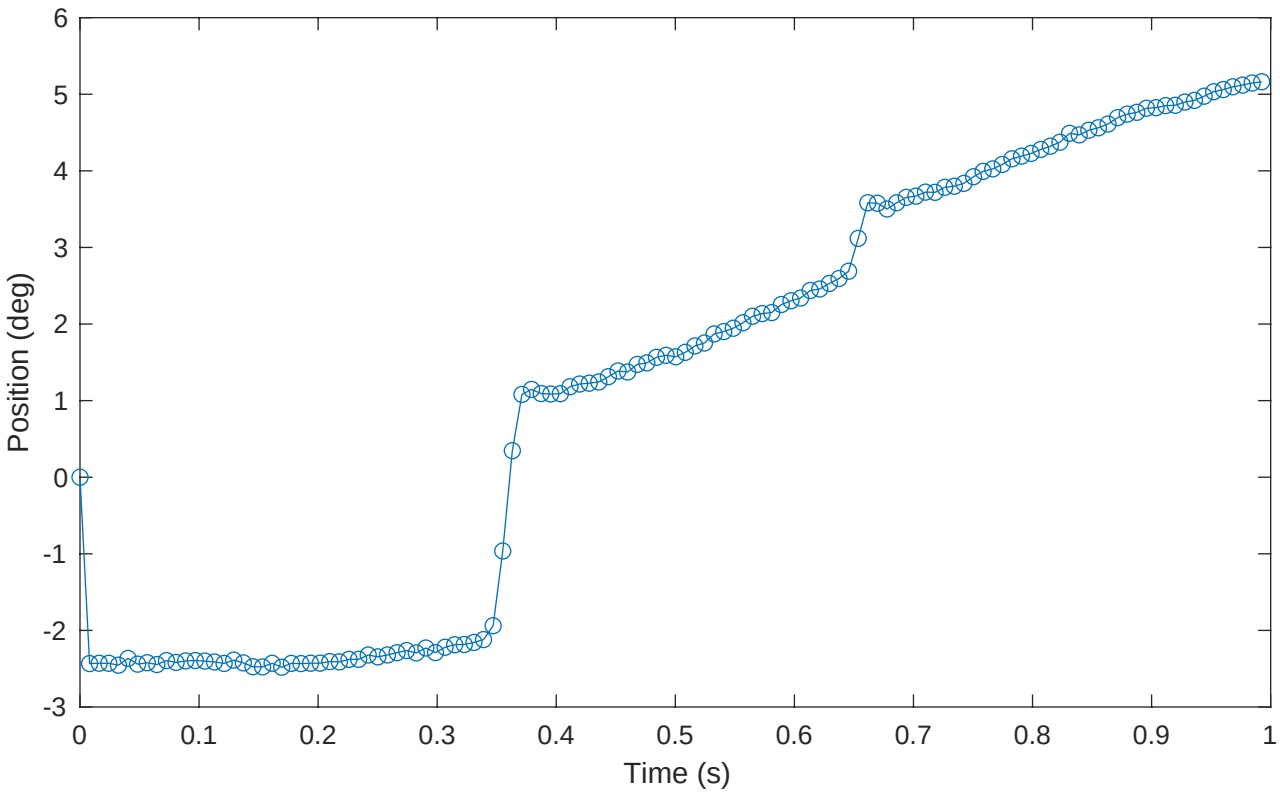

Filtered Position/Velocity: Trial 256 (External)
Position (deg)
Velocity (deg/s)
Time (s)
0
-1
-2
-3
-4
-5
-6
-7
-8
-9
-10
300
200
100
0
-100
-200
-300
-400
-500
0
0.1
0.2
0.3
0.4
0.5
0.6
0.7
0.8
0.9
1
Externally Filtered Position
Externally Filtered Velocity

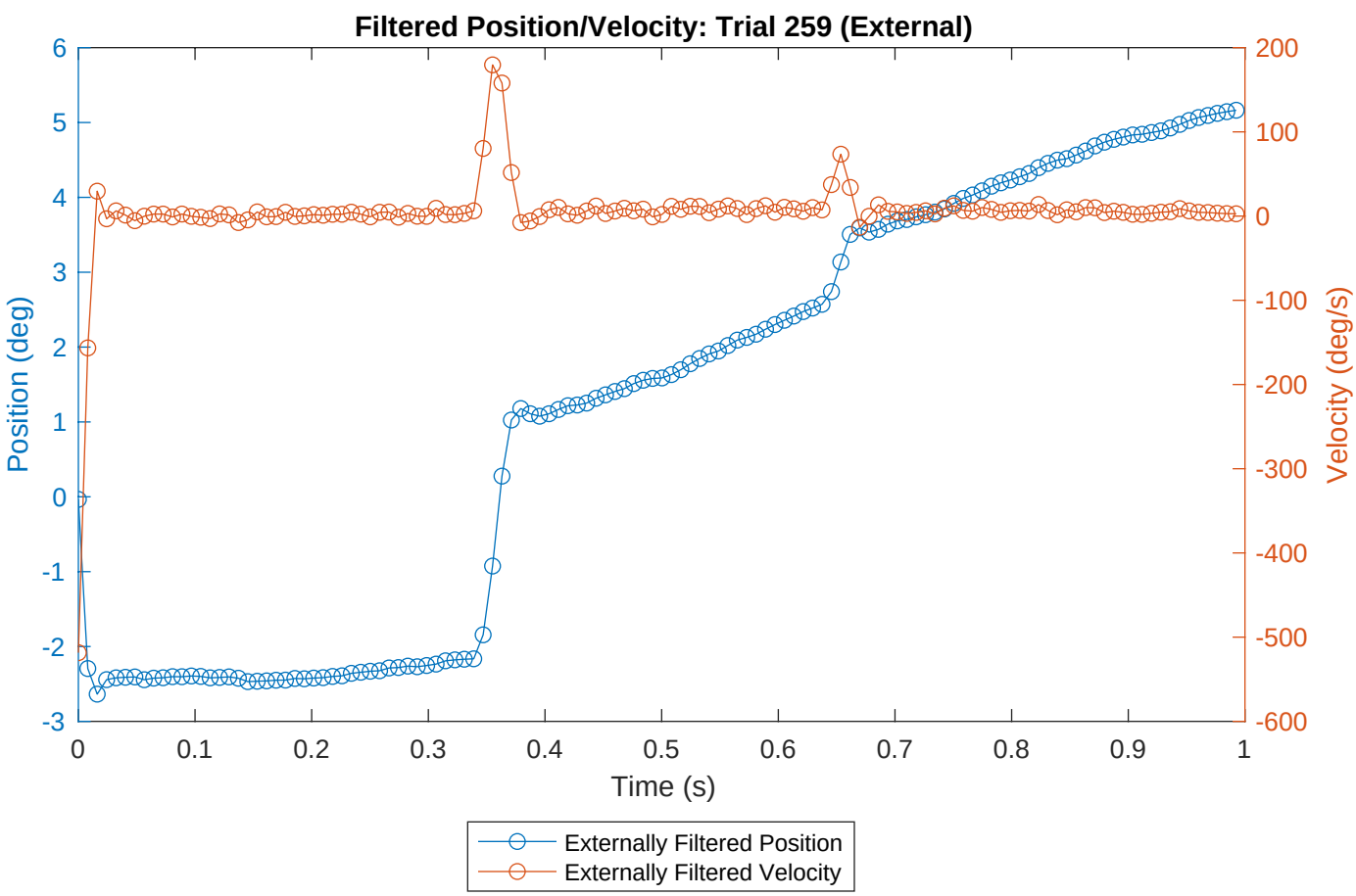

Position (deg)
Time (s)
0
-1
-2
-3
-4
-5
-6
-7
-8
-9
-10
0
0.1
0.2
0.3
0.4
0.5
0.6
0.7
0.8
0.9

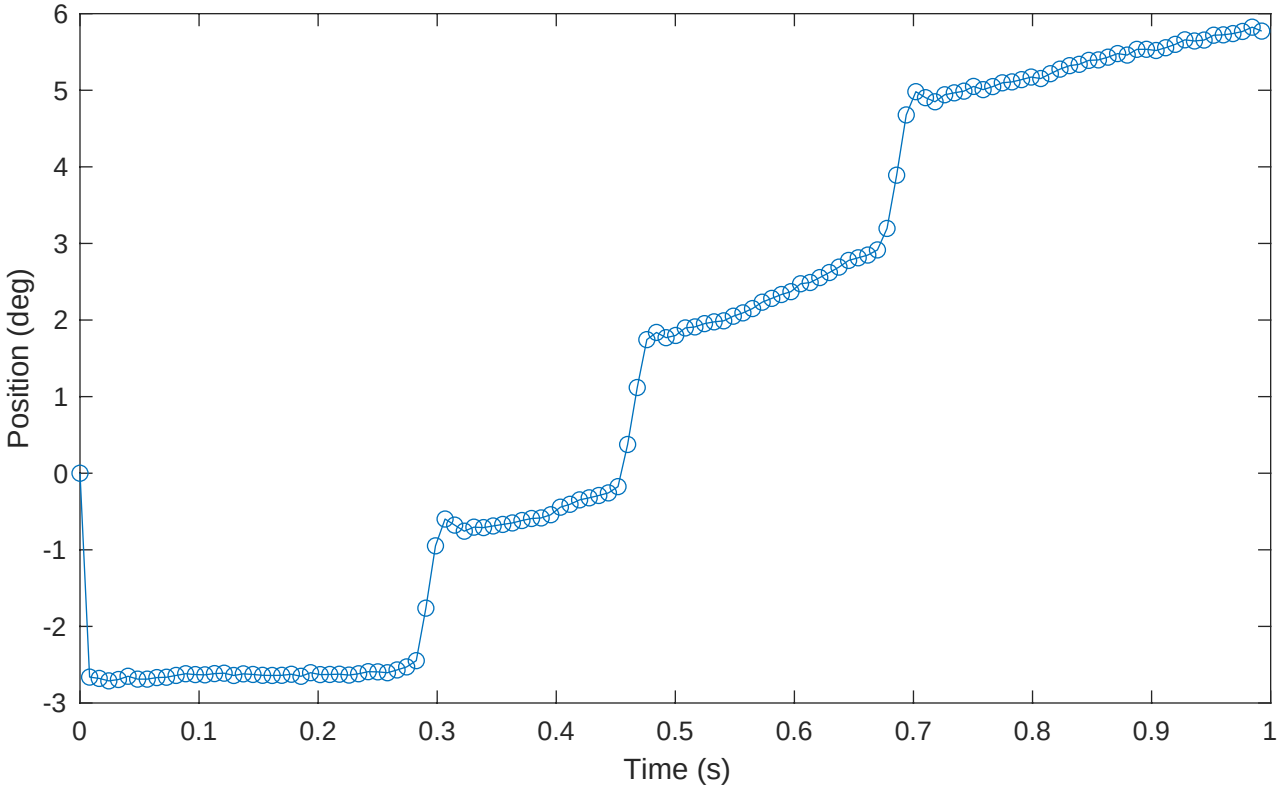

Filtered Position/Velocity: Trial 257 (External)
Position (deg)
Velocity (deg/s)
Time (s)
0
-1
-2
-3
-4
-5
-6
-7
-8
-9
-10
100
0
-100
-200
-300
-400
-500
-600
0
0.1
0.2
0.3
0.4
0.5
0.6
0.7
0.8
0.9
Externally Filtered Position
Externally Filtered Velocity

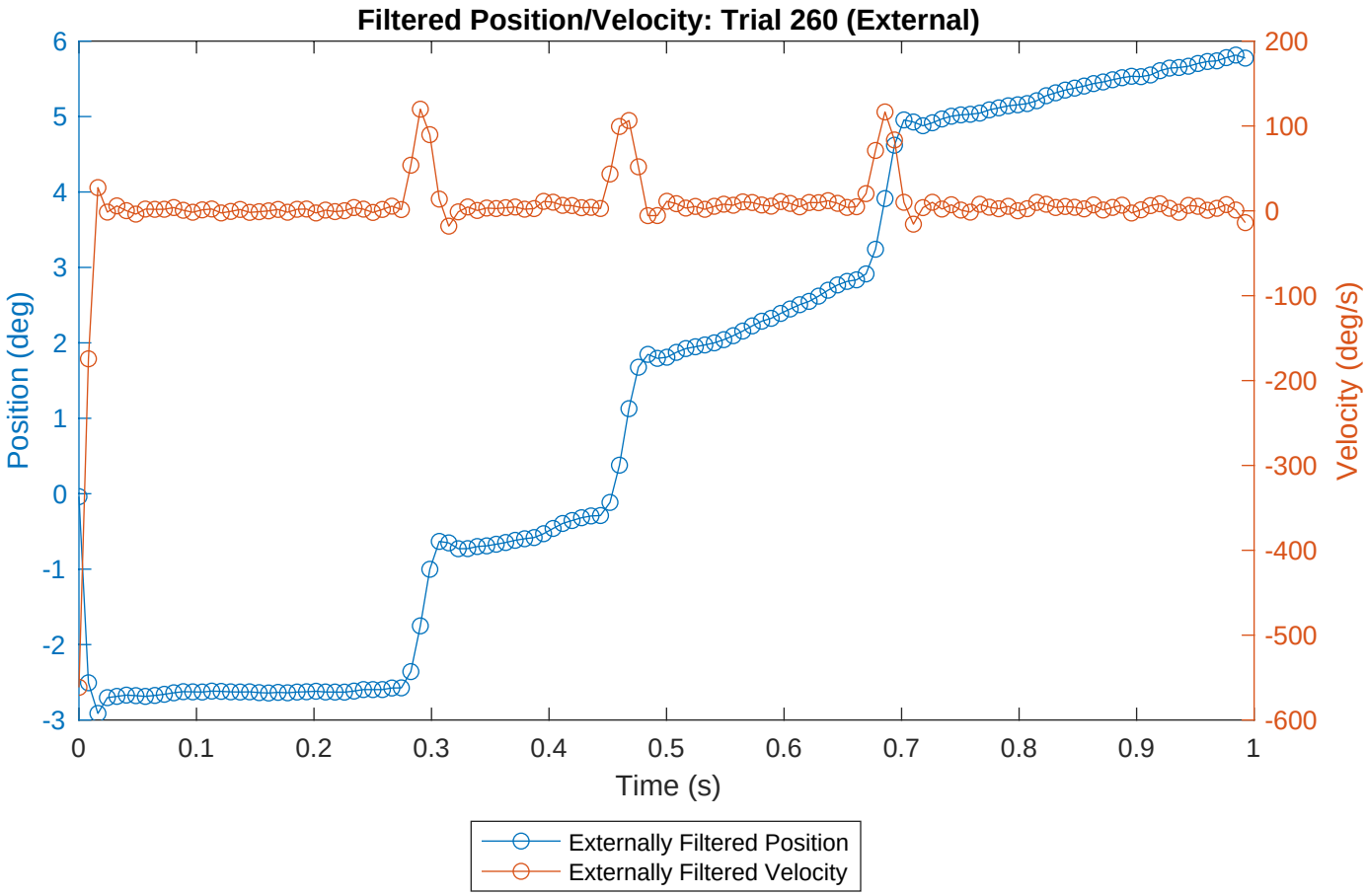

Position (deg)
Time (s)

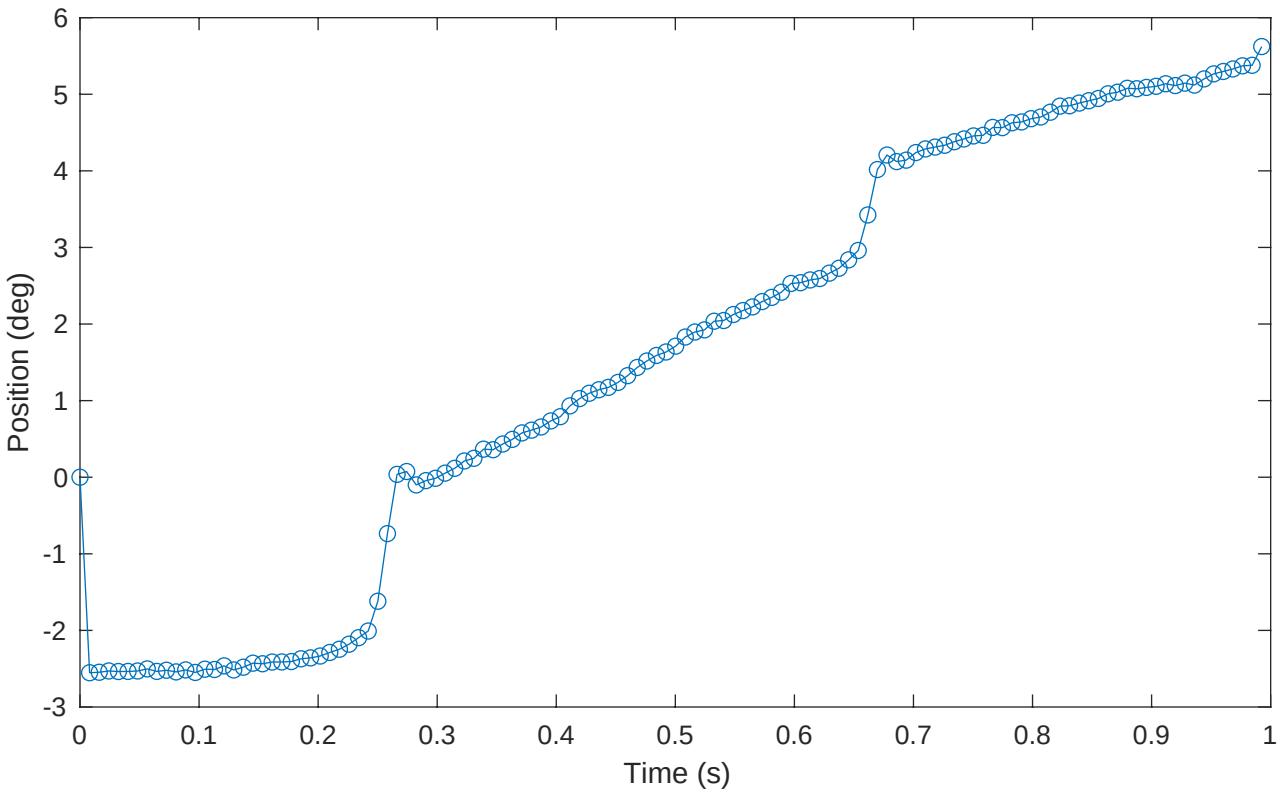

Filtered Position/Velocity: Trial 258 (External)
Position (deg)
Velocity (deg/s)
Time (s)
Externally Filtered Position
Externally Filtered Velocity

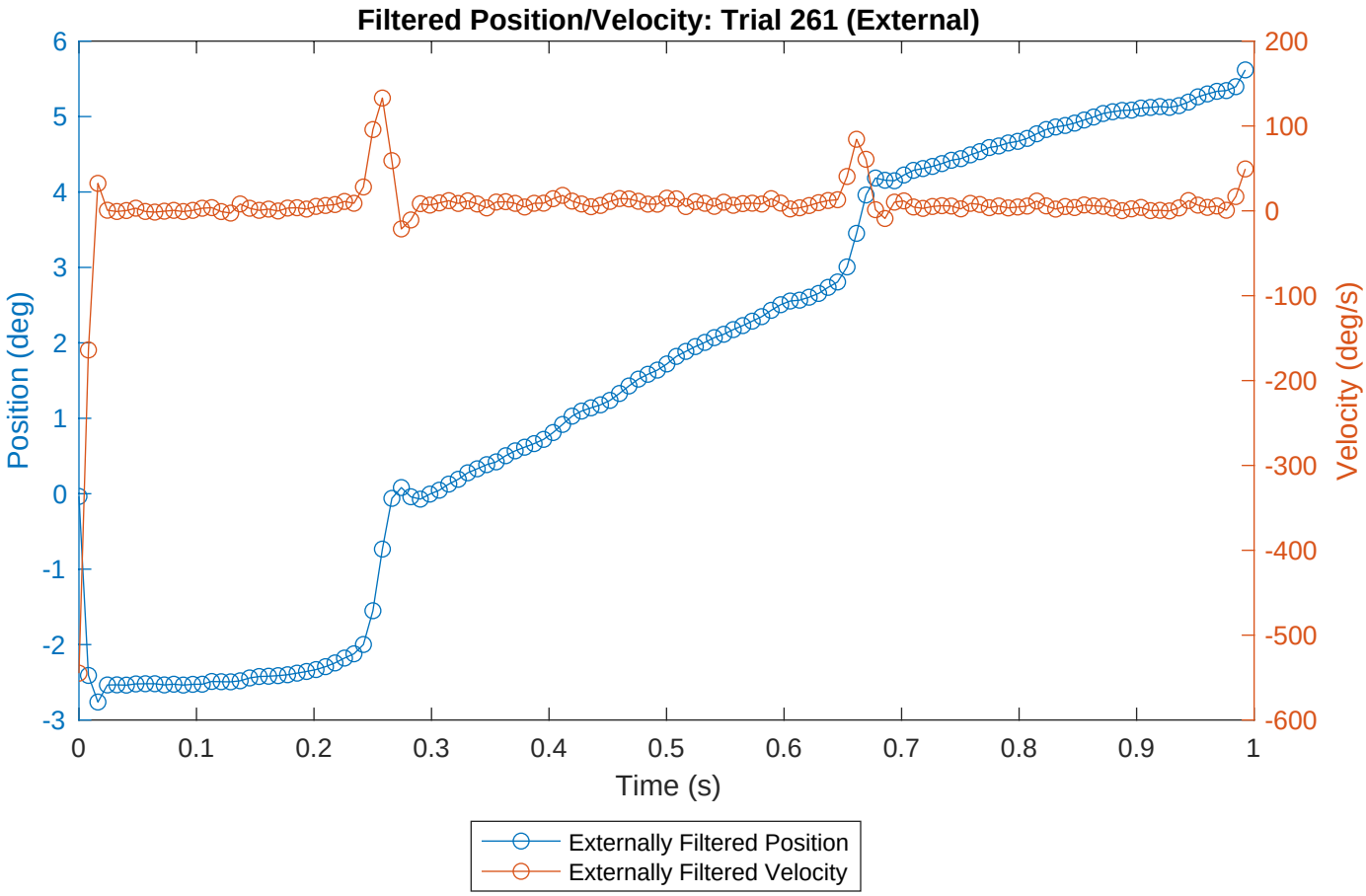

Position (deg)
Time (s)

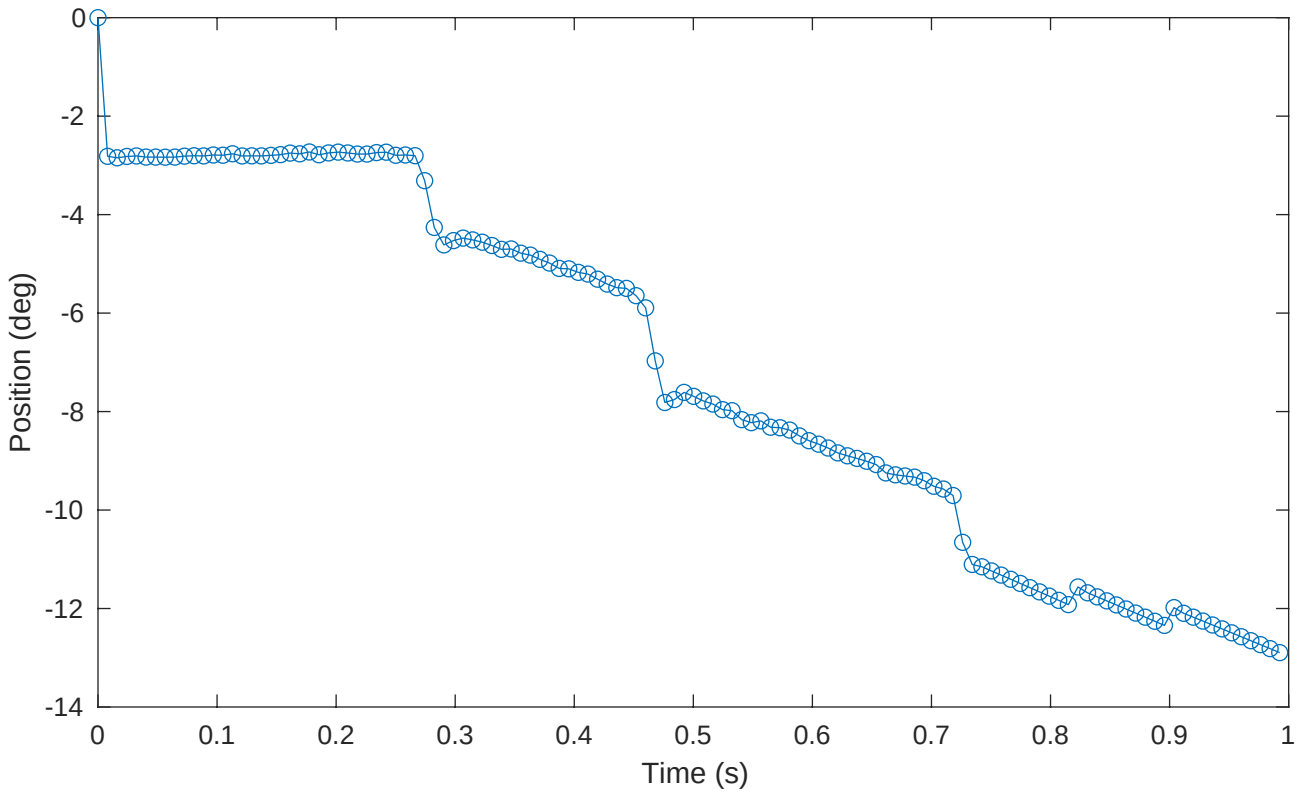

Filtered Position/Velocity: Trial 259 (External)
Position (deg)
Velocity (deg/s)
Time (s)
Externally Filtered Position
Externally Filtered Velocity

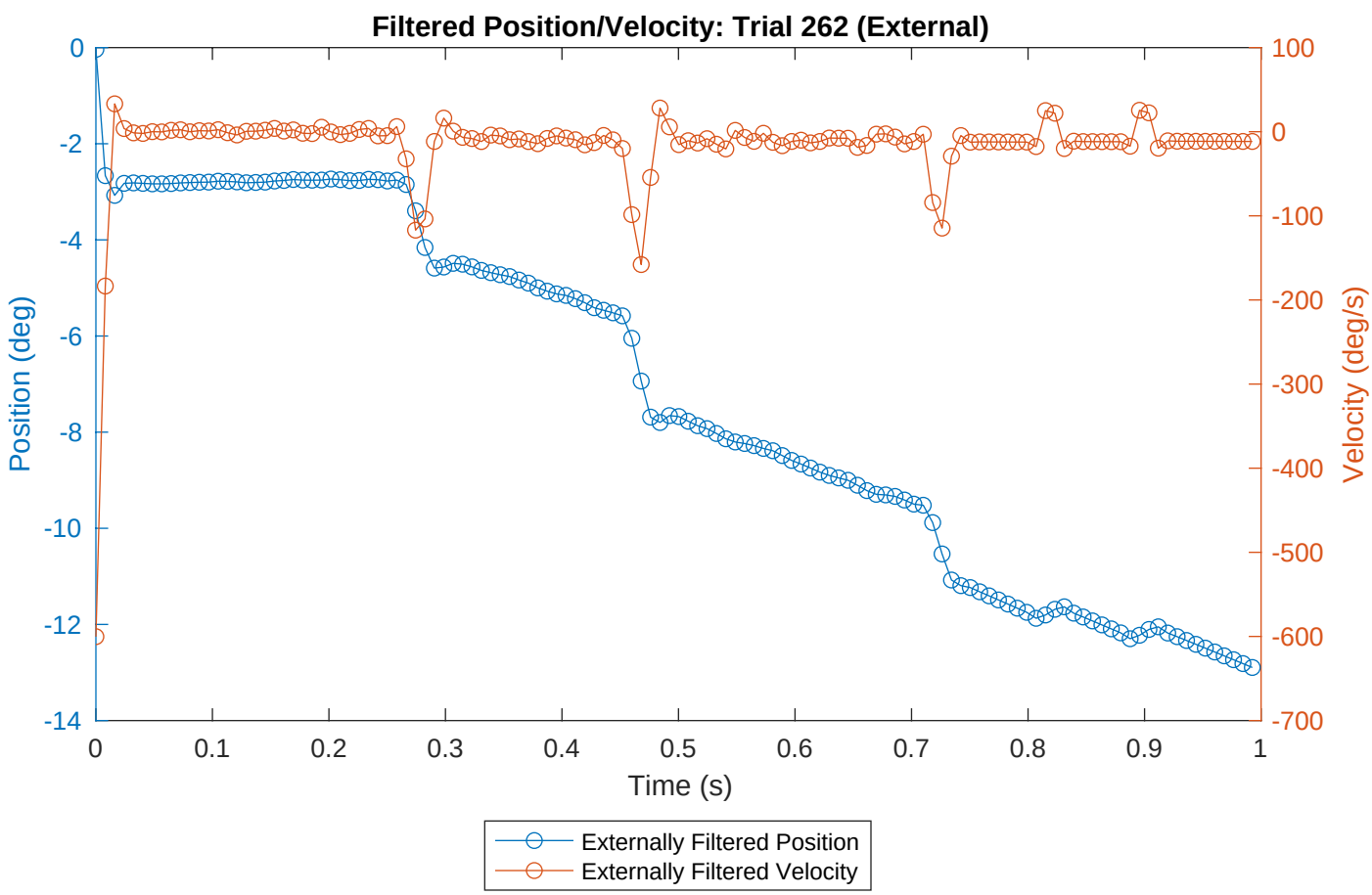

Position (deg)
Time (s)

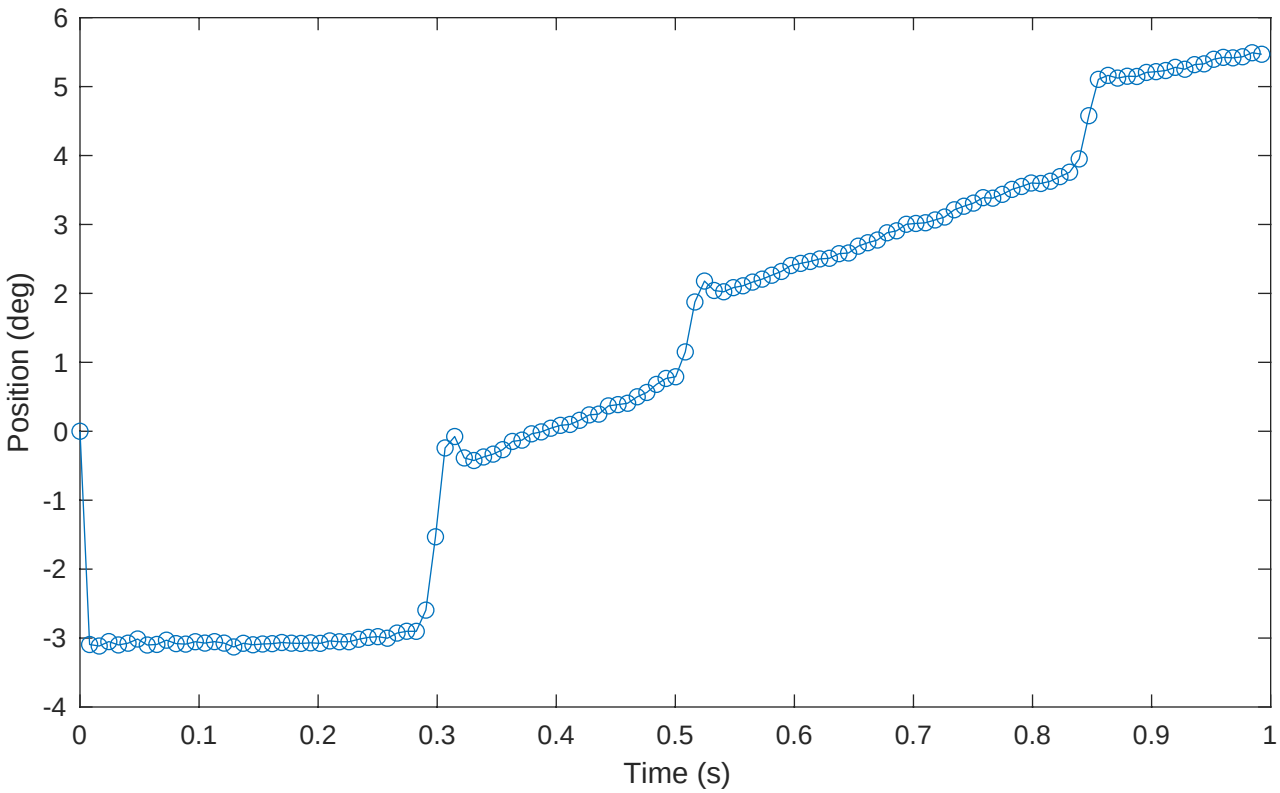

Filtered Position/Velocity: Trial 260 (External)
Position (deg)
Velocity (deg/s)
Time (s)
Externally Filtered Position
Externally Filtered Velocity

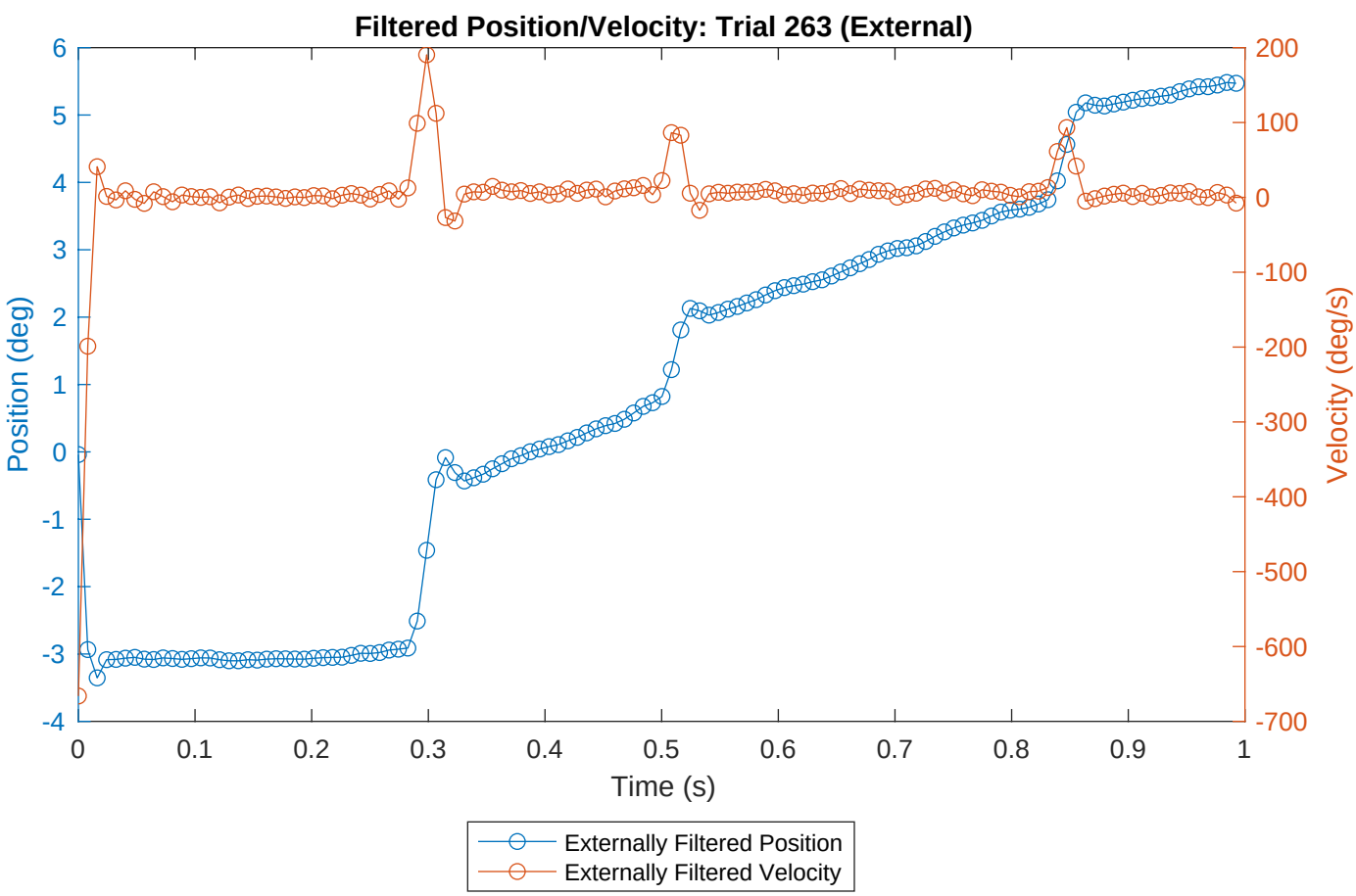

Position (deg)
Time (s)

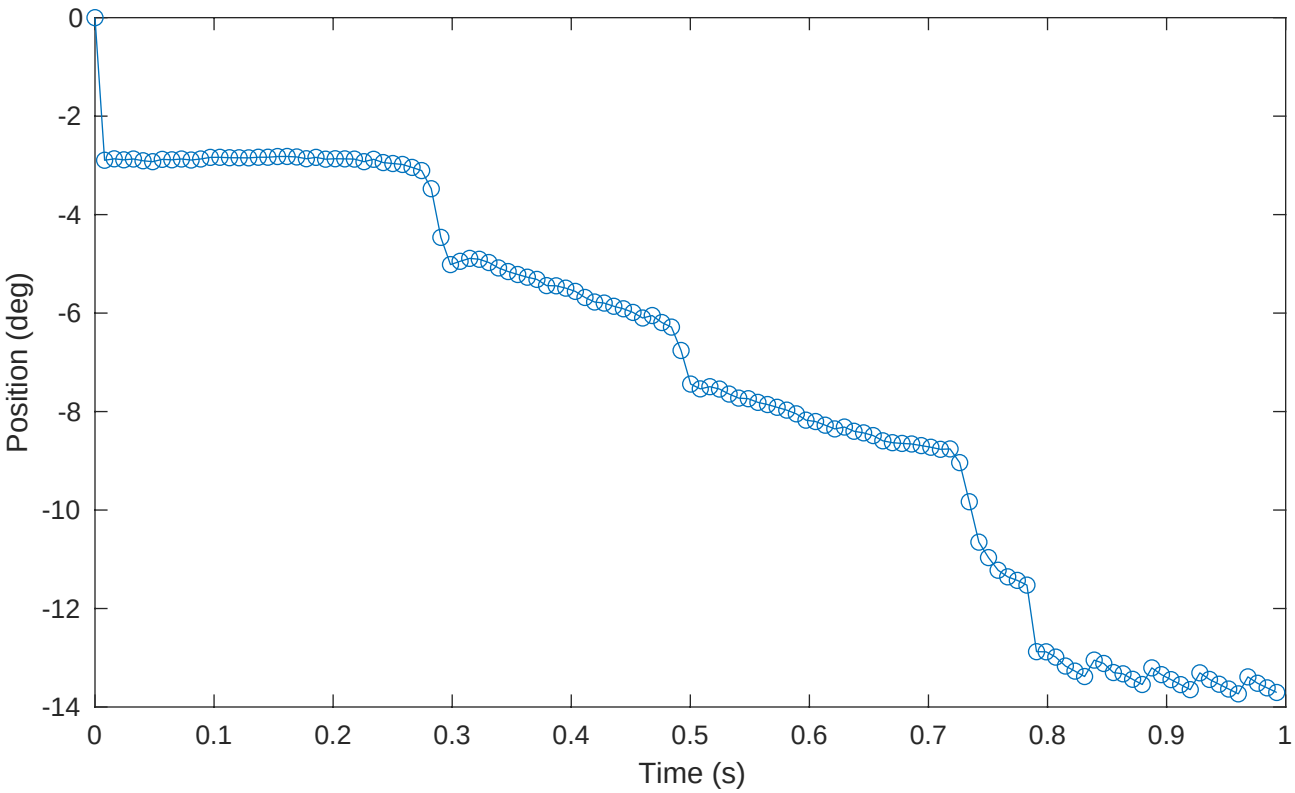

Filtered Position/Velocity: Trial 261 (External)
Position (deg)
Velocity (deg/s)
Time (s)
Externally Filtered Position
Externally Filtered Velocity

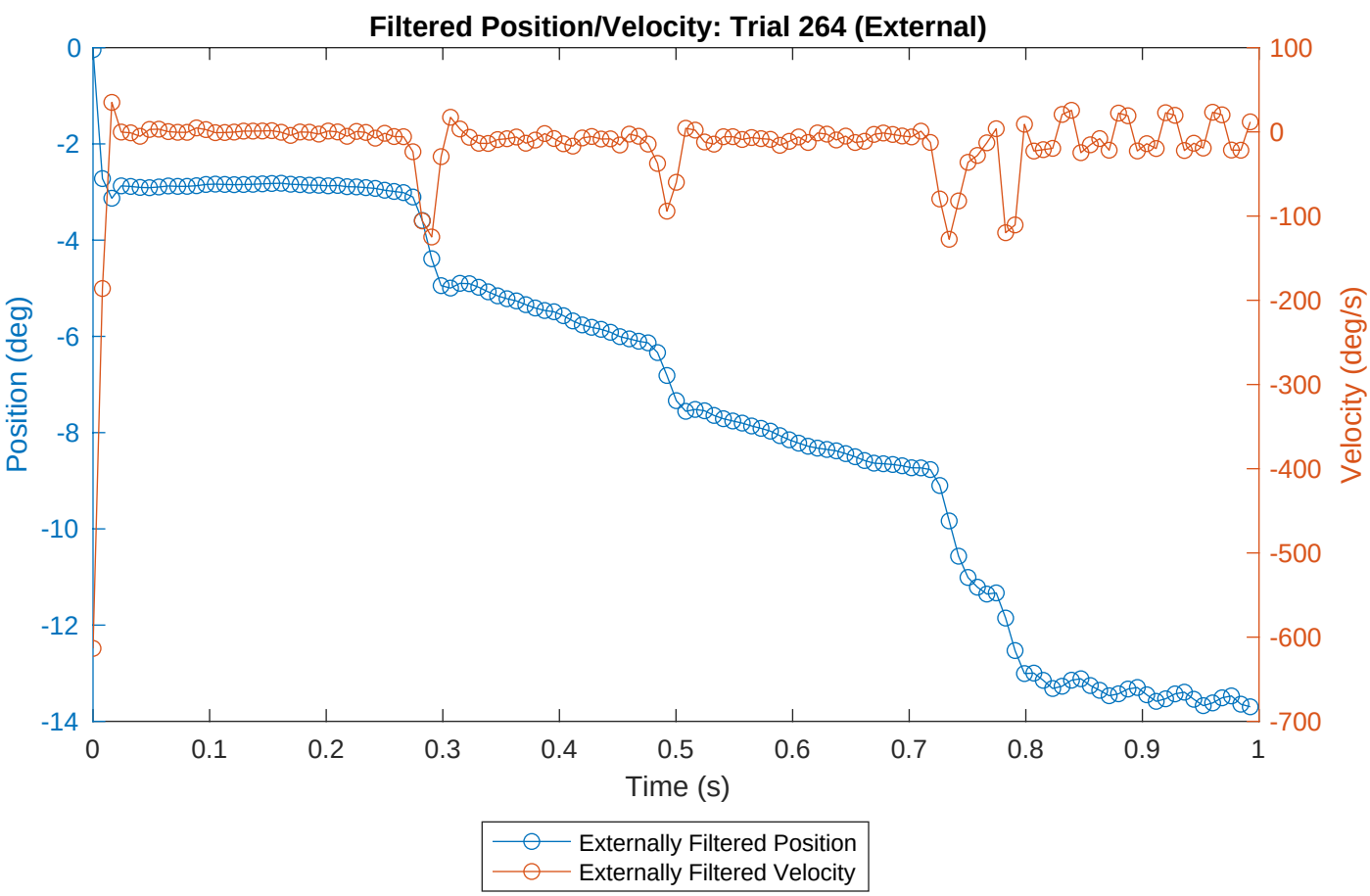

Position (deg)
Time (s)
0
-2
-4
-6
-8
-10
-12
-14
0
0.1
0.2
0.3
0.4
0.5
0.6
0.7
0.8
0.9
1

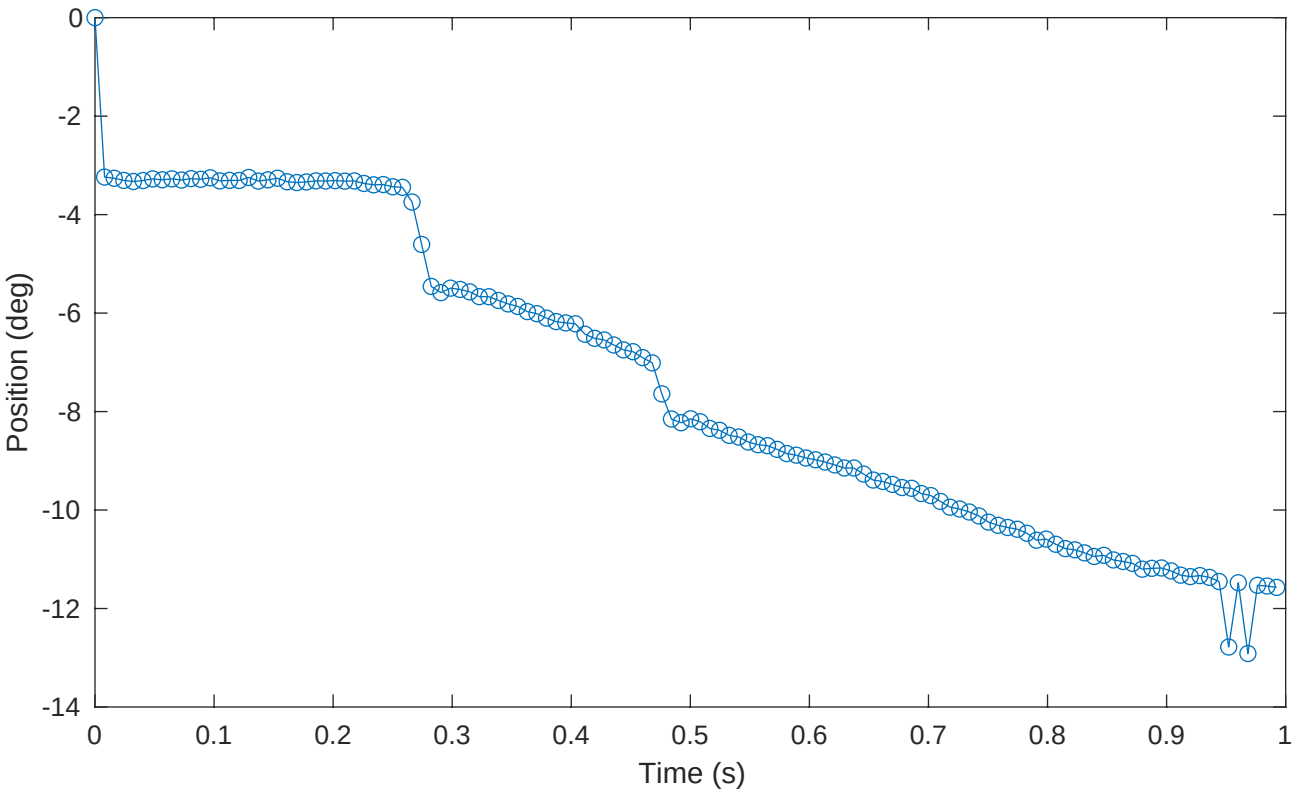

Filtered Position/Velocity: Trial 262 (External)
Position (deg)
Velocity (deg/s)
Time (s)
0
-2
-4
-6
-8
-10
-12
-14
100
0
-100
-200
-300
-400
-500
-600
-700
0
0.1
0.2
0.3
0.4
0.5
0.6
0.7
0.8
0.9
1
Externally Filtered Position
Externally Filtered Velocity

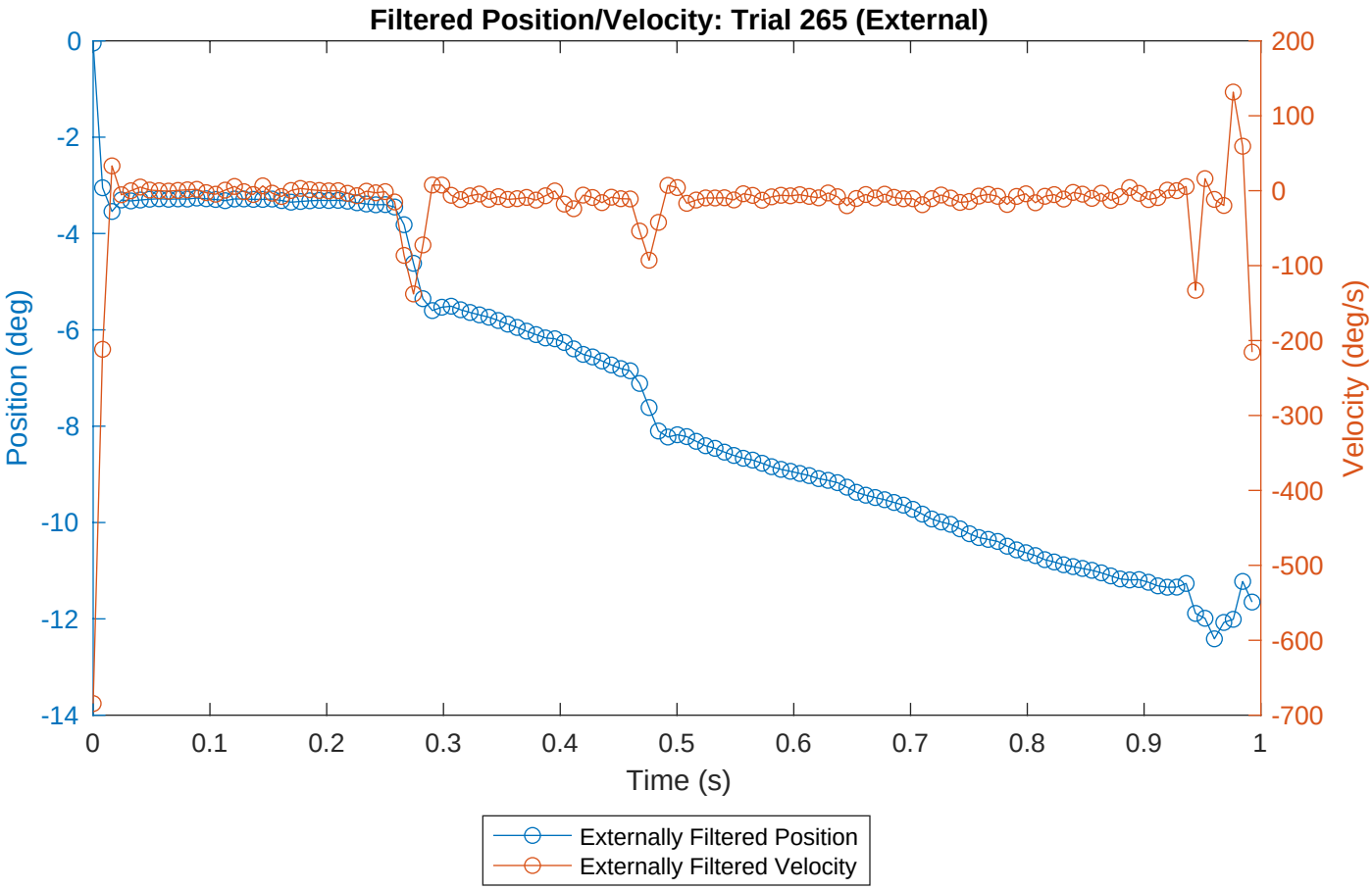

Position (deg)
Time (s)

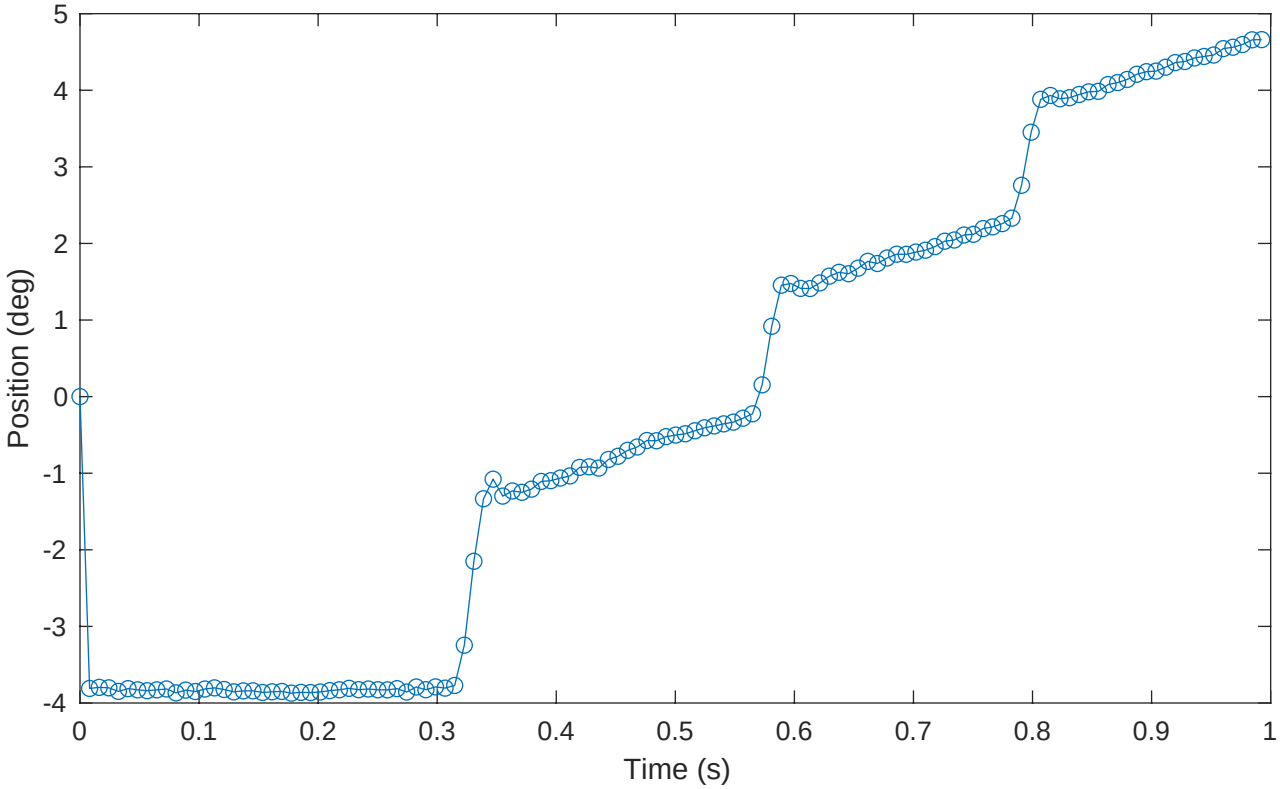

Filtered Position/Velocity: Trial 263 (External)
Position (deg)
Velocity (deg/s)
Time (s)
Externally Filtered Position
Externally Filtered Velocity

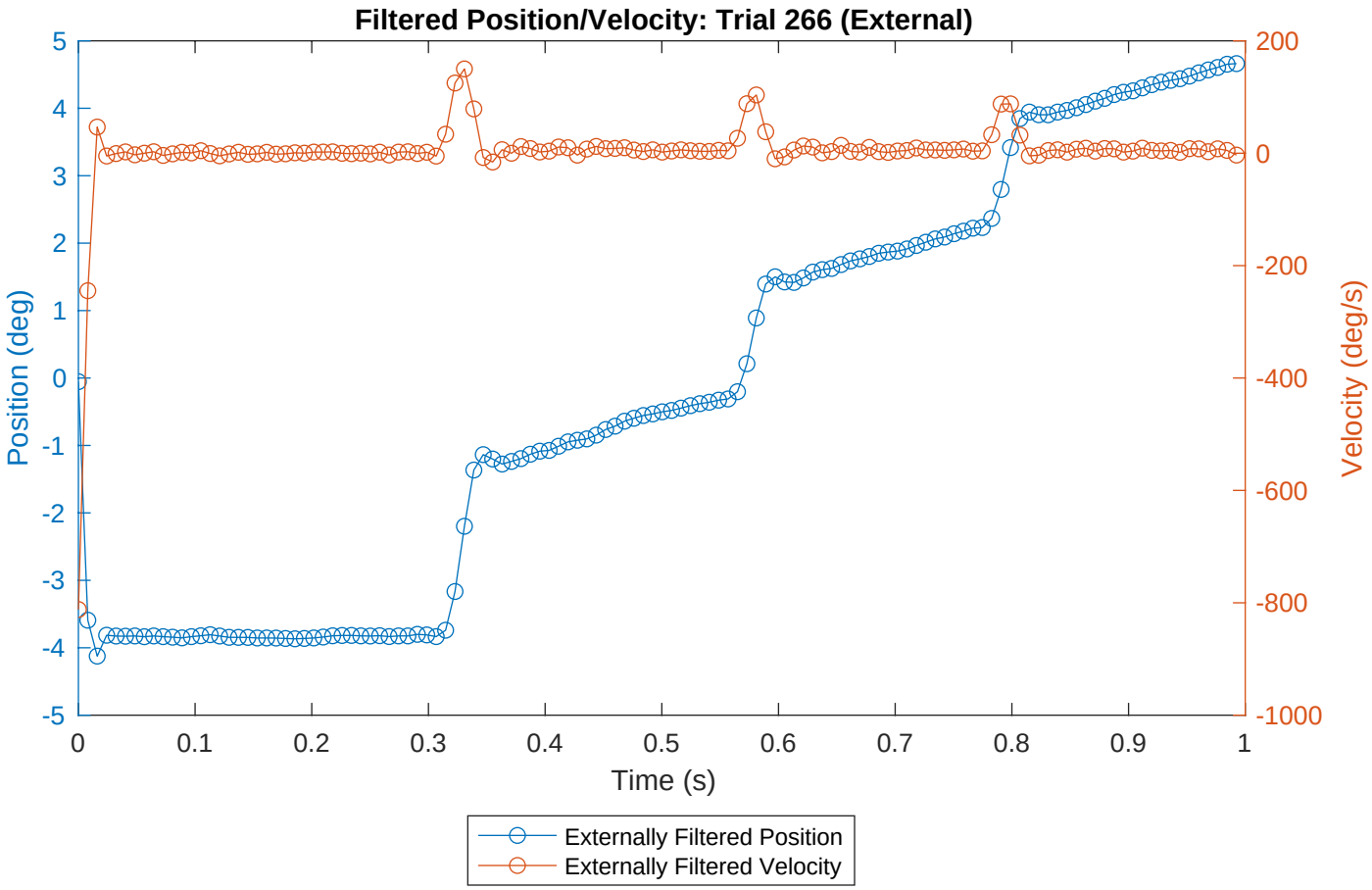

0
-2
-4
-6
-8
-10
-12
-14
Position (deg)
0
0.1
0.2
0.3
0.4
0.5
0.6
0.7
0.8
0.9
1
Time (s)

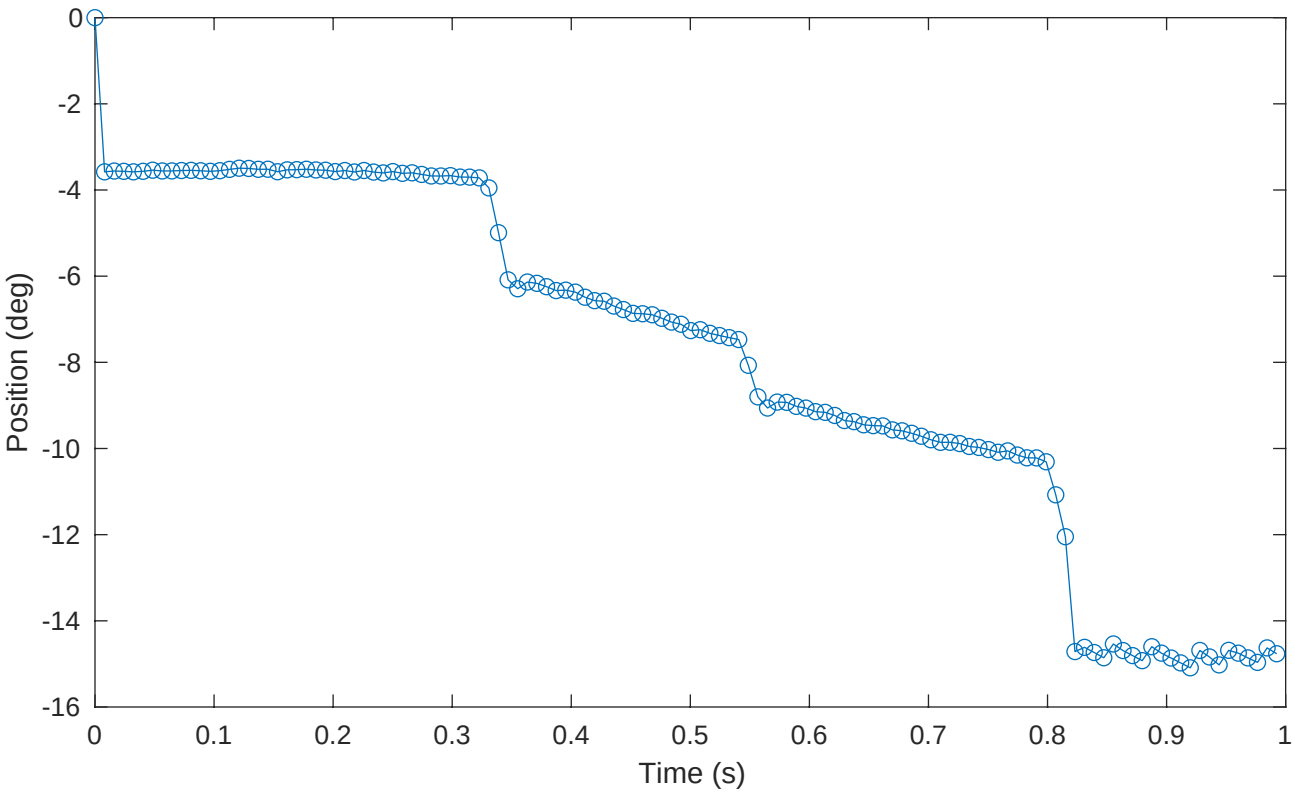

Filtered Position/Velocity: Trial 264 (External)
0
-2
-4
-6
-8
-10
-12
-14
Position (deg)
100
0
-100
-200
-300
-400
-500
-600
-700
Velocity (deg/s)
0
0.1
0.2
0.3
0.4
0.5
0.6
0.7
0.8
0.9
1
Time (s)
Externally Filtered Position
Externally Filtered Velocity

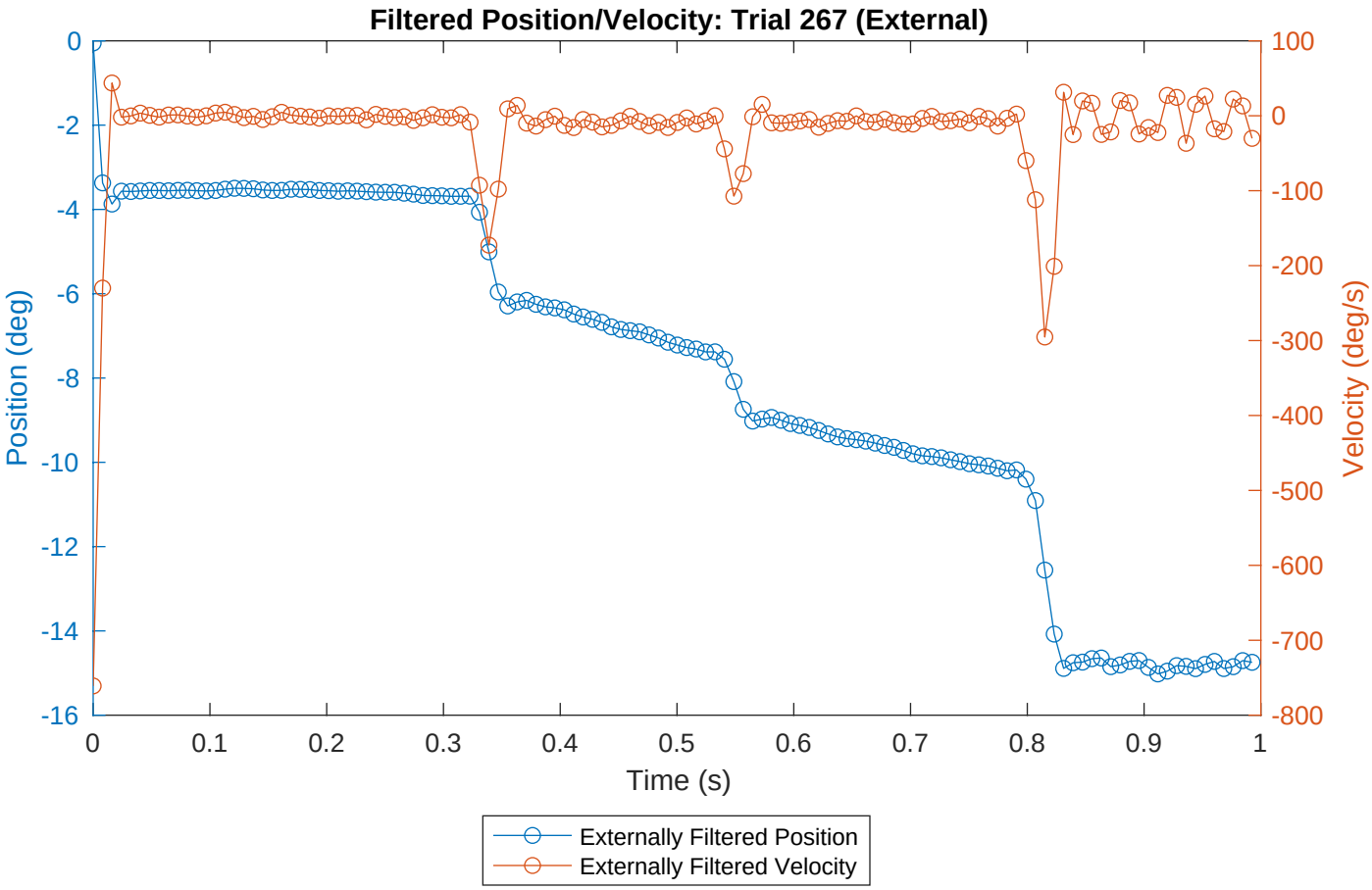

Position (deg)
Time (s)

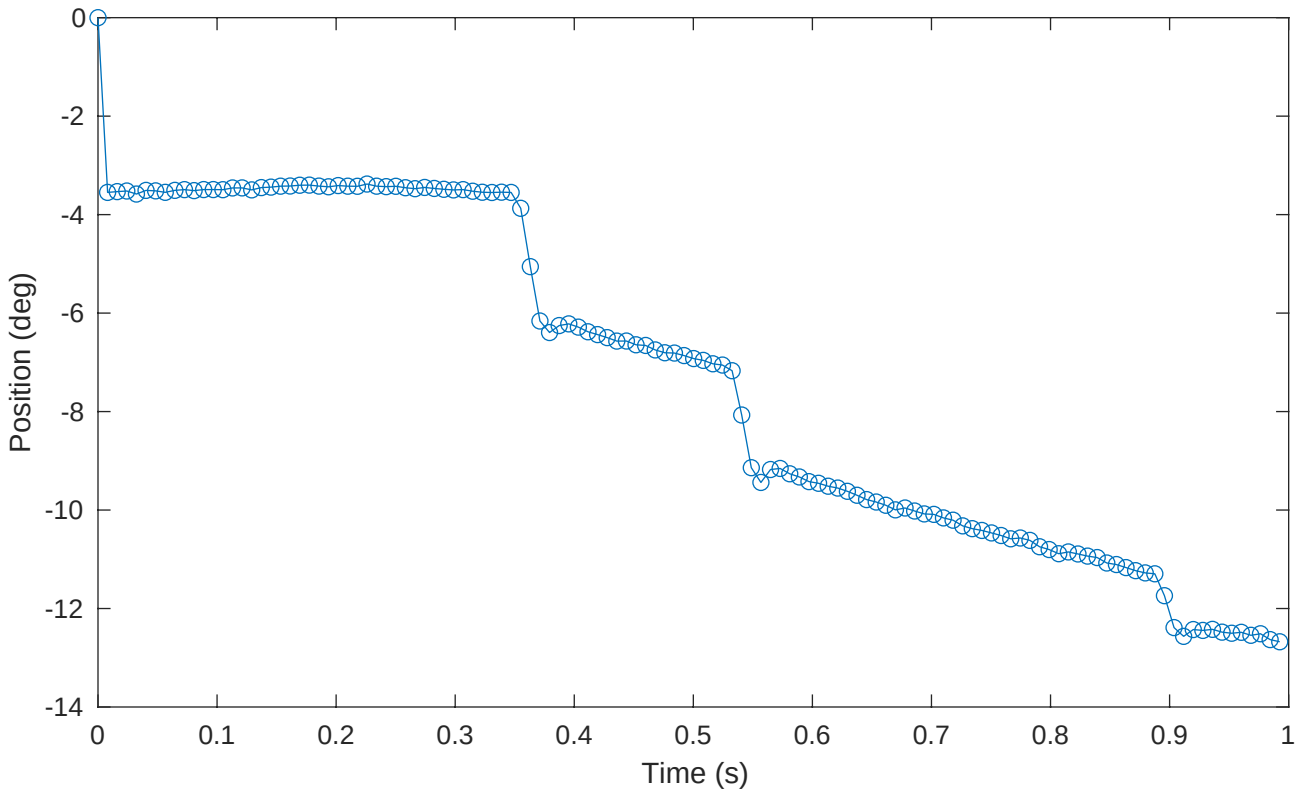

Filtered Position/Velocity: Trial 265 (External)
Position (deg)
Velocity (deg/s)
Time (s)
Externally Filtered Position
Externally Filtered Velocity

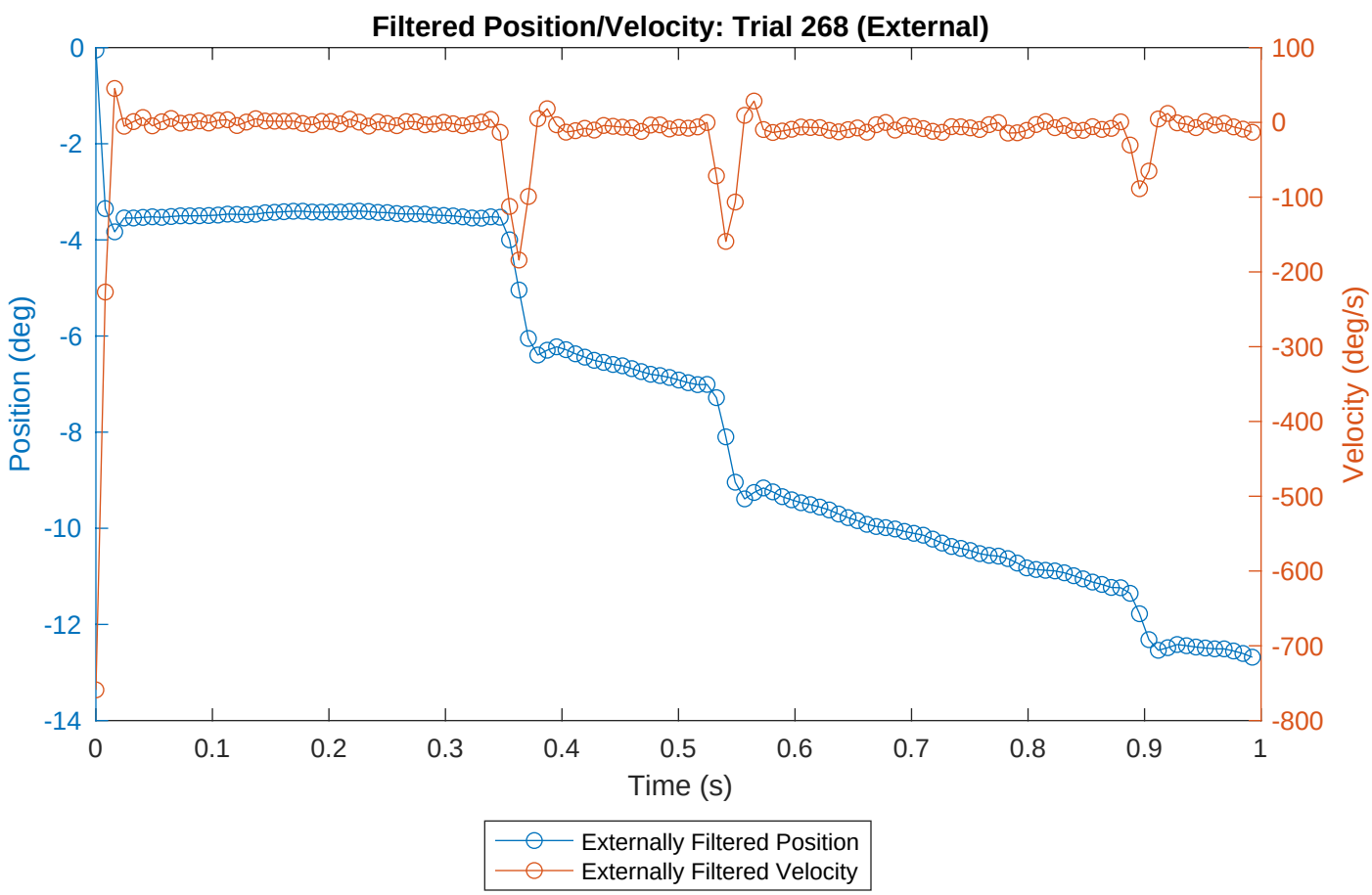

Position (deg)
Time (s)

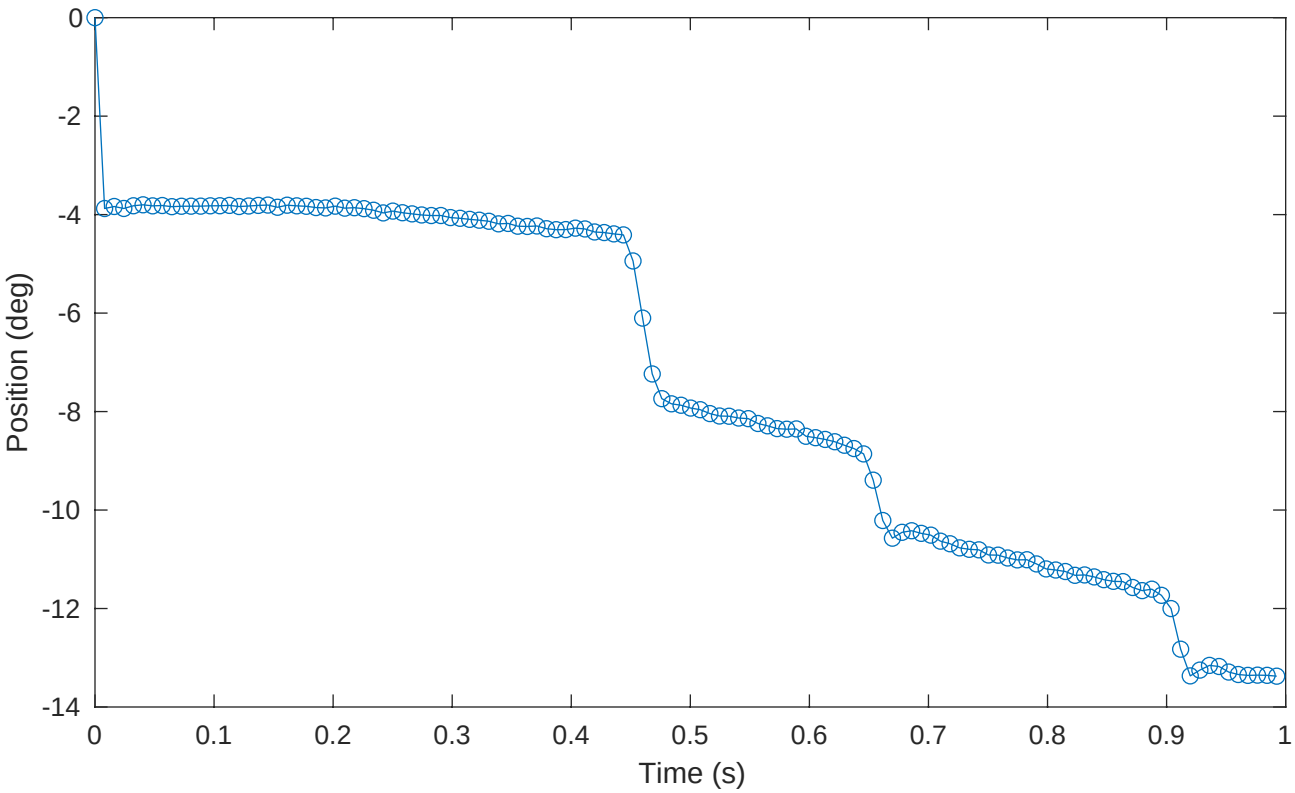

Filtered Position/Velocity: Trial 266 (External)
Position (deg)
Velocity (deg/s)
Time (s)
Externally Filtered Position
Externally Filtered Velocity

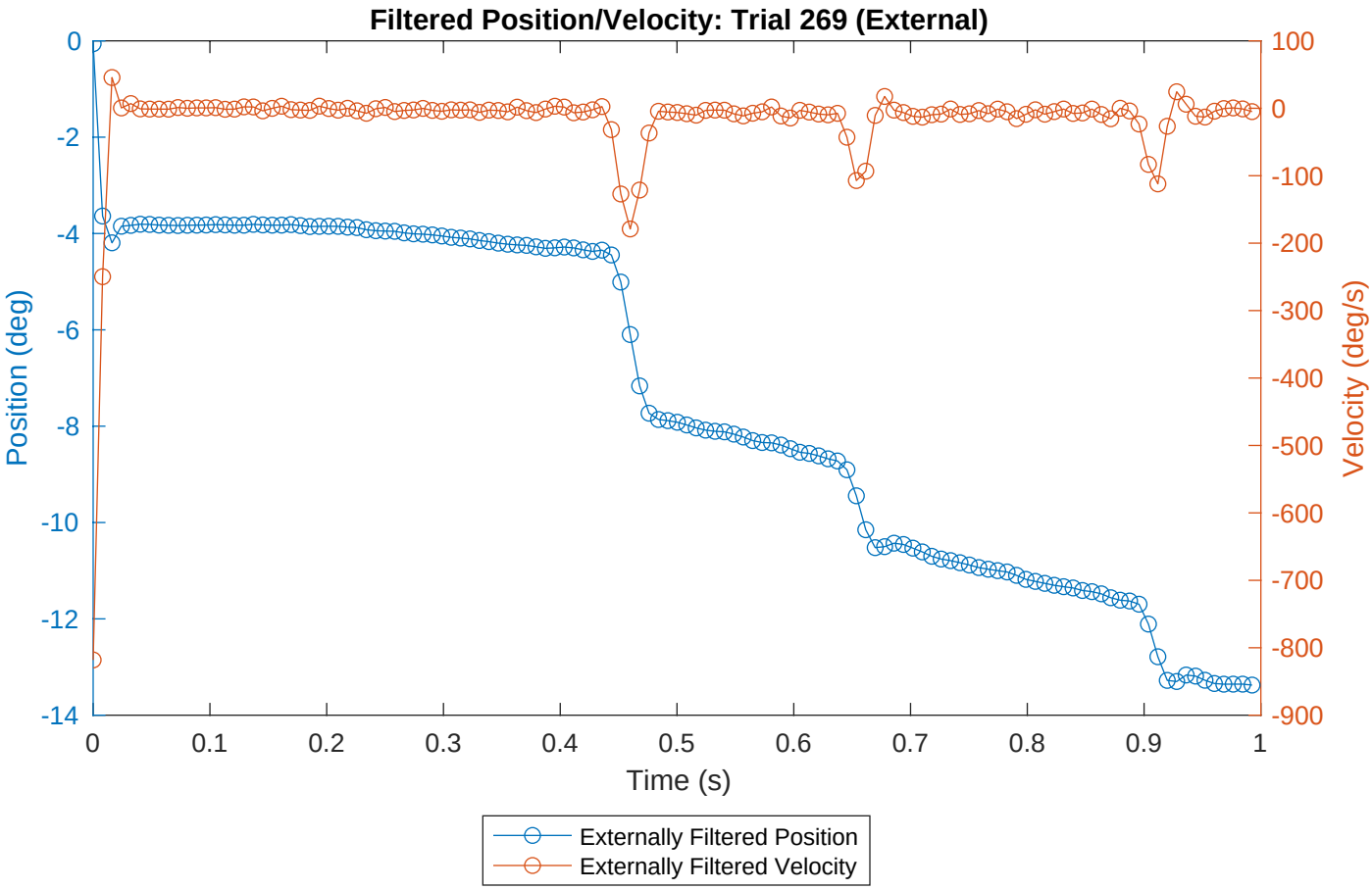

Position (deg)
Time (s)

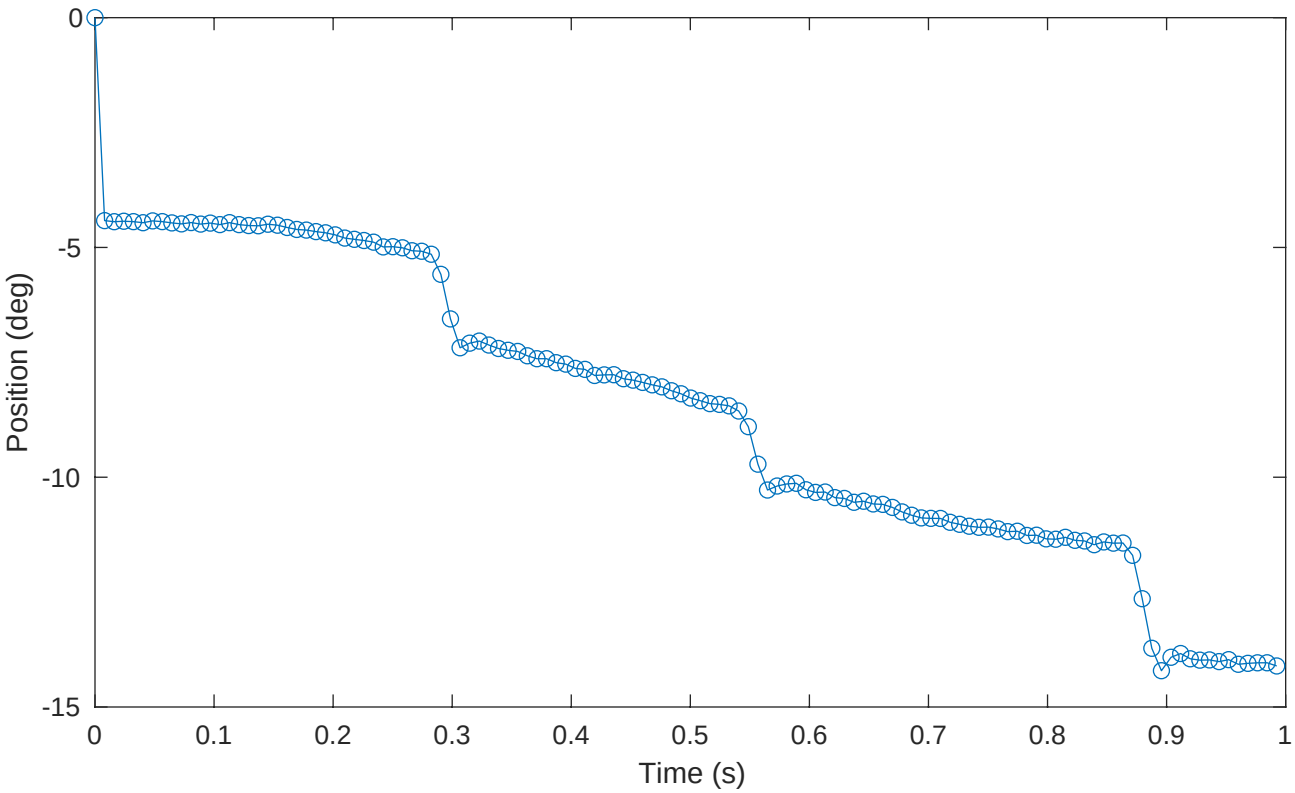

Filtered Position/Velocity: Trial 267 (External)
Position (deg)
Velocity (deg/s)
Time (s)
Externally Filtered Position
Externally Filtered Velocity

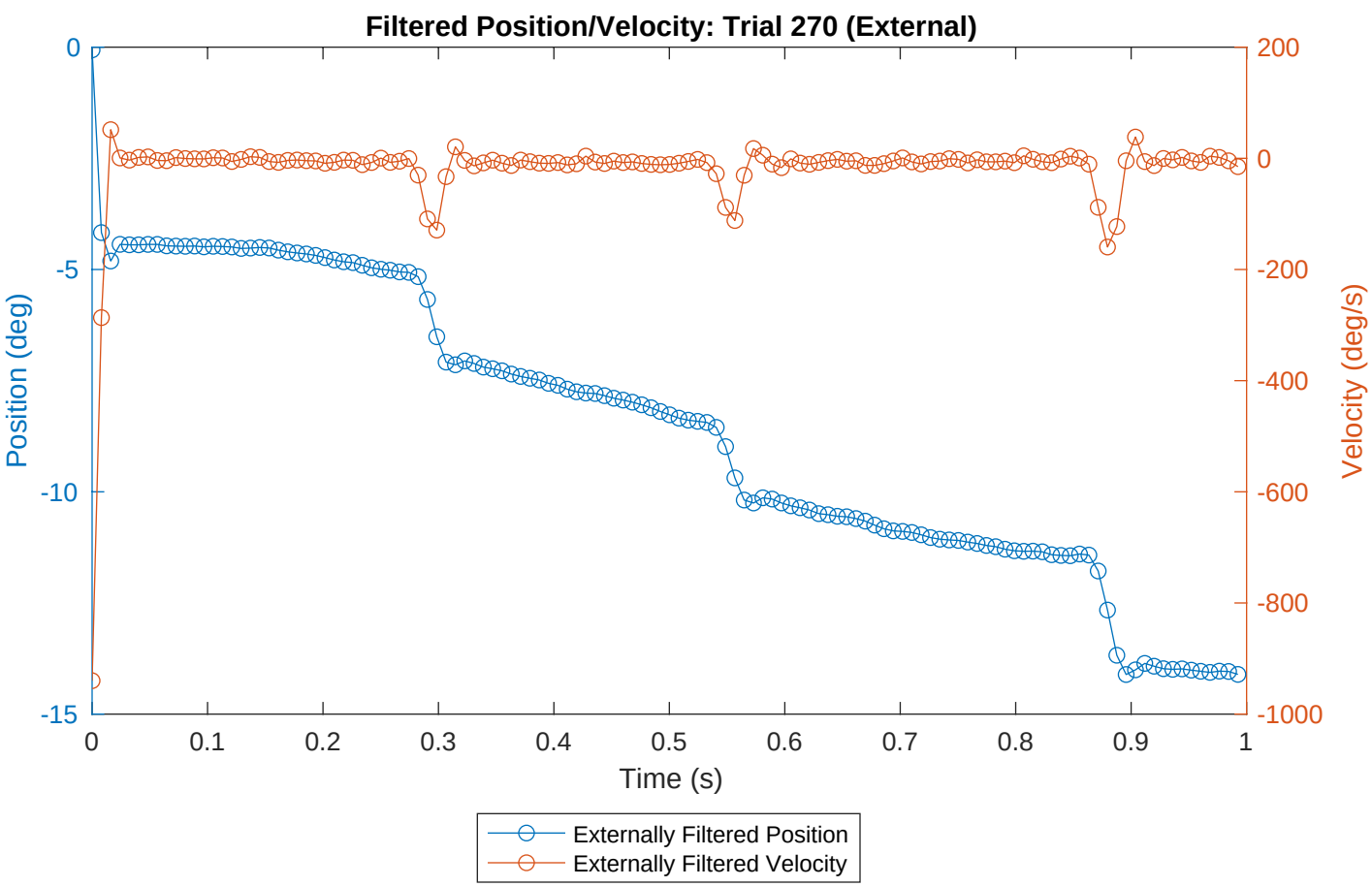

Position (deg)
Time (s)
0
-2
-4
-6
-8
-10
-12
-14
0
0.1
0.2
0.3
0.4
0.5
0.6
0.7
0.8
0.9
1

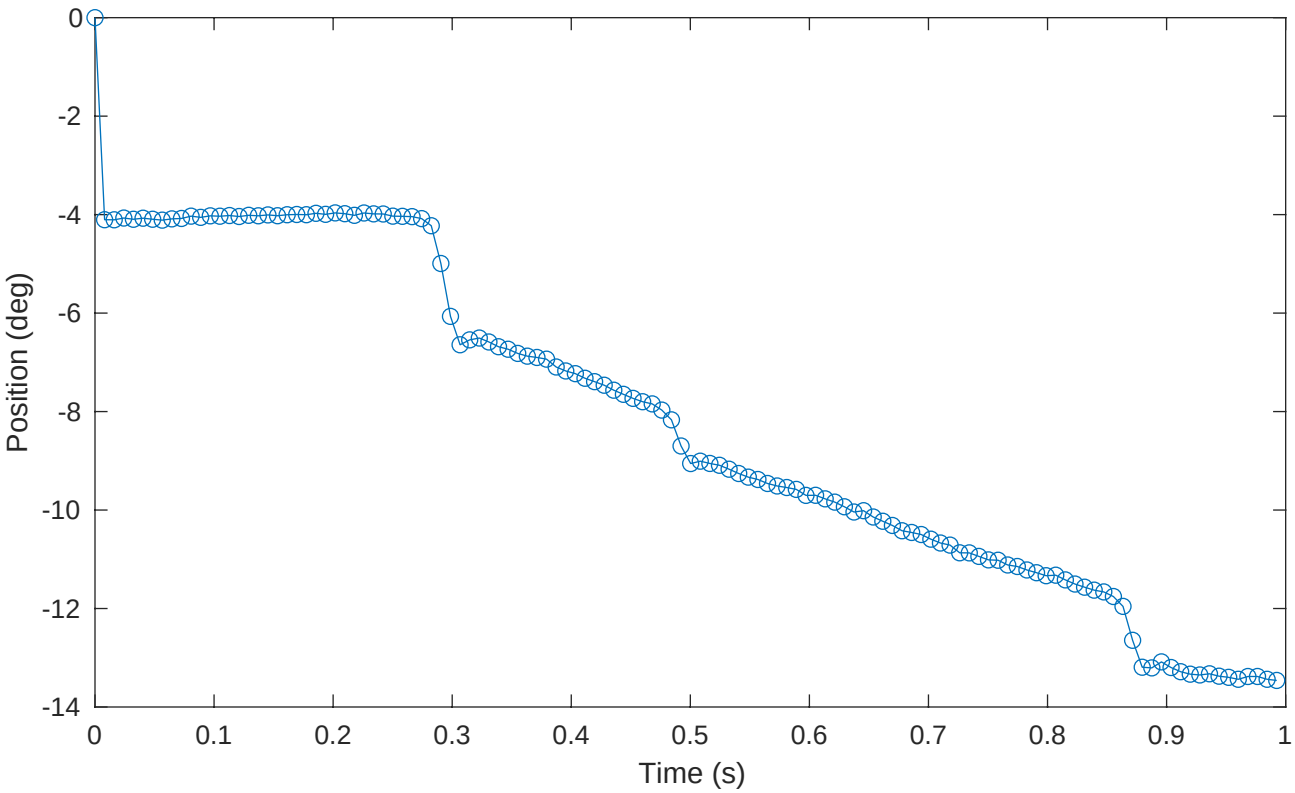

Filtered Position/Velocity: Trial 268 (External)
Position (deg)
Velocity (deg/s)
Time (s)
0
-2
-4
-6
-8
-10
-12
-14
100
0
-100
-200
-300
-400
-500
-600
-700
-800
0
0.1
0.2
0.3
0.4
0.5
0.6
0.7
0.8
0.9
1
Externally Filtered Position
Externally Filtered Velocity

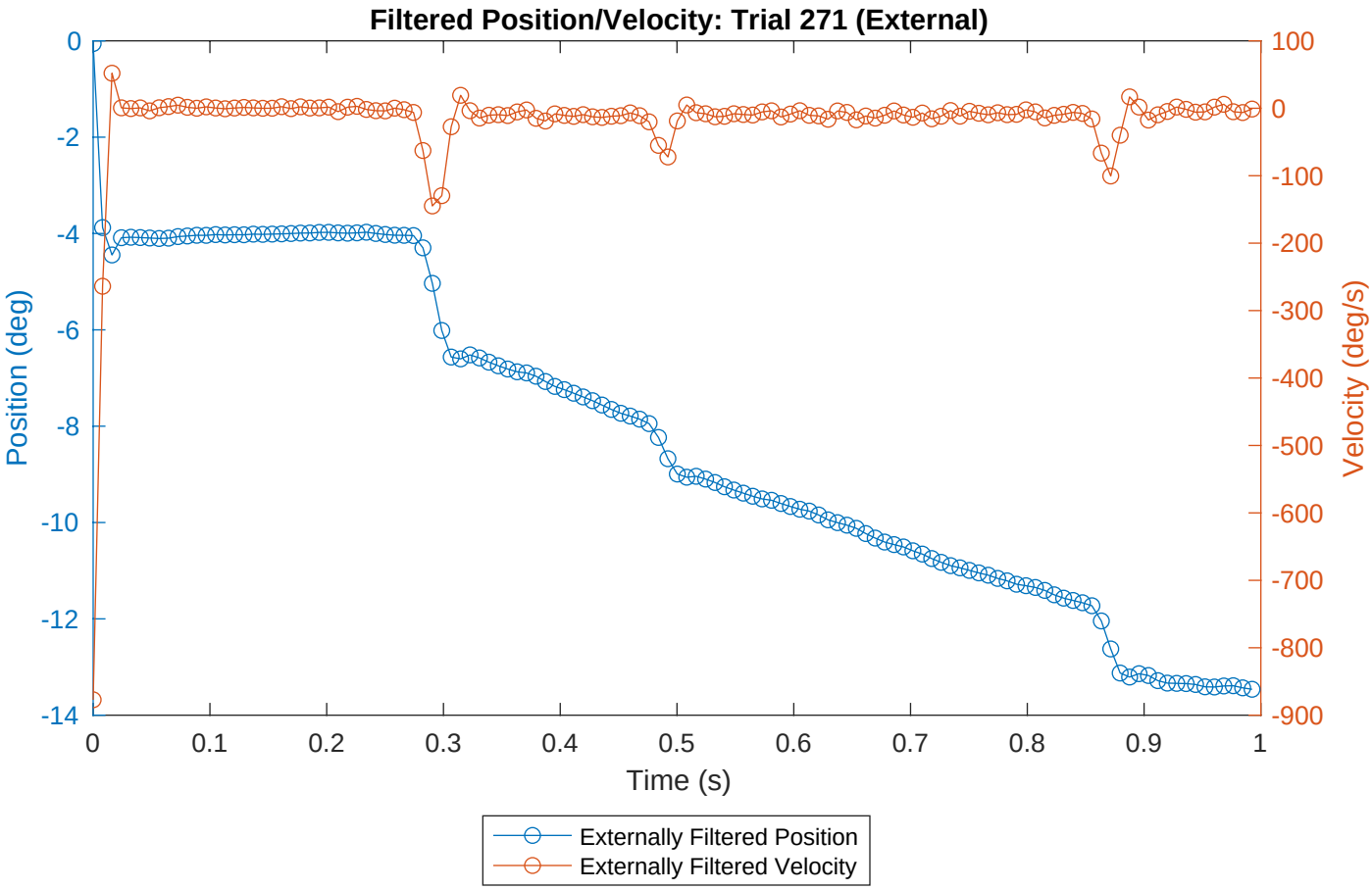

Position (deg)
Time (s)

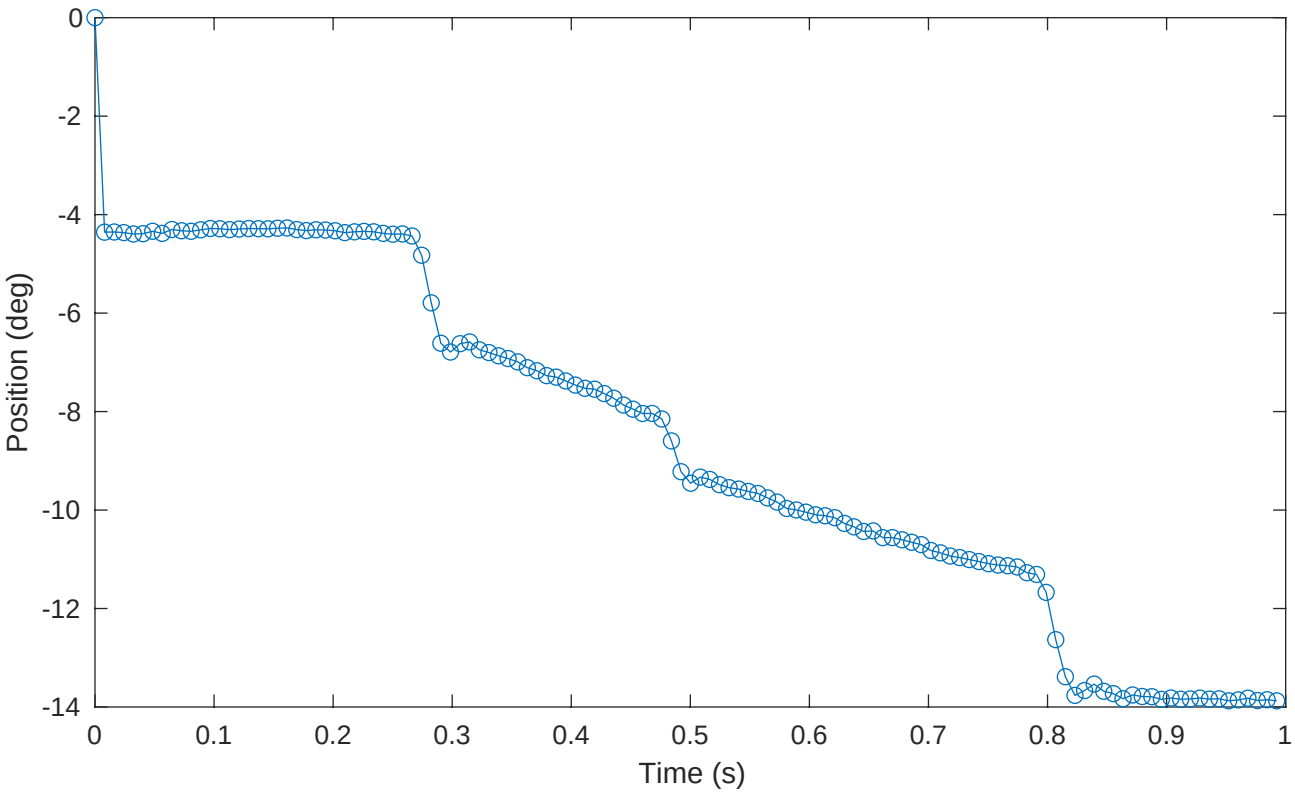

Filtered Position/Velocity: Trial 269 (External)
Position (deg)
Velocity (deg/s)
Time (s)
Externally Filtered Position
Externally Filtered Velocity

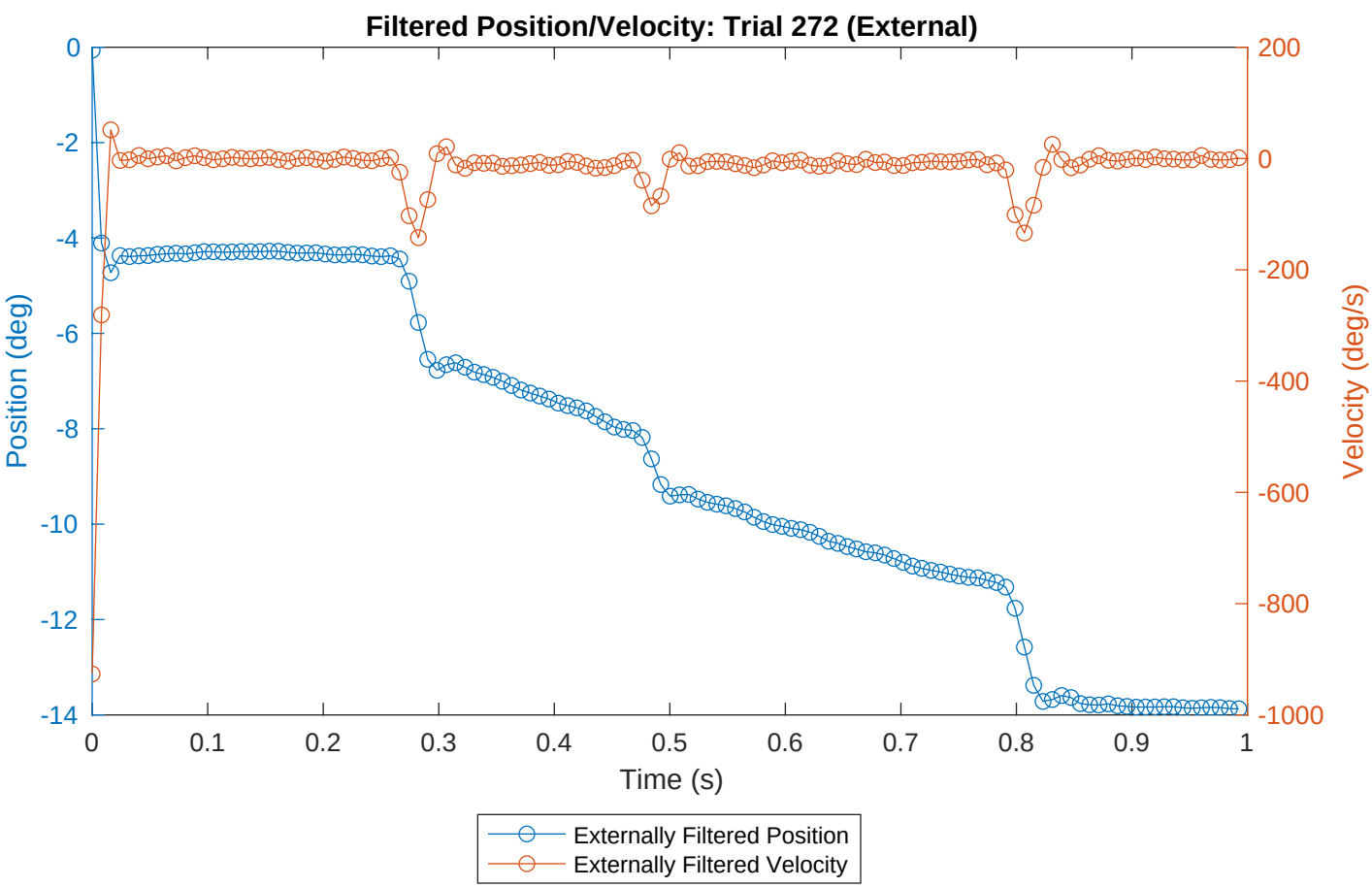

0
-5
-10
-15
Position (deg)
0
0.1
0.2
0.3
0.4
0.5
0.6
0.7
0.8
0.9
1
Time (s)

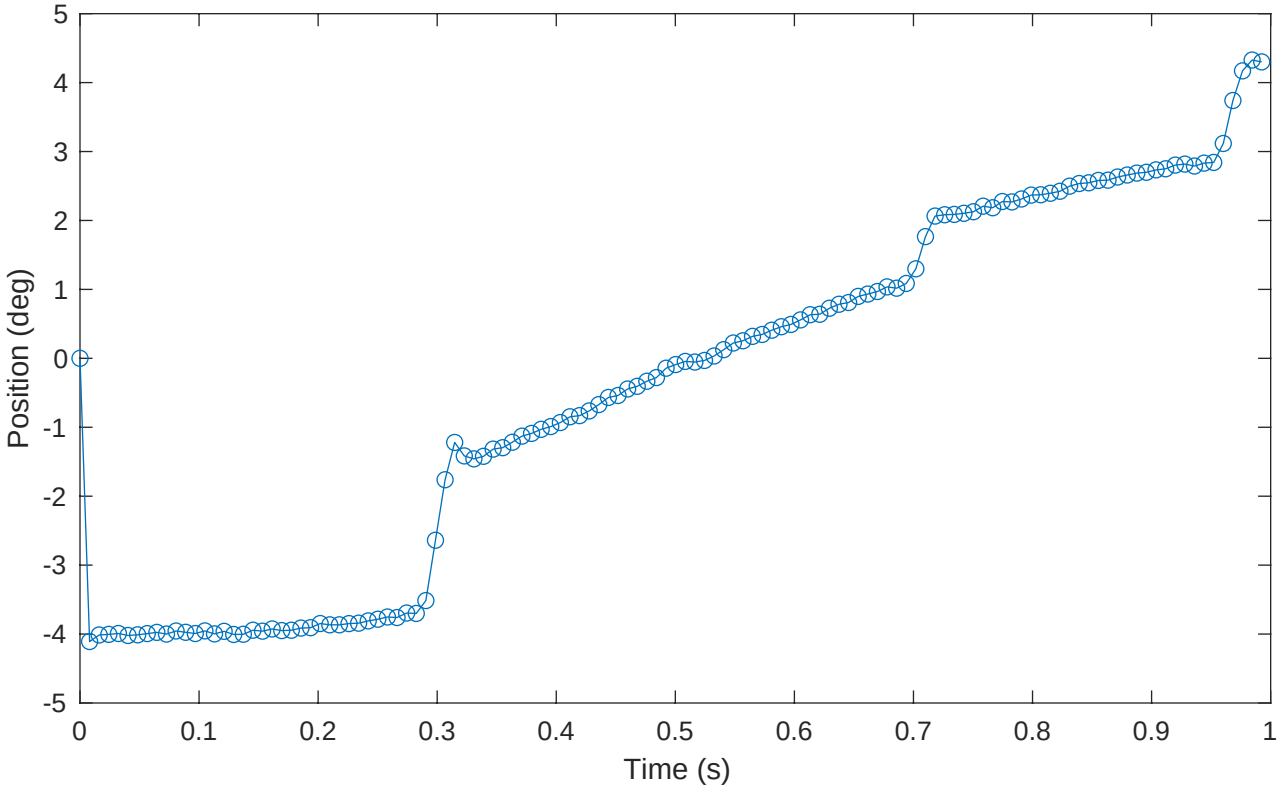

Filtered Position/Velocity: Trial 270 (External)
0
-5
-10
-15
Position (deg)
200
0
-200
-400
-600
-800
-1000
Velocity (deg/s)
0
0.1
0.2
0.3
0.4
0.5
0.6
0.7
0.8
0.9
1
Time (s)
Externally Filtered Position
Externally Filtered Velocity

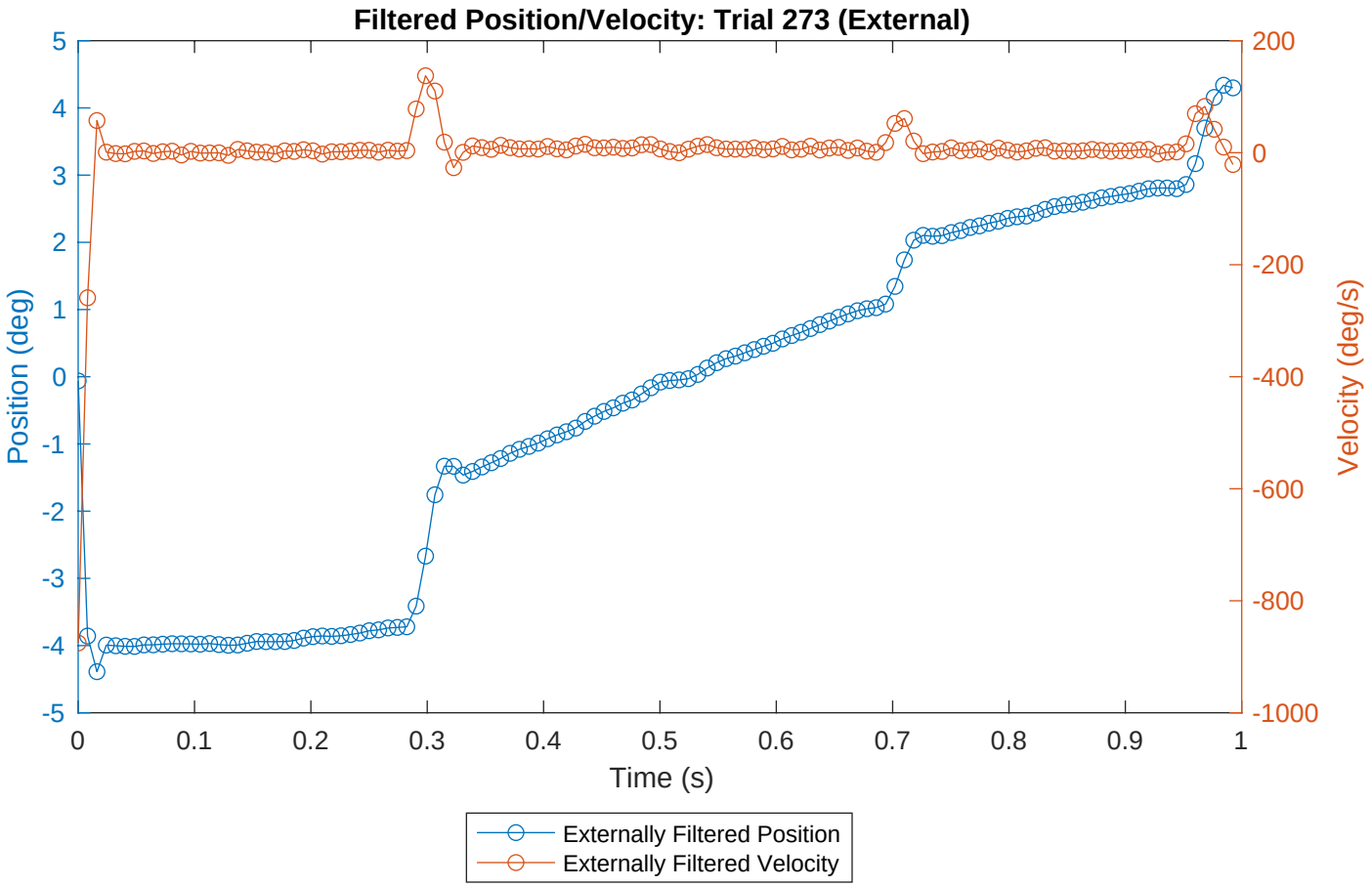

Position (deg)
Time (s)

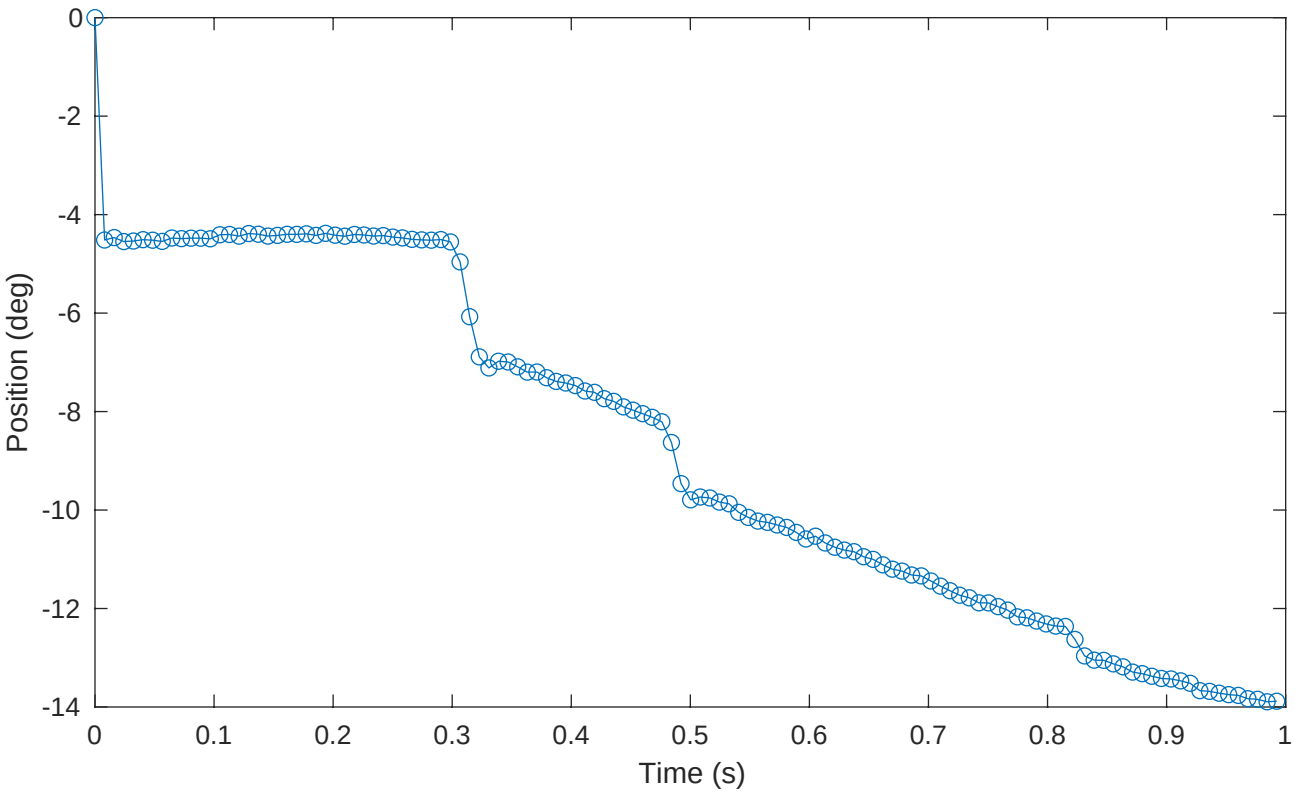

Filtered Position/Velocity: Trial 271 (External)
Position (deg)
Velocity (deg/s)
Time (s)
Externally Filtered Position
Externally Filtered Velocity

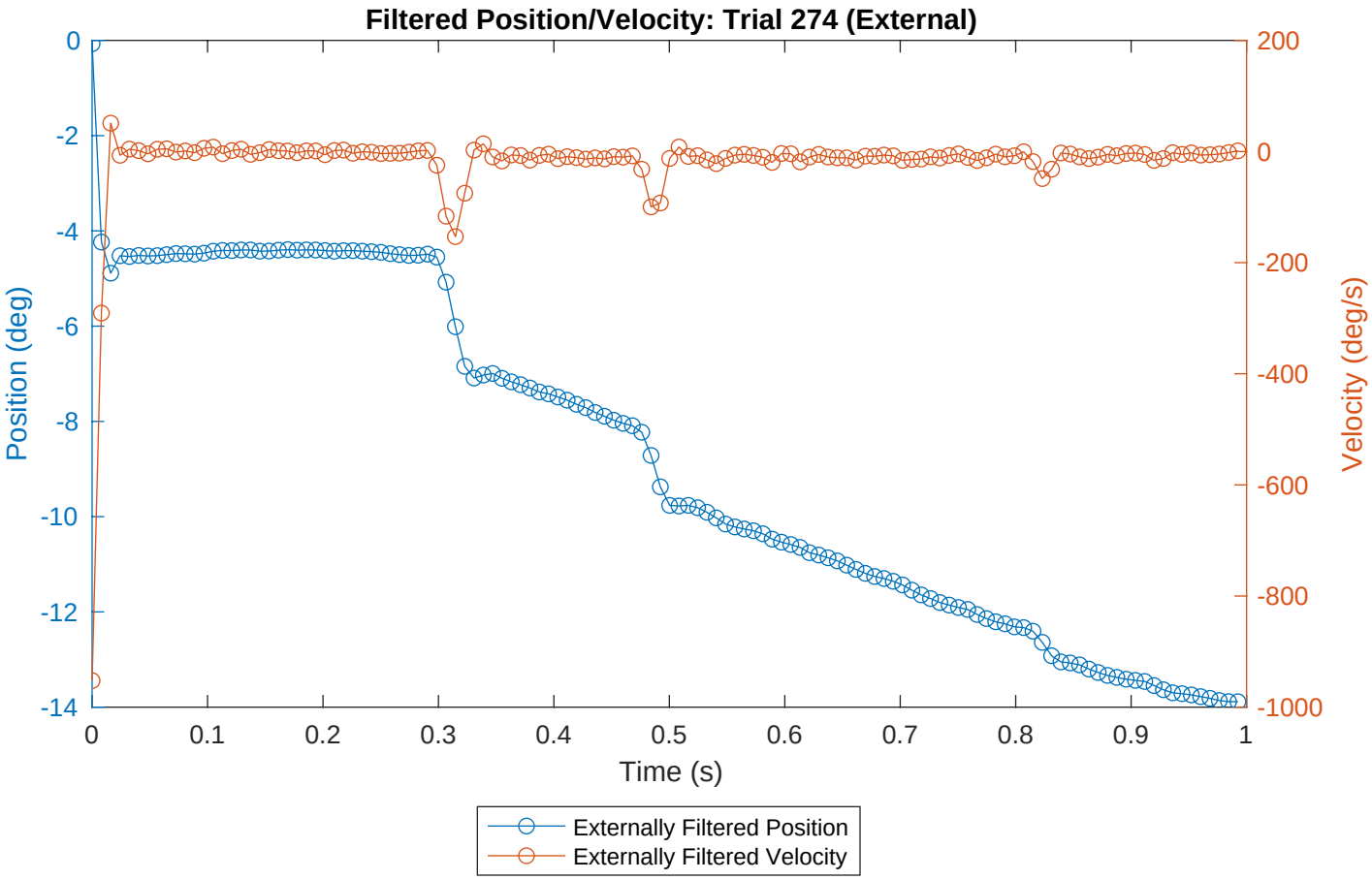

Position (deg)
Time (s)
0
-2
-4
-6
-8
-10
-12
-14
0
0.1
0.2
0.3
0.4
0.5
0.6
0.7
0.8
0.9
1

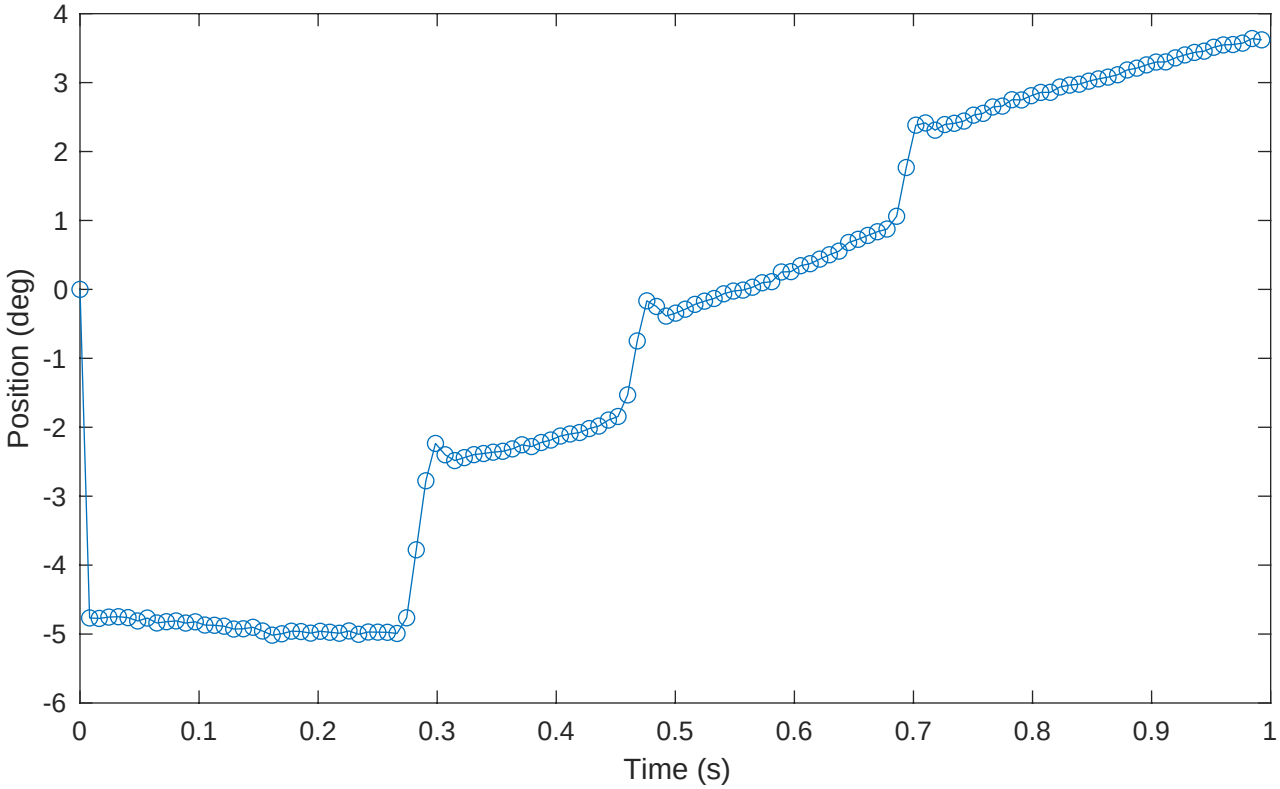

Filtered Position/Velocity: Trial 272 (External)
Position (deg)
Velocity (deg/s)
Time (s)
0
-2
-4
-6
-8
-10
-12
-14
200
0
-200
-400
-600
-800
-1000
0
0.1
0.2
0.3
0.4
0.5
0.6
0.7
0.8
0.9
1
Externally Filtered Position
Externally Filtered Velocity

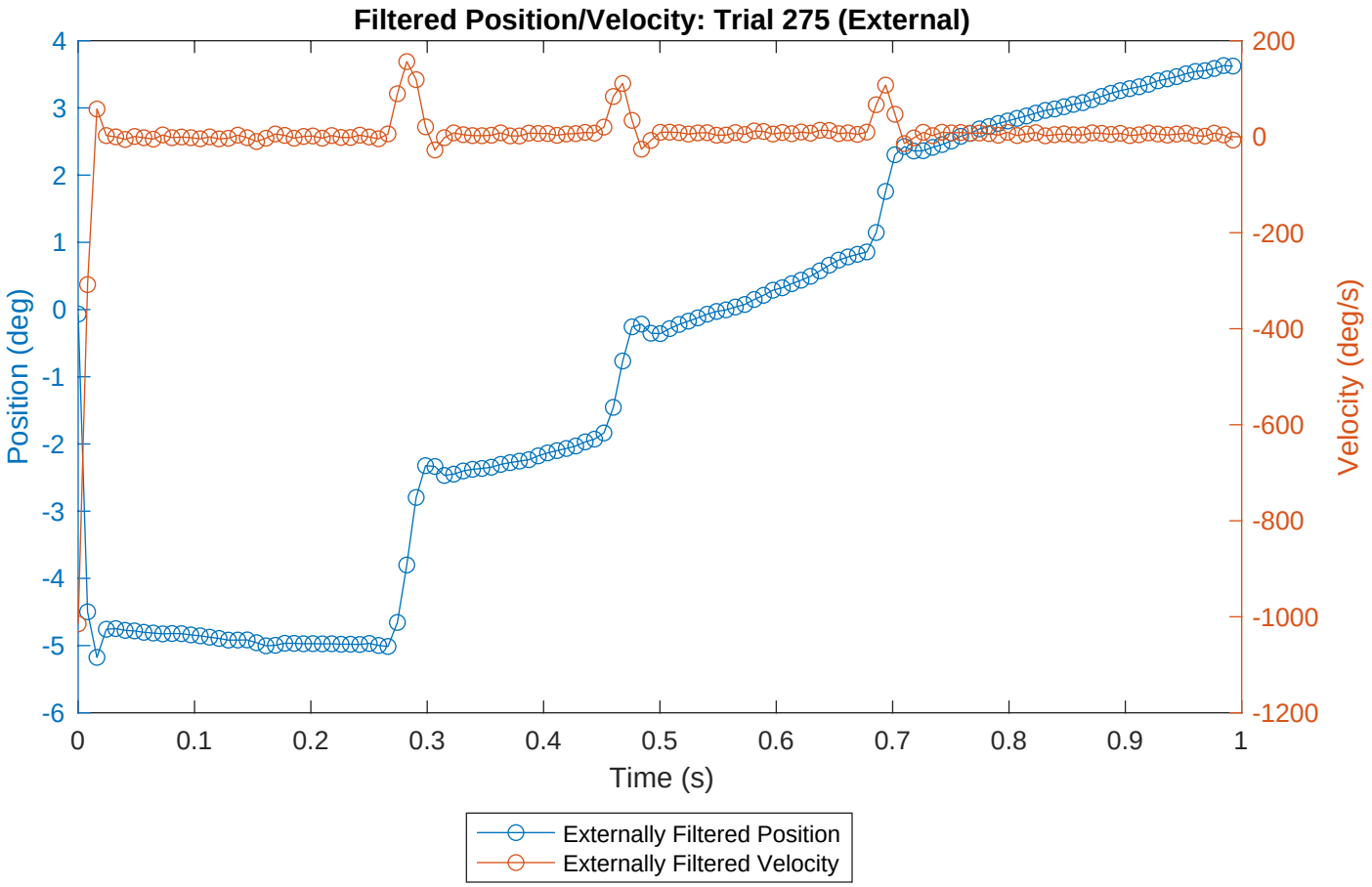

Position (deg)
Time (s)

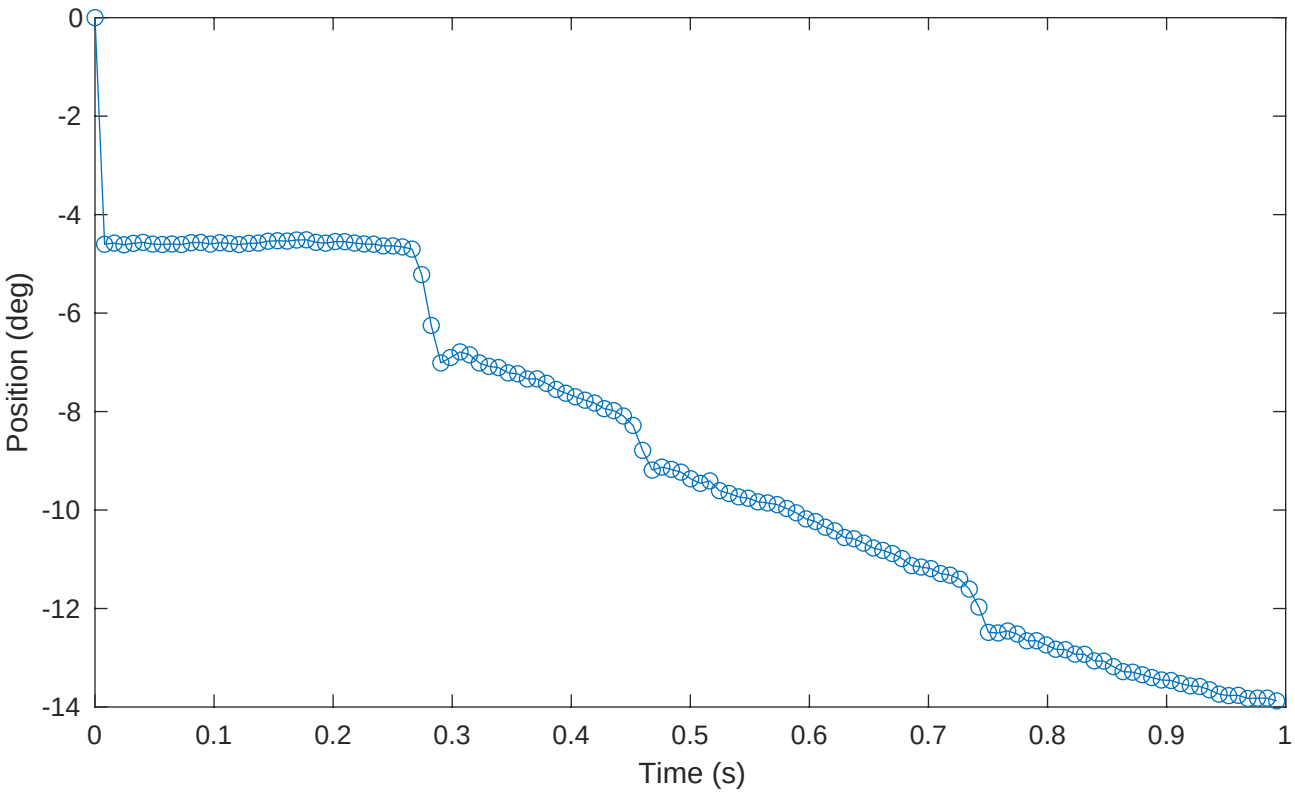

Filtered Position/Velocity: Trial 273 (External)
Position (deg)
Velocity (deg/s)
Time (s)
Externally Filtered Position
Externally Filtered Velocity

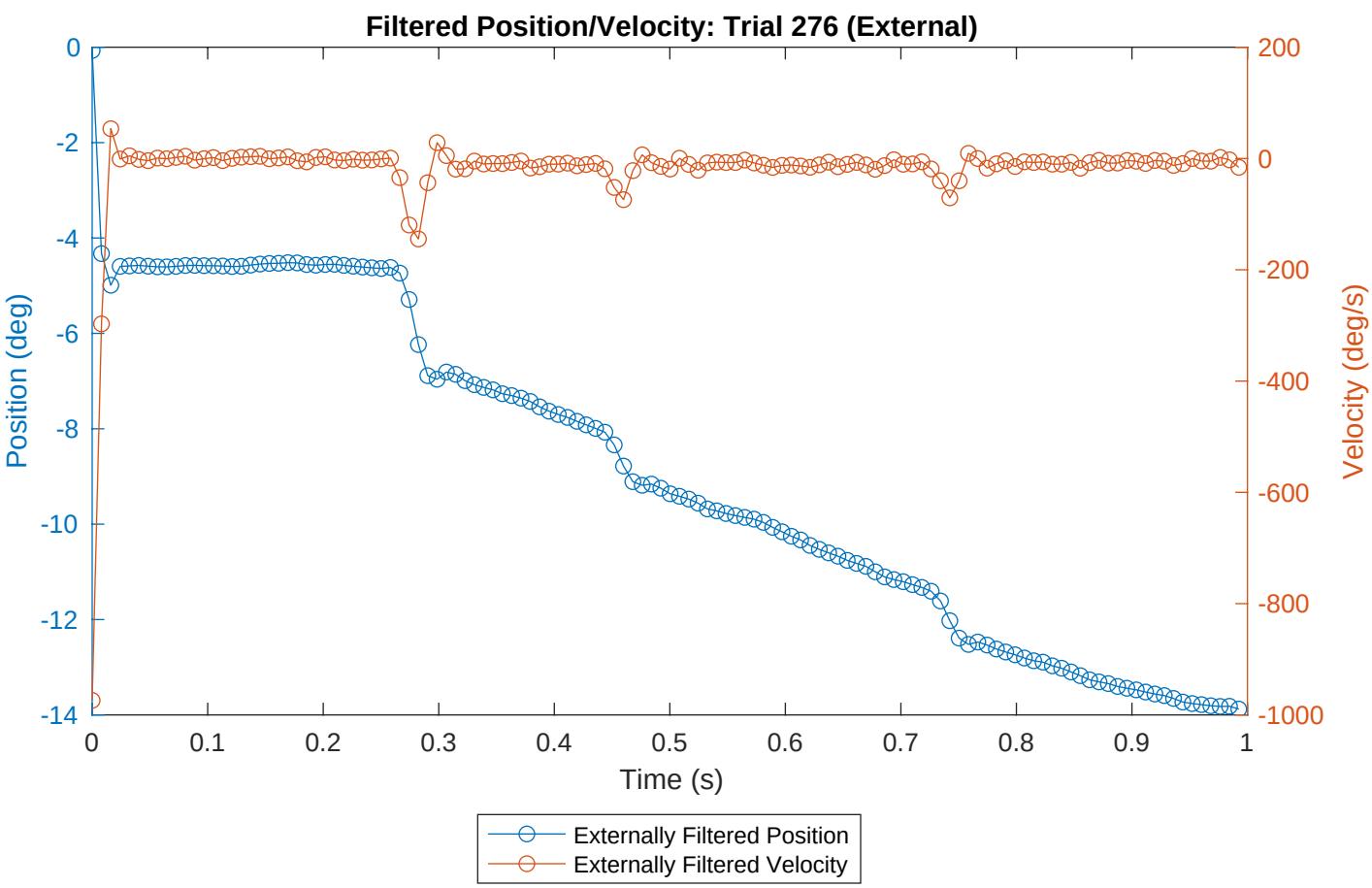

Position (deg)
Time (s)

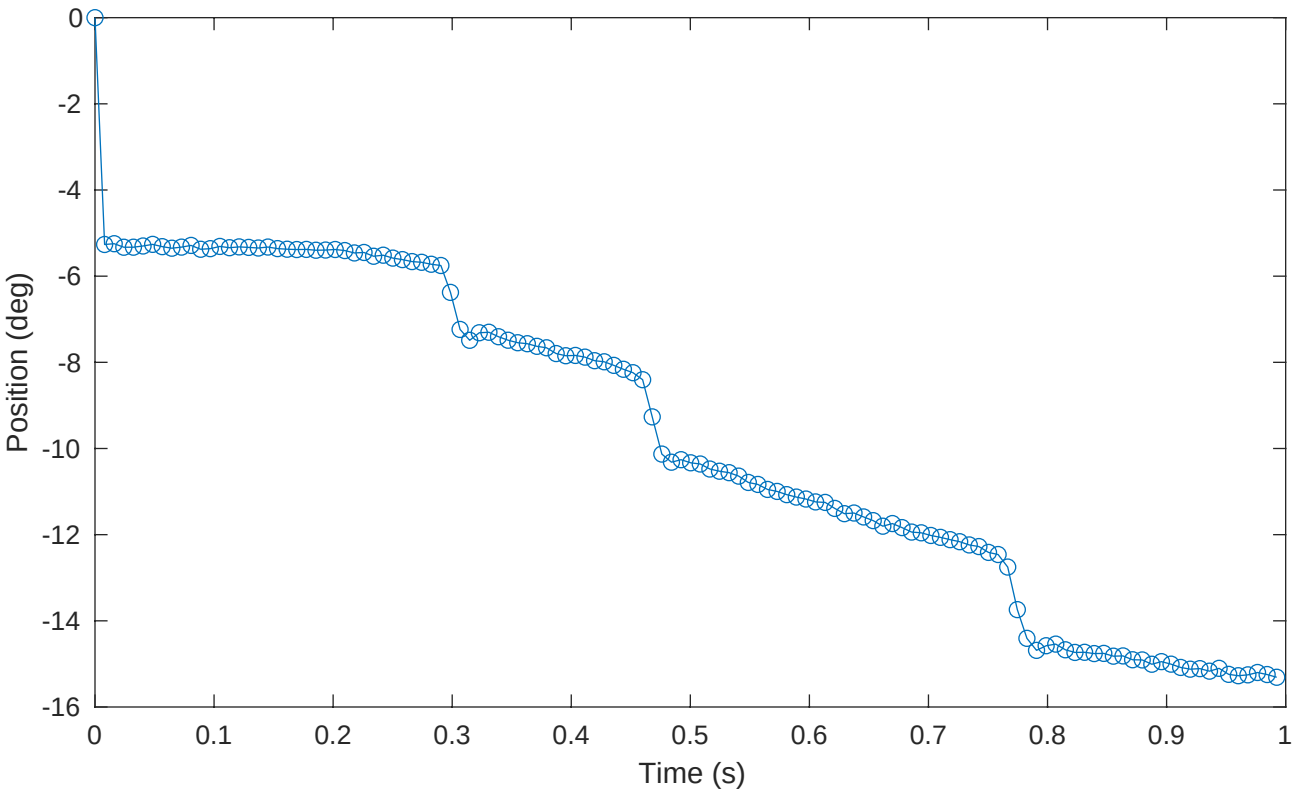

Filtered Position/Velocity: Trial 274 (External)
Position (deg)
Velocity (deg/s)
Time (s)
Externally Filtered Position
Externally Filtered Velocity

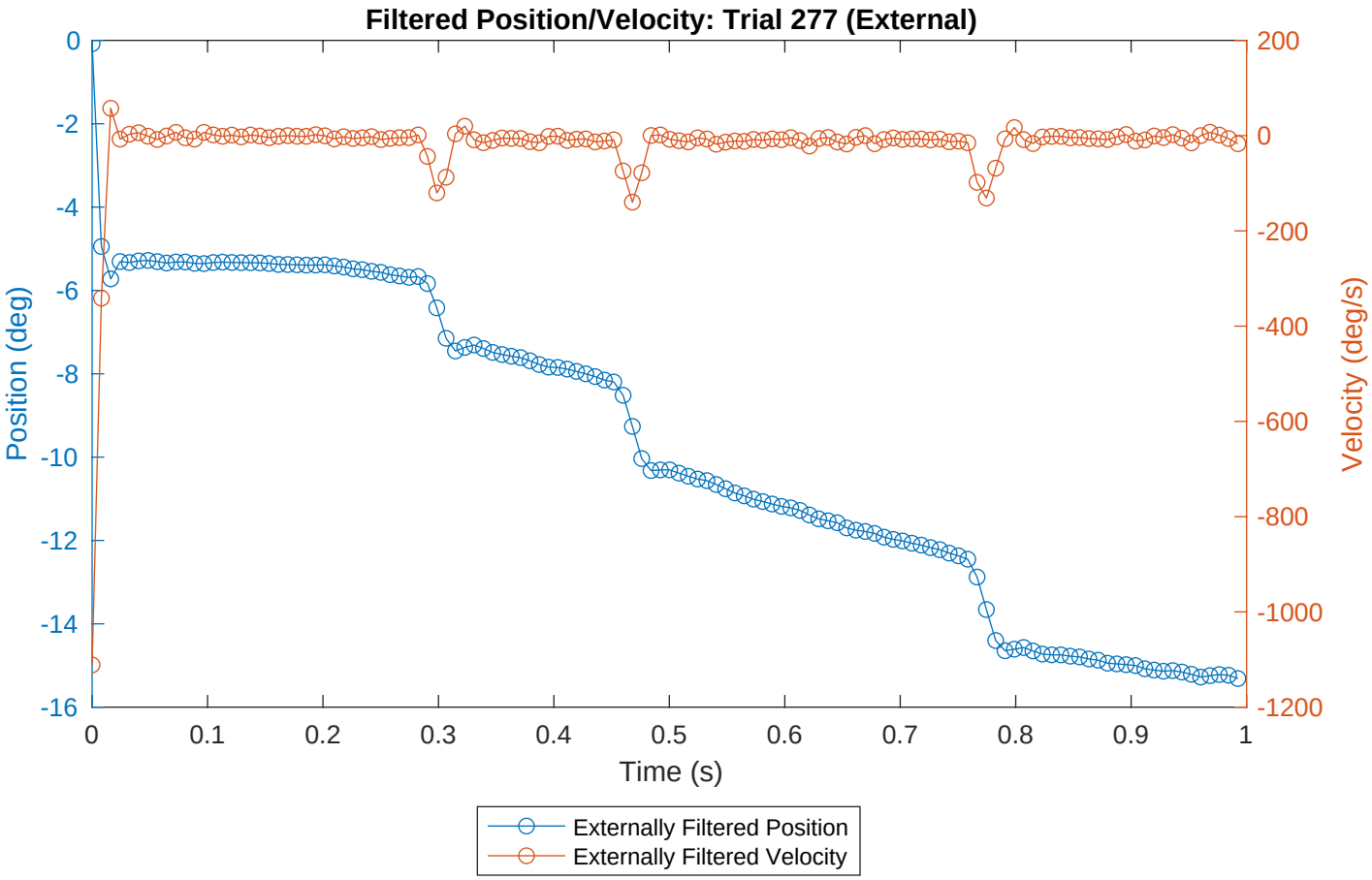

Position (deg)
Time (s)

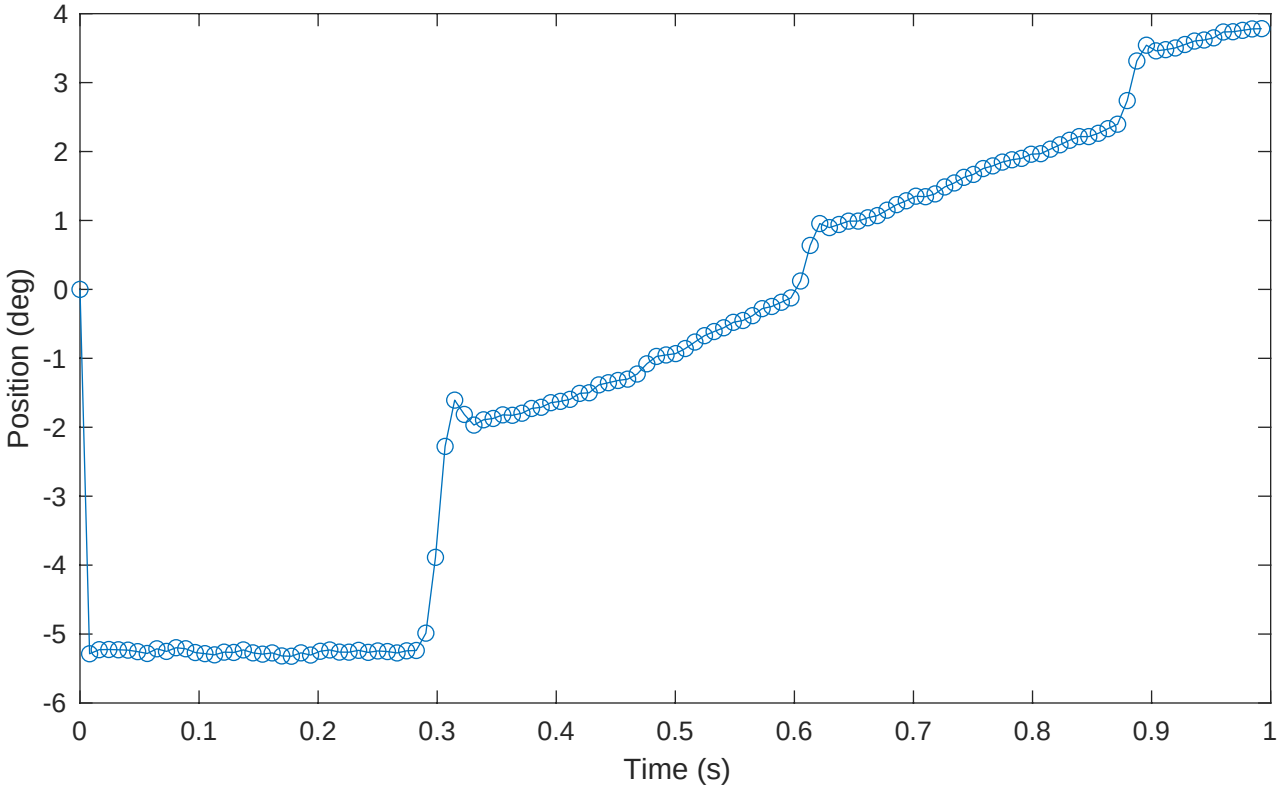

Filtered Position/Velocity: Trial 275 (External)
Position (deg)
Velocity (deg/s)
Time (s)
Externally Filtered Position
Externally Filtered Velocity

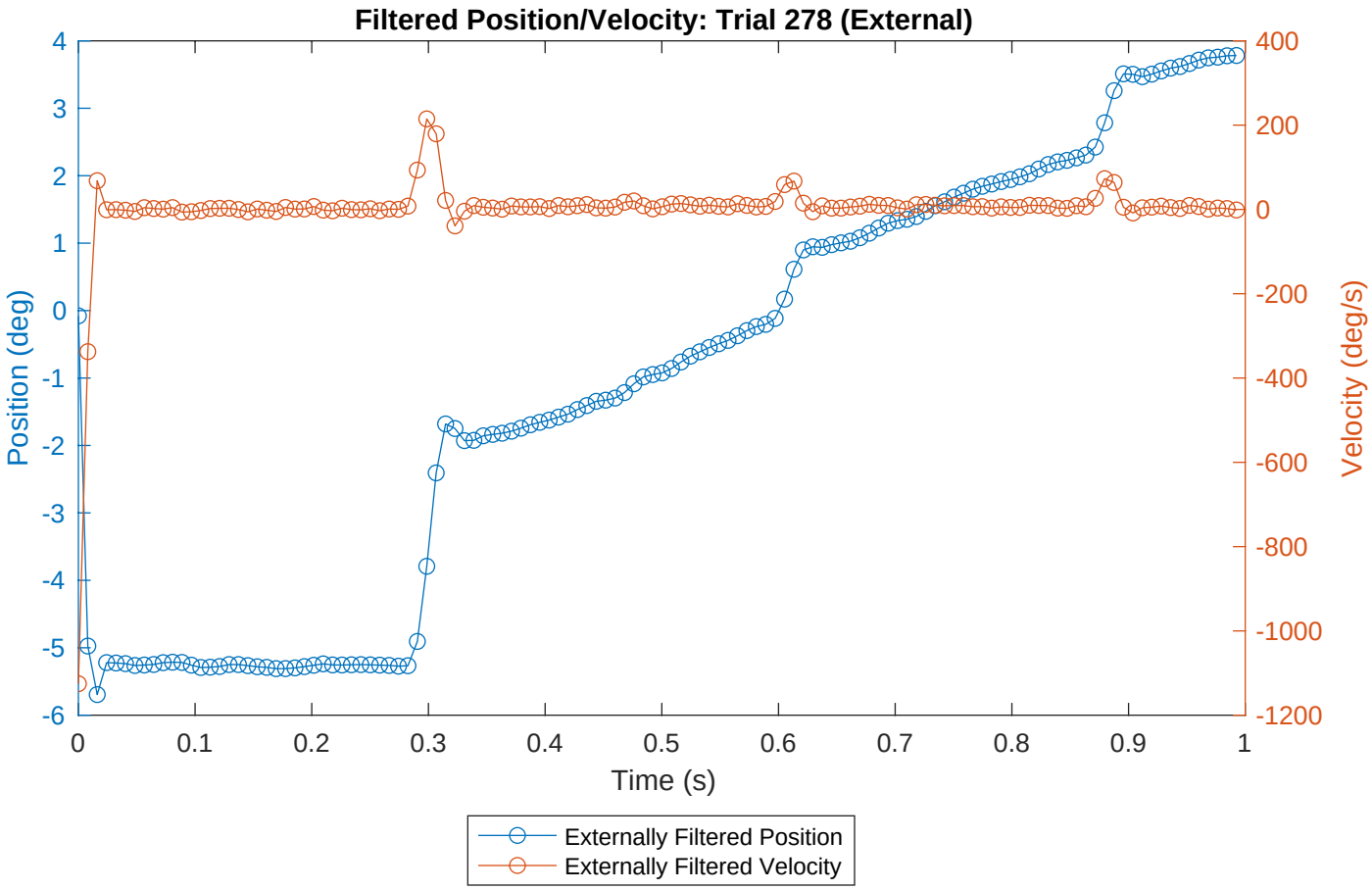

Position (deg)
Time (s)
0
-2
-4
-6
-8
-10
-12
-14
0
0.1
0.2
0.3
0.4
0.5
0.6
0.7
0.8
0.9
1

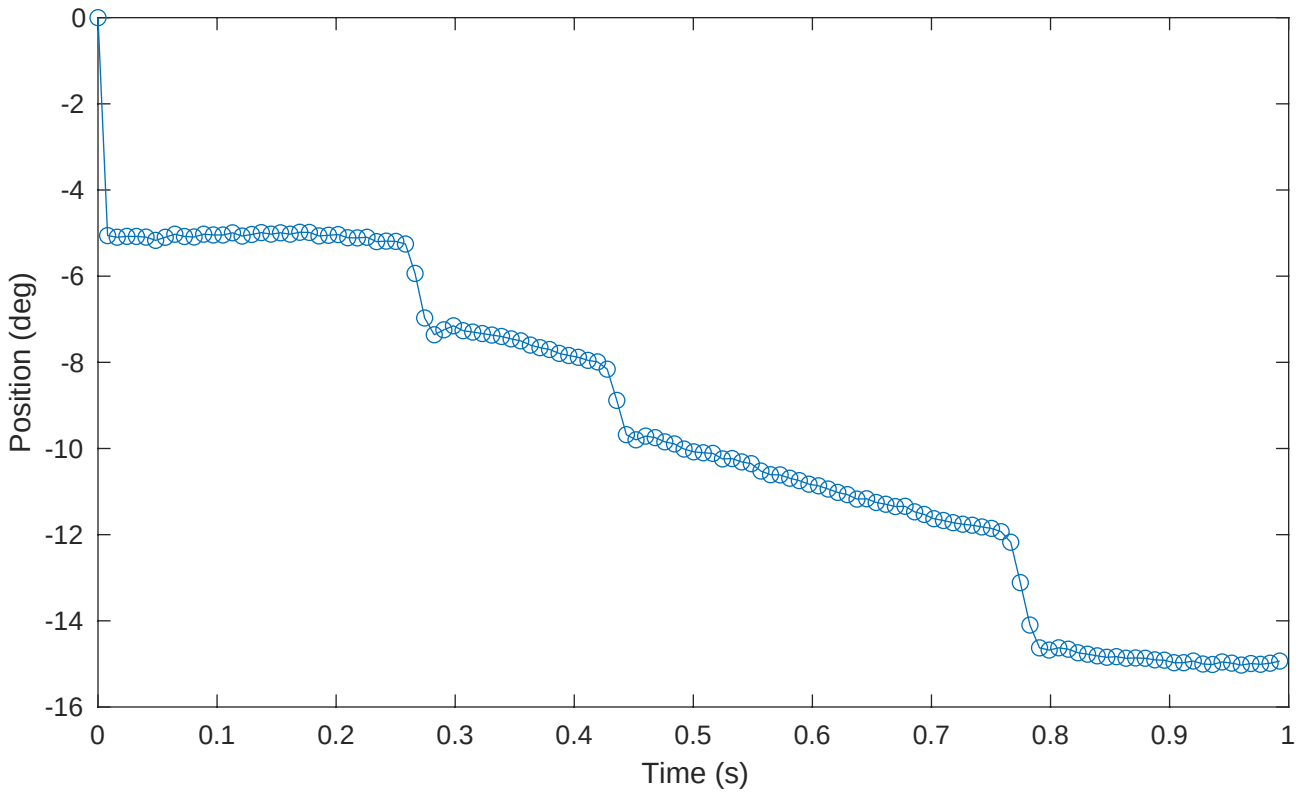

Filtered Position/Velocity: Trial 276 (External)
Position (deg)
Velocity (deg/s)
Time (s)
0
-2
-4
-6
-8
-10
-12
-14
200
0
-200
-400
-600
-800
-1000
0
0.1
0.2
0.3
0.4
0.5
0.6
0.7
0.8
0.9
1
Externally Filtered Position
Externally Filtered Velocity

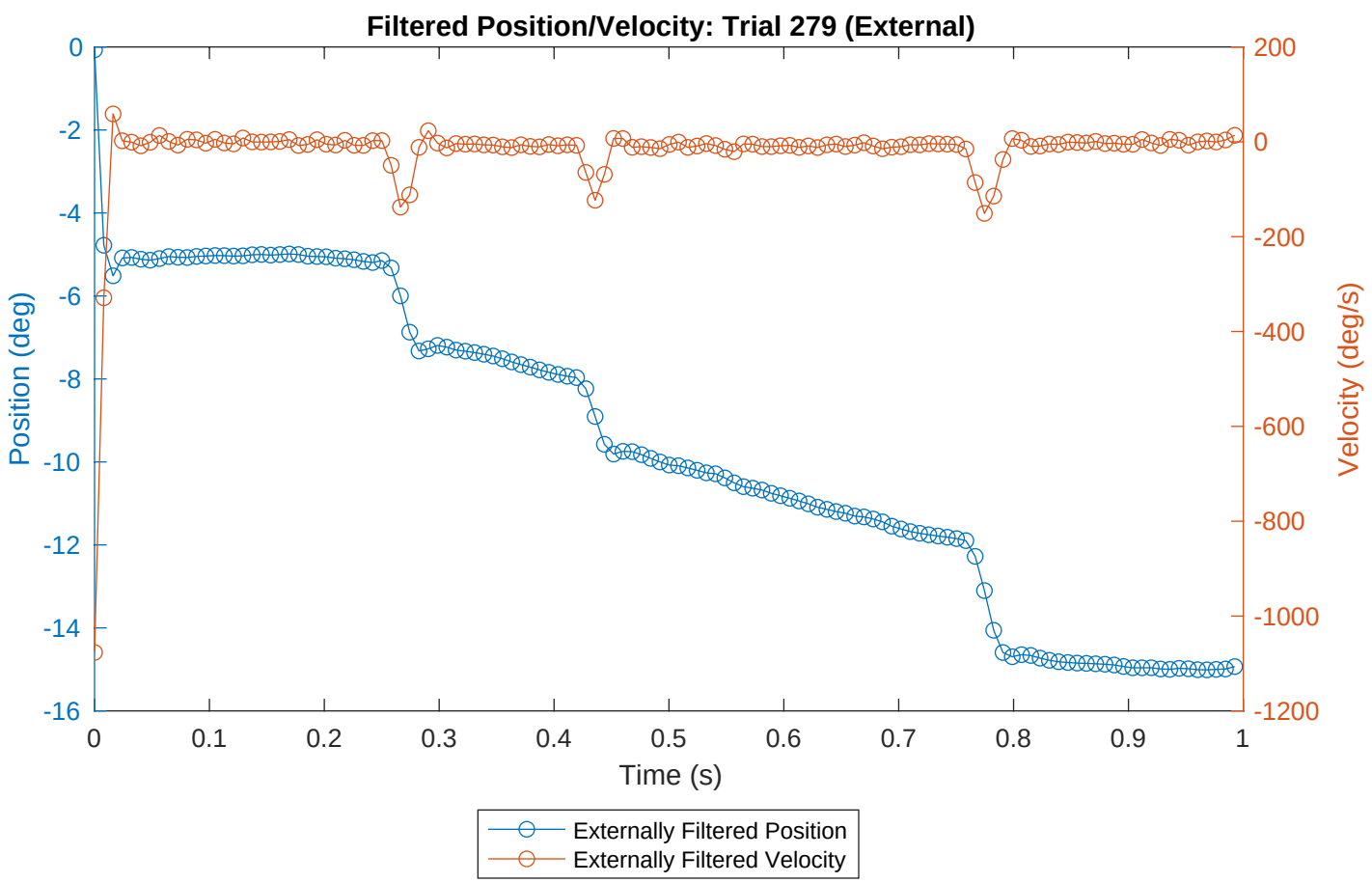

Position (deg)
Time (s)

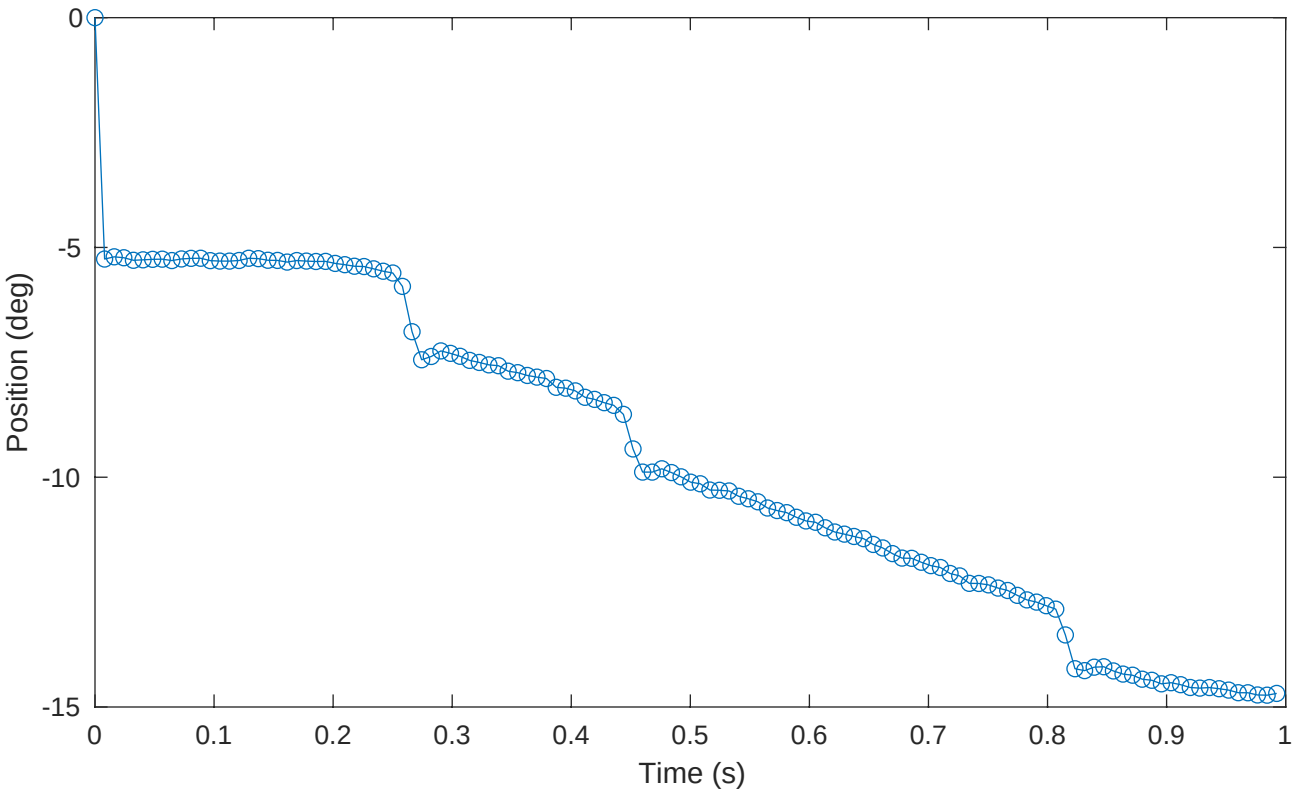

Filtered Position/Velocity: Trial 277 (External)
Position (deg)
Velocity (deg/s)
Time (s)
Externally Filtered Position
Externally Filtered Velocity

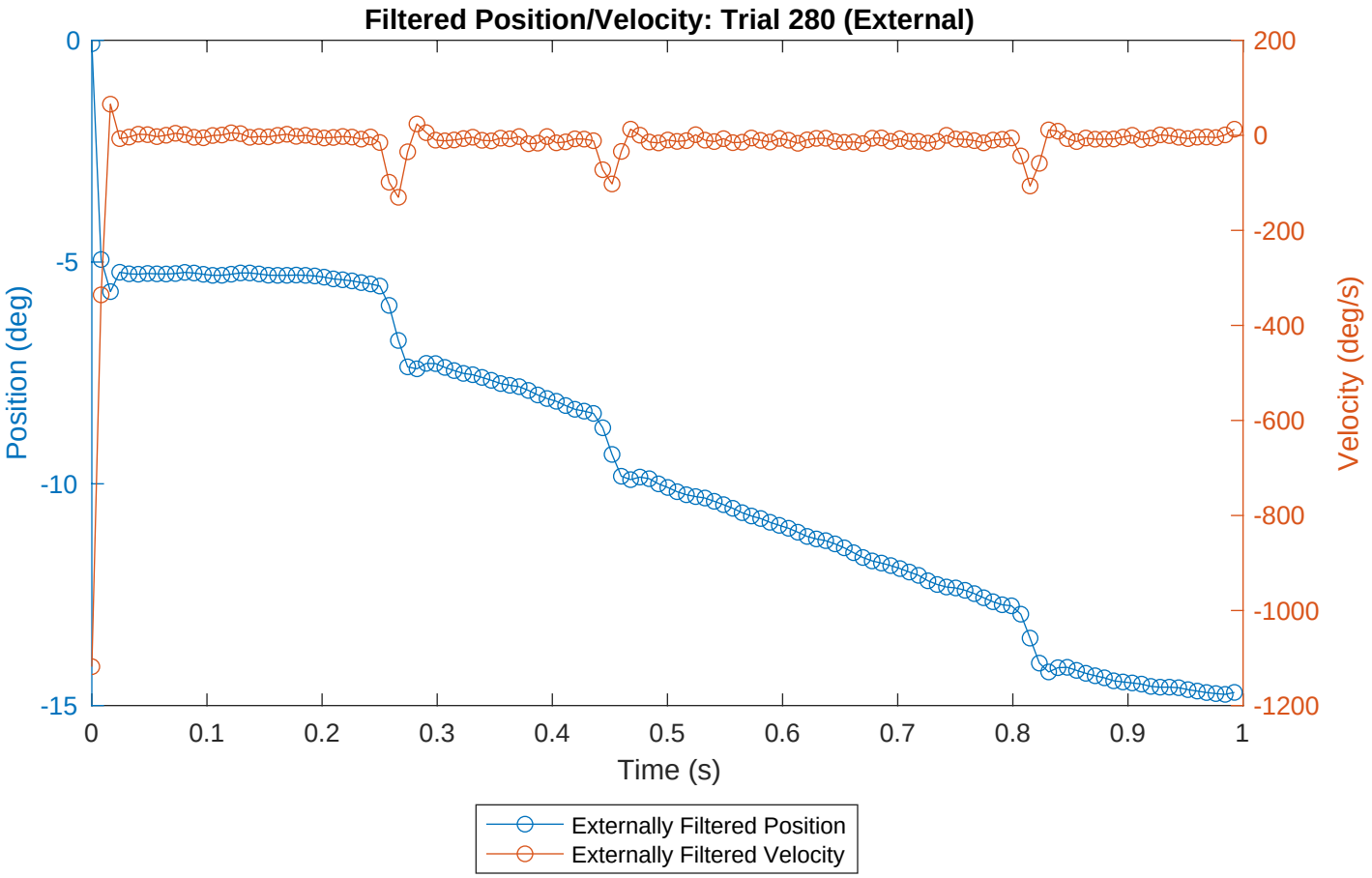

Position (deg)
Time (s)

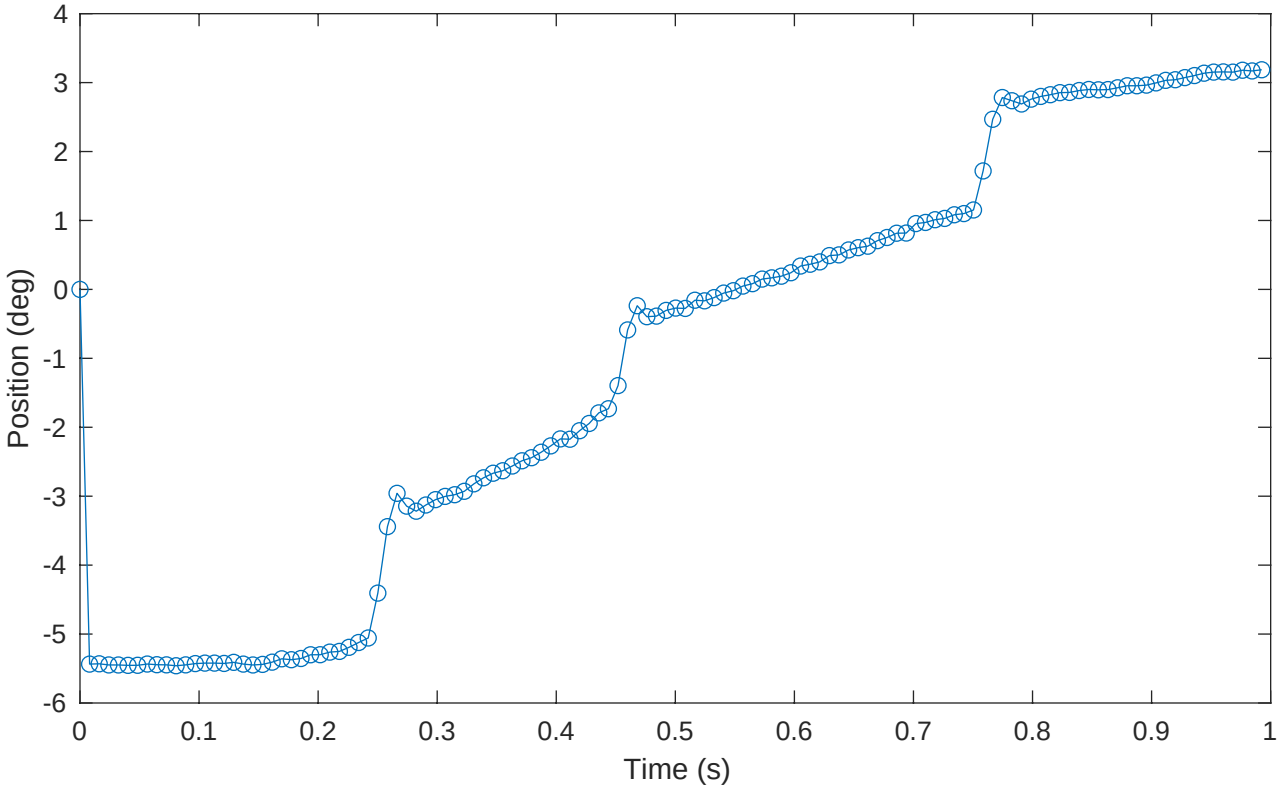

Filtered Position/Velocity: Trial 278 (External)
Position (deg)
Velocity (deg/s)
Time (s)
Externally Filtered Position
Externally Filtered Velocity

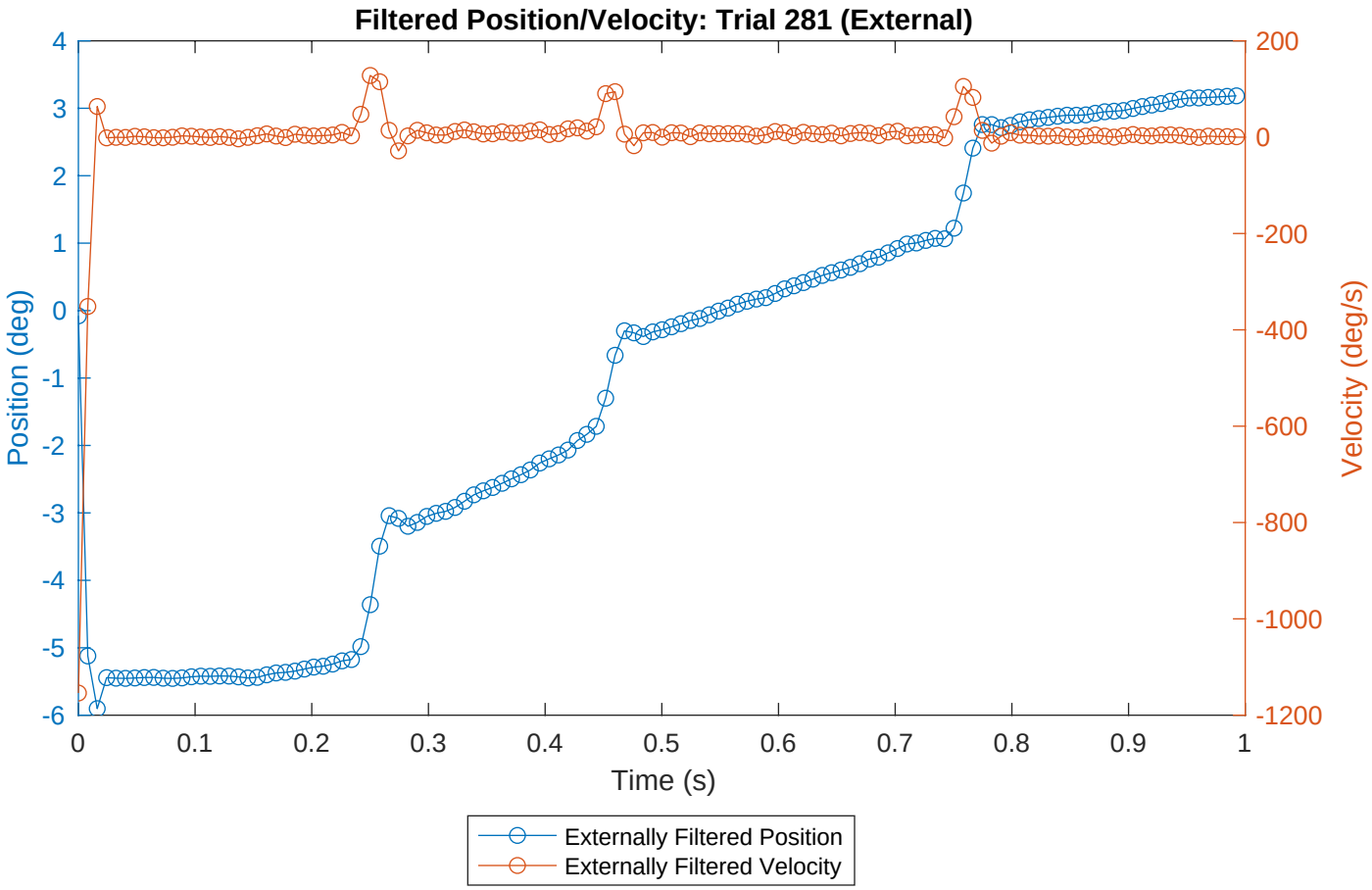

Position (deg)
Time (s)

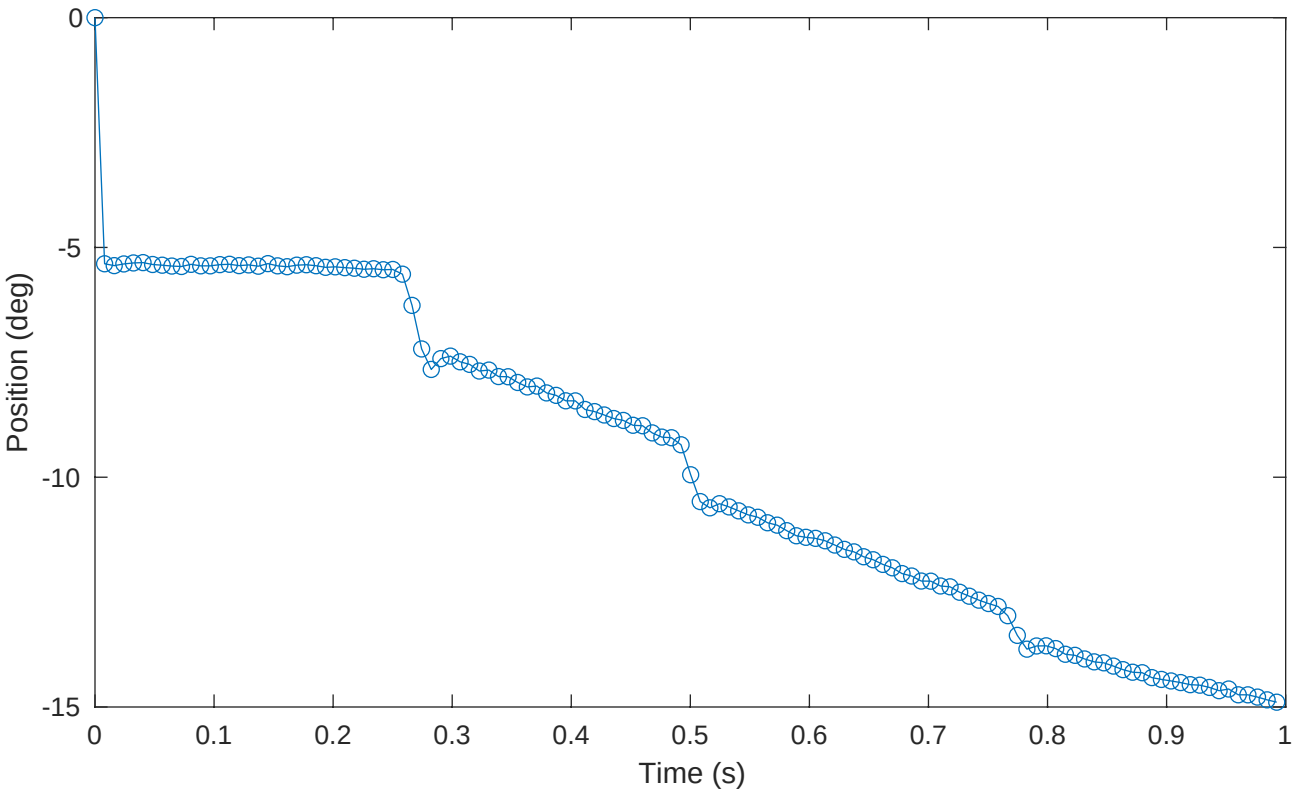

Filtered Position/Velocity: Trial 279 (External)
Position (deg)
Velocity (deg/s)
Time (s)
Externally Filtered Position
Externally Filtered Velocity

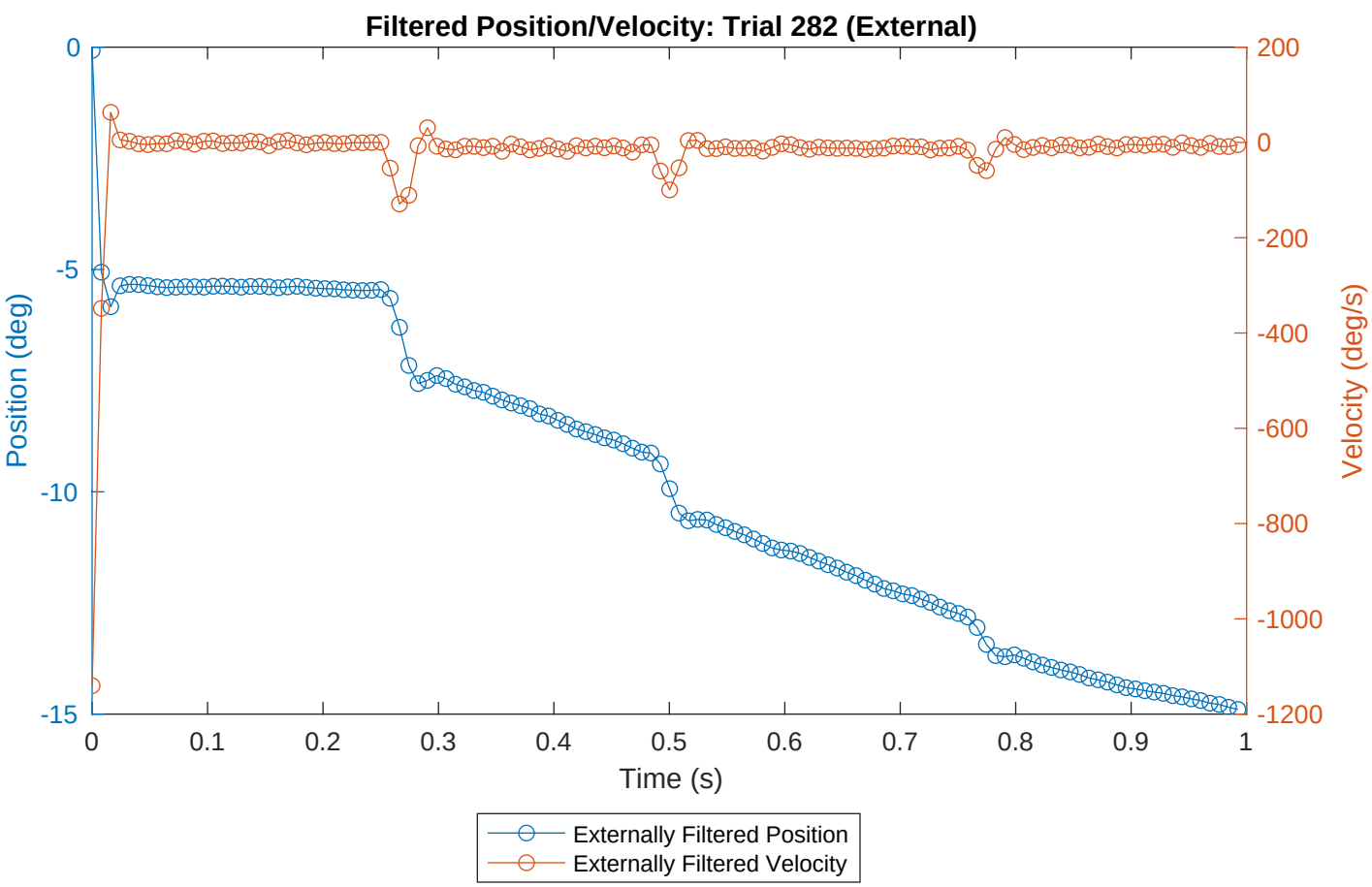

0
-5
-10
-15
Position (deg)
0
0.1
0.2
0.3
0.4
0.5
0.6
0.7
0.8
0.9
1
Time (s)

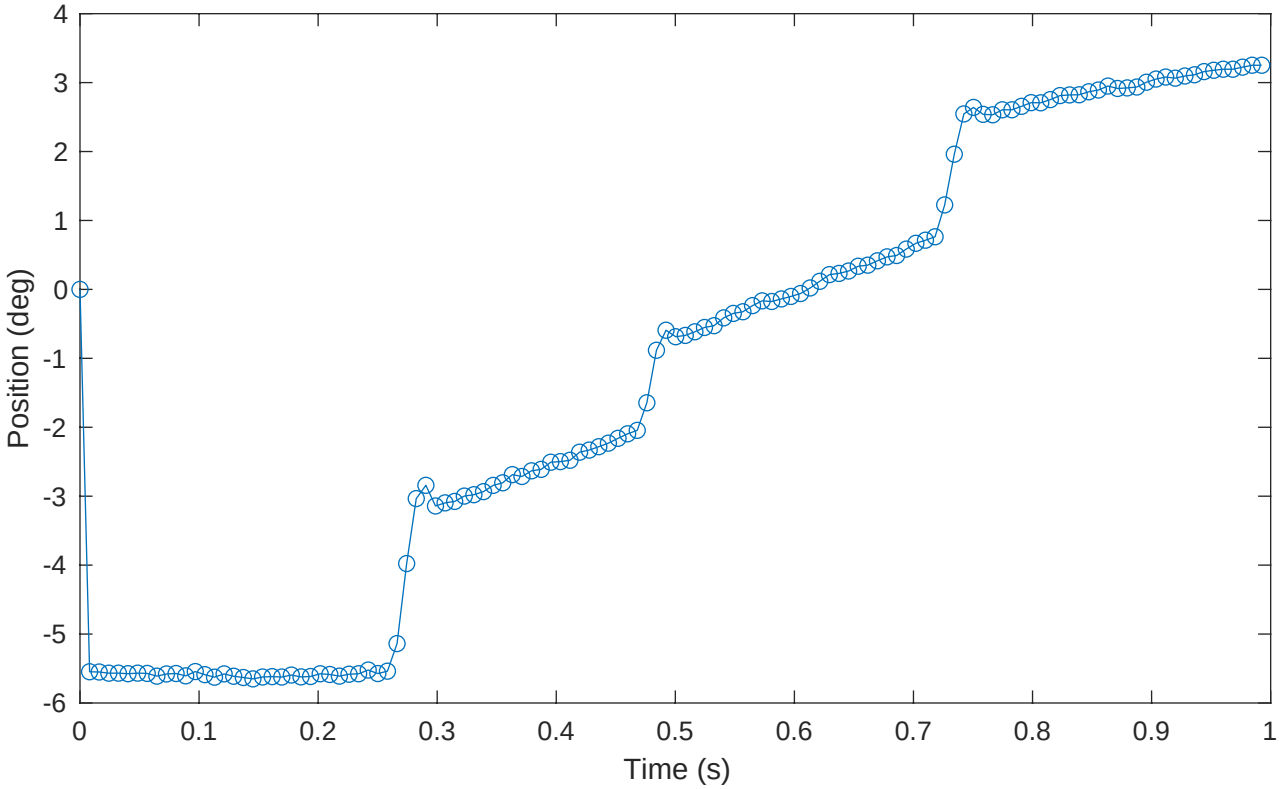

Filtered Position/Velocity: Trial 280 (External)
0
-5
-10
-15
Position (deg)
200
0
-200
-400
-600
-800
-1000
-1200
Velocity (deg/s)
0
0.1
0.2
0.3
0.4
0.5
0.6
0.7
0.8
0.9
1
Time (s)
Externally Filtered Position
Externally Filtered Velocity

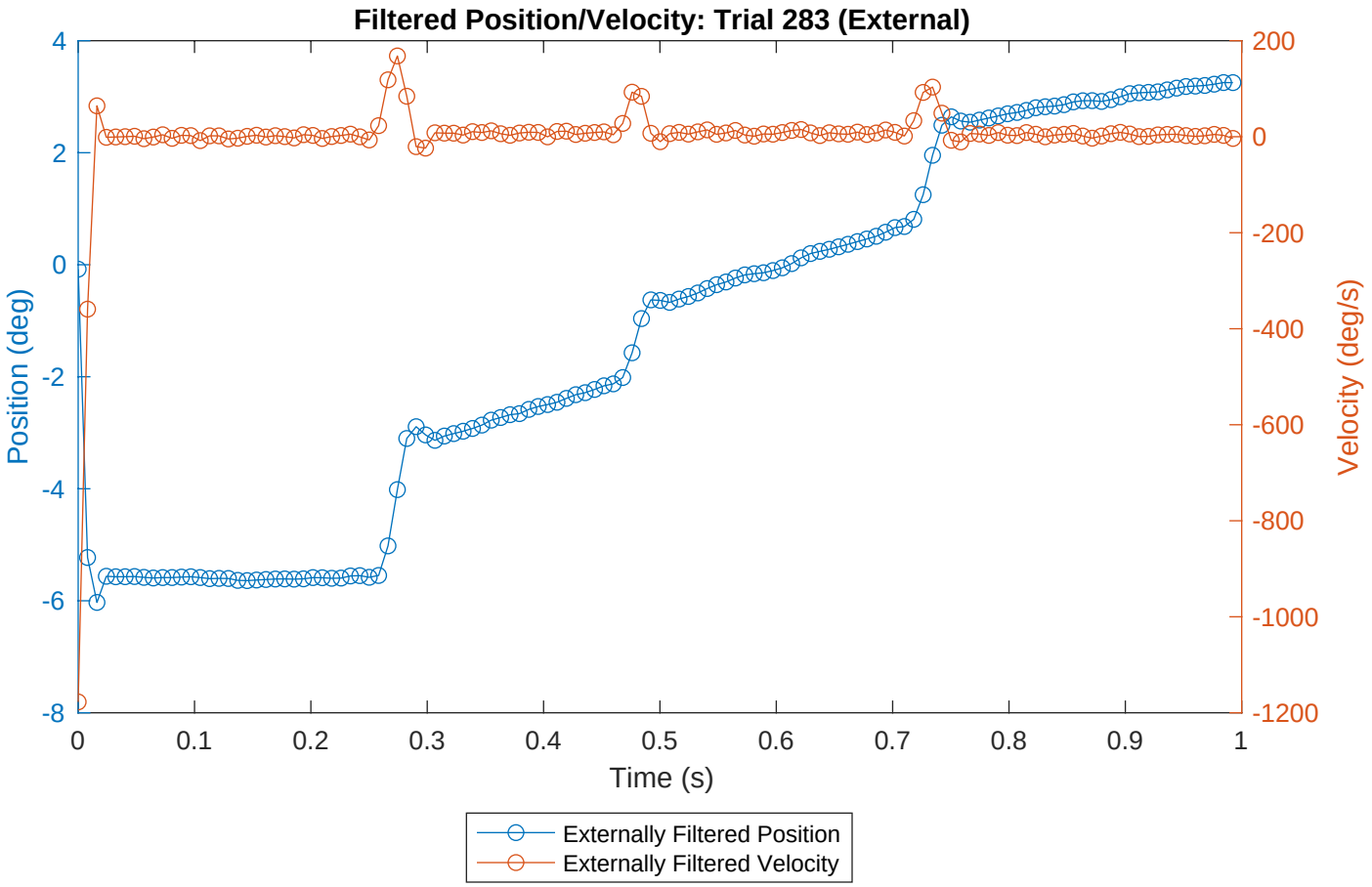

Position (deg)
Time (s)

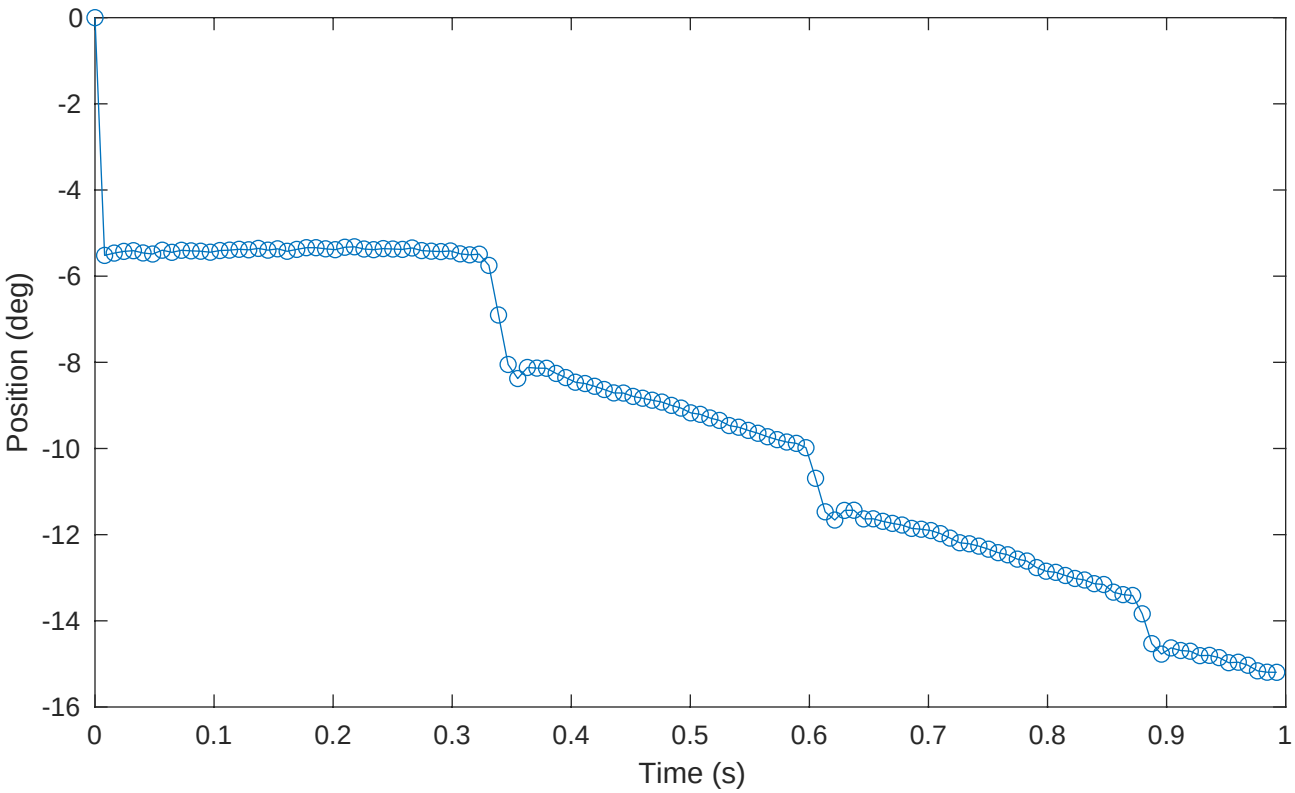

Filtered Position/Velocity: Trial 281 (External)
Position (deg)
Velocity (deg/s)
Time (s)
Externally Filtered Position
Externally Filtered Velocity

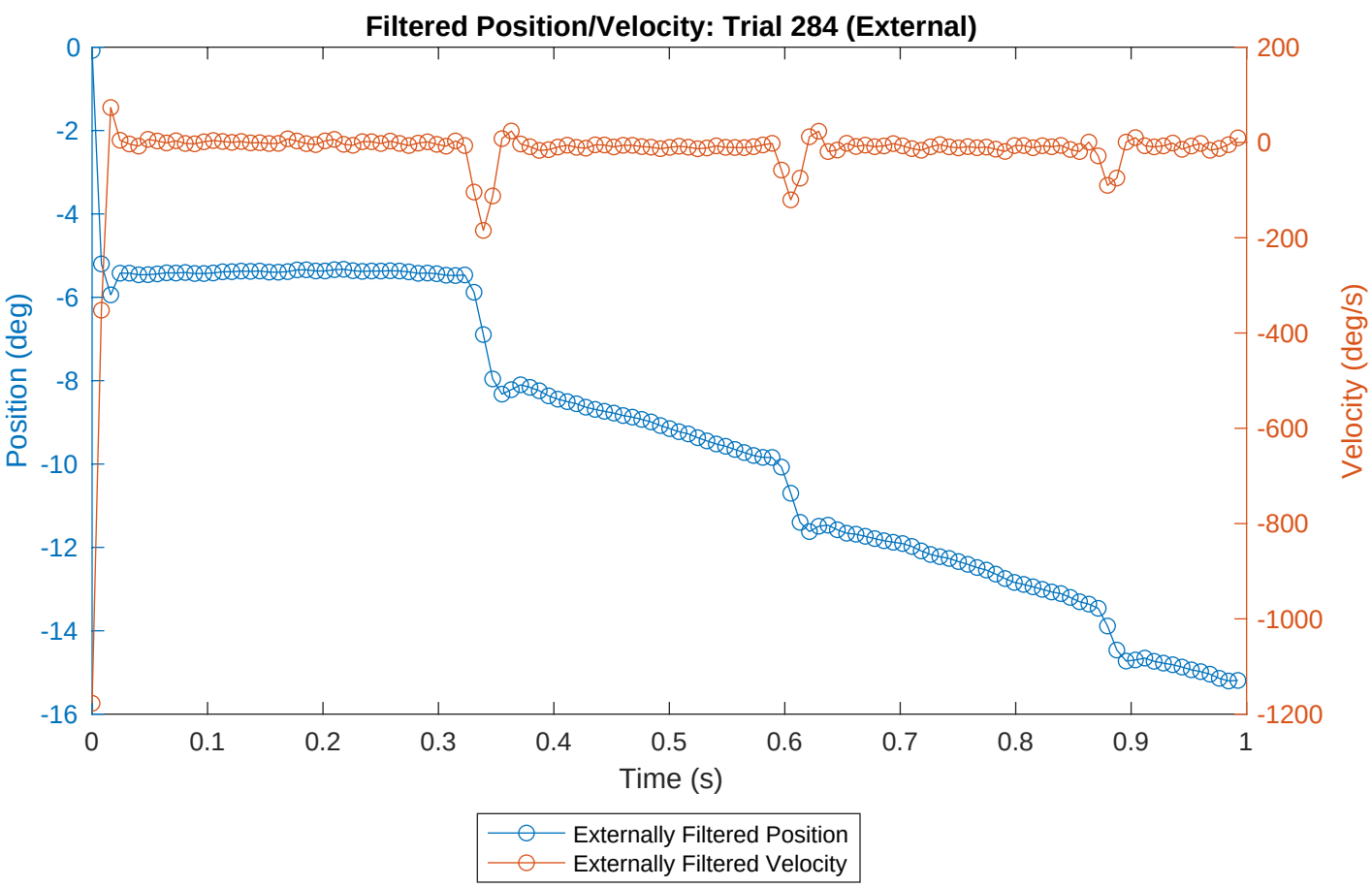

0
-5
-10
-15
Position (deg)
0
0.1
0.2
0.3
0.4
0.5
0.6
0.7
0.8
0.9
1
Time (s)

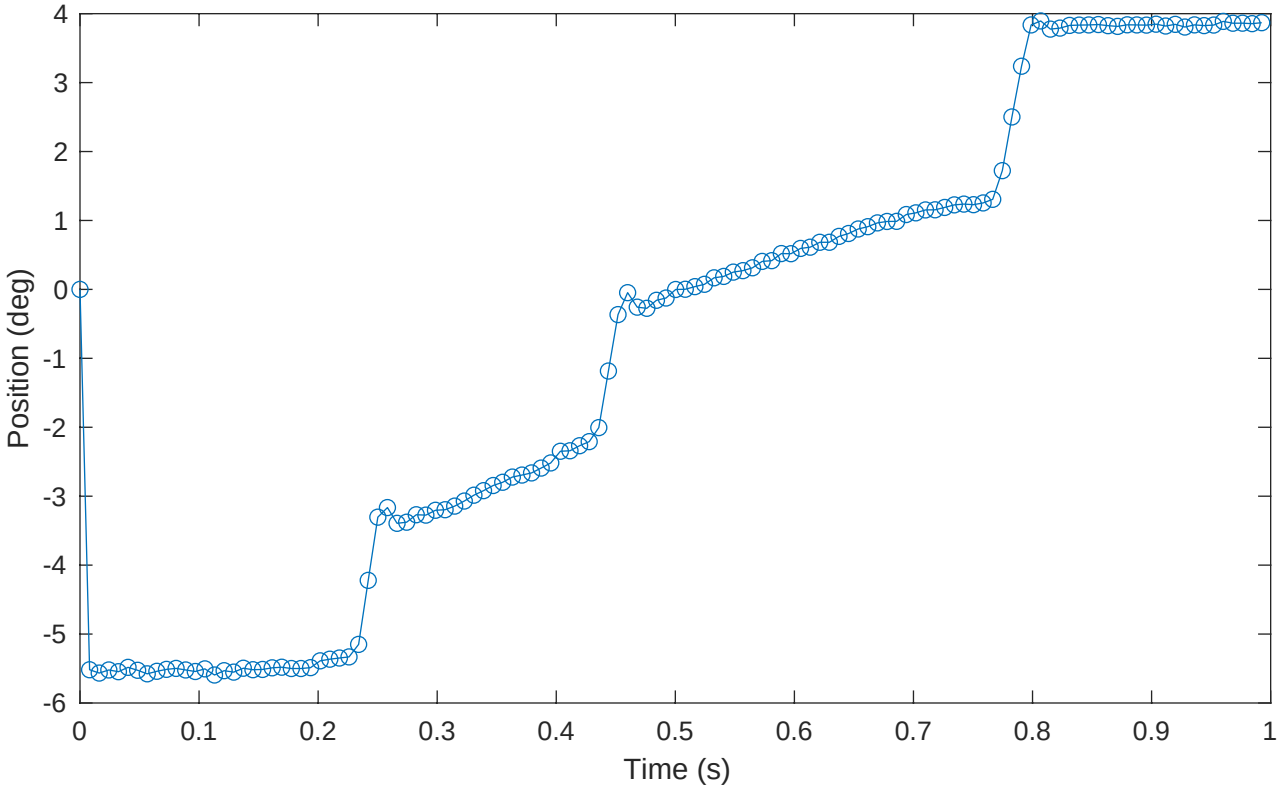

Filtered Position/Velocity: Trial 282 (External)
0
-5
-10
-15
Position (deg)
200
0
-200
-400
-600
-800
-1000
-1200
Velocity (deg/s)
0
0.1
0.2
0.3
0.4
0.5
0.6
0.7
0.8
0.9
1
Time (s)
Externally Filtered Position
Externally Filtered Velocity

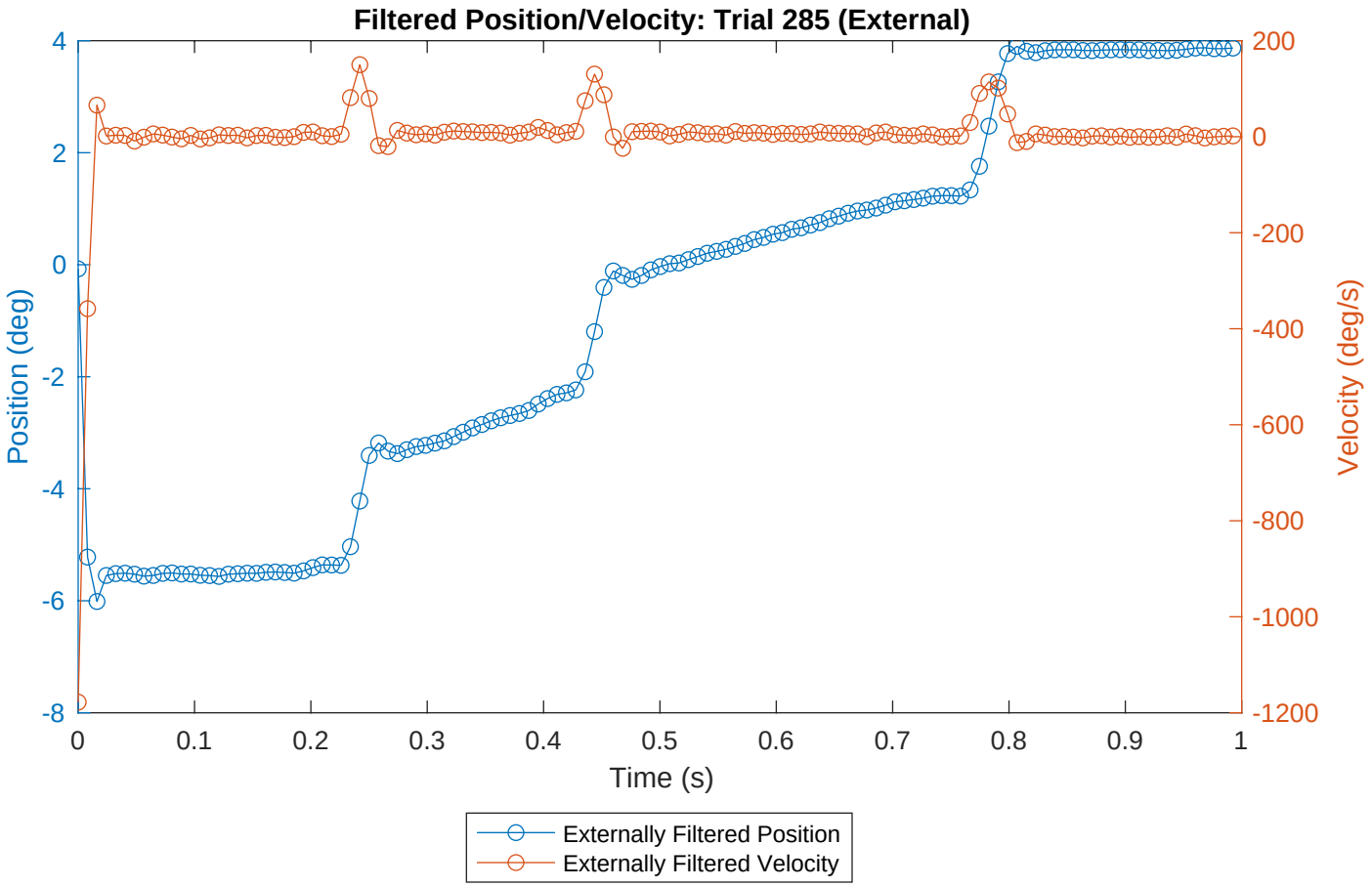

Position (deg)
Time (s)

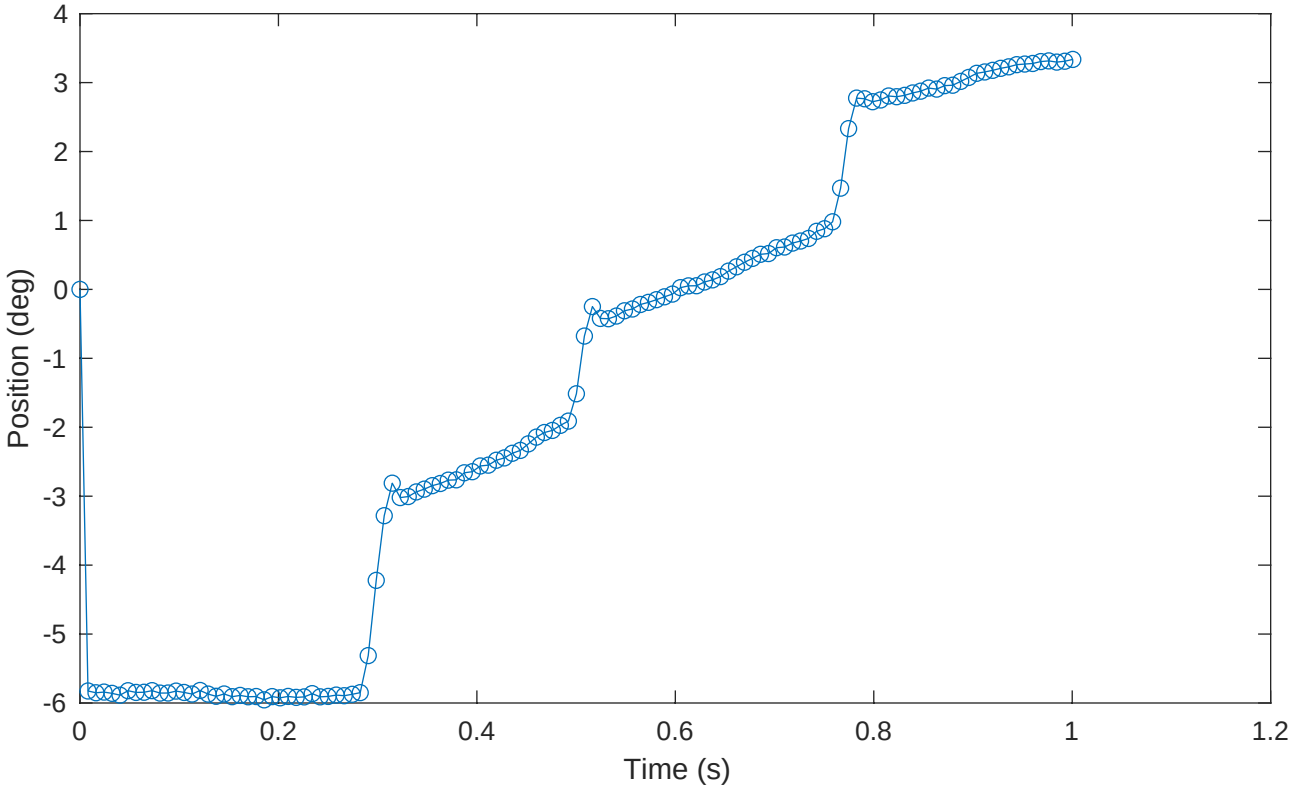

Filtered Position/Velocity: Trial 283 (External)
Position (deg)
Velocity (deg/s)
Time (s)
Externally Filtered Position
Externally Filtered Velocity

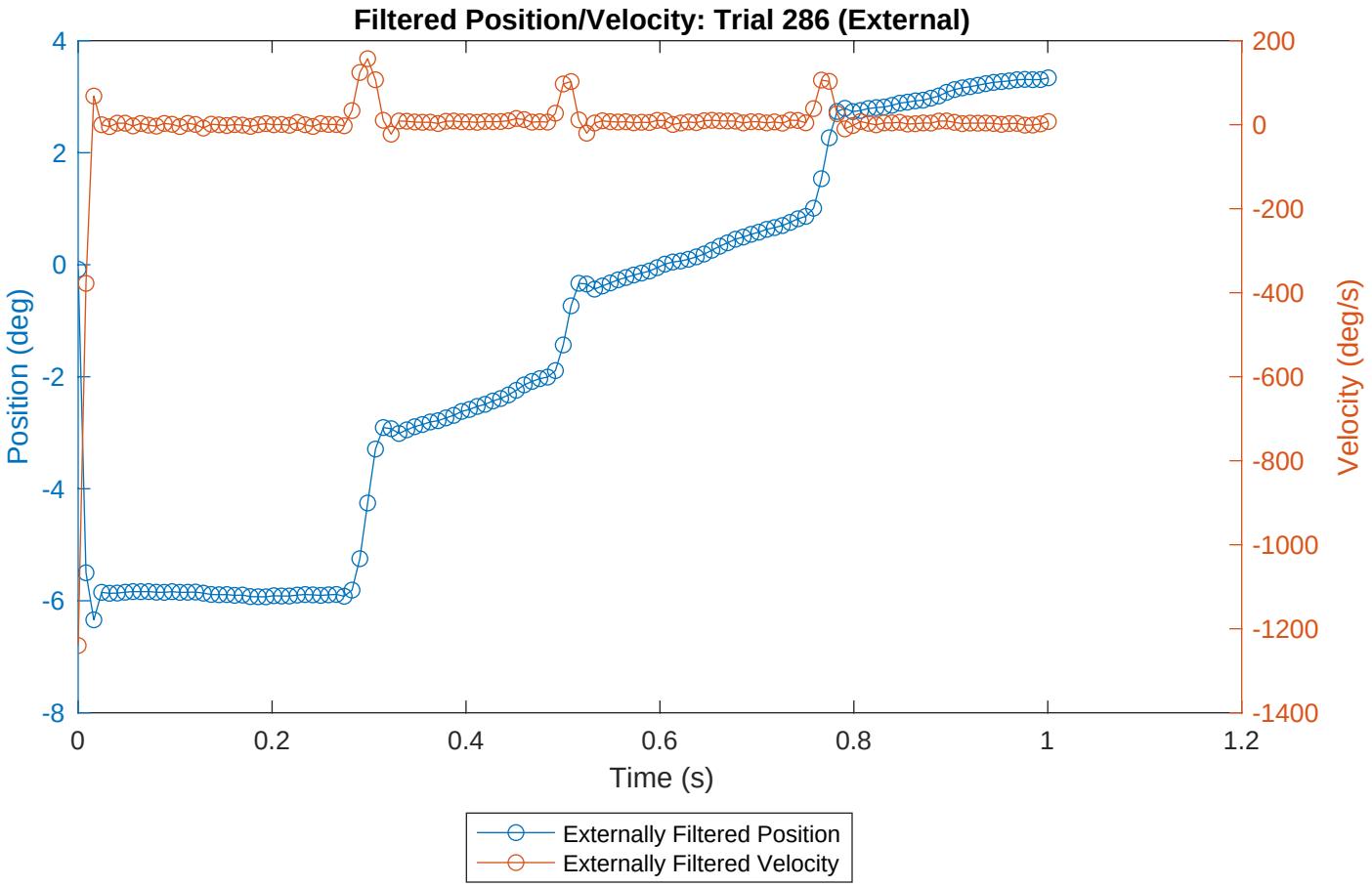

Position (deg)
Time (s)
0
-2
-4
-6
-8
-10
-12
-14
-16
0
0.1
0.2
0.3
0.4
0.5
0.6
0.7
0.8
0.9
1

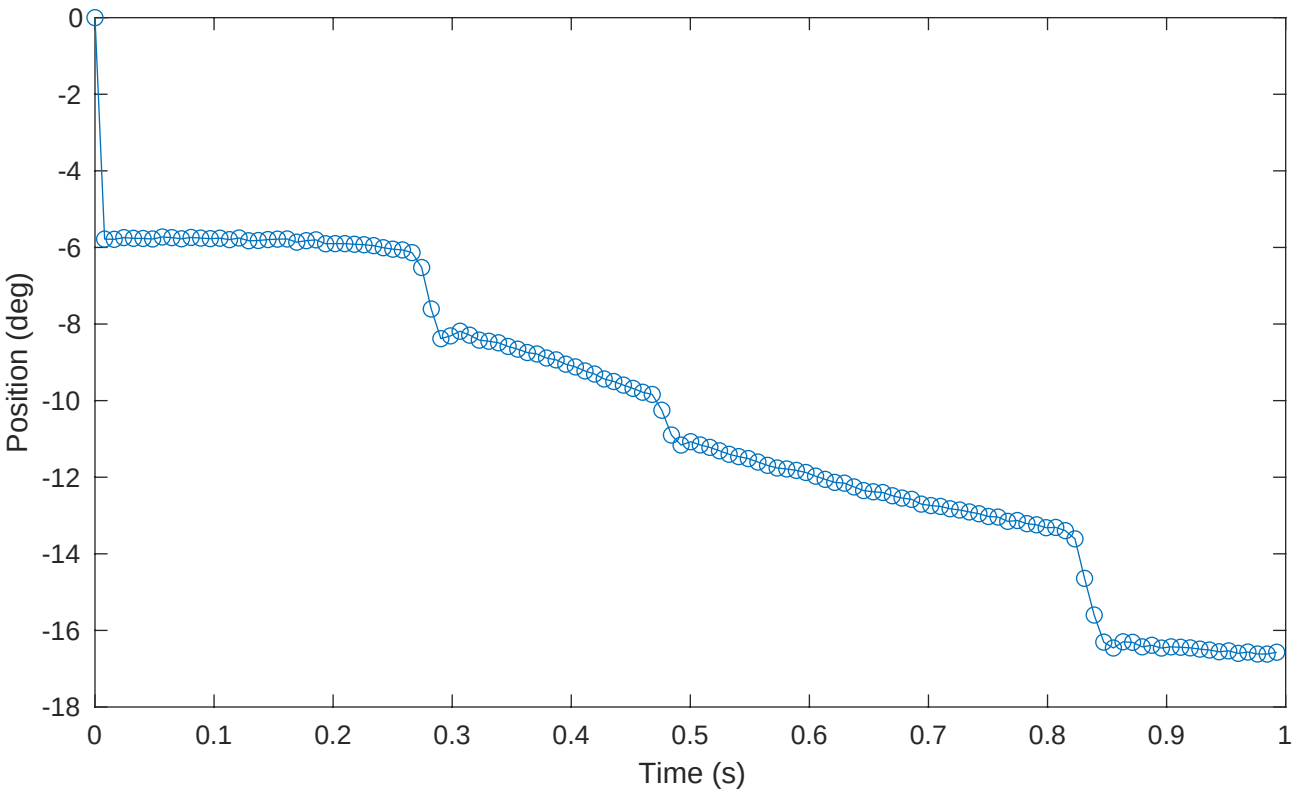

Filtered Position/Velocity: Trial 284 (External)
Position (deg)
Velocity (deg/s)
Time (s)
0
-2
-4
-6
-8
-10
-12
-14
-16
200
0
-200
-400
-600
-800
-1000
-1200
0
0.1
0.2
0.3
0.4
0.5
0.6
0.7
0.8
0.9
1
Externally Filtered Position
Externally Filtered Velocity

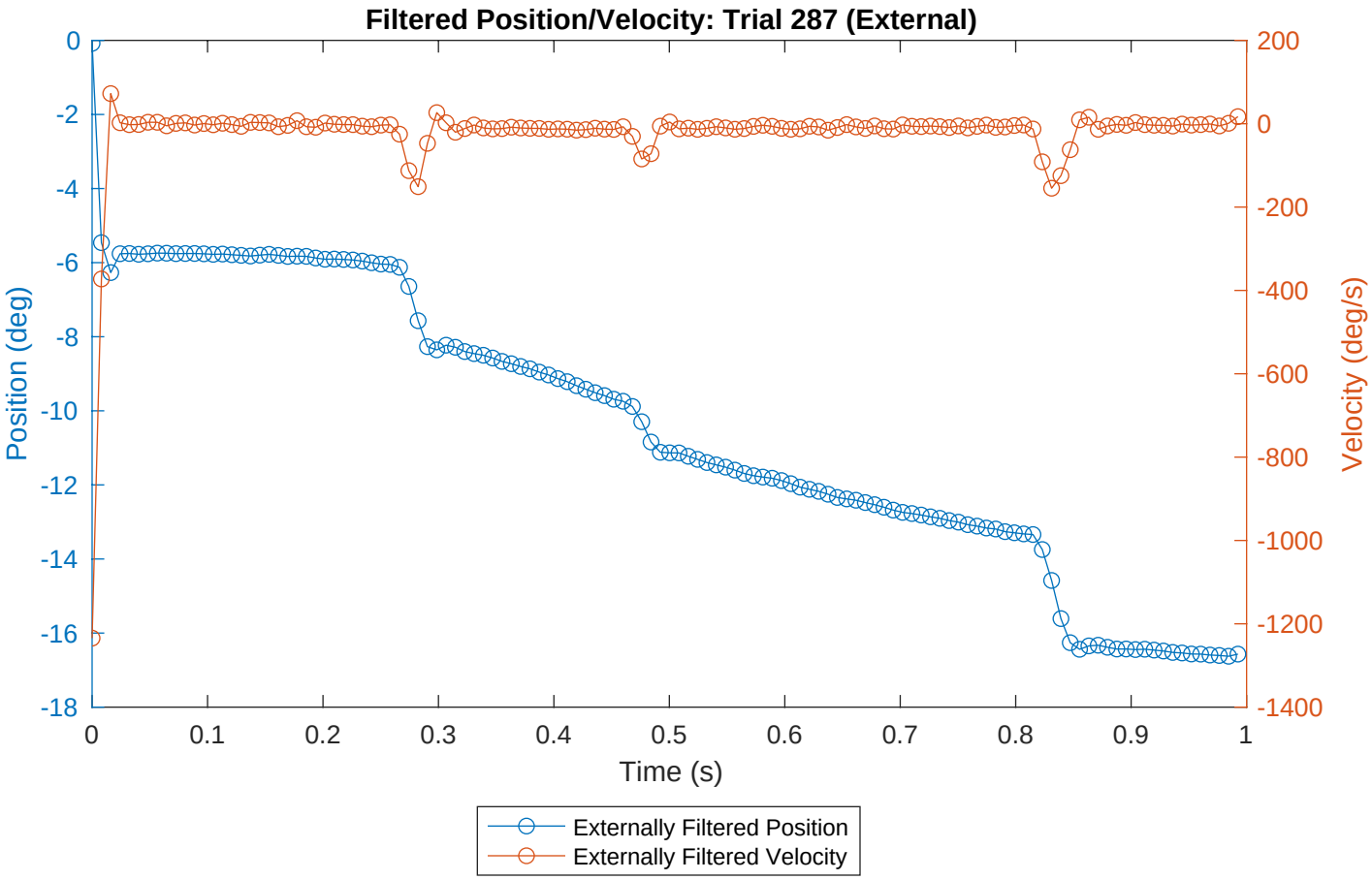

Position (deg)
Time (s)

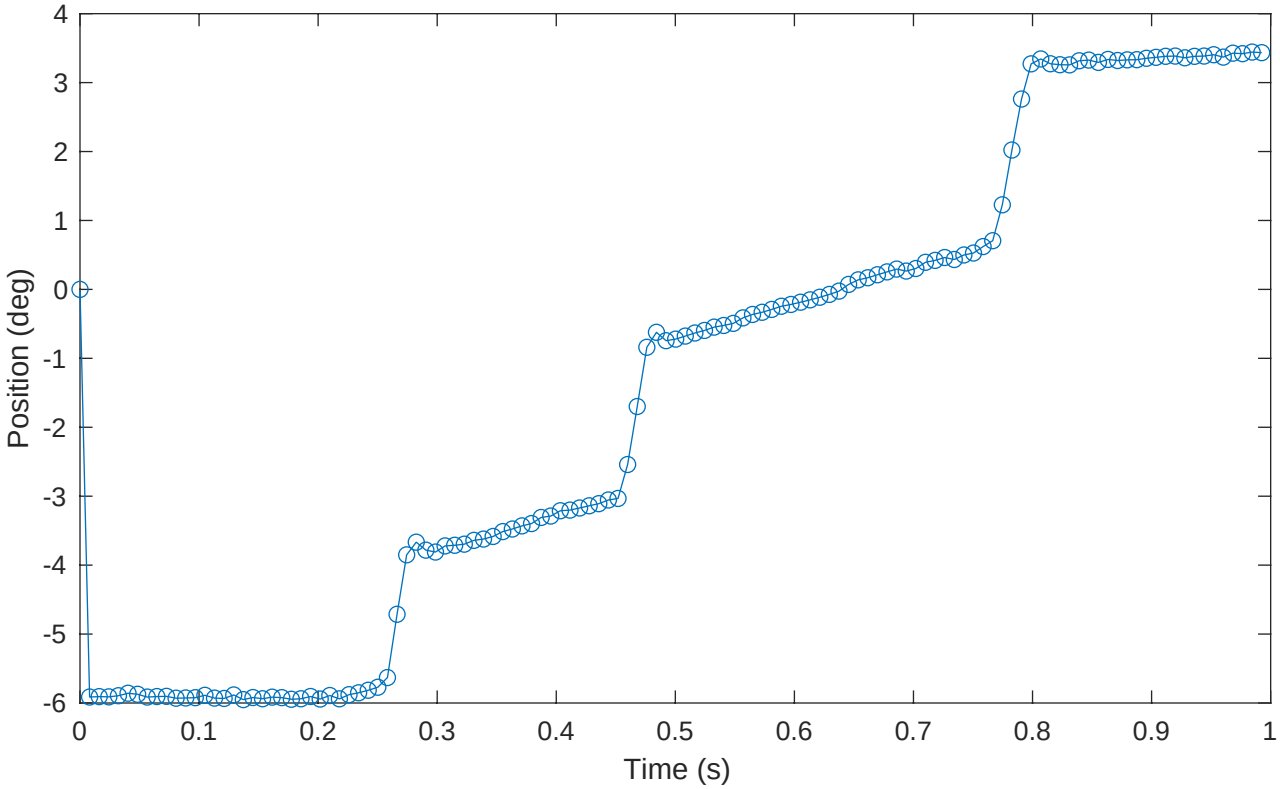

Filtered Position/Velocity: Trial 285 (External)
Position (deg)
Velocity (deg/s)
Time (s)
Externally Filtered Position
Externally Filtered Velocity

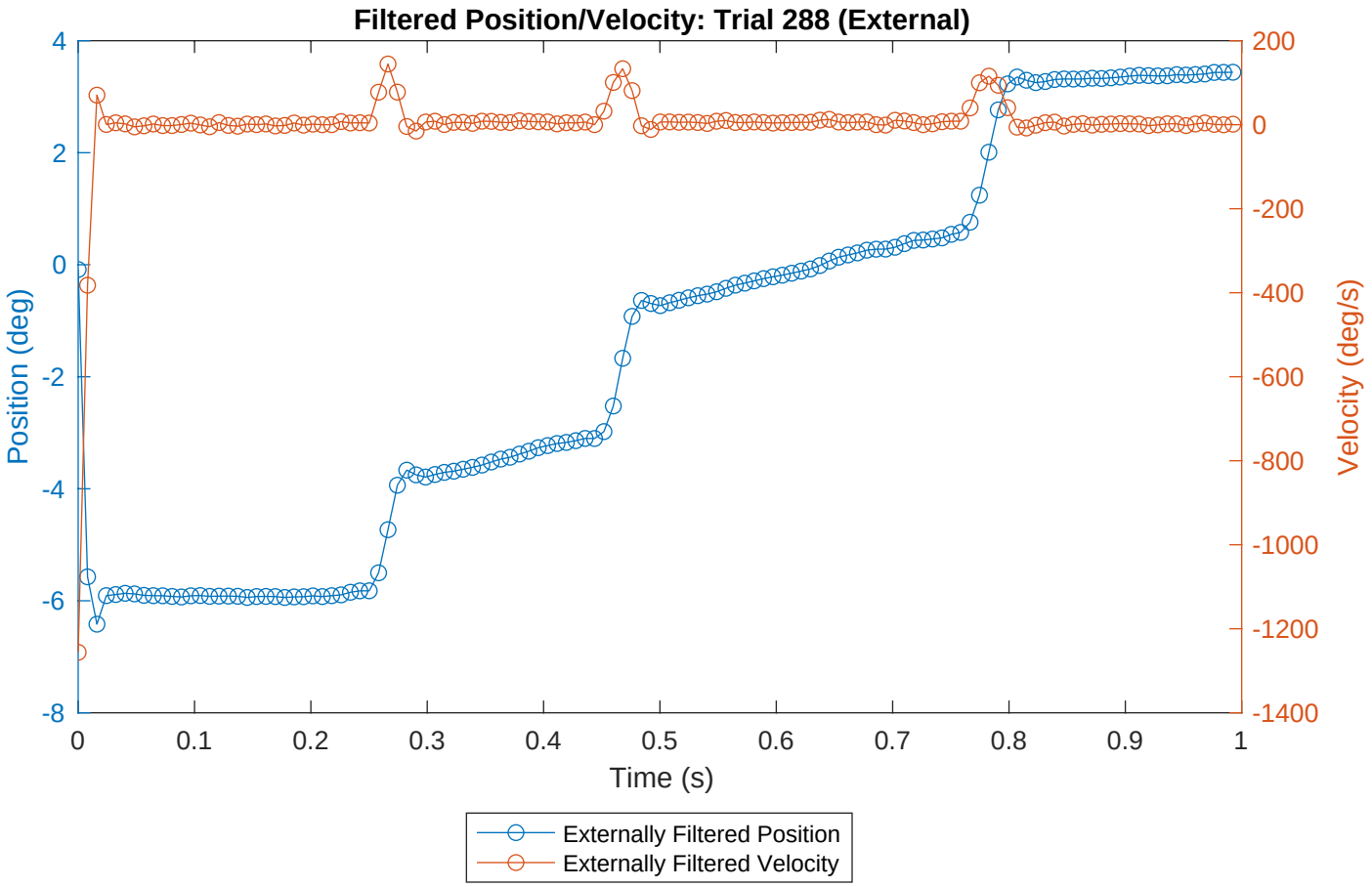

Position (deg)
Time (s)
4
3
2
1
0
-1
-2
-3
-4
-5
-6
0
0.2
0.4
0.6
0.8
1
1.2

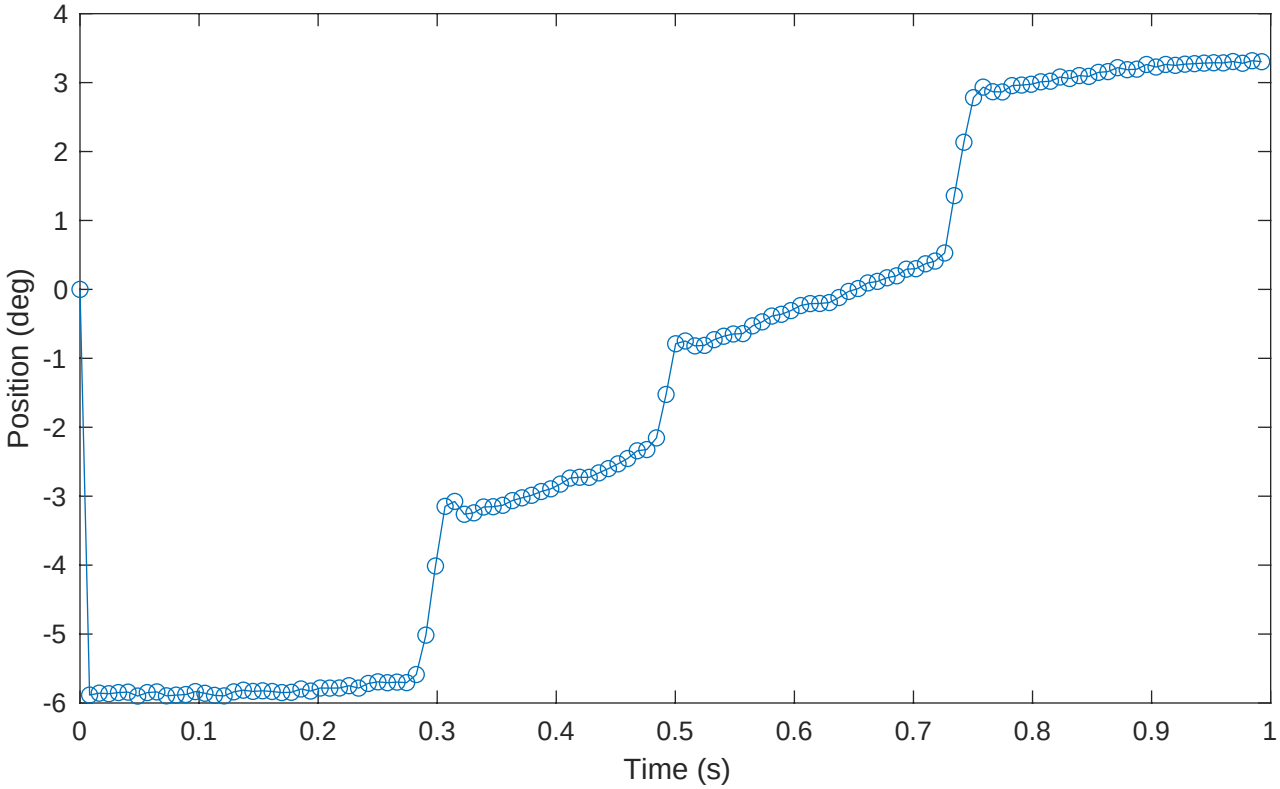

Filtered Position/Velocity: Trial 286 (External)
Position (deg)
Velocity (deg/s)
Time (s)
4
2
0
-2
-4
-6
-8
200
0
-200
-400
-600
-800
-1000
-1200
-1400
0
0.2
0.4
0.6
0.8
1
1.2
Externally Filtered Position
Externally Filtered Velocity

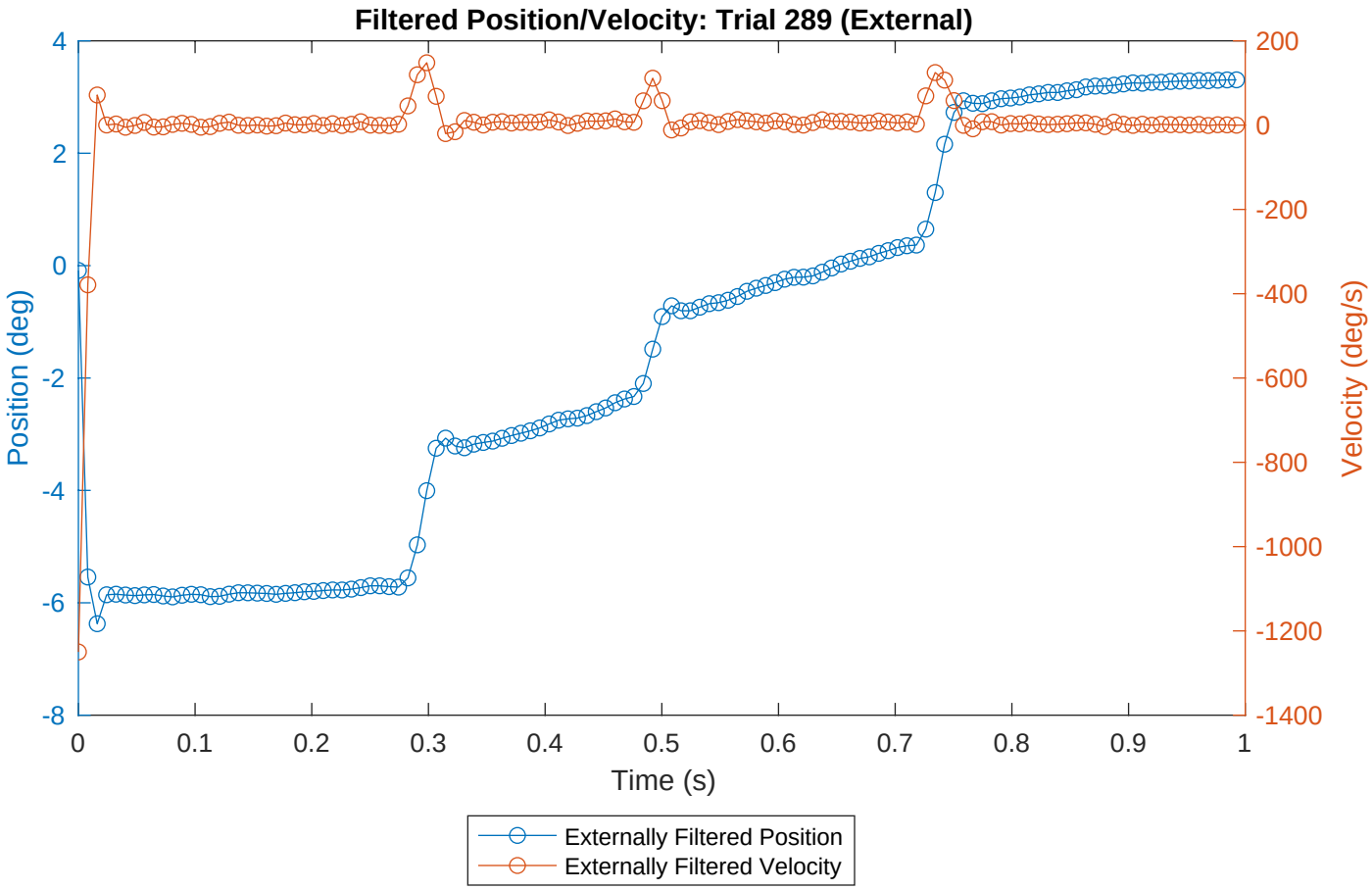

Position (deg)
Time (s)

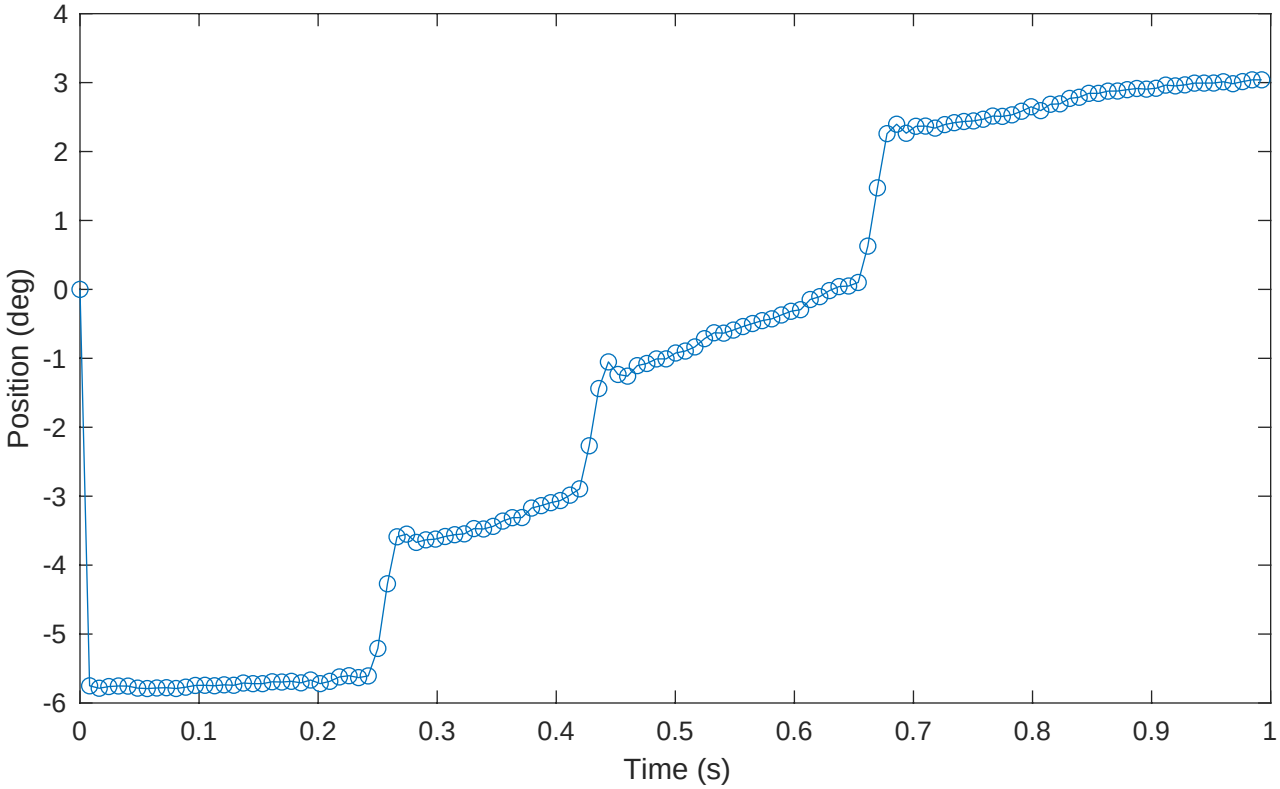

Filtered Position/Velocity: Trial 287 (External)
Position (deg)
Velocity (deg/s)
Time (s)
Externally Filtered Position
Externally Filtered Velocity

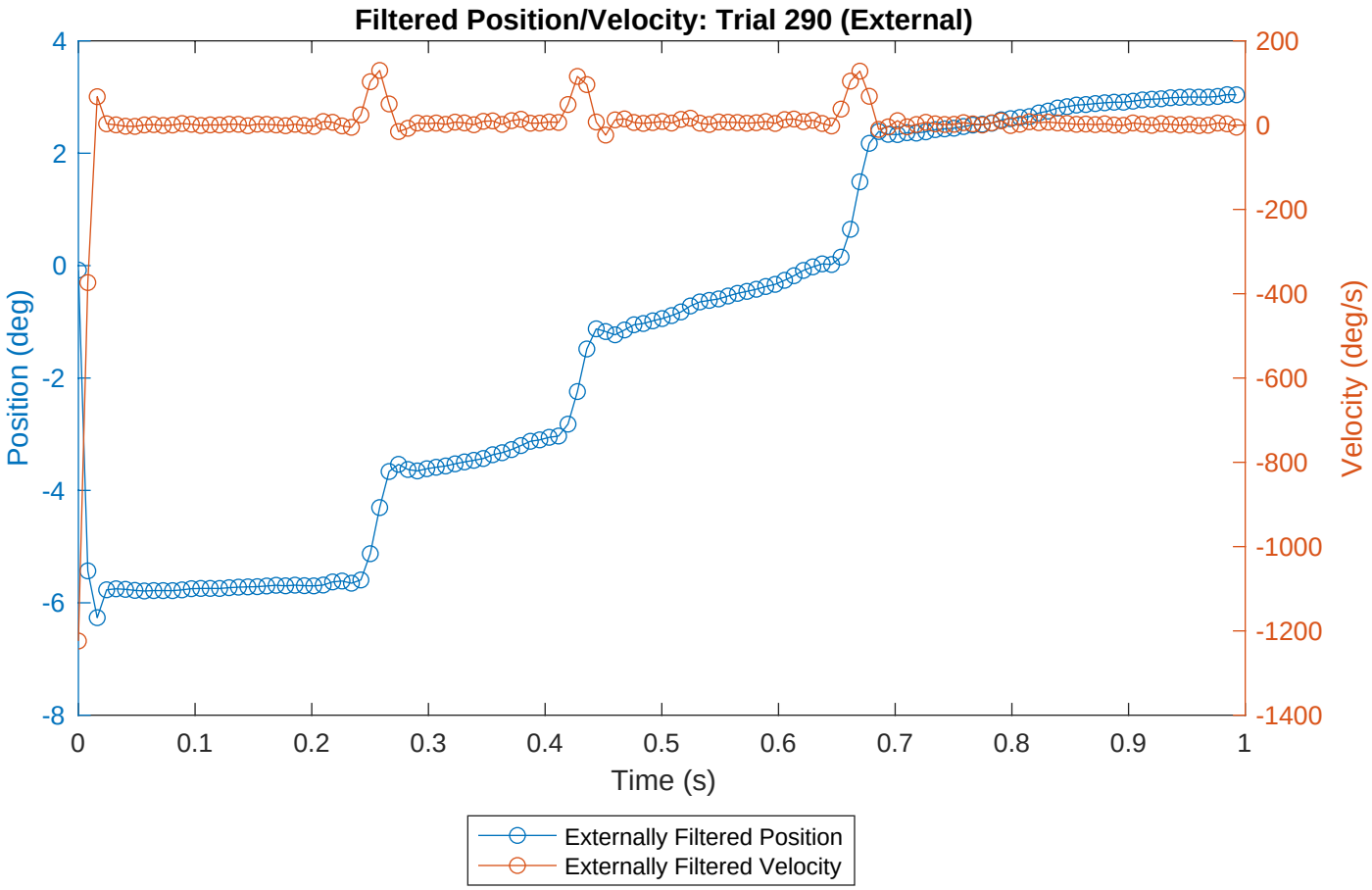

Position (deg)
Time (s)

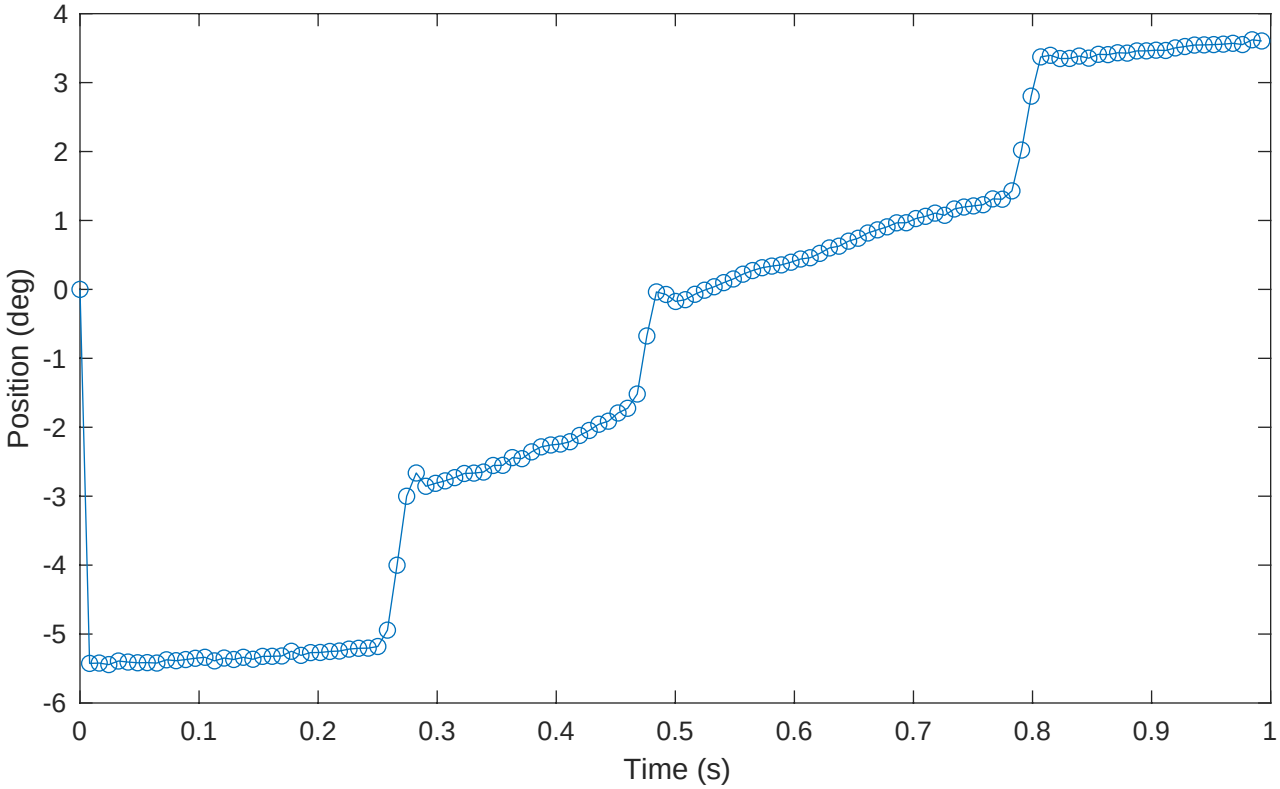

Filtered Position/Velocity: Trial 288 (External)
Position (deg)
Velocity (deg/s)
Time (s)
Externally Filtered Position
Externally Filtered Velocity

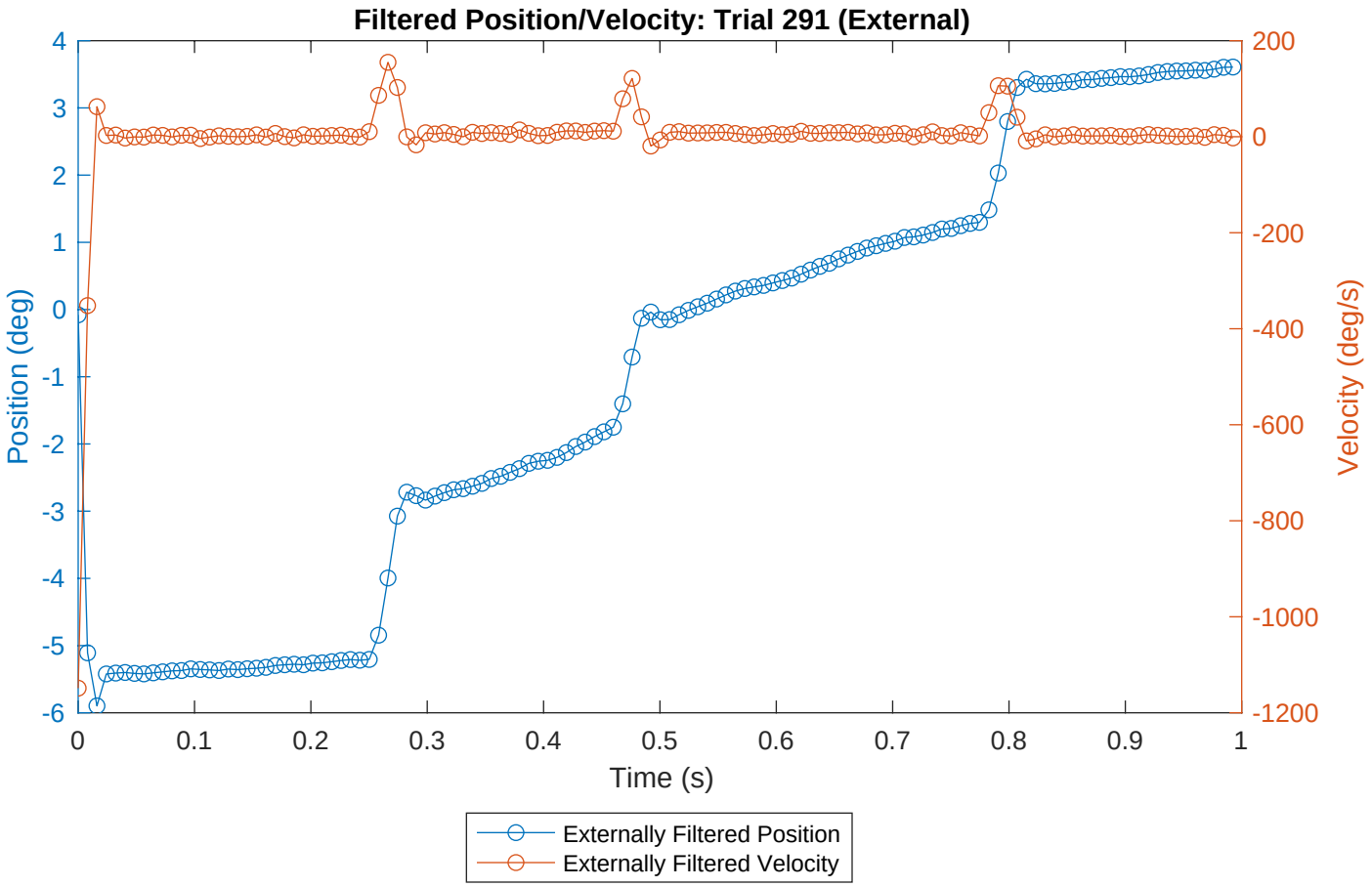

Position (deg)
Time (s)

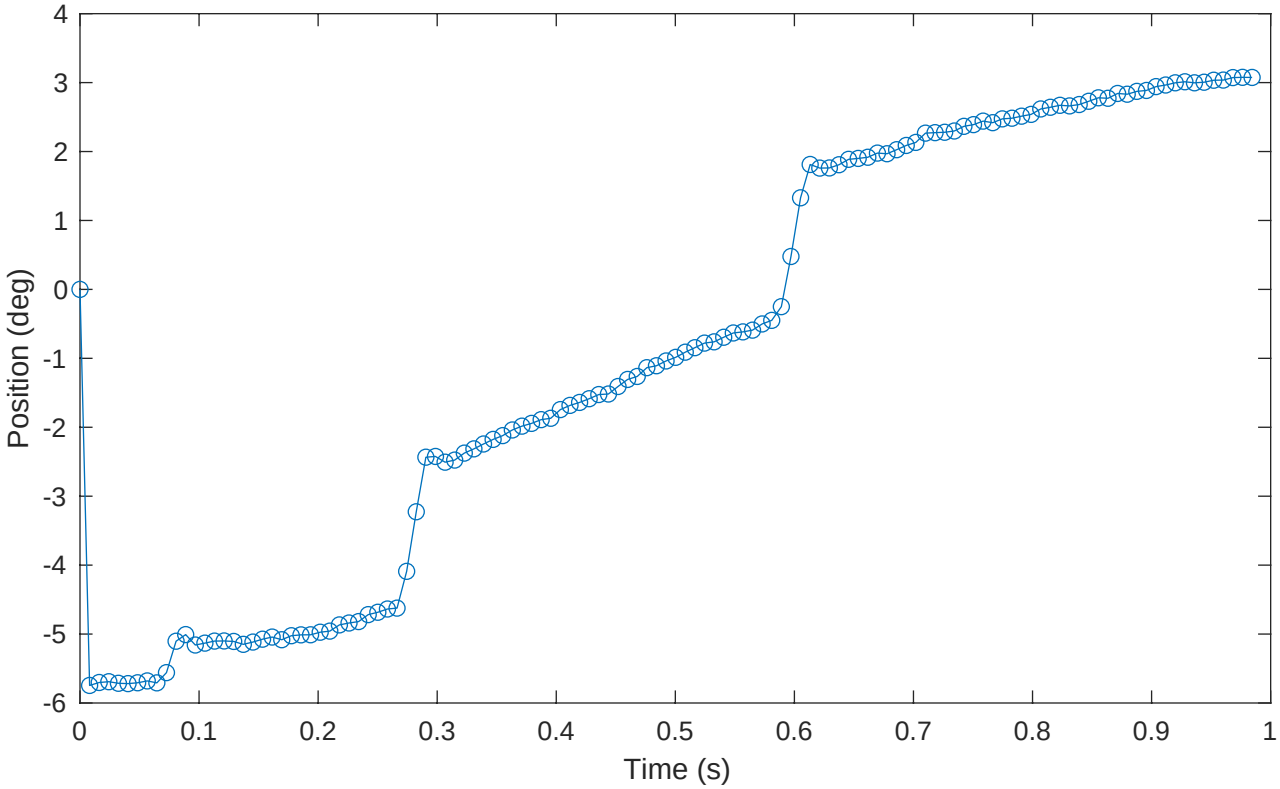

Filtered Position/Velocity: Trial 289 (External)
Position (deg)
Velocity (deg/s)
Time (s)
Externally Filtered Position
Externally Filtered Velocity

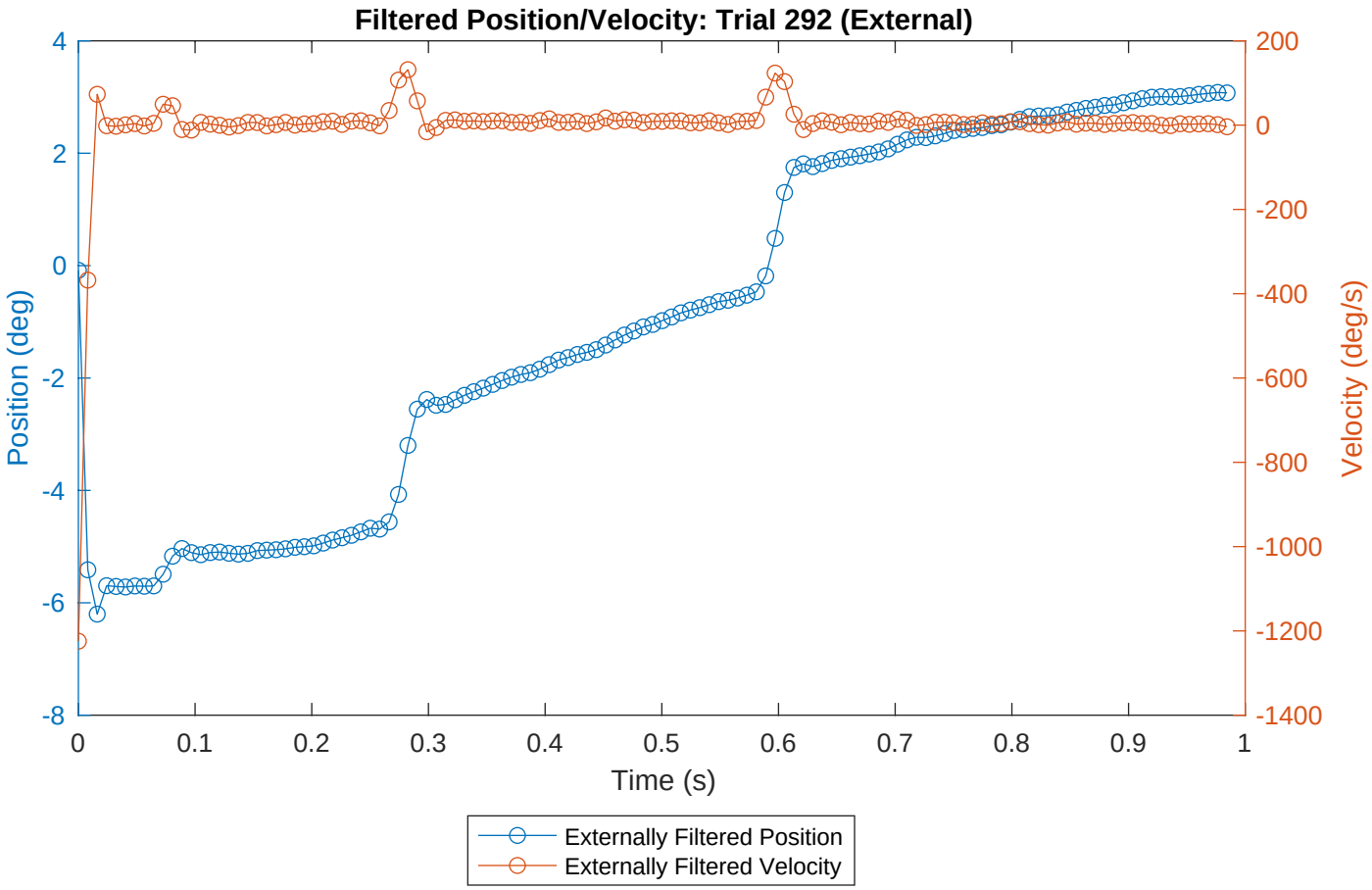

Position (deg)
Time (s)

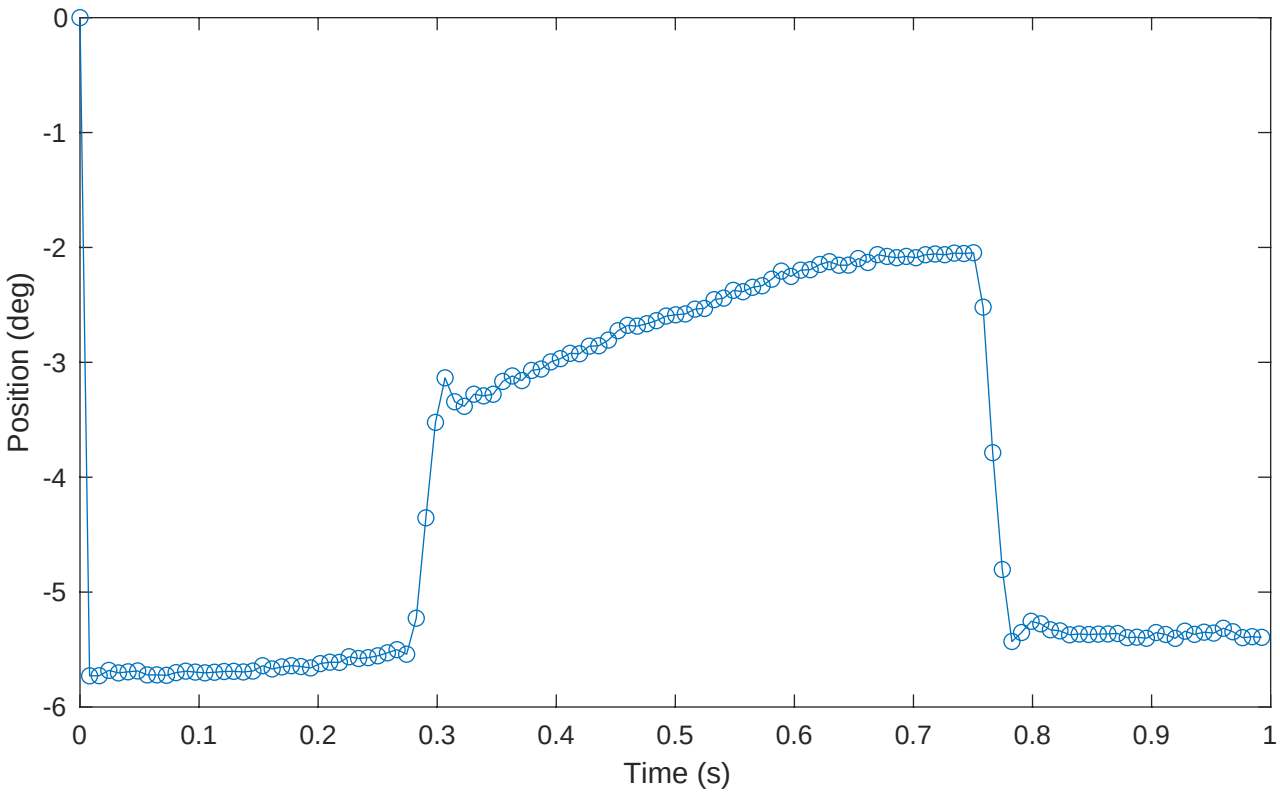

Filtered Position/Velocity: Trial 290 (External)
Position (deg)
Velocity (deg/s)
Time (s)
Externally Filtered Position
Externally Filtered Velocity

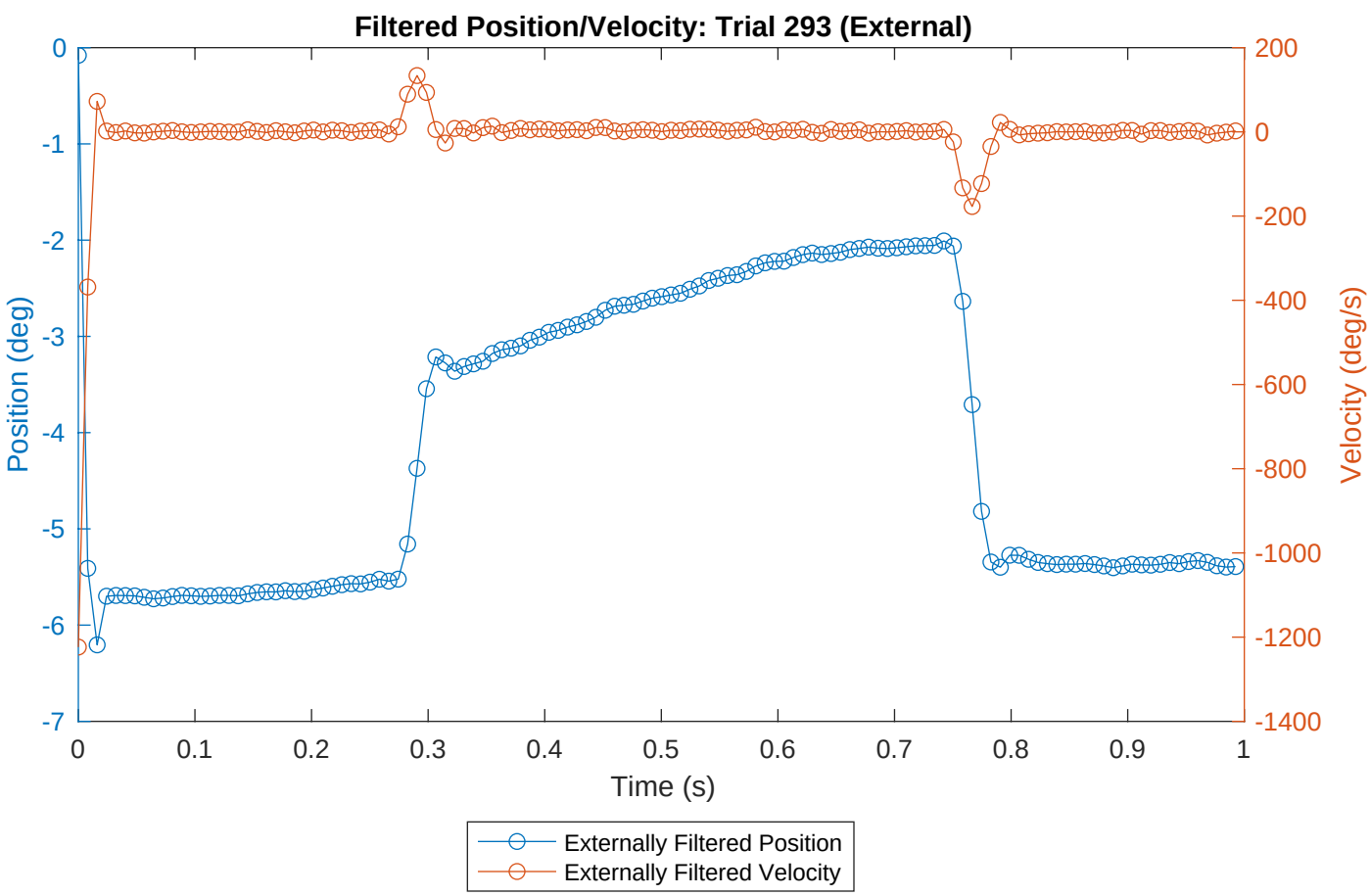

Position (deg)
Time (s)

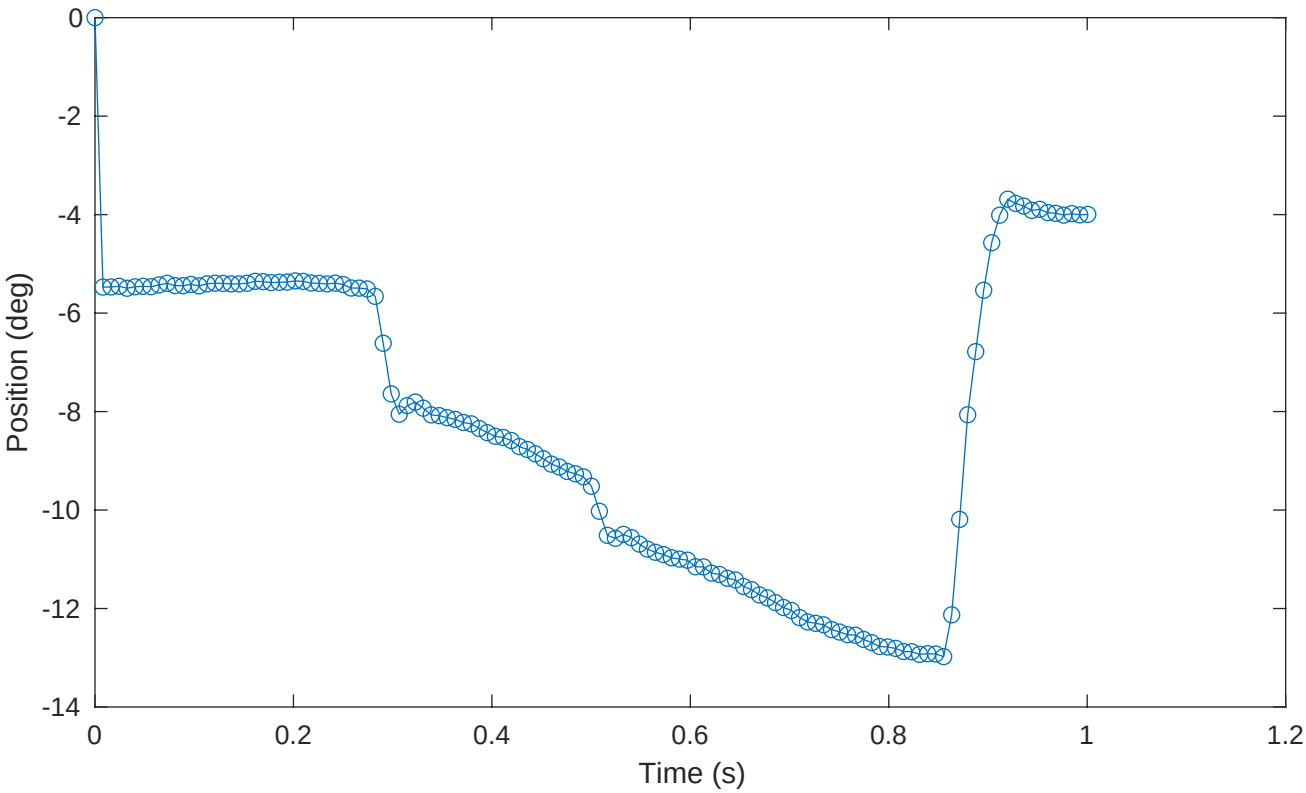

Filtered Position/Velocity: Trial 291 (External)
Position (deg)
Velocity (deg/s)
Time (s)
Externally Filtered Position
Externally Filtered Velocity

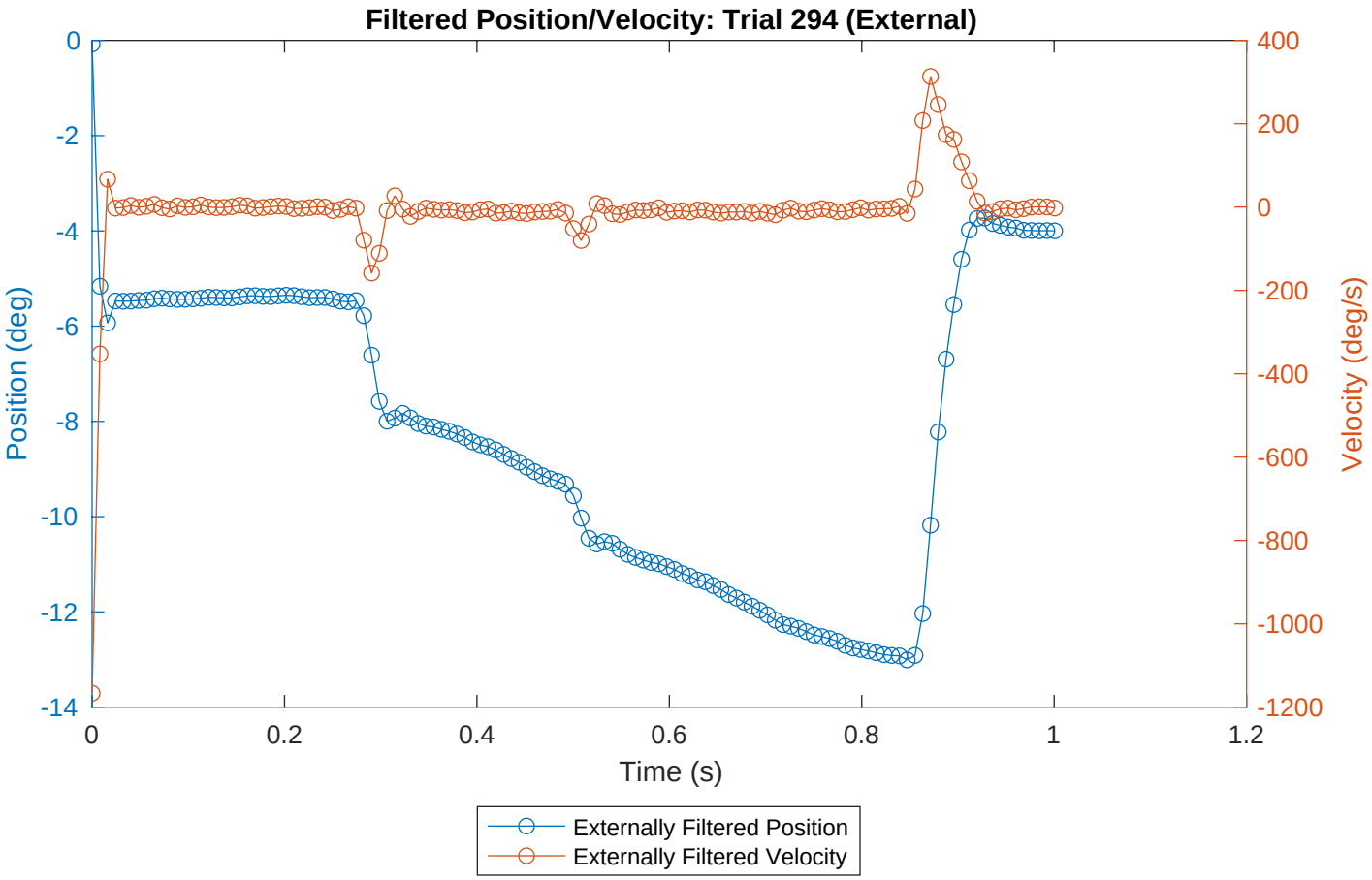

Position (deg)
Time (s)

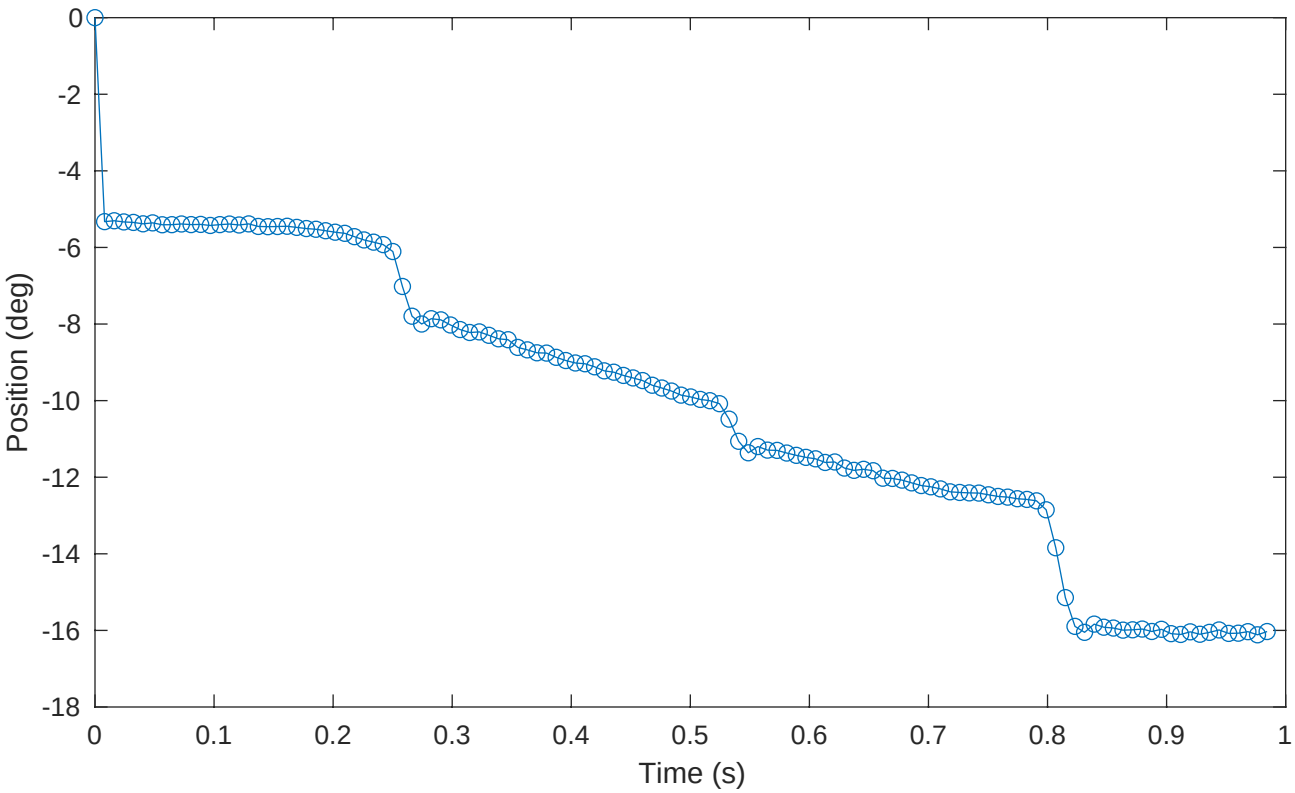

Filtered Position/Velocity: Trial 292 (External)
Position (deg)
Velocity (deg/s)
Time (s)
Externally Filtered Position
Externally Filtered Velocity

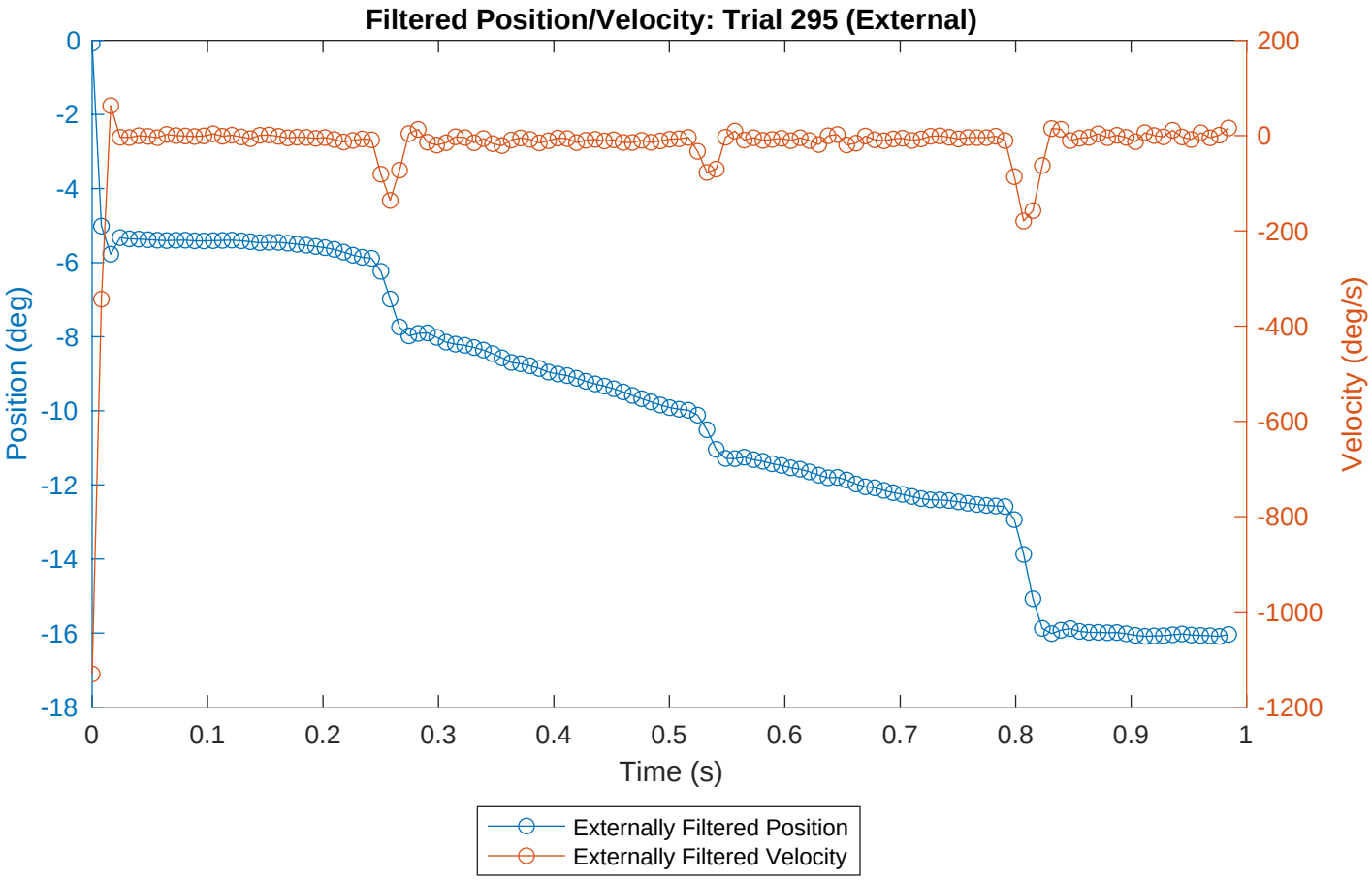

Position (deg)
Time (s)

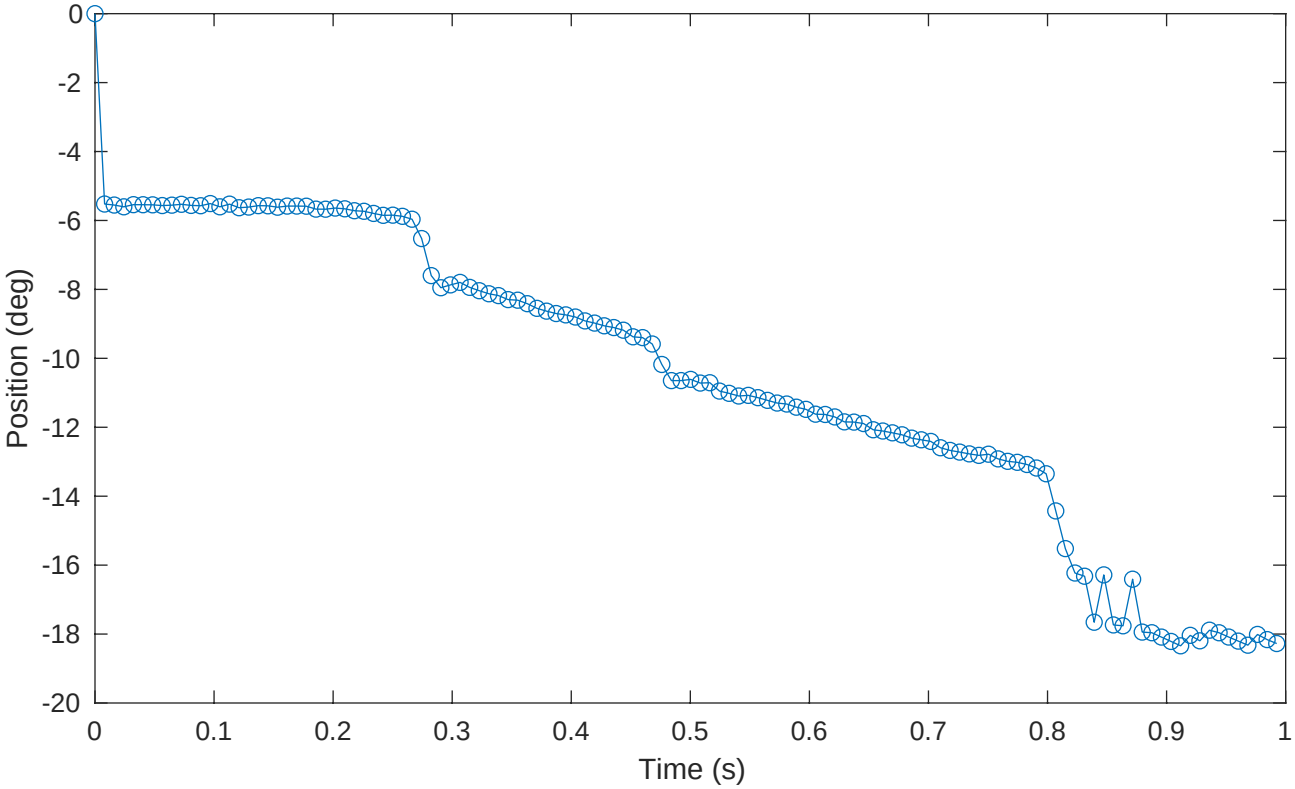

Filtered Position/Velocity: Trial 293 (External)
Position (deg)
Velocity (deg/s)
Time (s)
Externally Filtered Position
Externally Filtered Velocity

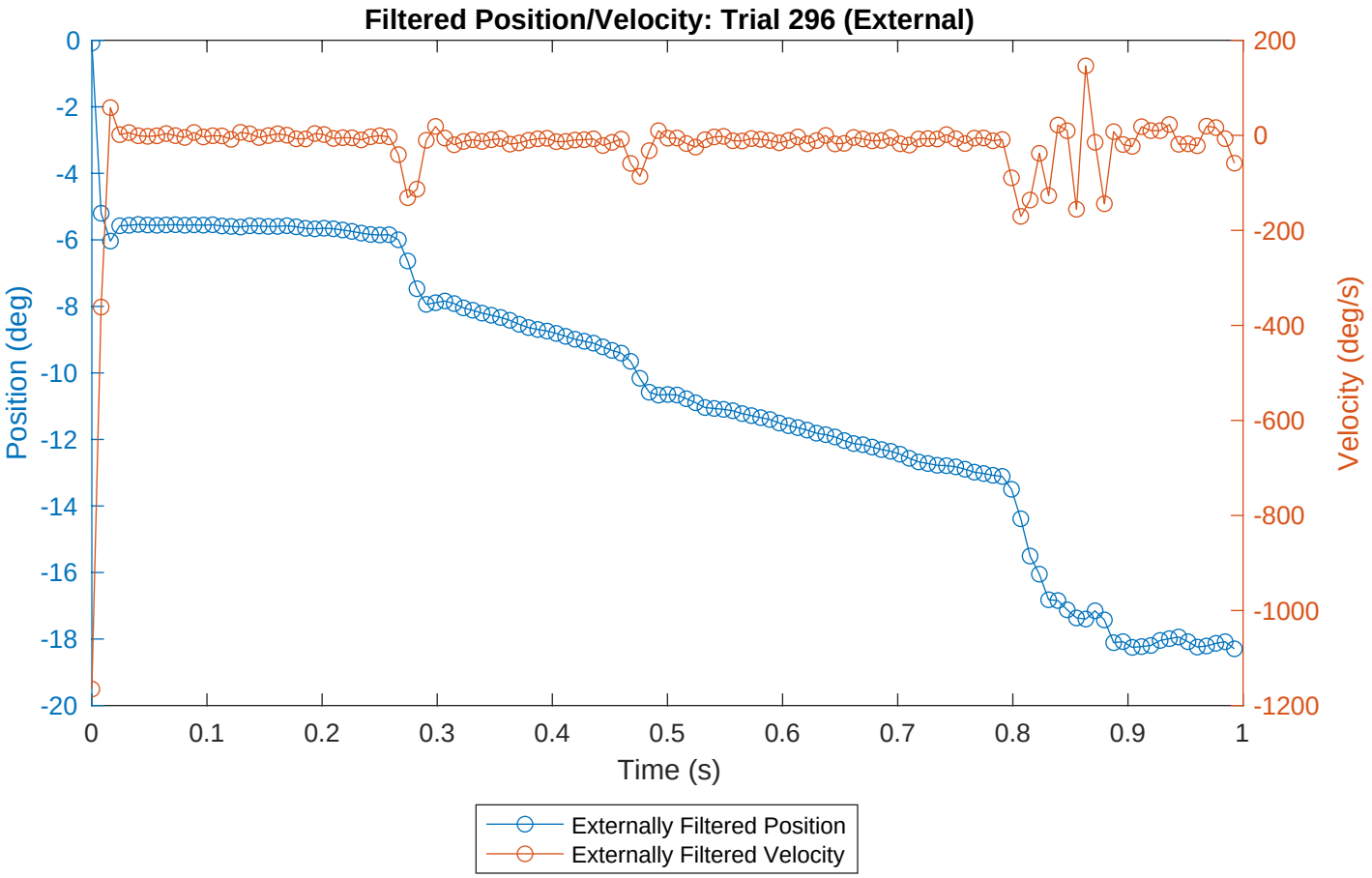

0
-2
-4
-6
-8
-10
-12
-14
Position (deg)
0
0.2
0.4
0.6
0.8
1
1.2
Time (s)

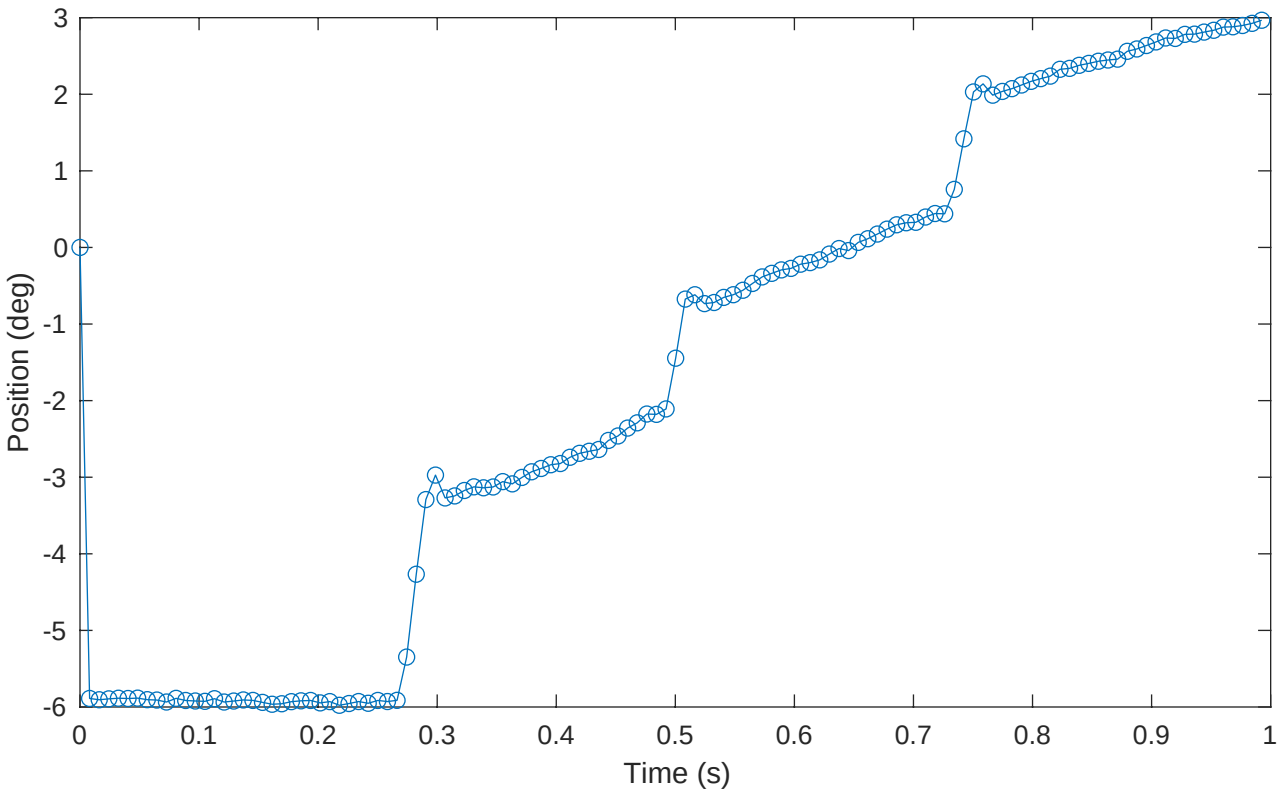

Filtered Position/Velocity: Trial 294 (External)
0
-2
-4
-6
-8
-10
-12
-14
Position (deg)
400
200
0
-200
-400
-600
-800
-1000
-1200
Velocity (deg/s)
0
0.2
0.4
0.6
0.8
1
1.2
Time (s)
Externally Filtered Position
Externally Filtered Velocity

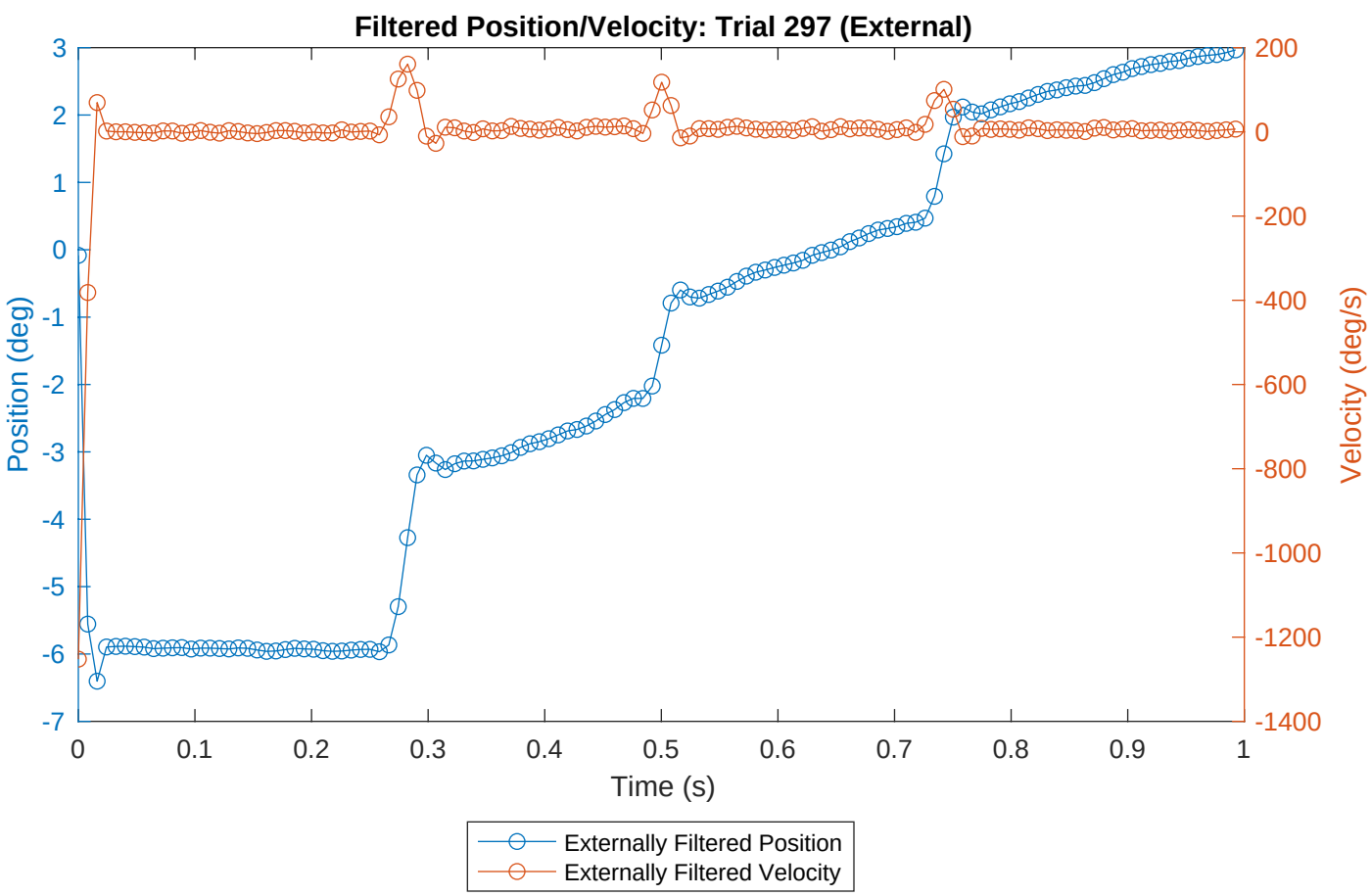

Position (deg)
Time (s)

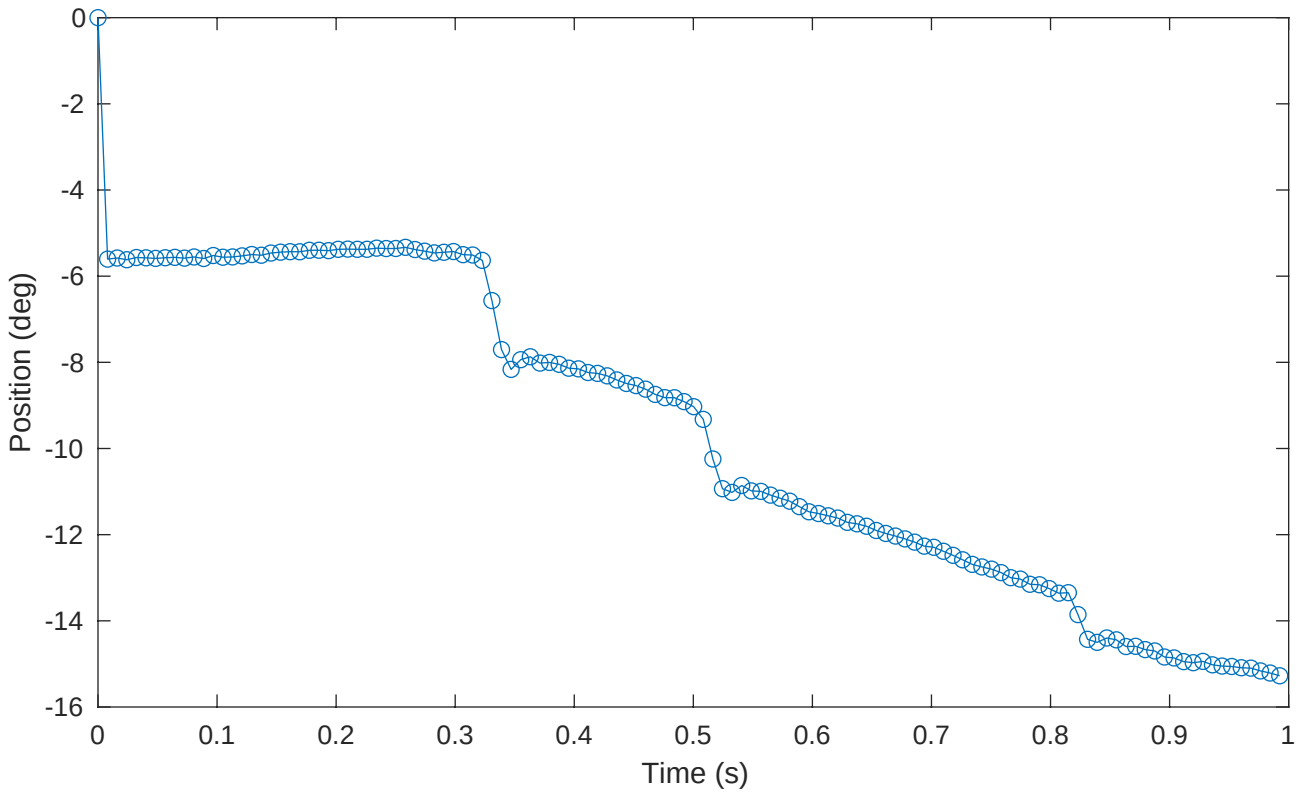

Filtered Position/Velocity: Trial 295 (External)
Position (deg)
Velocity (deg/s)
Time (s)
Externally Filtered Position
Externally Filtered Velocity

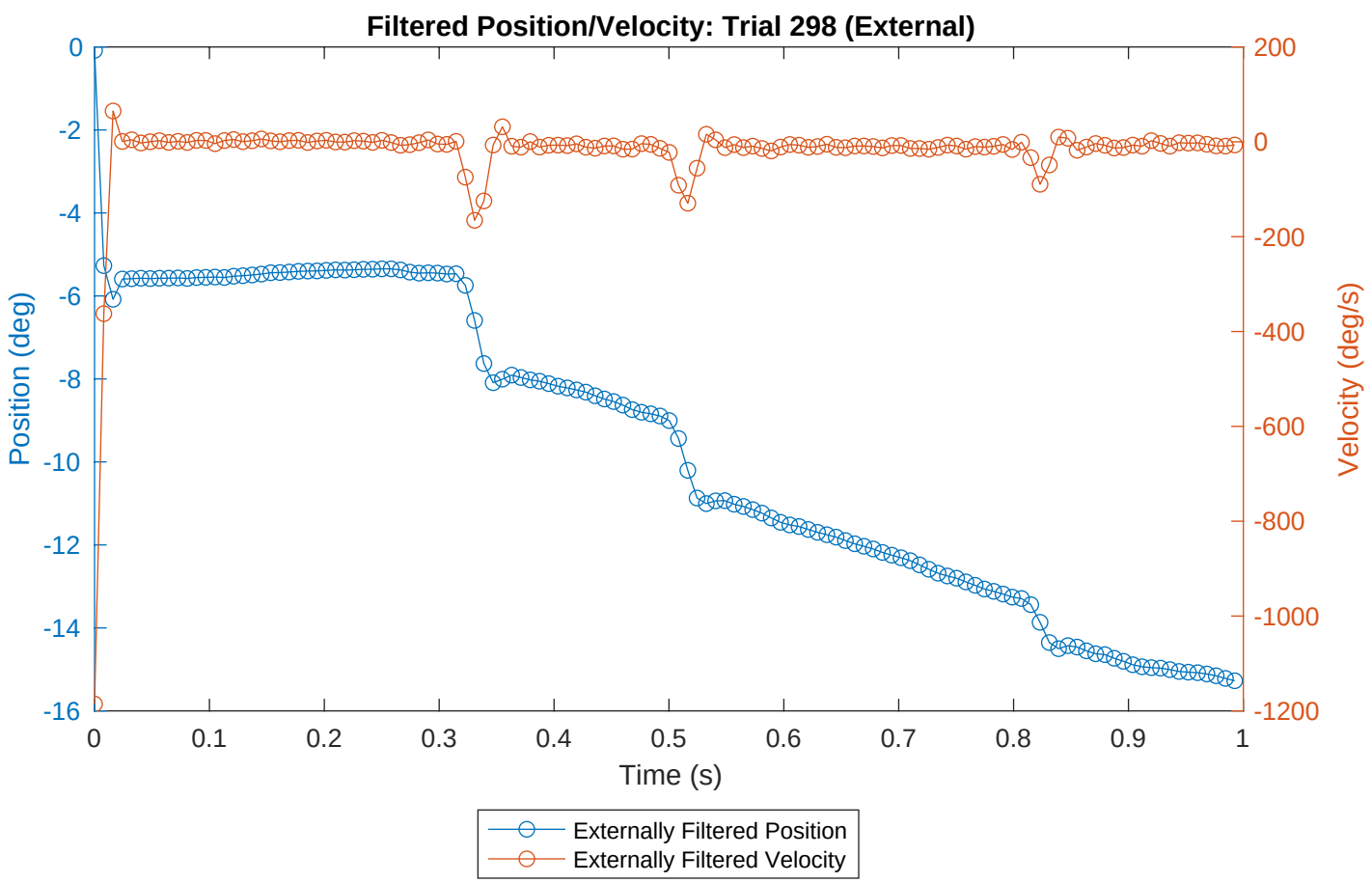

Position (deg)
Time (s)

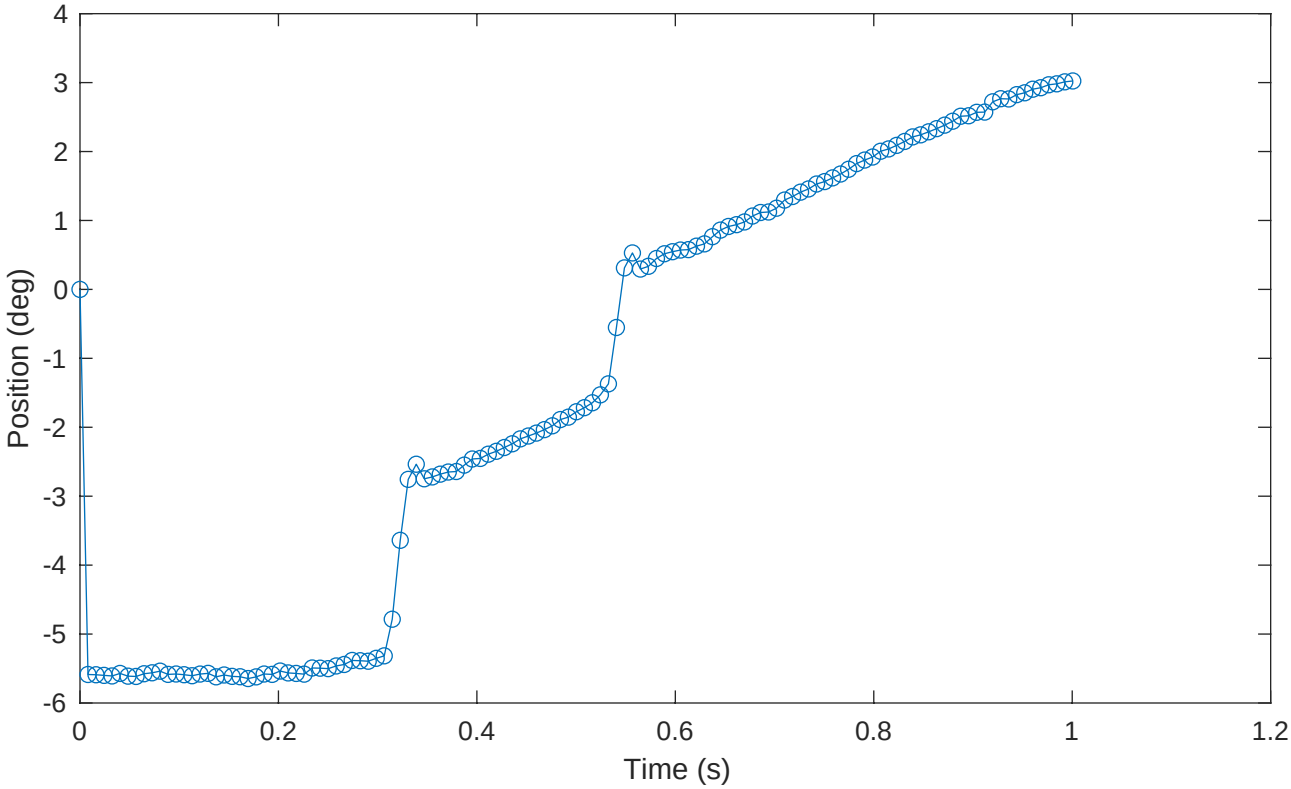

Filtered Position/Velocity: Trial 296 (External)
Position (deg)
Velocity (deg/s)
Time (s)
Externally Filtered Position
Externally Filtered Velocity

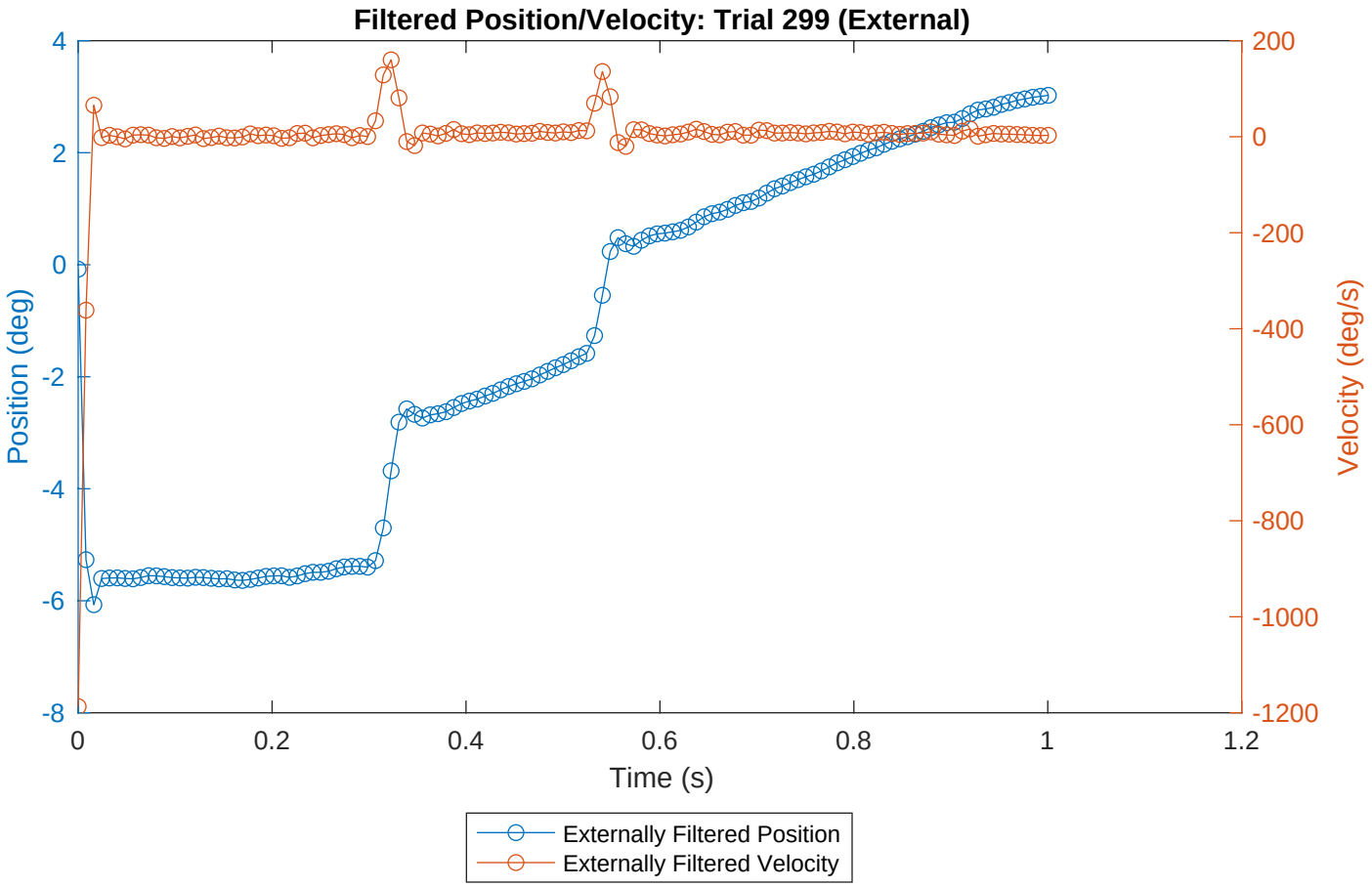

Position (deg)
Time (s)

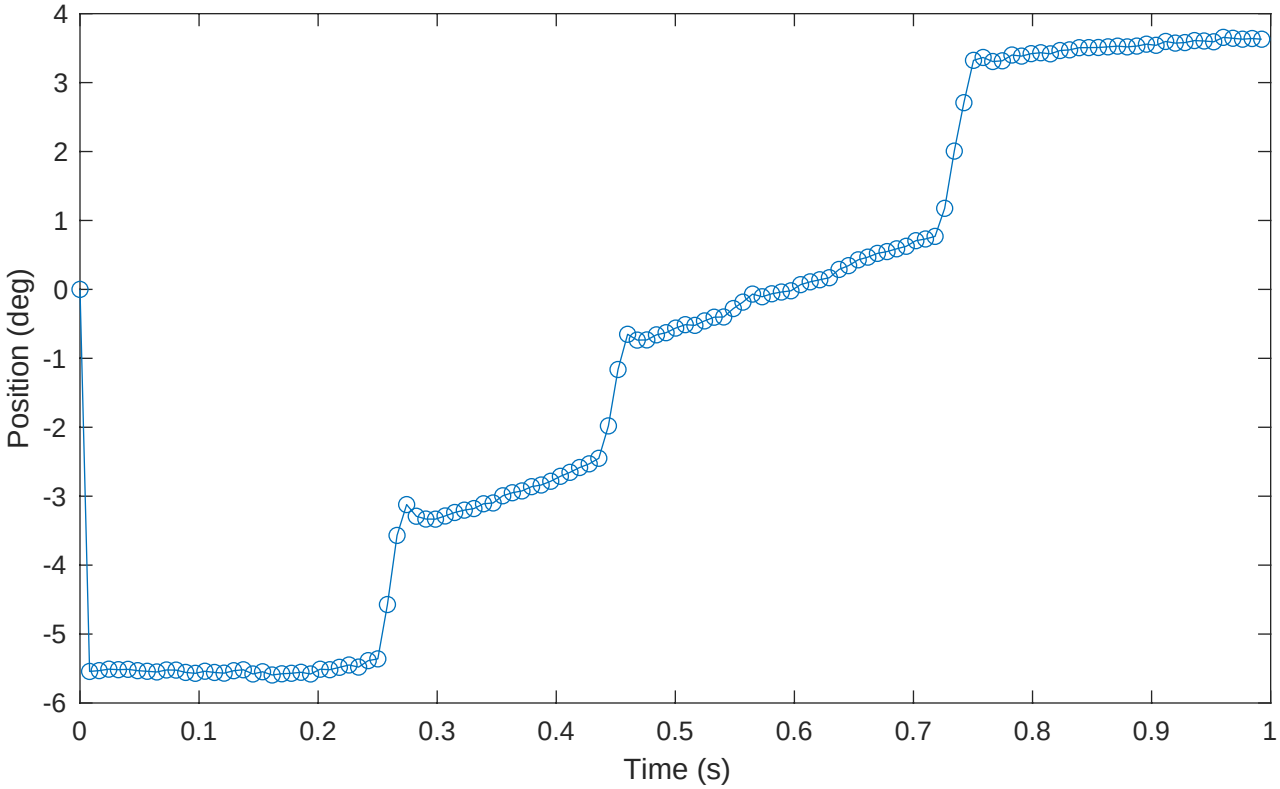

Filtered Position/Velocity: Trial 297 (External)
Position (deg)
Velocity (deg/s)
Time (s)
Externally Filtered Position
Externally Filtered Velocity

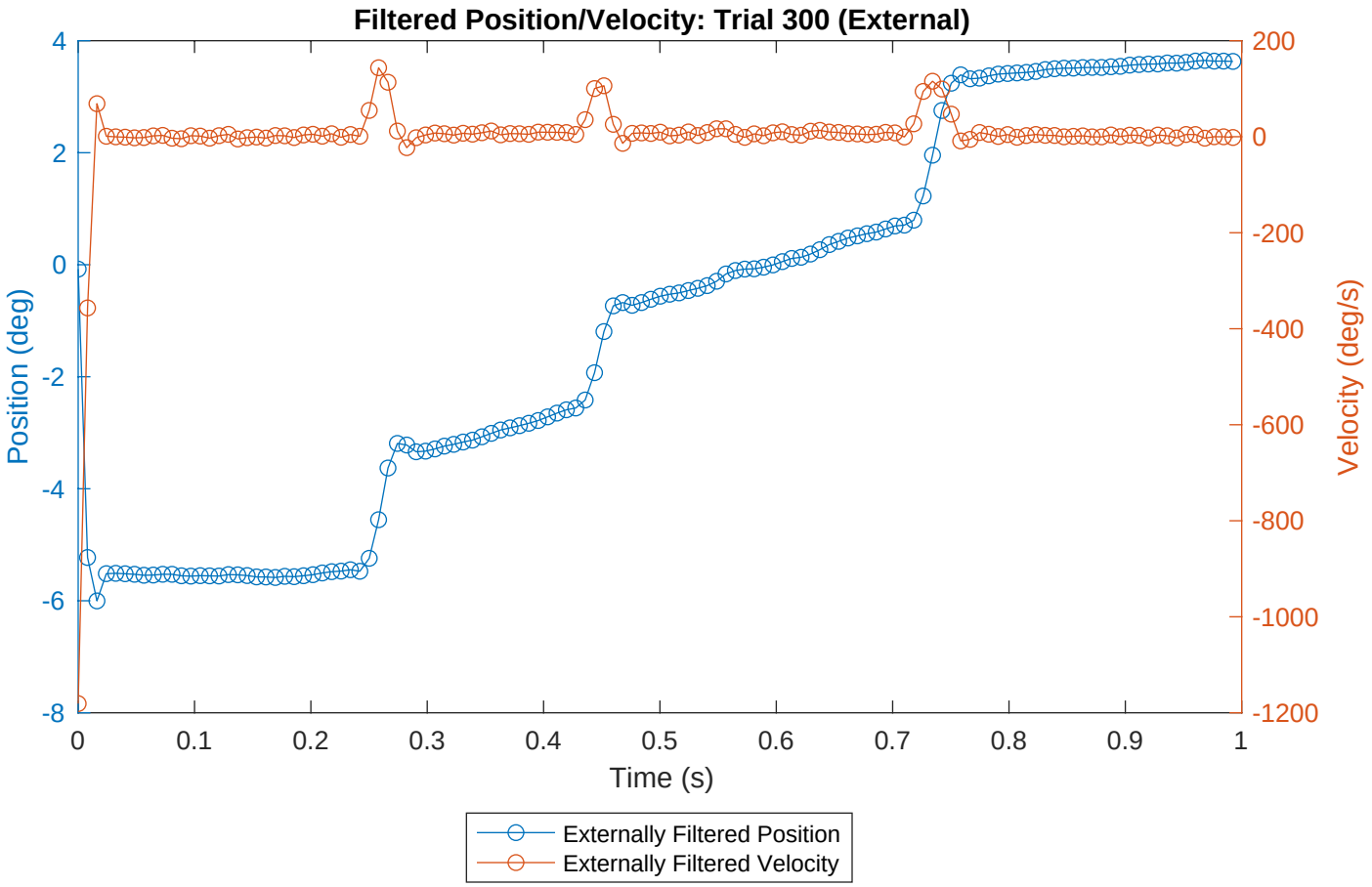

Position (deg)
Time (s)

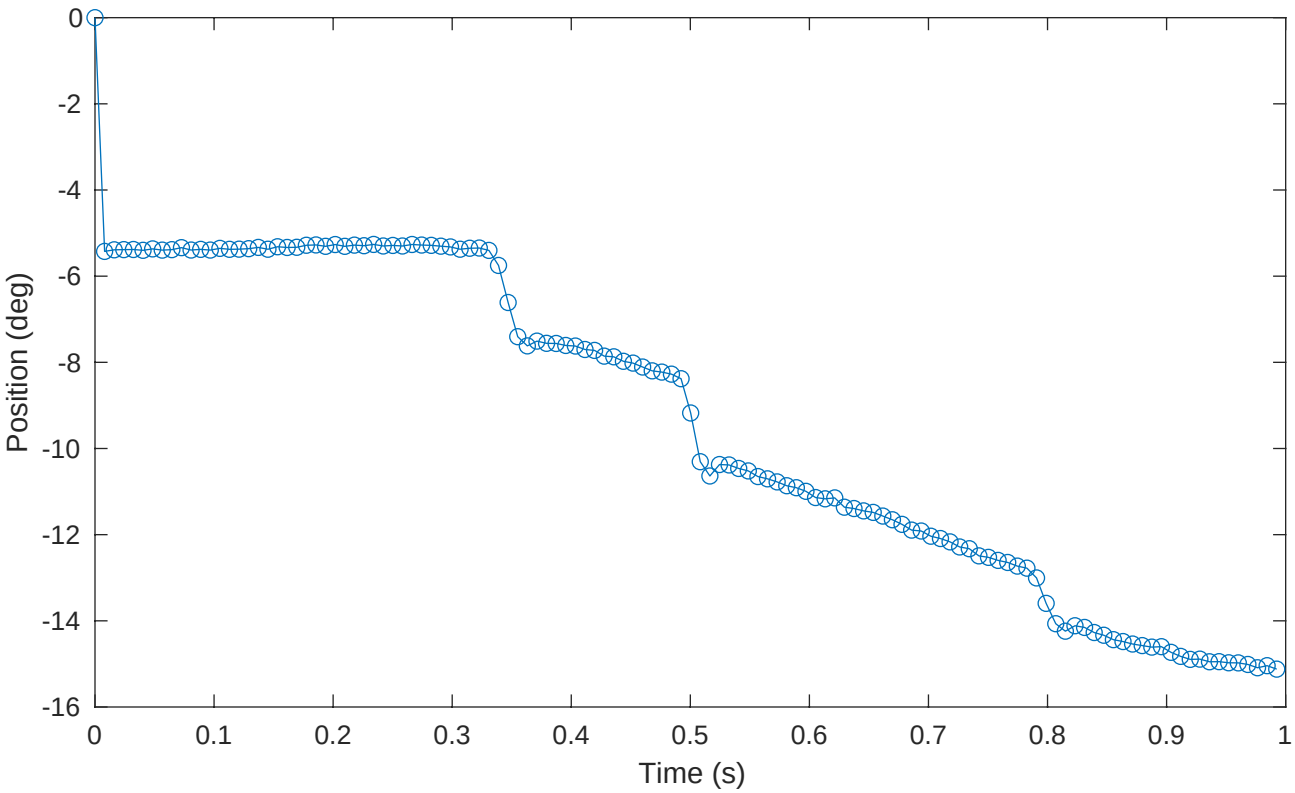

Filtered Position/Velocity: Trial 298 (External)
Position (deg)
Velocity (deg/s)
Time (s)
Externally Filtered Position
Externally Filtered Velocity

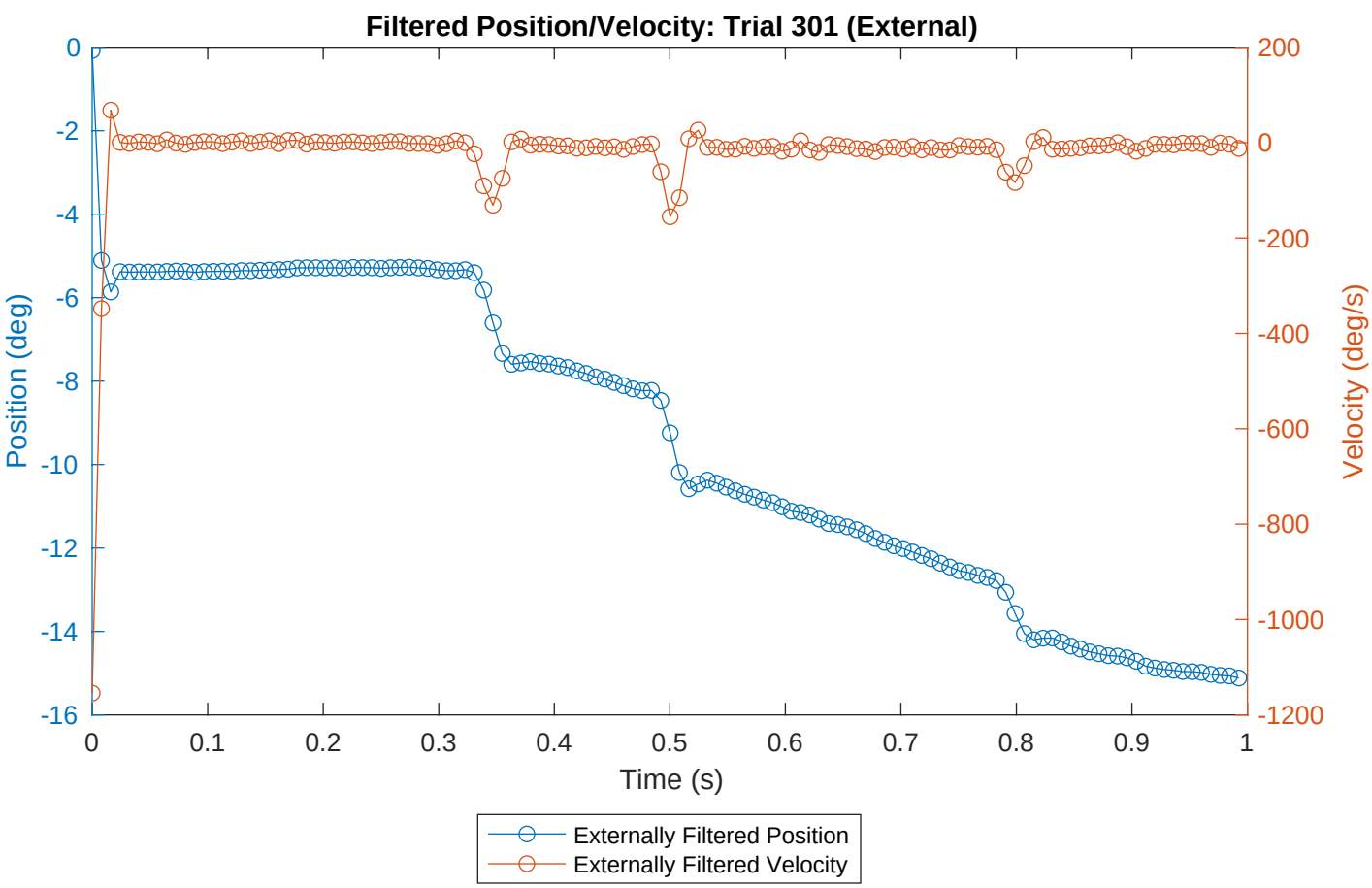

Position (deg)
Time (s)
4
3
2
1
0
-1
-2
-3
-4
-5
-6
0
0.2
0.4
0.6
0.8
1
1.2

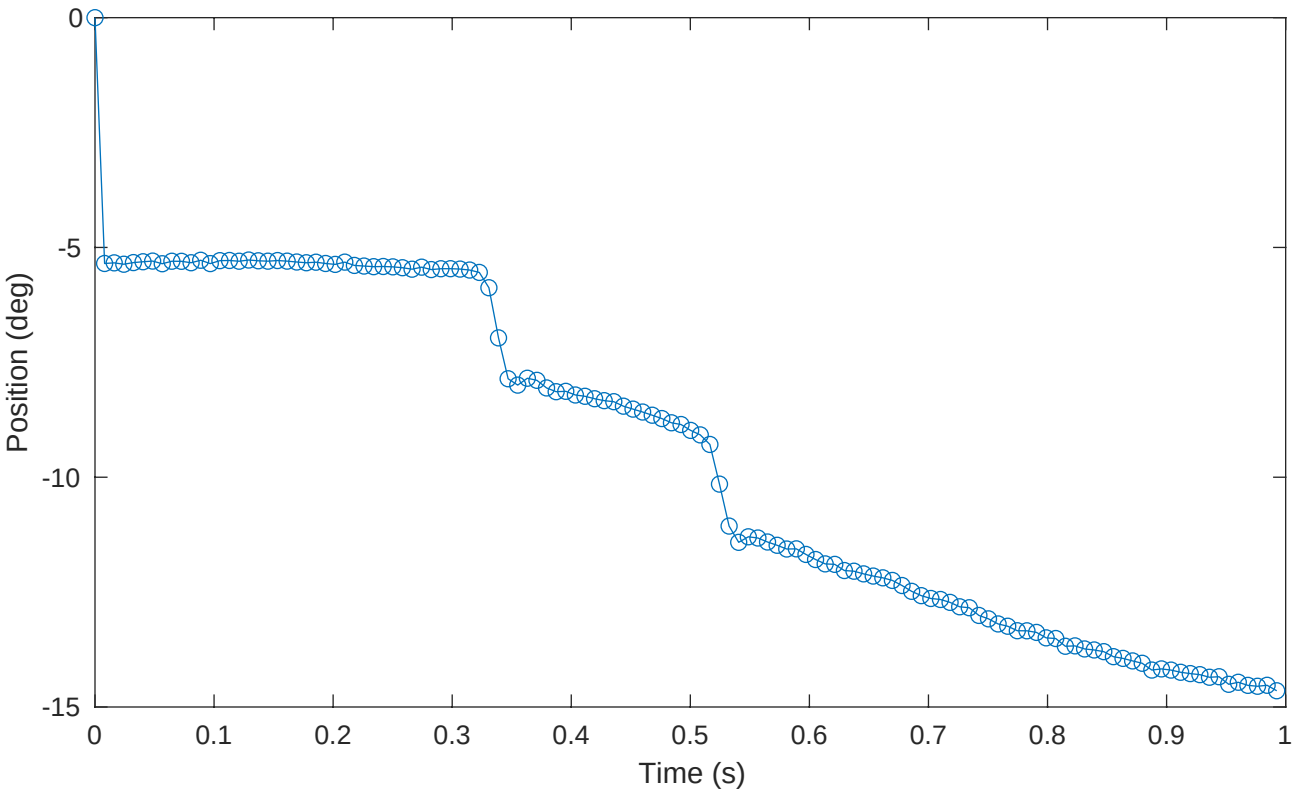

Filtered Position/Velocity: Trial 299 (External)
Position (deg)
Velocity (deg/s)
Time (s)
4
2
0
-2
-4
-6
-8
200
0
-200
-400
-600
-800
-1000
-1200
0
0.2
0.4
0.6
0.8
1
1.2
Externally Filtered Position
Externally Filtered Velocity

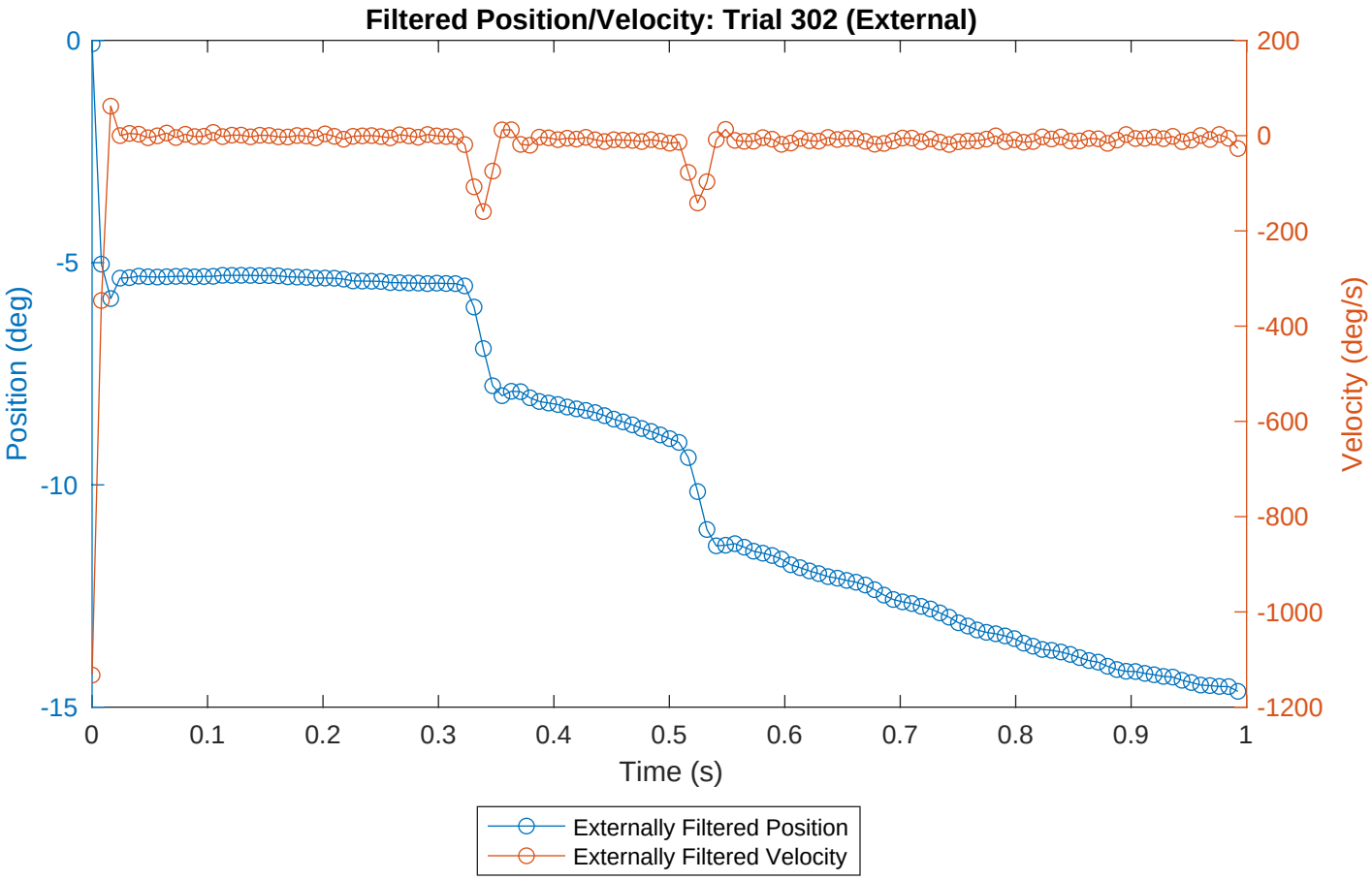

Position (deg)
Time (s)

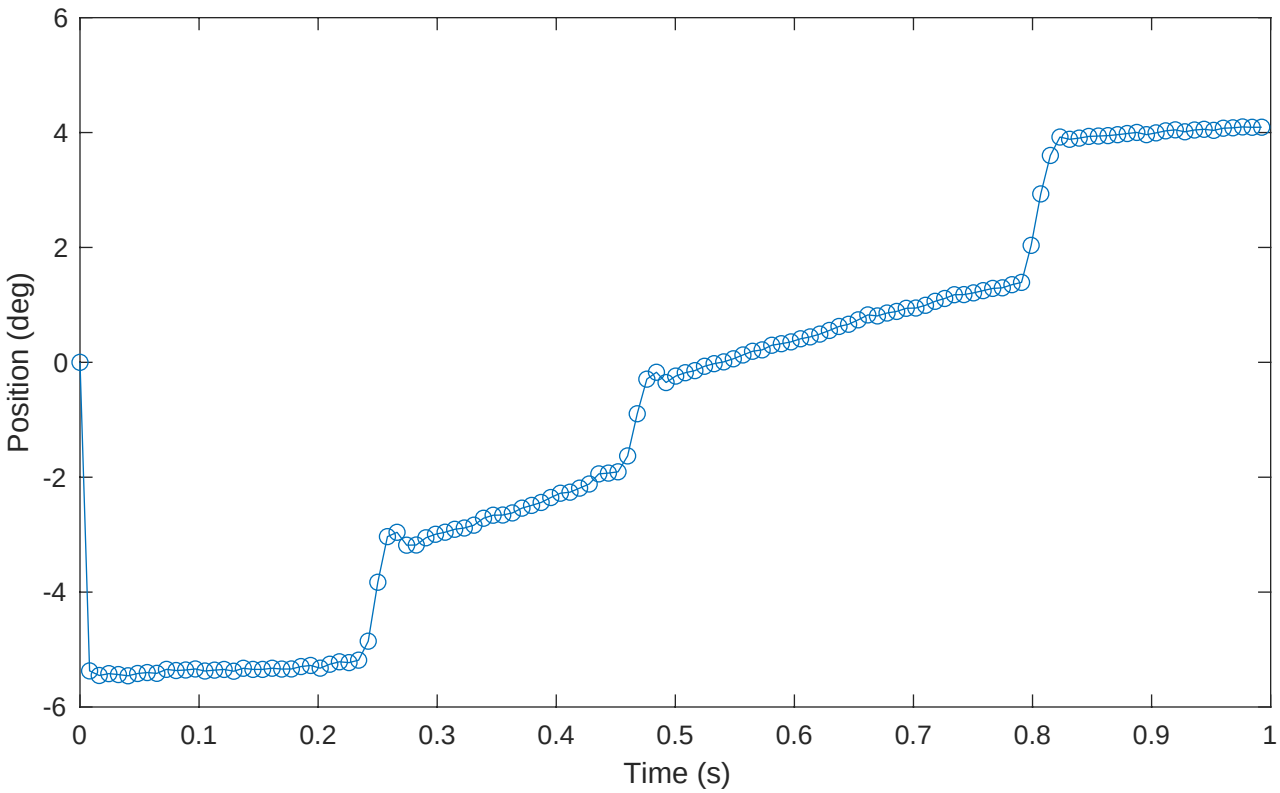

Filtered Position/Velocity: Trial 300 (External)
Position (deg)
Velocity (deg/s)
Time (s)
Externally Filtered Position
Externally Filtered Velocity

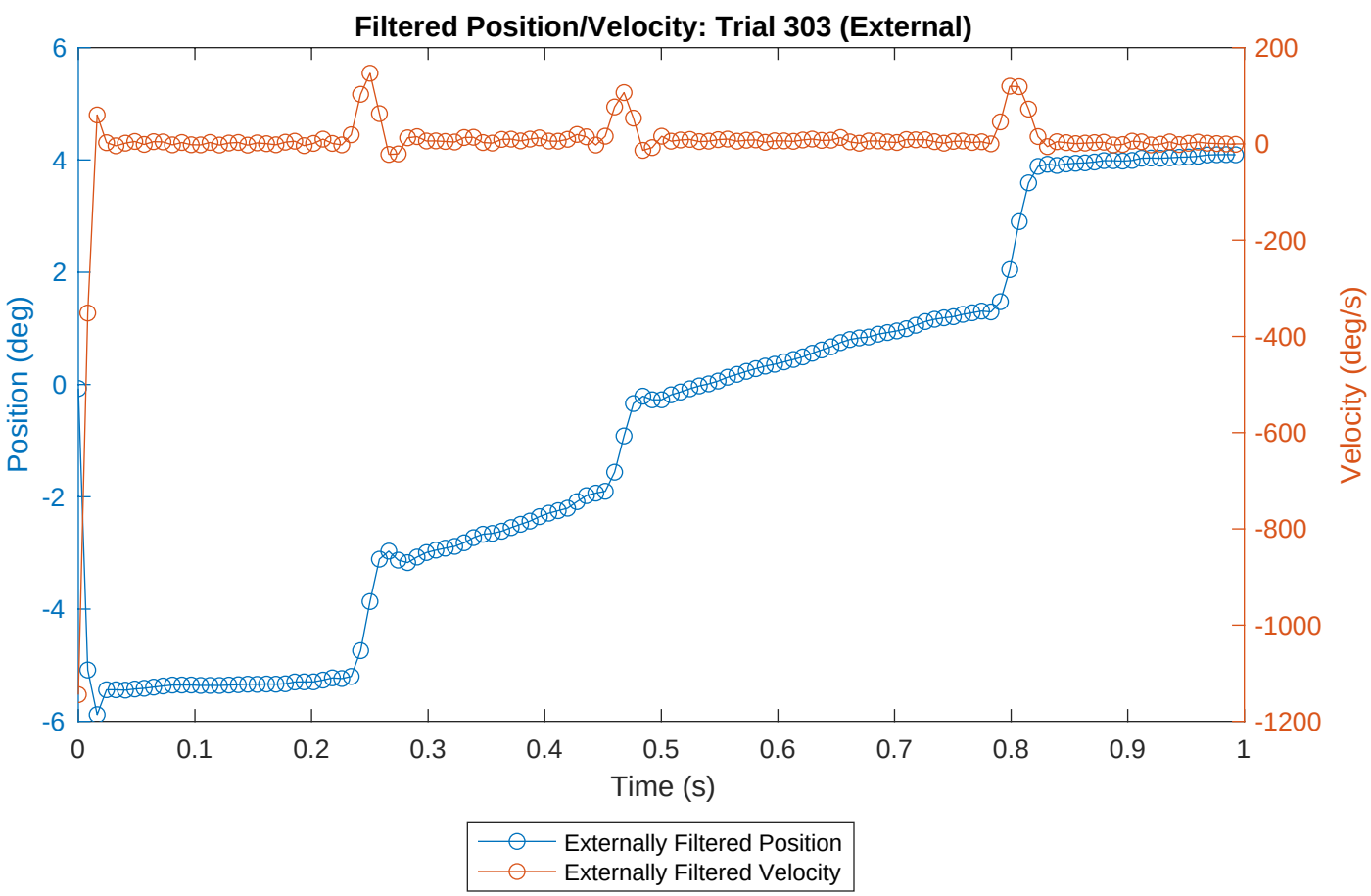

Position (deg)
Time (s)
0
-2
-4
-6
-8
-10
-12
-14
-16
0
0.1
0.2
0.3
0.4
0.5
0.6
0.7
0.8
0.9
1

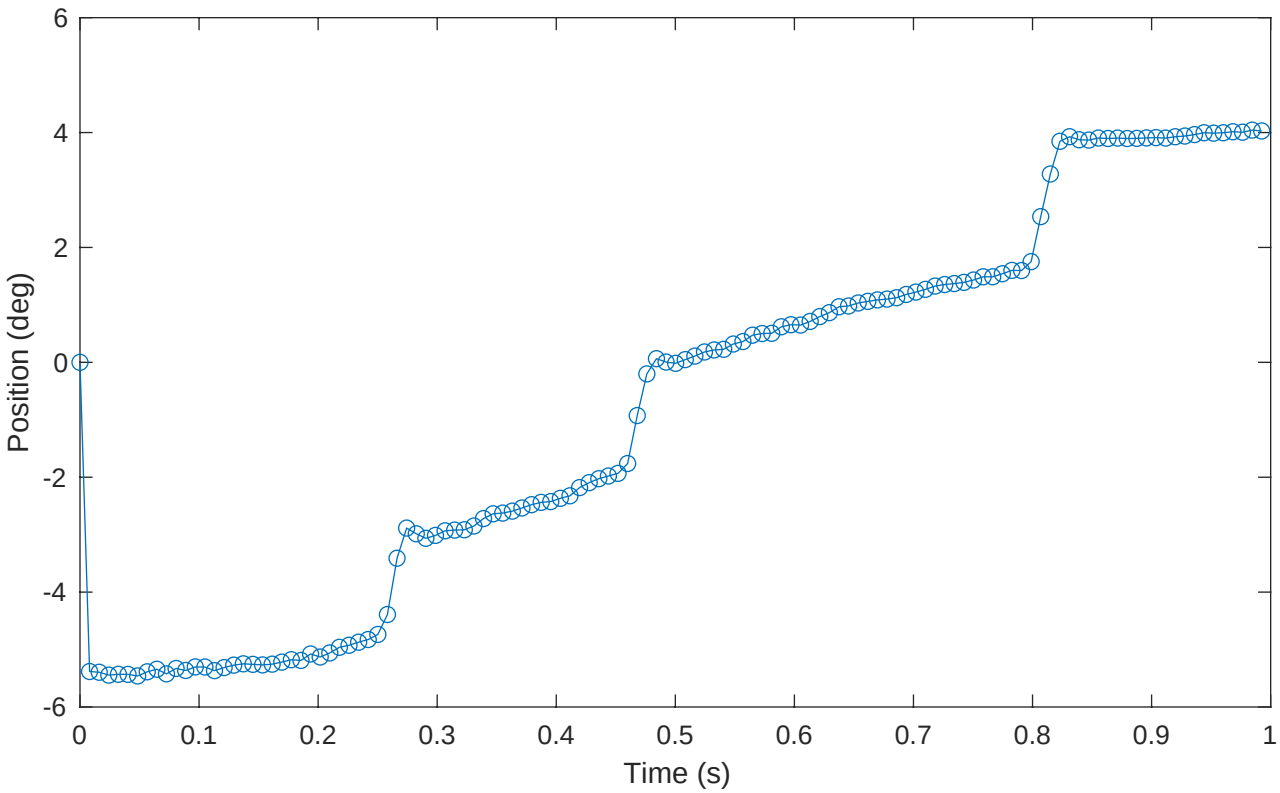

Filtered Position/Velocity: Trial 301 (External)
Position (deg)
Velocity (deg/s)
Time (s)
0
-2
-4
-6
-8
-10
-12
-14
-16
200
0
-200
-400
-600
-800
-1000
-1200
0
0.1
0.2
0.3
0.4
0.5
0.6
0.7
0.8
0.9
1
Externally Filtered Position
Externally Filtered Velocity

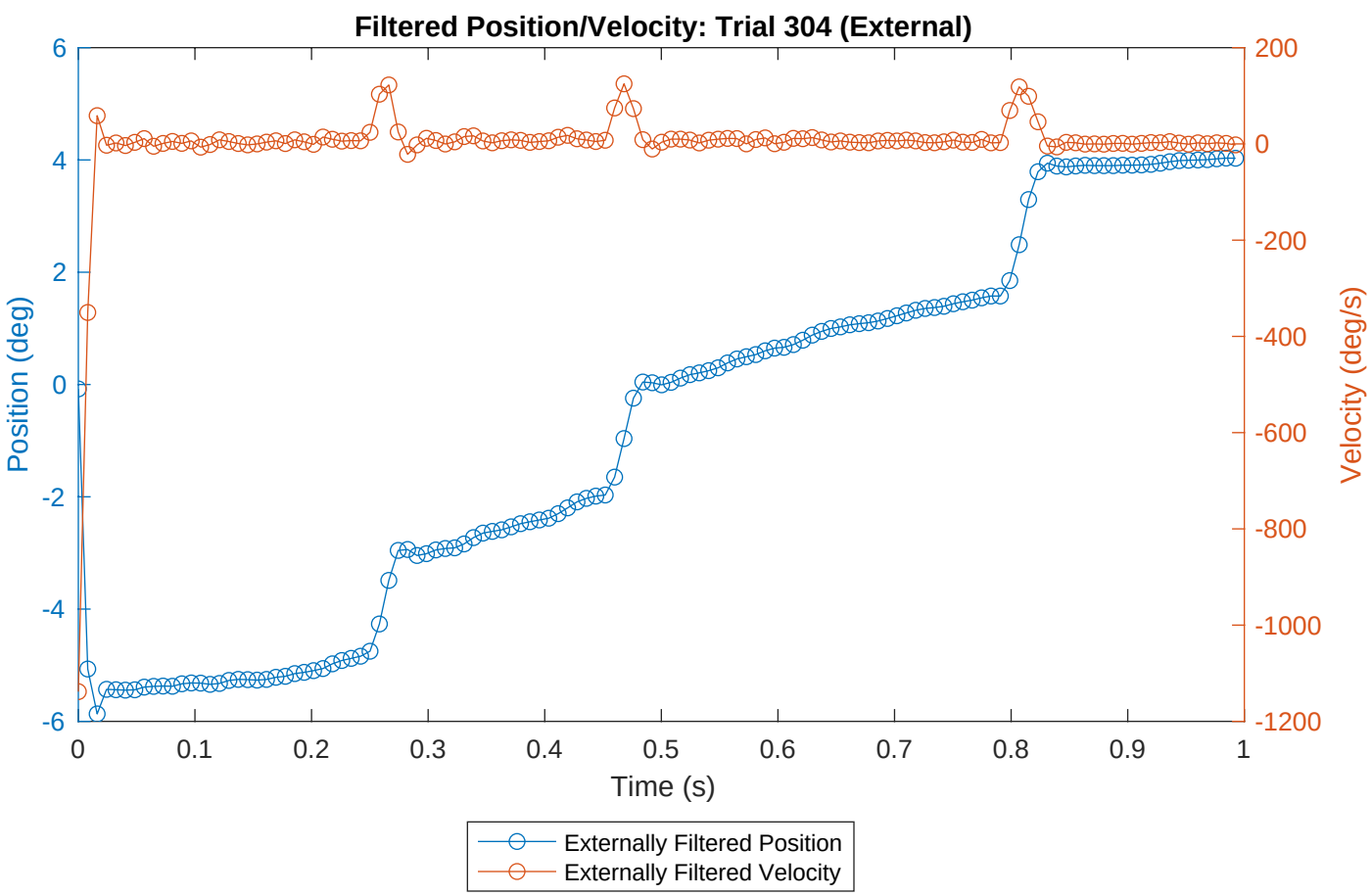

0
-5
-10
-15
Position (deg)
0
0.1
0.2
0.3
0.4
0.5
0.6
0.7
0.8
0.9
1
Time (s)

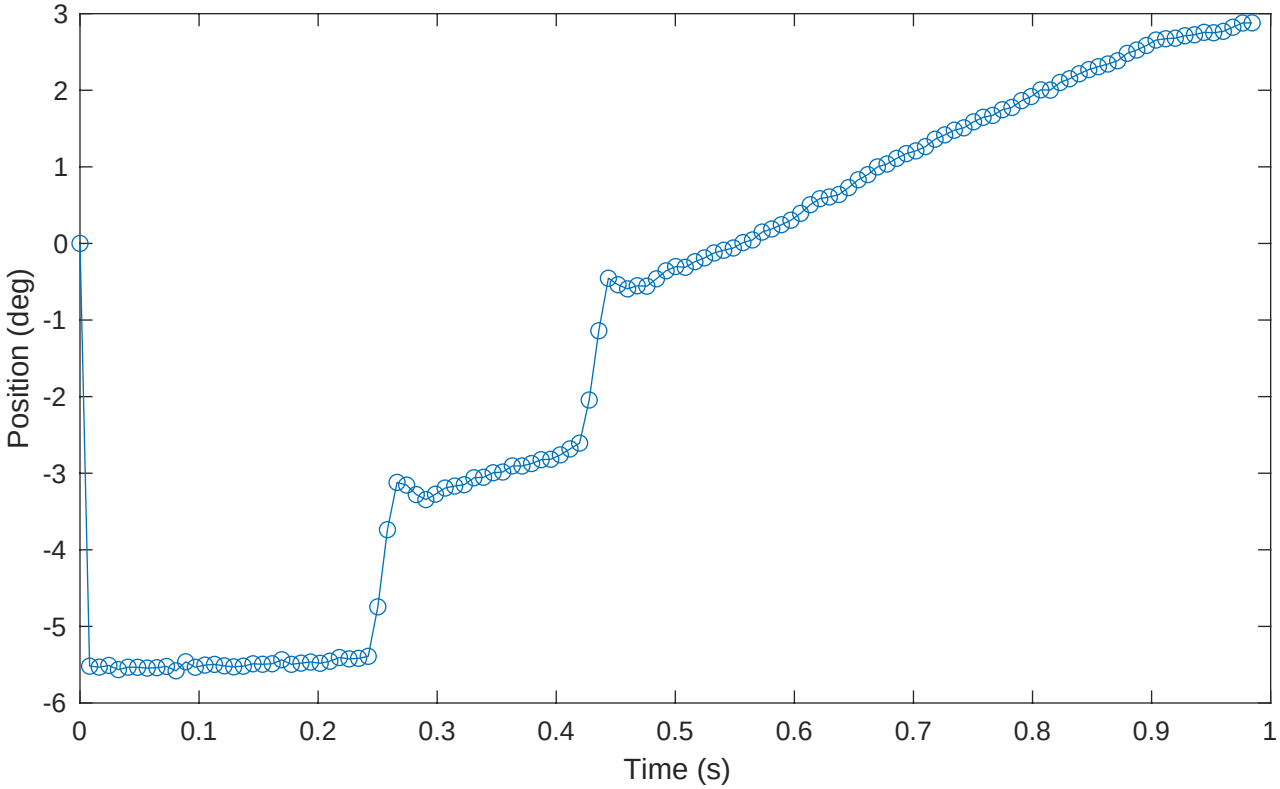

Filtered Position/Velocity: Trial 302 (External)
0
-5
-10
-15
Position (deg)
200
0
-200
-400
-600
-800
-1000
-1200
Velocity (deg/s)
0
0.1
0.2
0.3
0.4
0.5
0.6
0.7
0.8
0.9
1
Time (s)
Externally Filtered Position
Externally Filtered Velocity

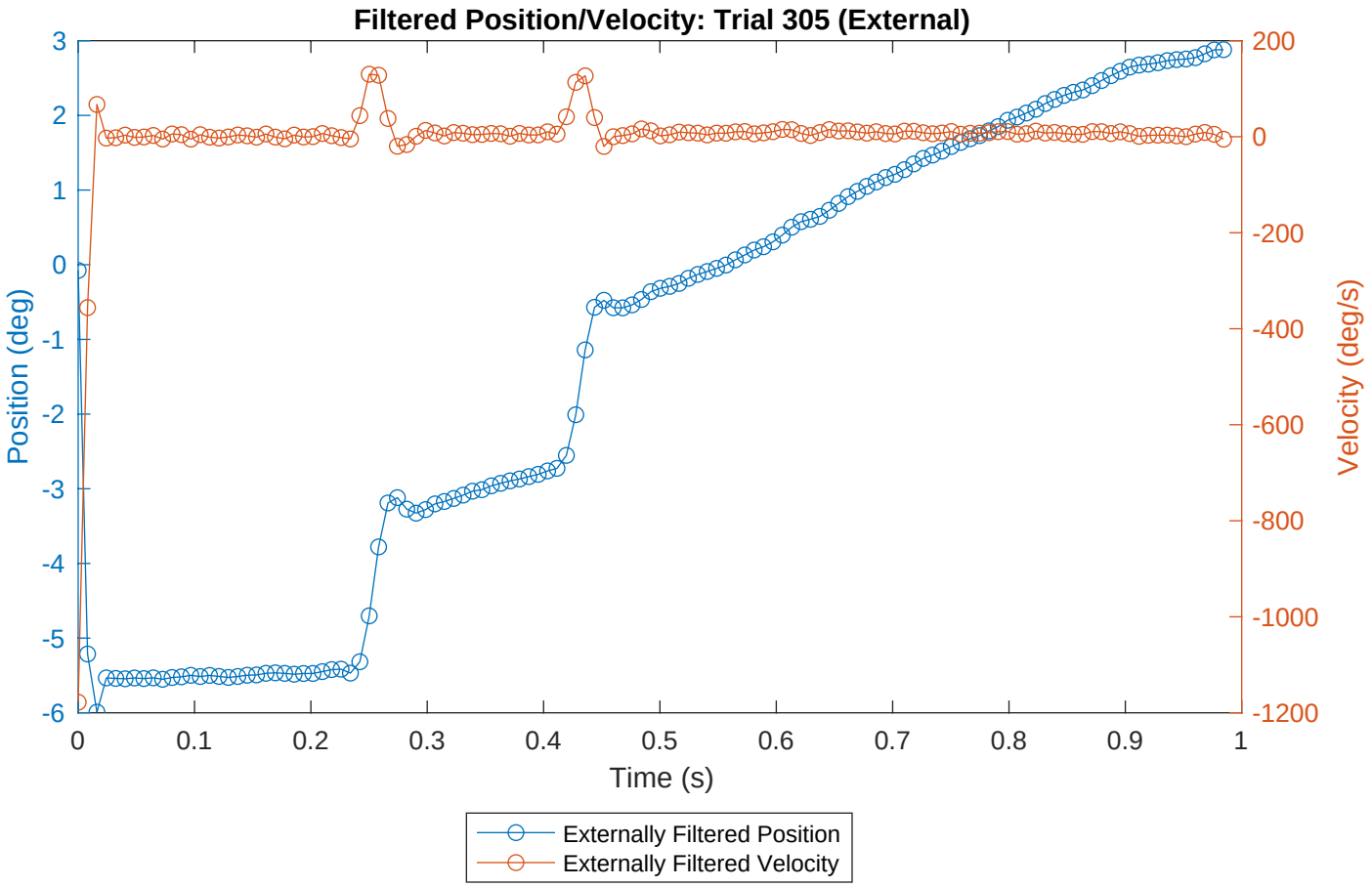

Position (deg)
Time (s)

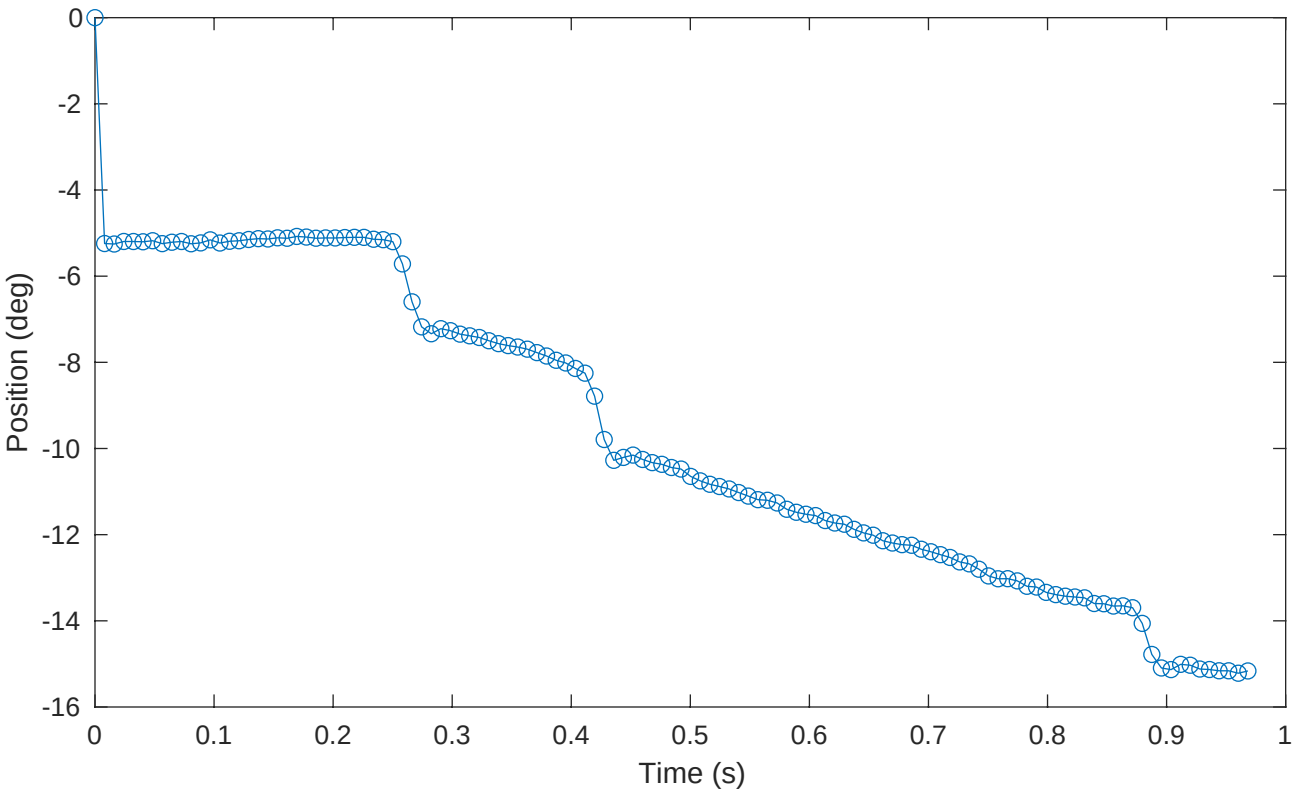

Filtered Position/Velocity: Trial 303 (External)
Position (deg)
Velocity (deg/s)
Time (s)
Externally Filtered Position
Externally Filtered Velocity

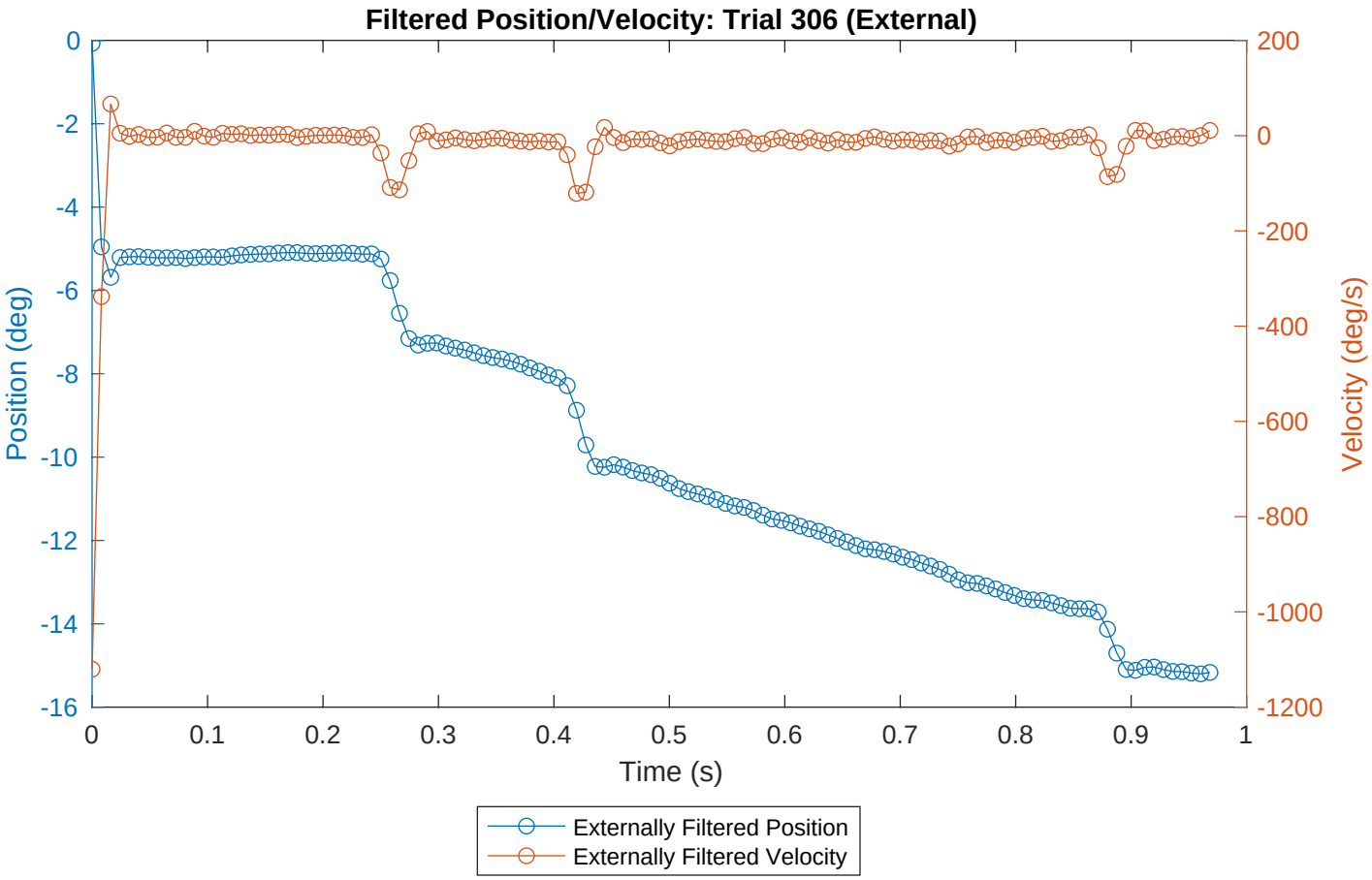

Position (deg)
Time (s)
6
4
2
0
-2
-4
-6
0
0.1
0.2
0.3
0.4
0.5
0.6
0.7
0.8
0.9
1

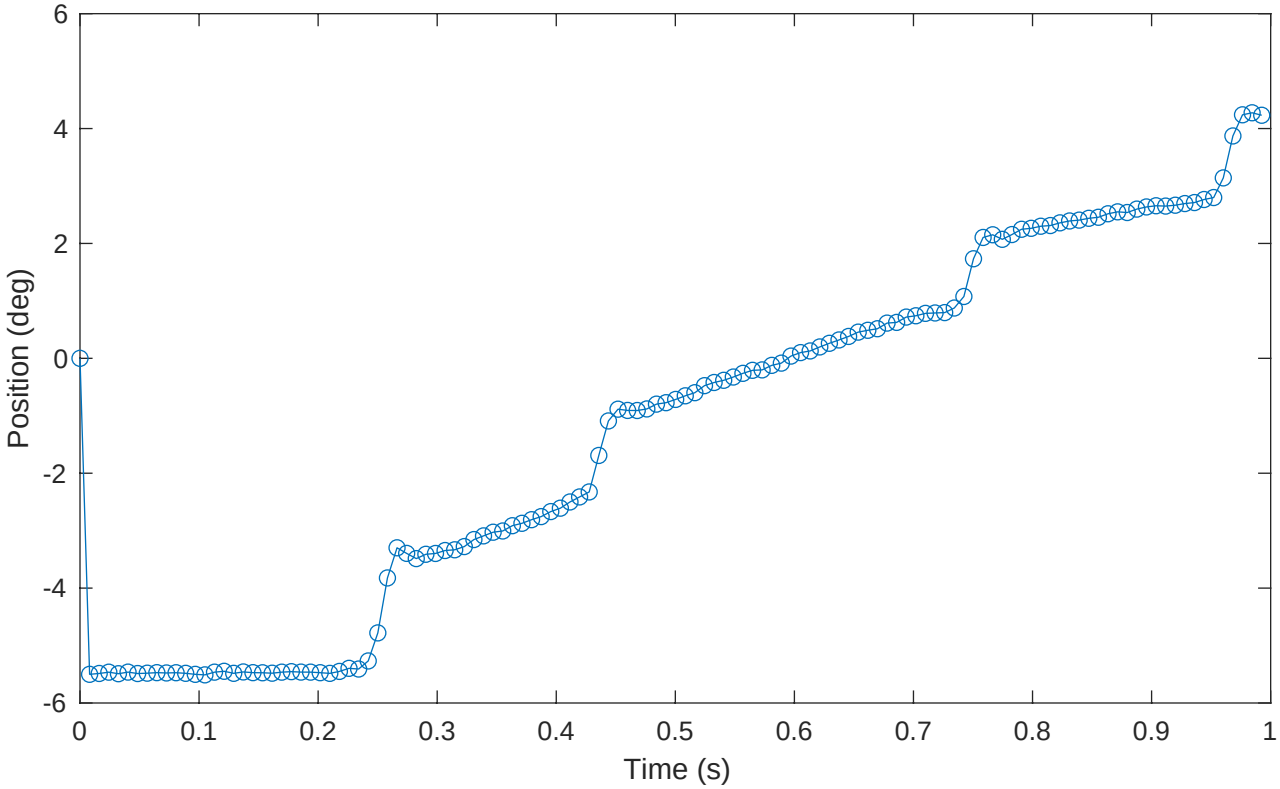

Filtered Position/Velocity: Trial 304 (External)
Position (deg)
Velocity (deg/s)
Time (s)
6
4
2
0
-2
-4
-6
200
0
-200
-400
-600
-800
-1000
-1200
0
0.1
0.2
0.3
0.4
0.5
0.6
0.7
0.8
0.9
1
Externally Filtered Position
Externally Filtered Velocity

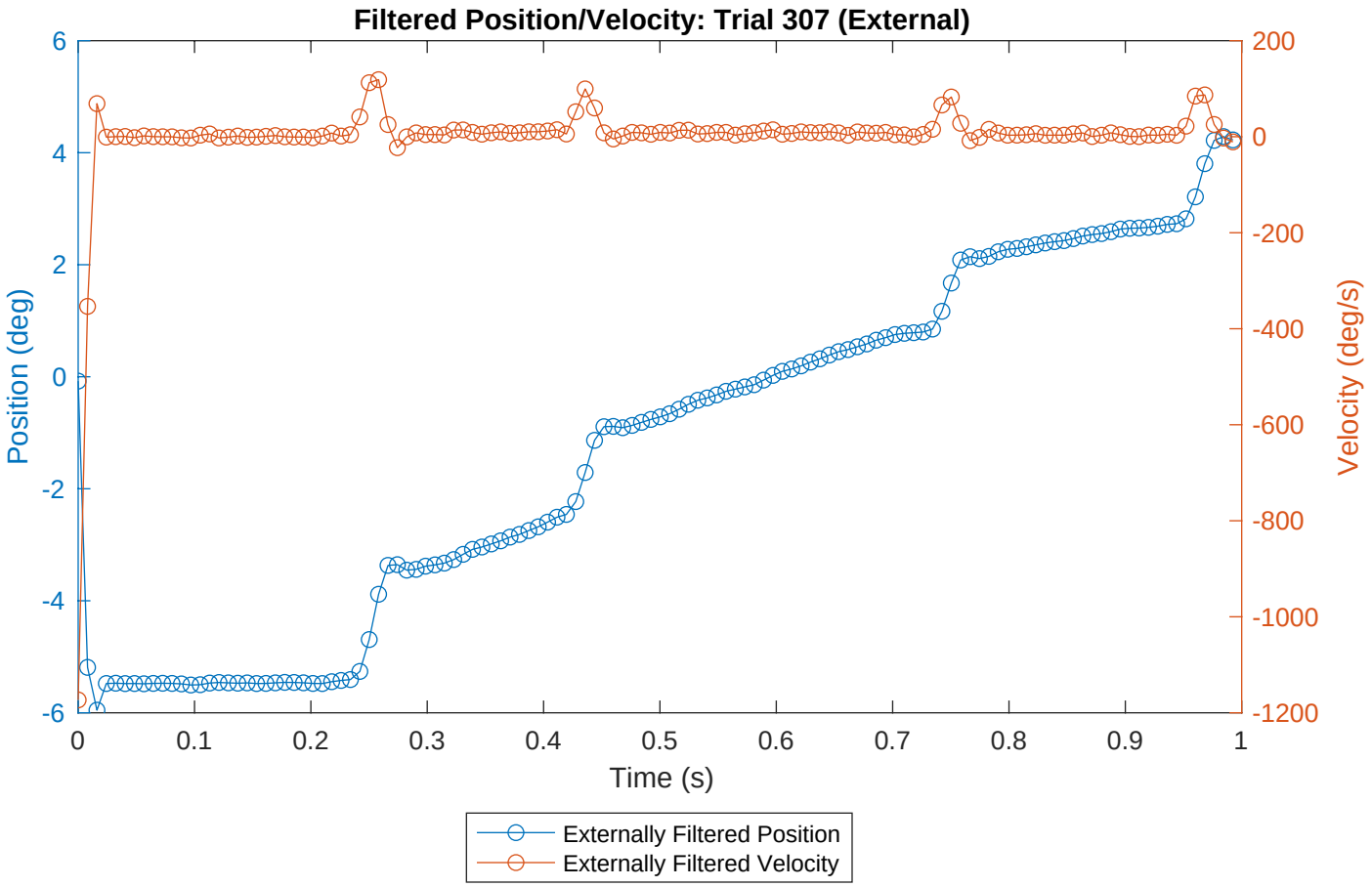

Position (deg)
Time (s)

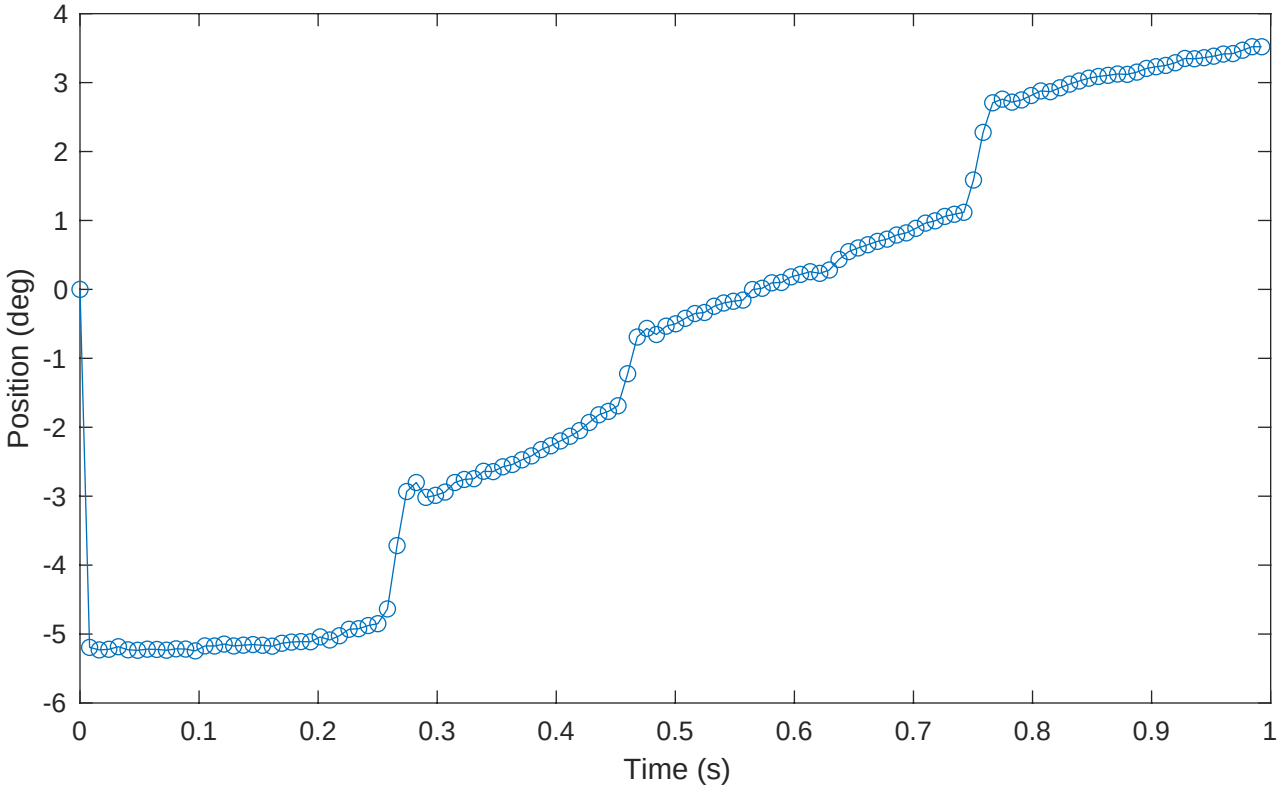

Filtered Position/Velocity: Trial 305 (External)
Position (deg)
Velocity (deg/s)
Time (s)
Externally Filtered Position
Externally Filtered Velocity

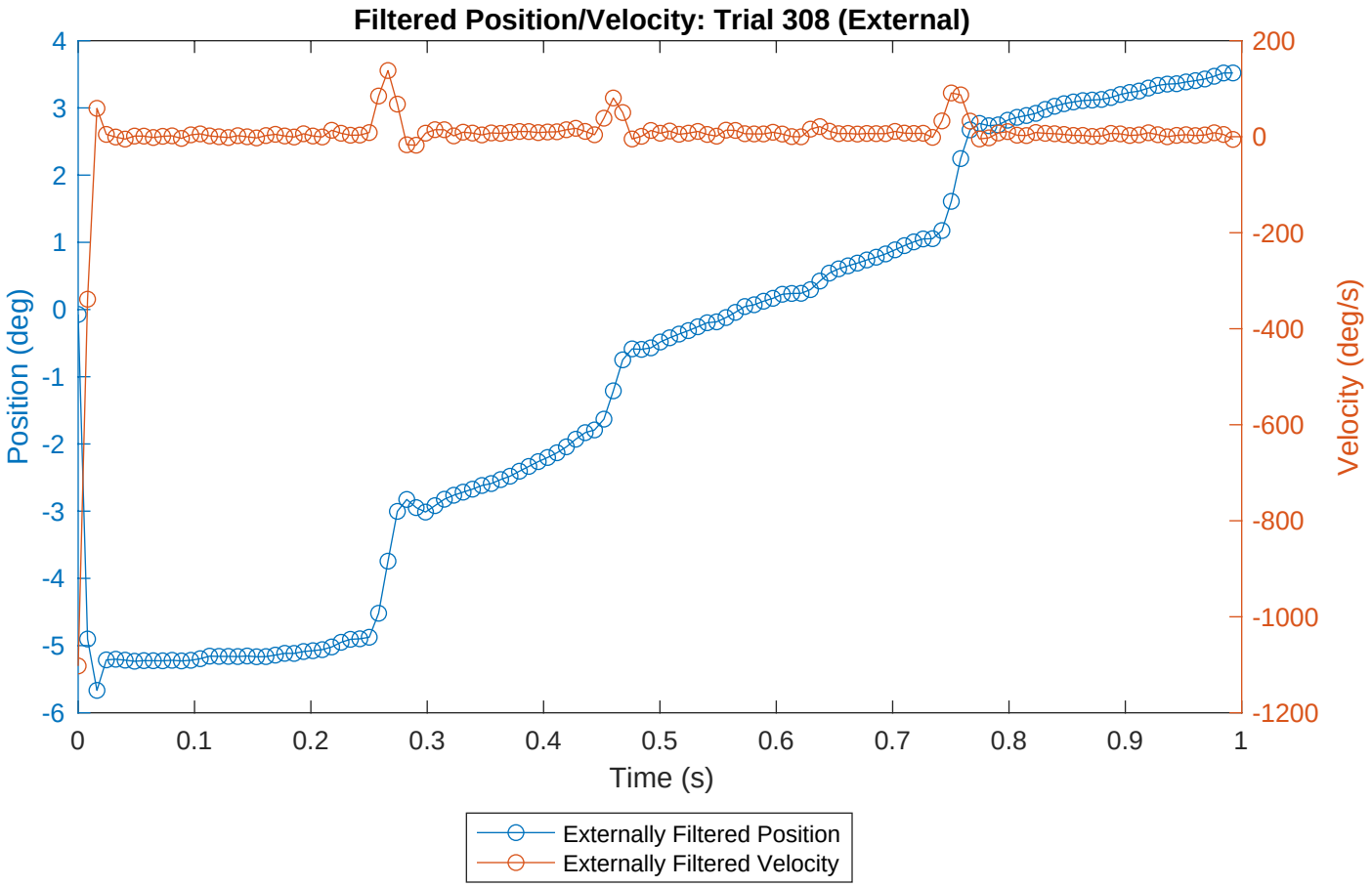

Position (deg)
Time (s)

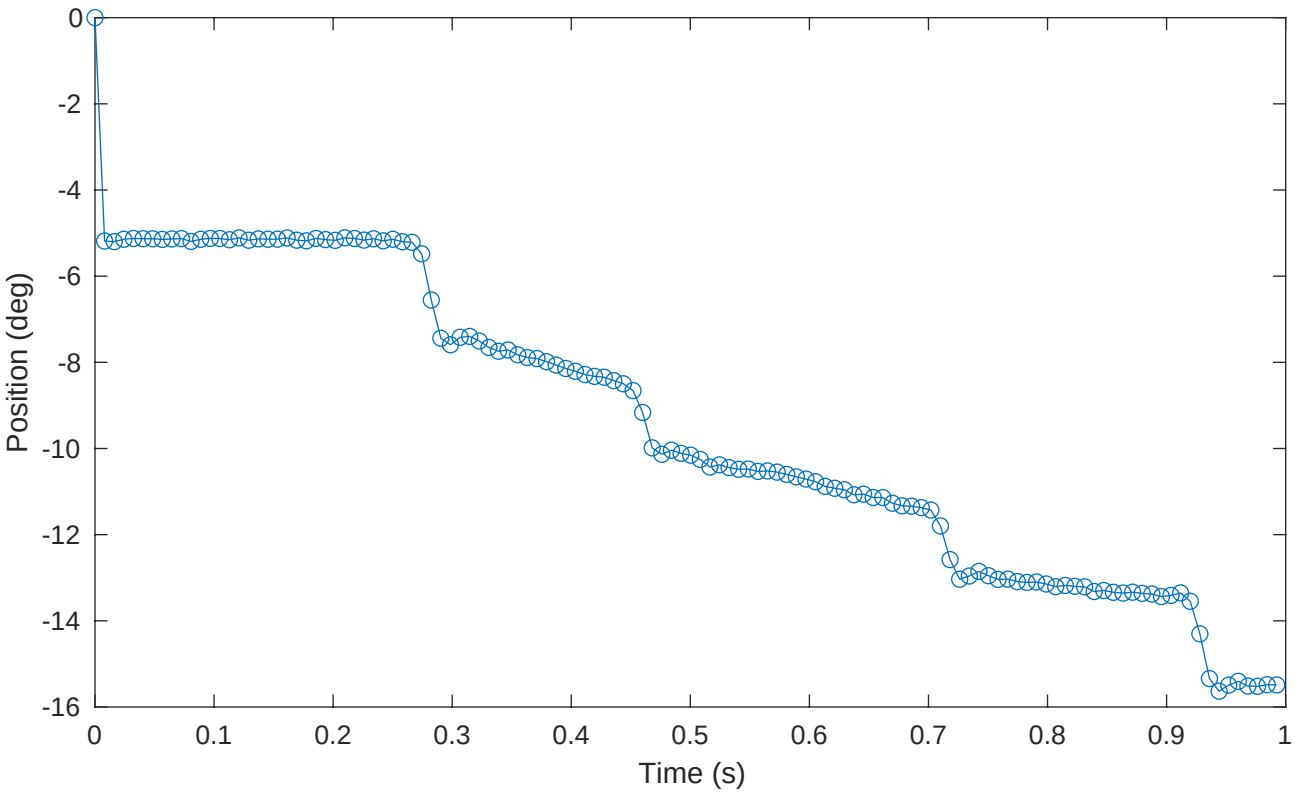

Filtered Position/Velocity: Trial 306 (External)
Position (deg)
Velocity (deg/s)
Time (s)
Externally Filtered Position
Externally Filtered Velocity

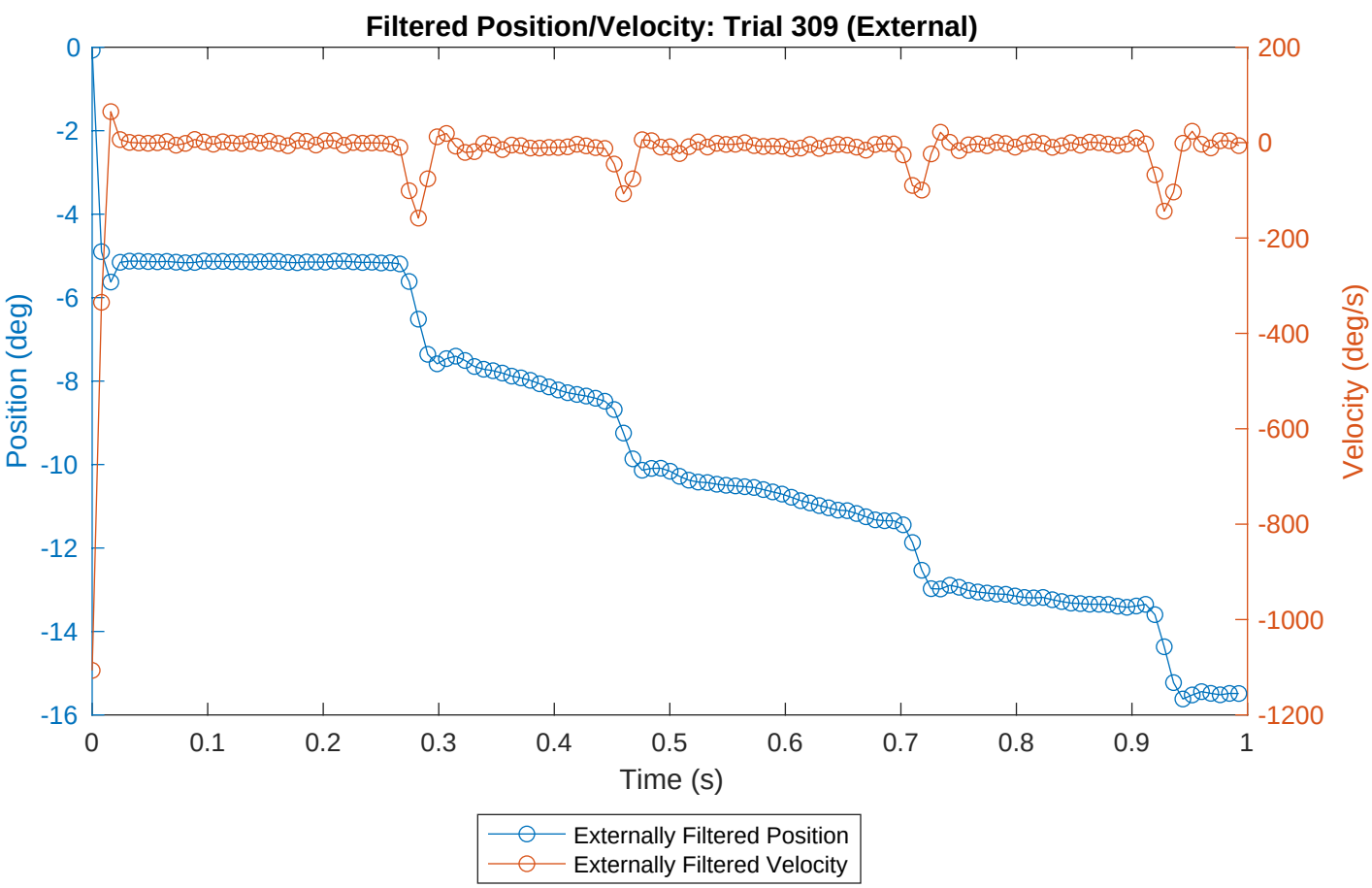

Position (deg)
Time (s)

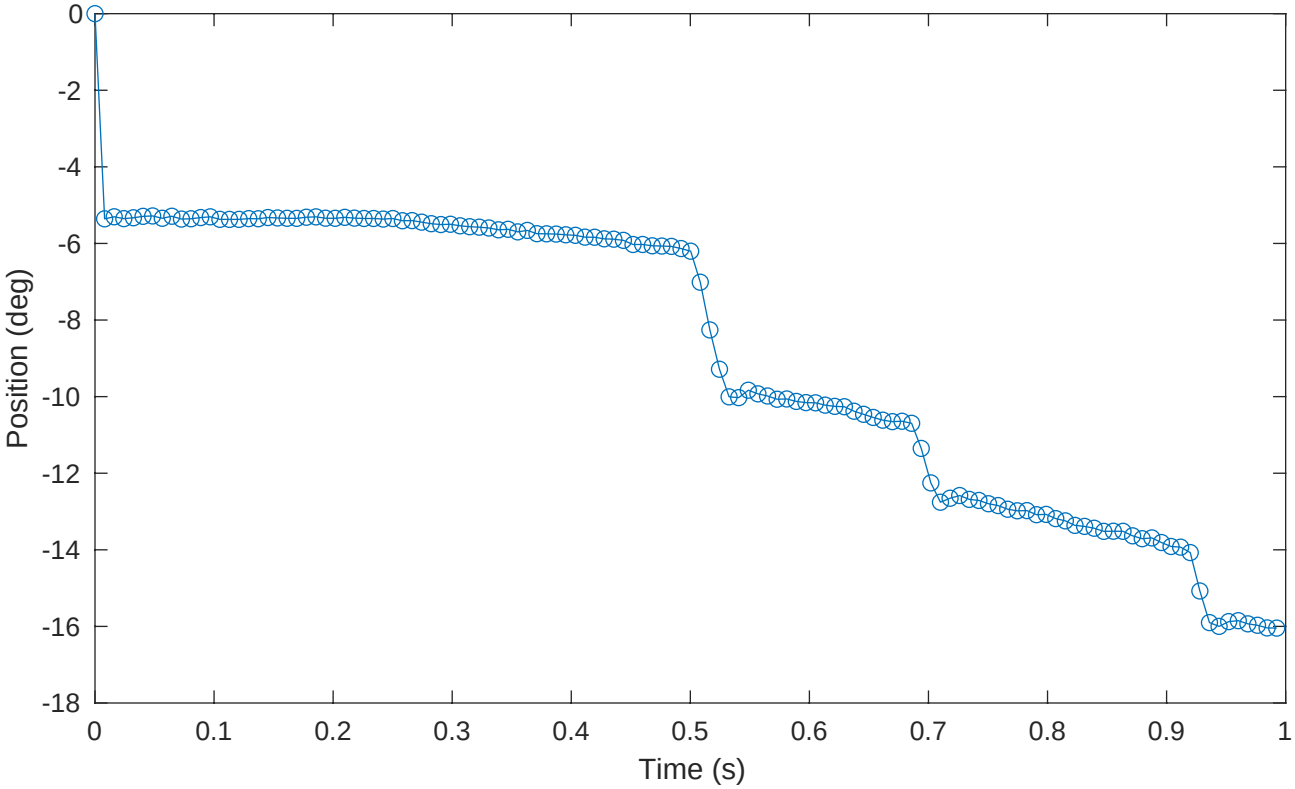

Filtered Position/Velocity: Trial 307 (External)
Position (deg)
Velocity (deg/s)
Time (s)
Externally Filtered Position
Externally Filtered Velocity

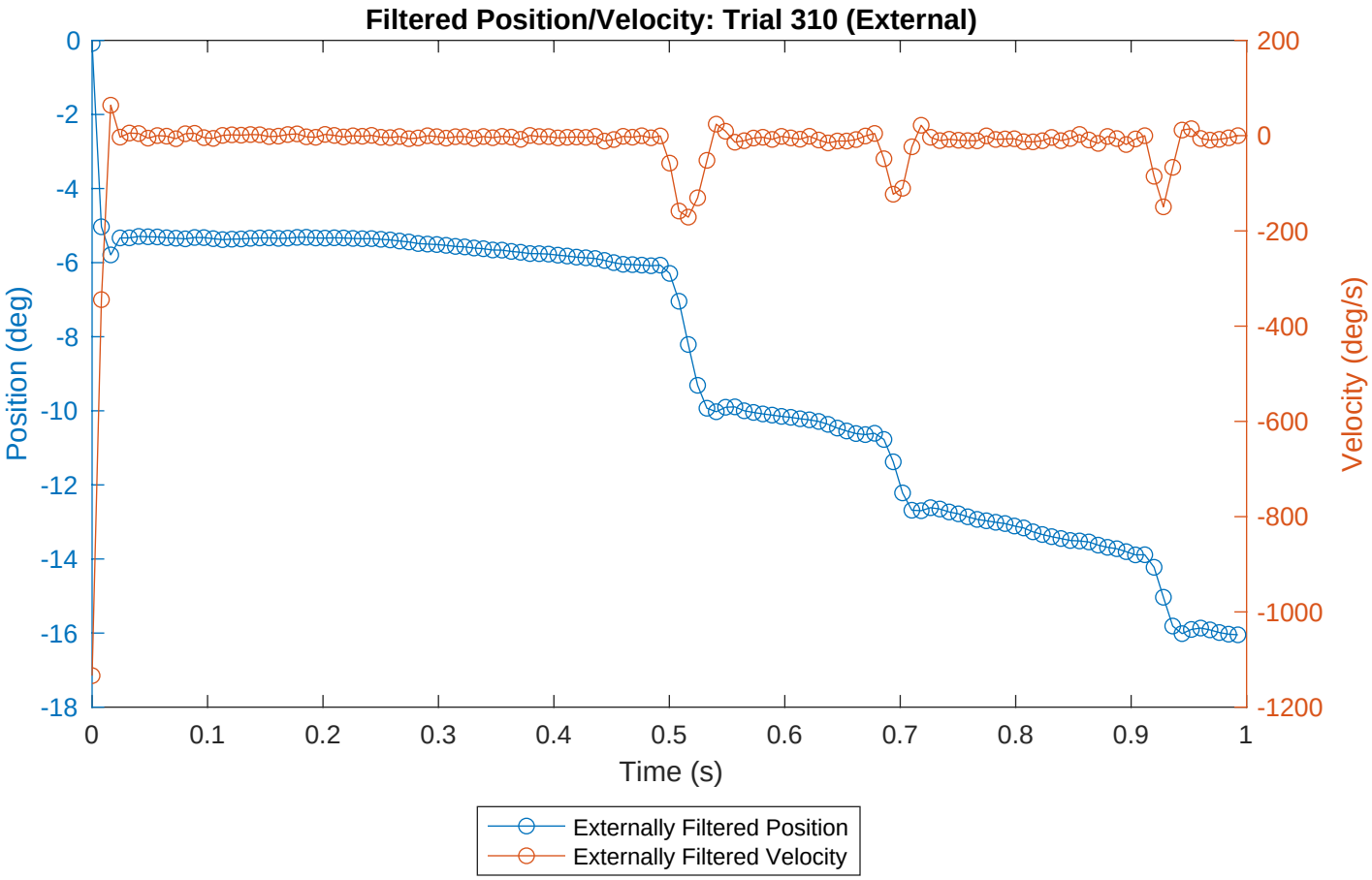

Position (deg)
Time (s)

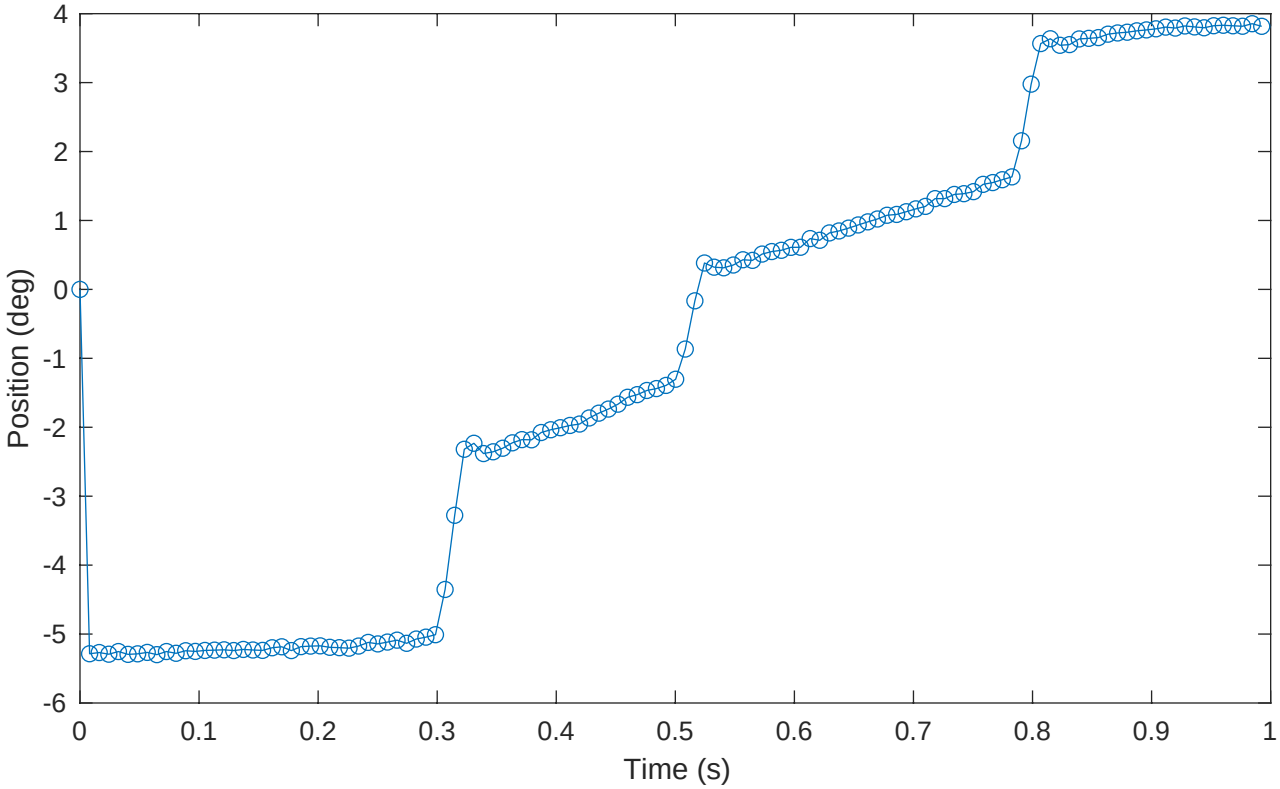

Filtered Position/Velocity: Trial 308 (External)
Position (deg)
Velocity (deg/s)
Time (s)
Externally Filtered Position
Externally Filtered Velocity

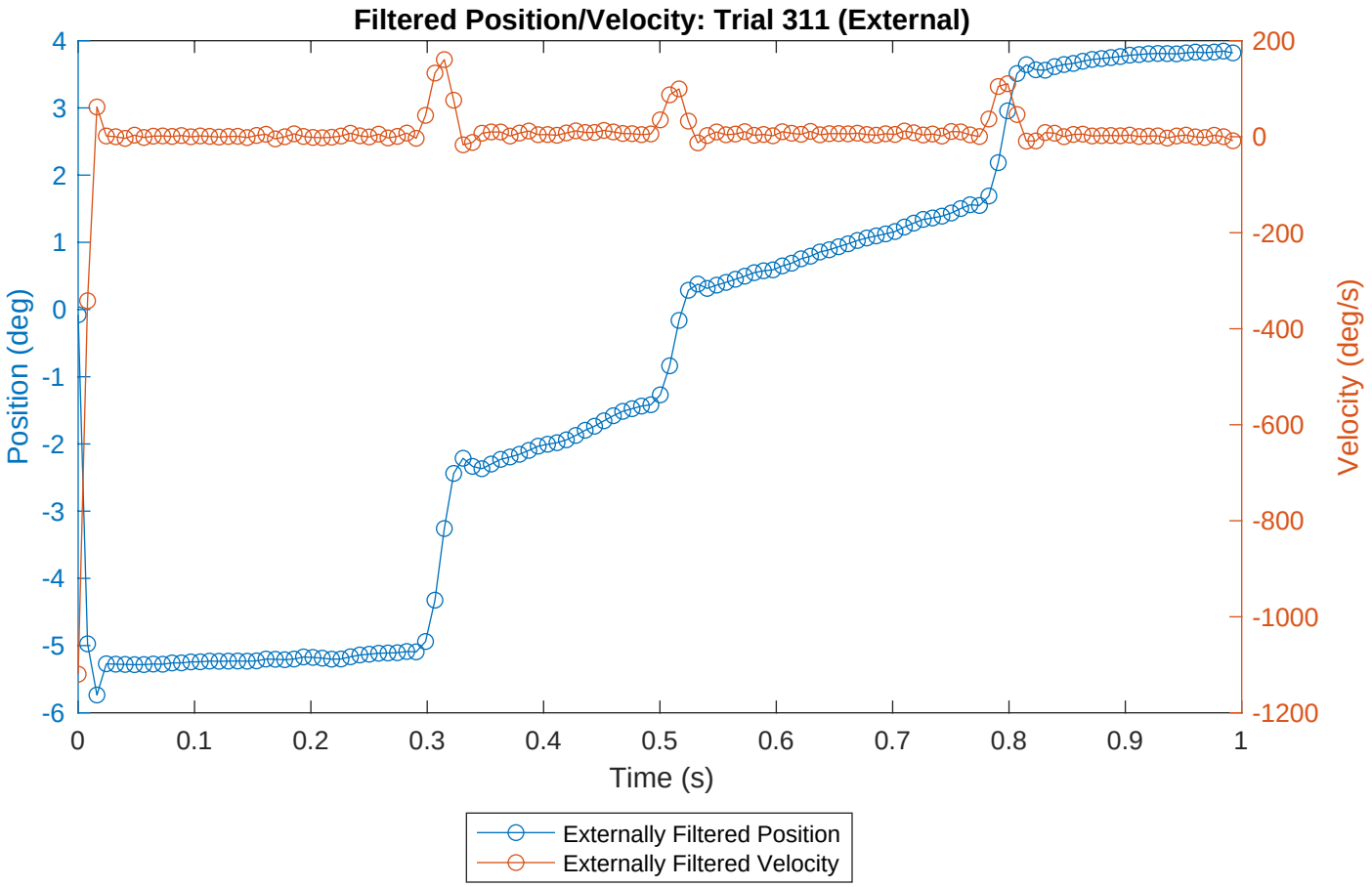

Position (deg)
Time (s)
0
-2
-4
-6
-8
-10
-12
-14
-16
0
0.1
0.2
0.3
0.4
0.5
0.6
0.7
0.8
0.9
1

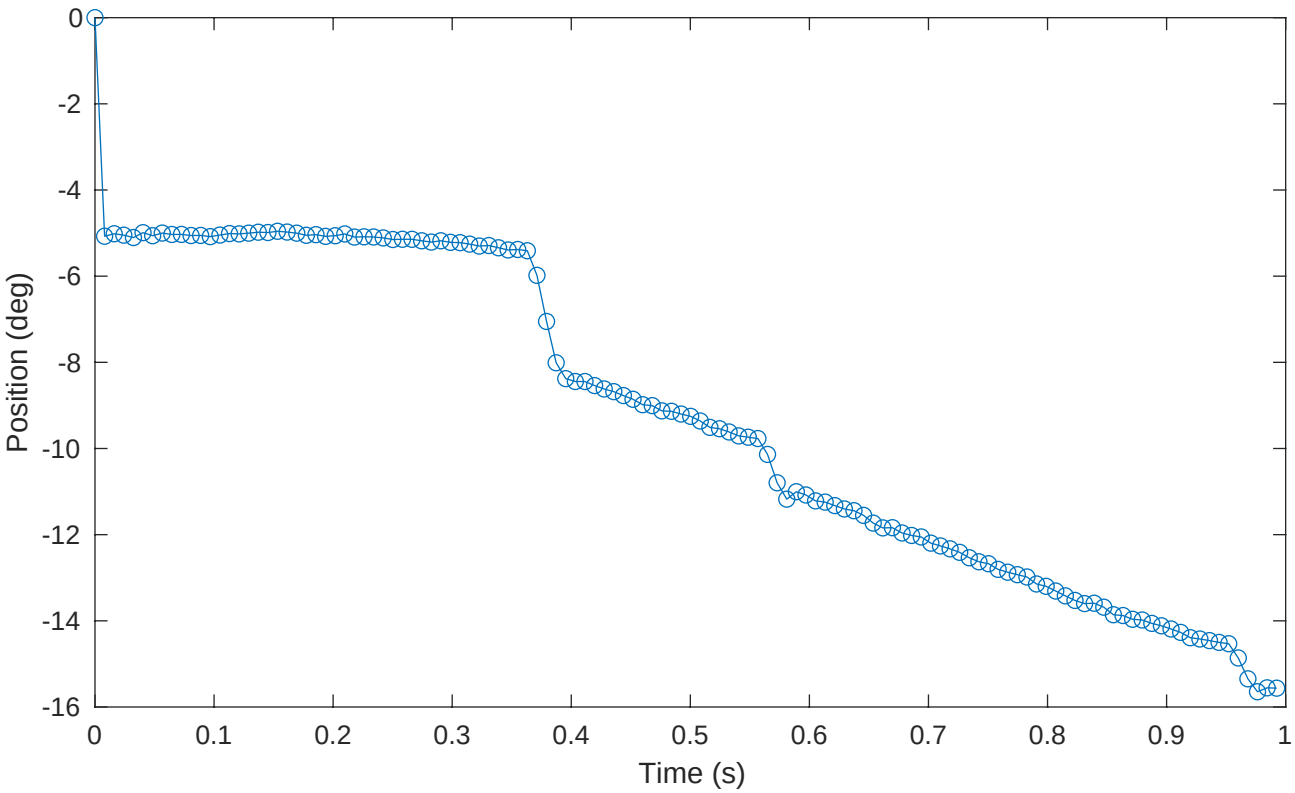

Filtered Position/Velocity: Trial 309 (External)
Position (deg)
Velocity (deg/s)
Time (s)
0
-2
-4
-6
-8
-10
-12
-14
-16
200
0
-200
-400
-600
-800
-1000
-1200
0
0.1
0.2
0.3
0.4
0.5
0.6
0.7
0.8
0.9
1
Externally Filtered Position
Externally Filtered Velocity

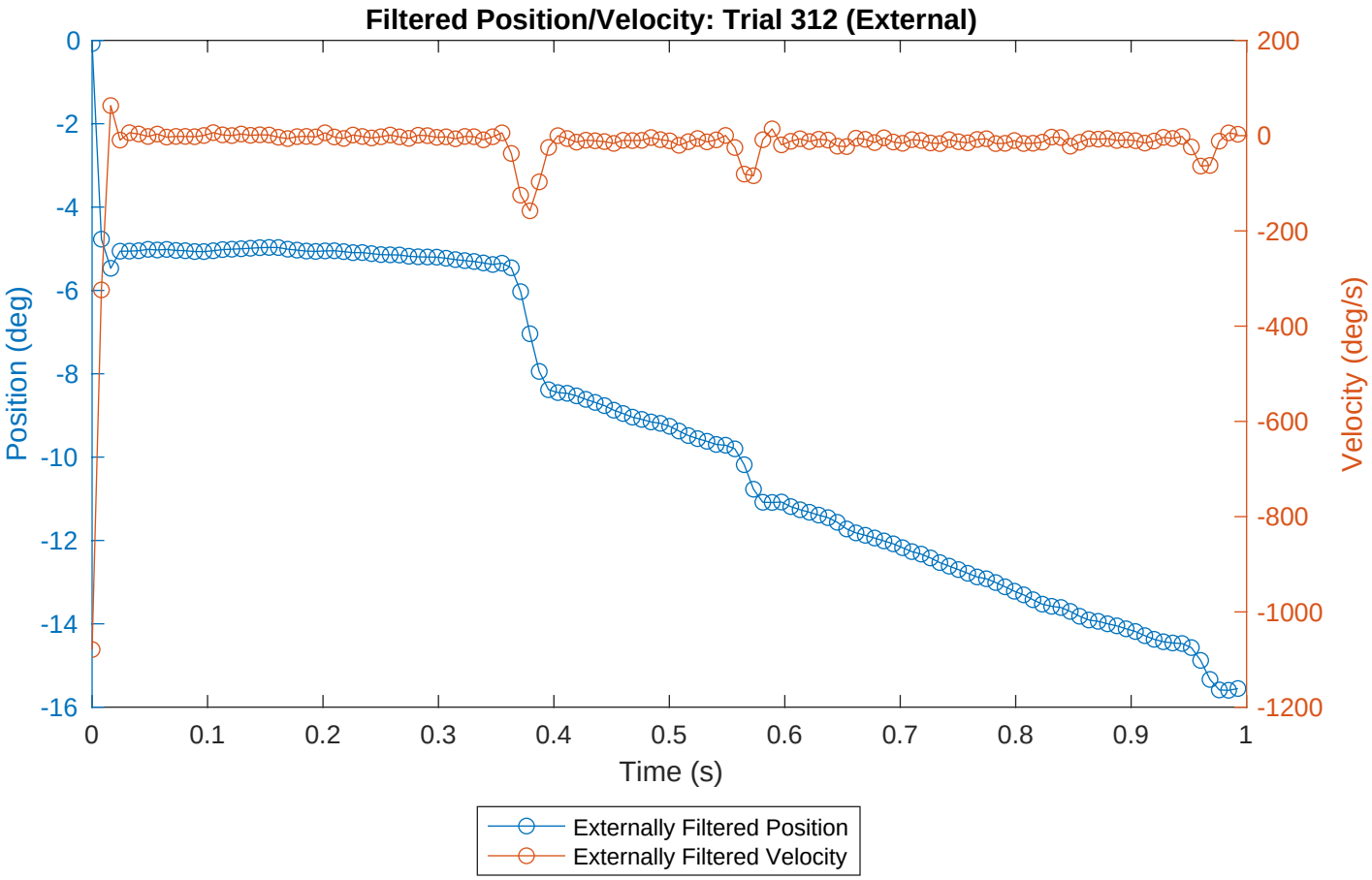

Position (deg)
Time (s)

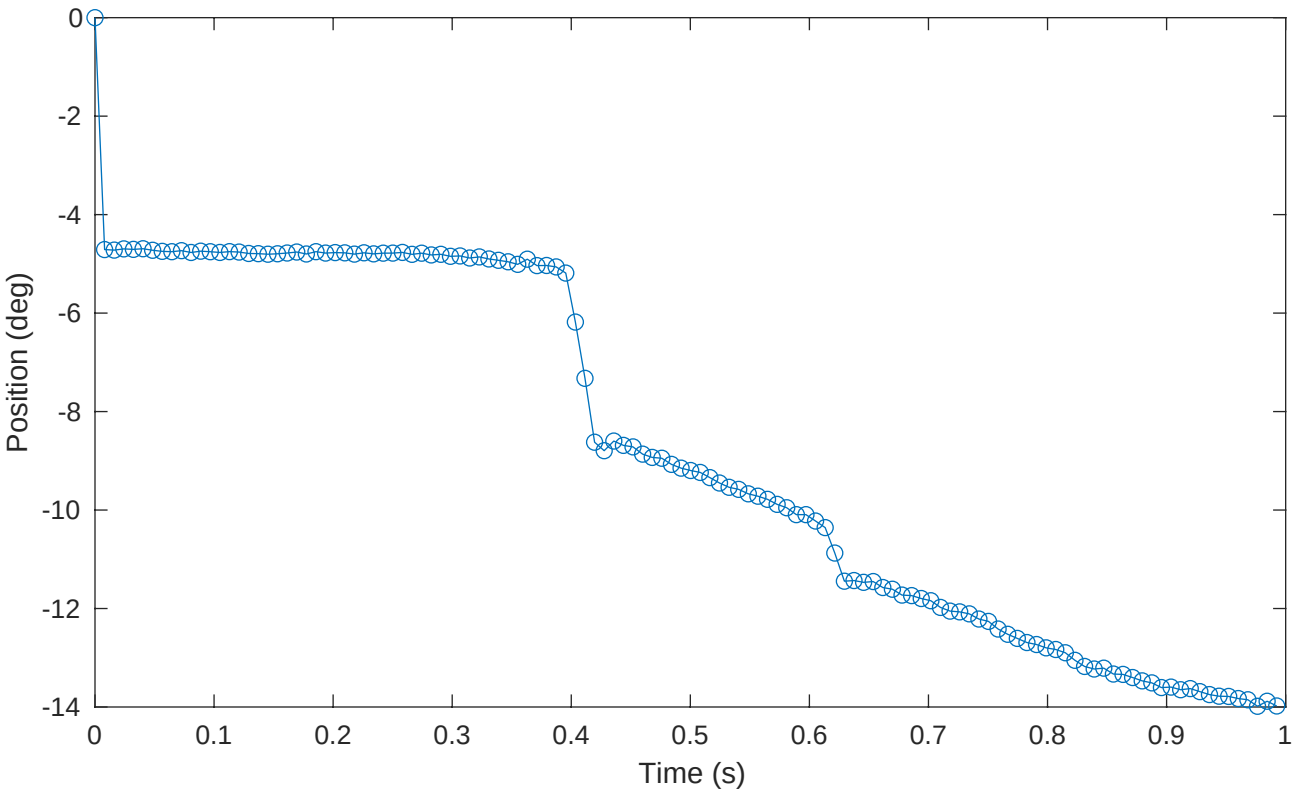

Filtered Position/Velocity: Trial 310 (External)
Position (deg)
Velocity (deg/s)
Time (s)
Externally Filtered Position
Externally Filtered Velocity

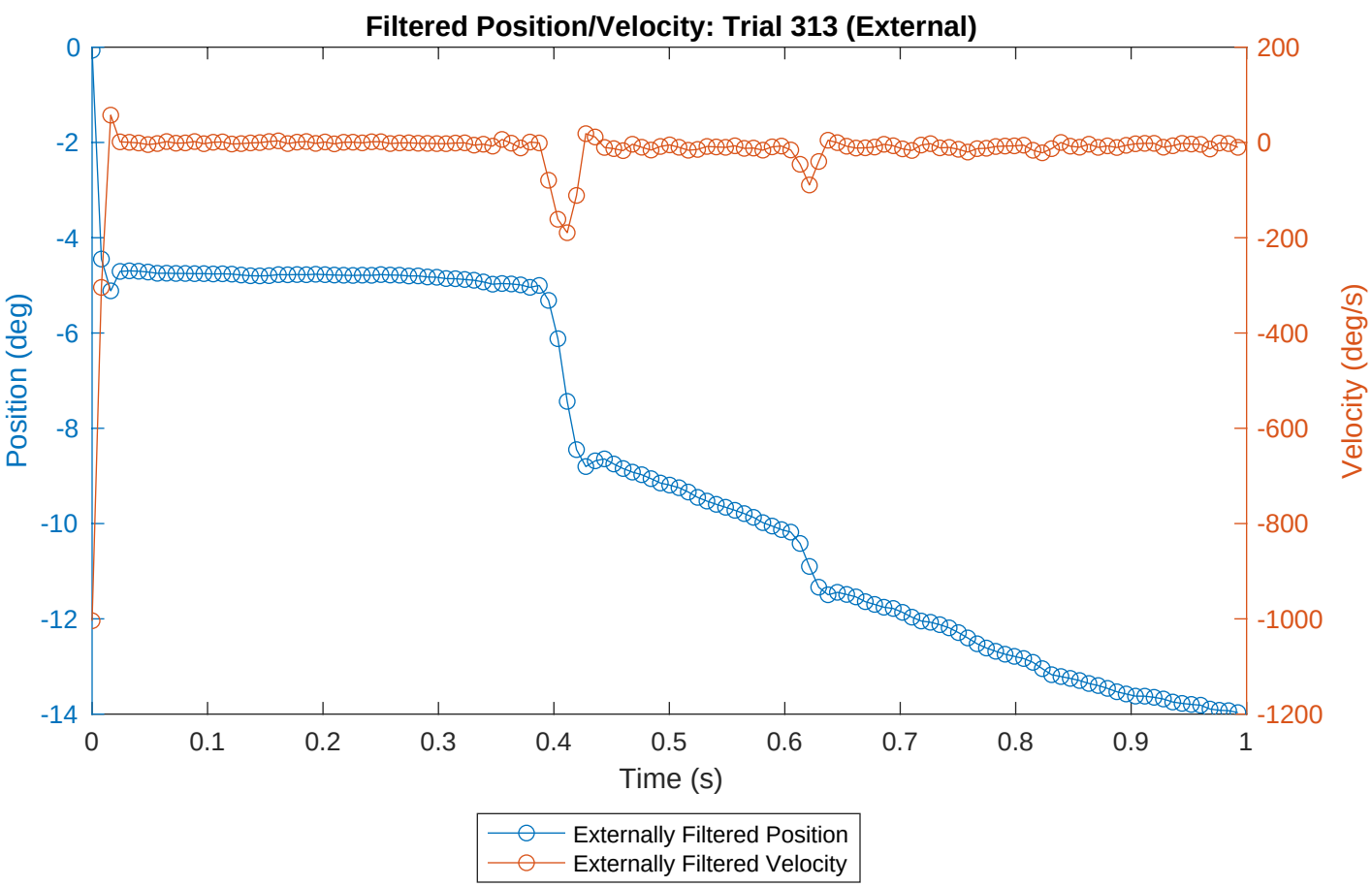

Position (deg)
Time (s)

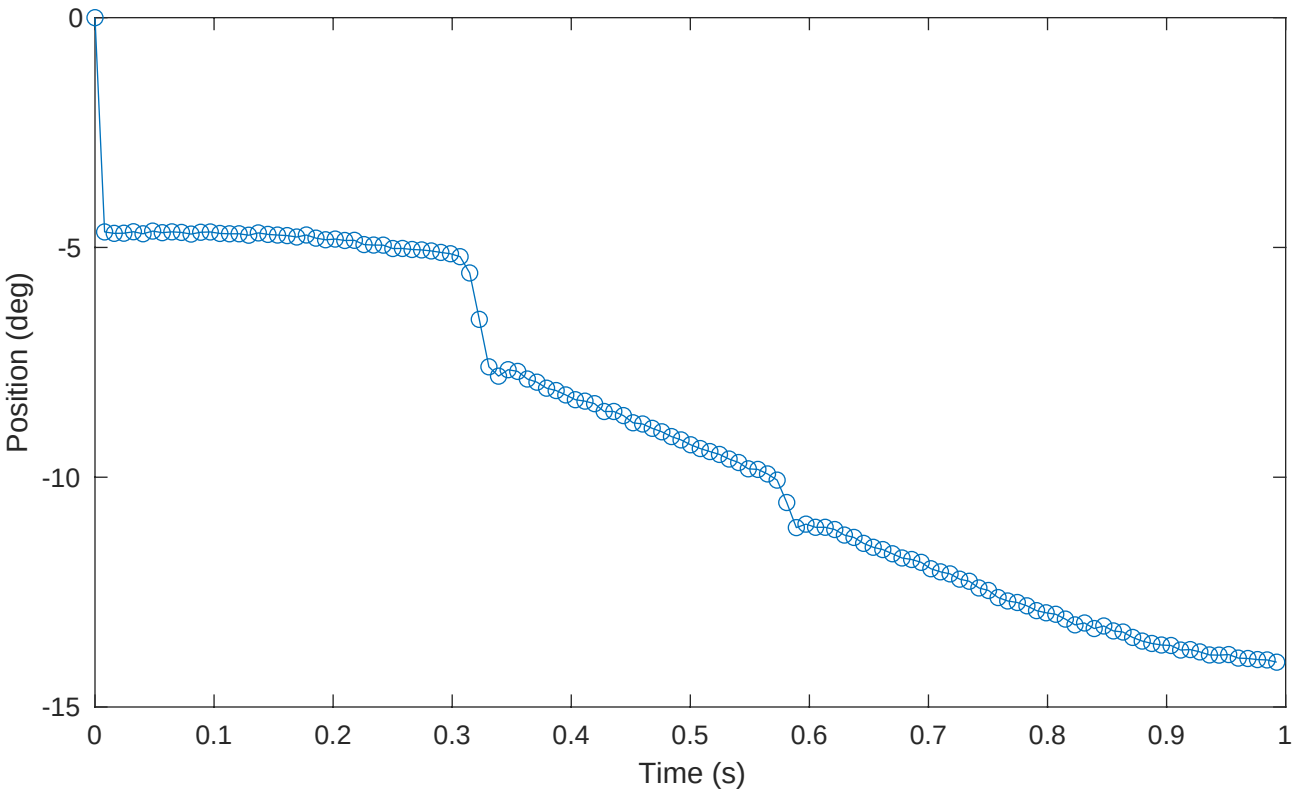

Filtered Position/Velocity: Trial 311 (External)
Position (deg)
Velocity (deg/s)
Time (s)
Externally Filtered Position
Externally Filtered Velocity

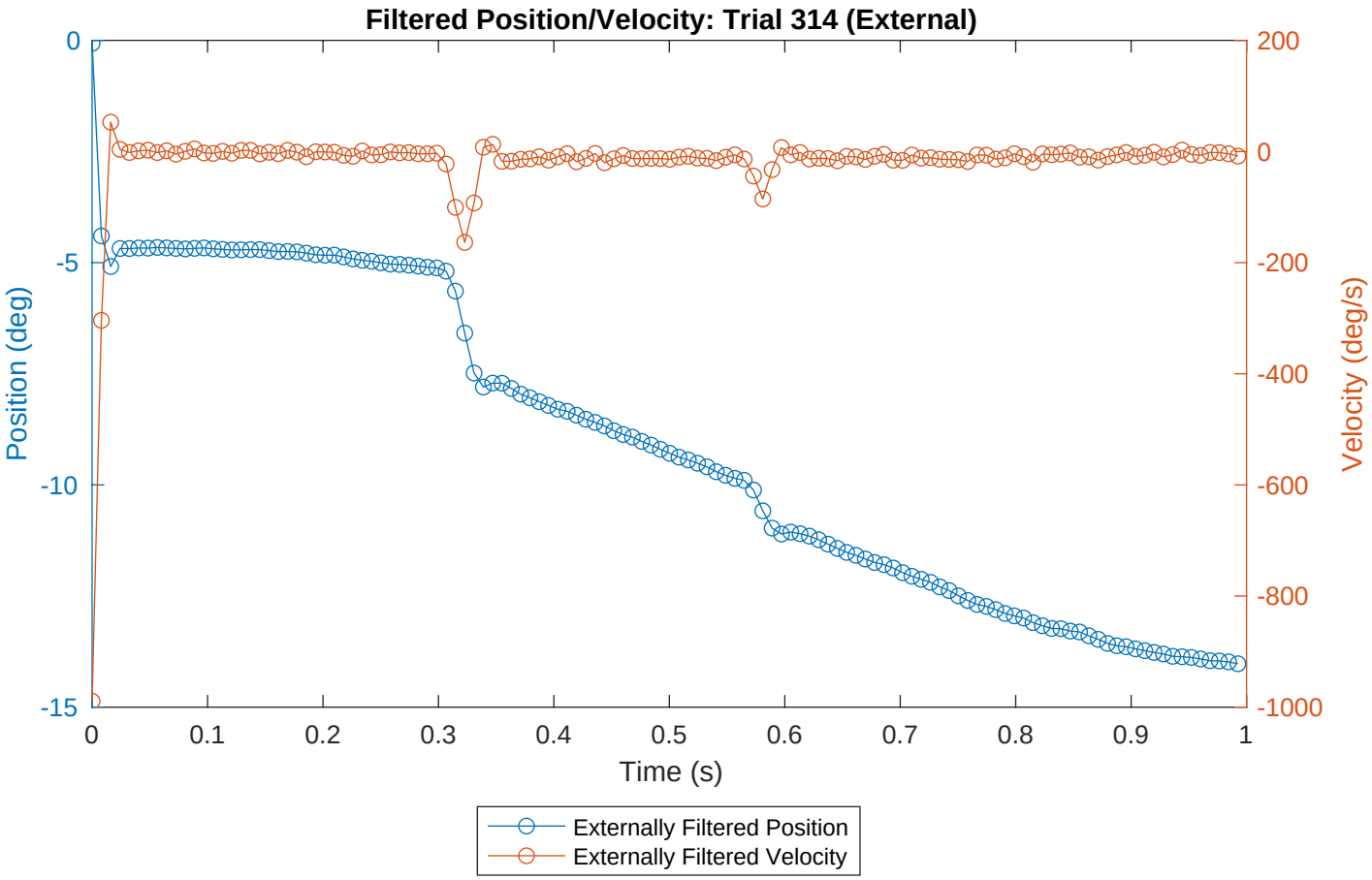

Position (deg)
Time (s)

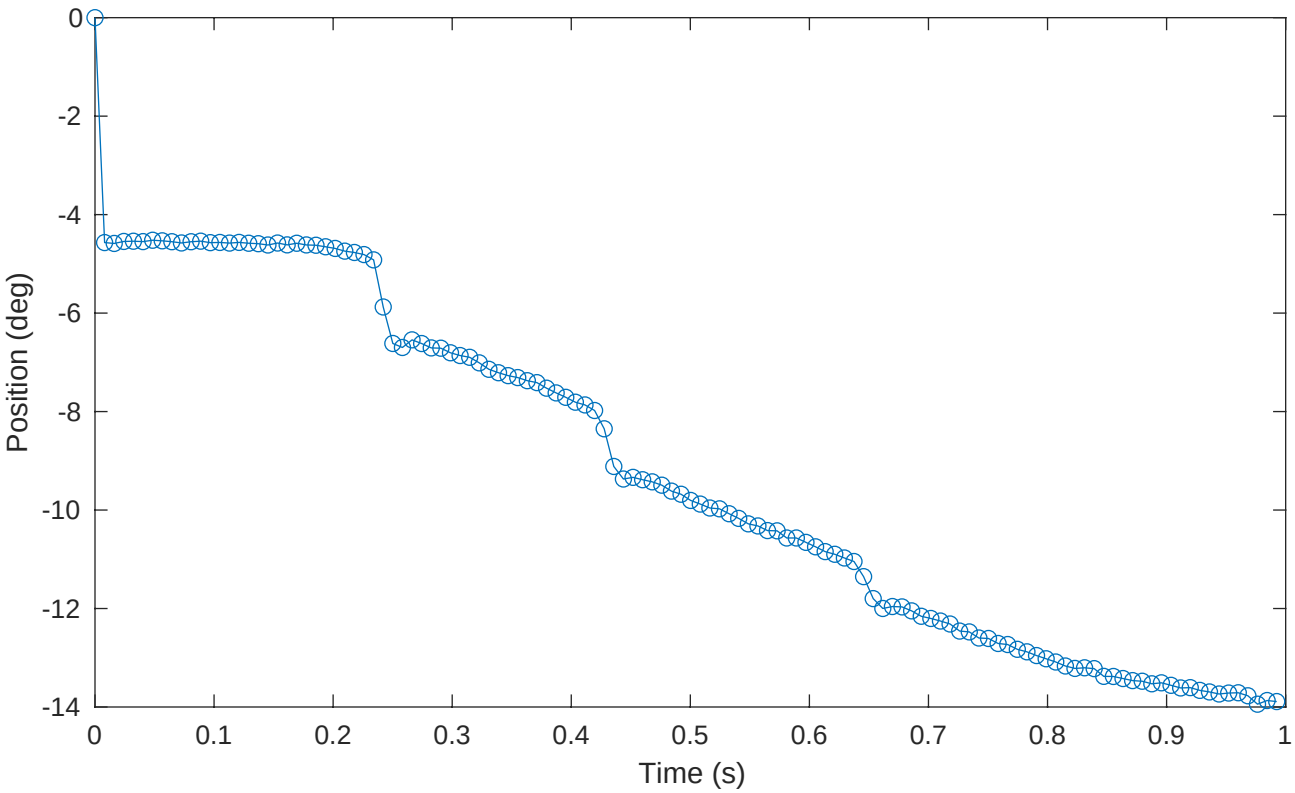

Filtered Position/Velocity: Trial 312 (External)
Position (deg)
Velocity (deg/s)
Time (s)
Externally Filtered Position
Externally Filtered Velocity

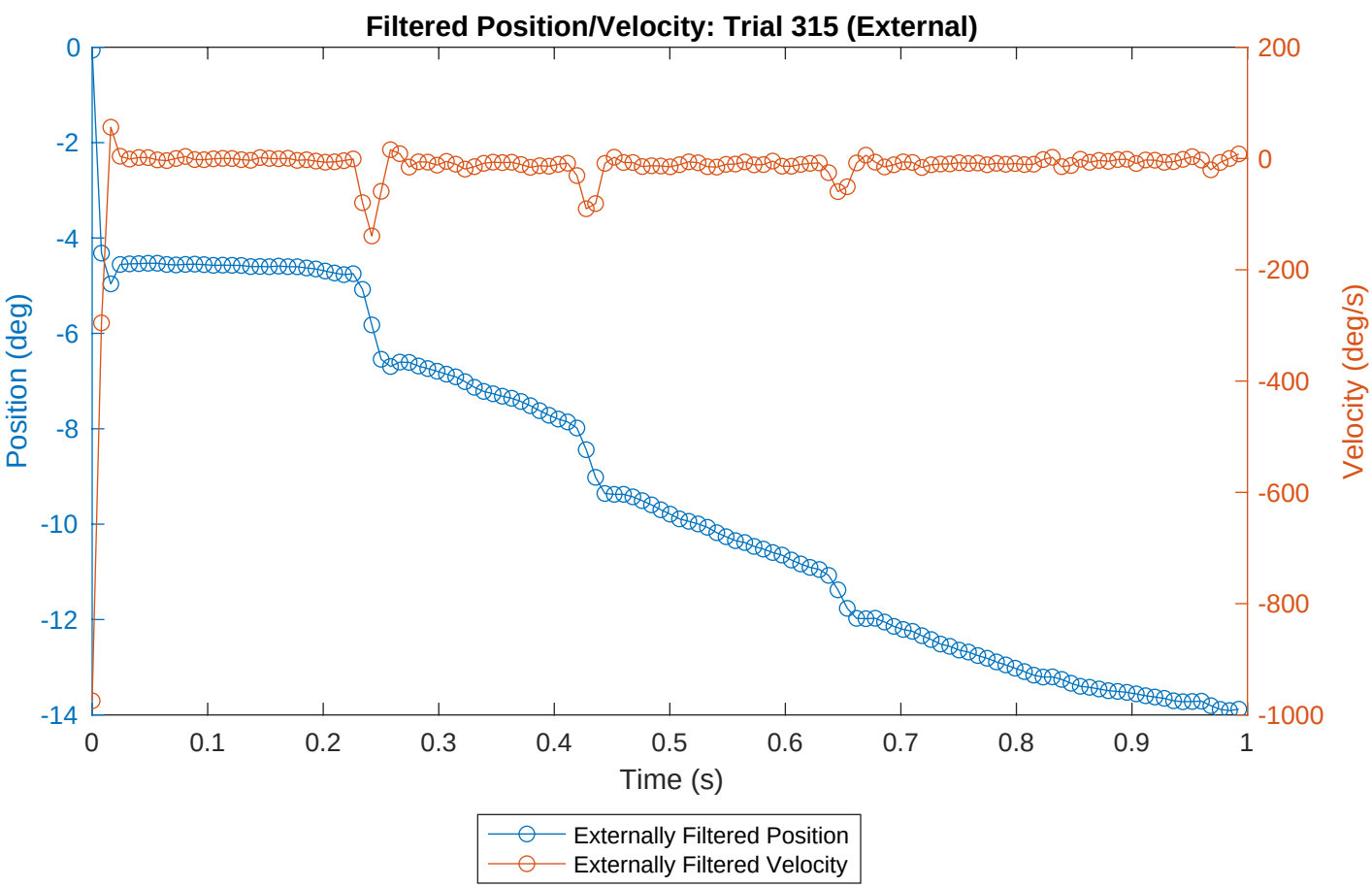

Position (deg)
Time (s)
0
-2
-4
-6
-8
-10
-12
-14
0
0.1
0.2
0.3
0.4
0.5
0.6
0.7
0.8
0.9
1

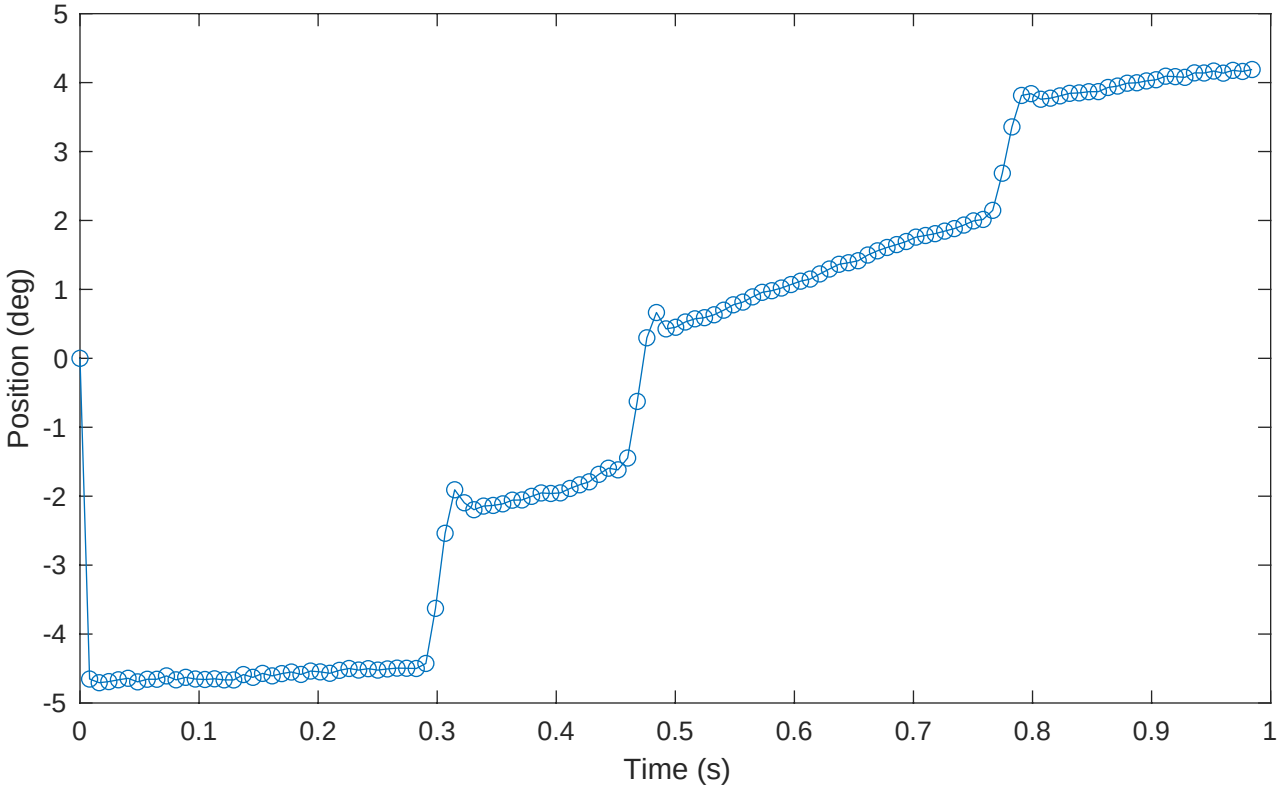

Filtered Position/Velocity: Trial 313 (External)
Position (deg)
Velocity (deg/s)
Time (s)
0
-2
-4
-6
-8
-10
-12
-14
200
0
-200
-400
-600
-800
-1000
-1200
0
0.1
0.2
0.3
0.4
0.5
0.6
0.7
0.8
0.9
1
Externally Filtered Position
Externally Filtered Velocity

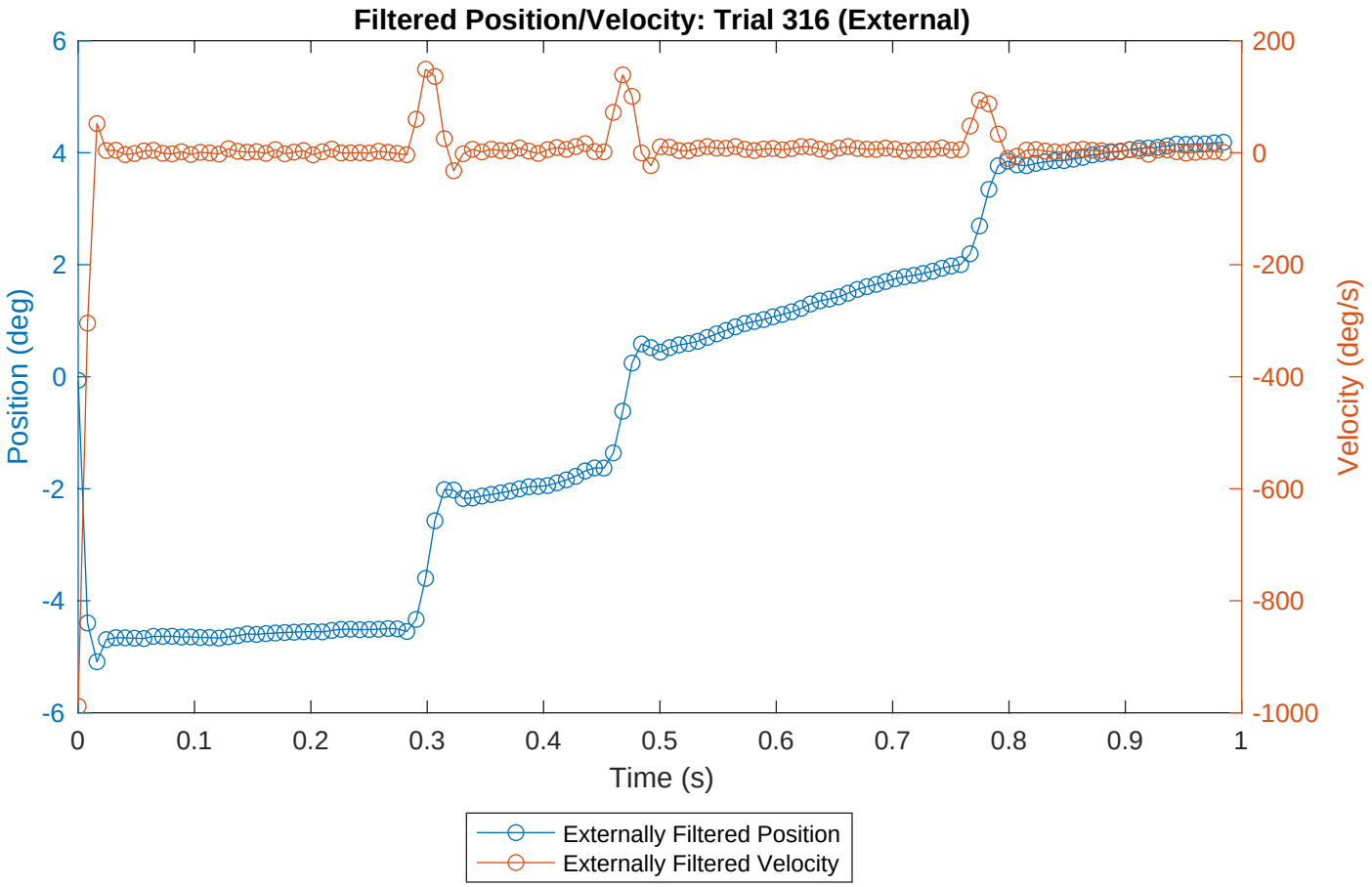

0
-5
-10
-15
Position (deg)
0
0.1
0.2
0.3
0.4
0.5
0.6
0.7
0.8
0.9
1
Time (s)

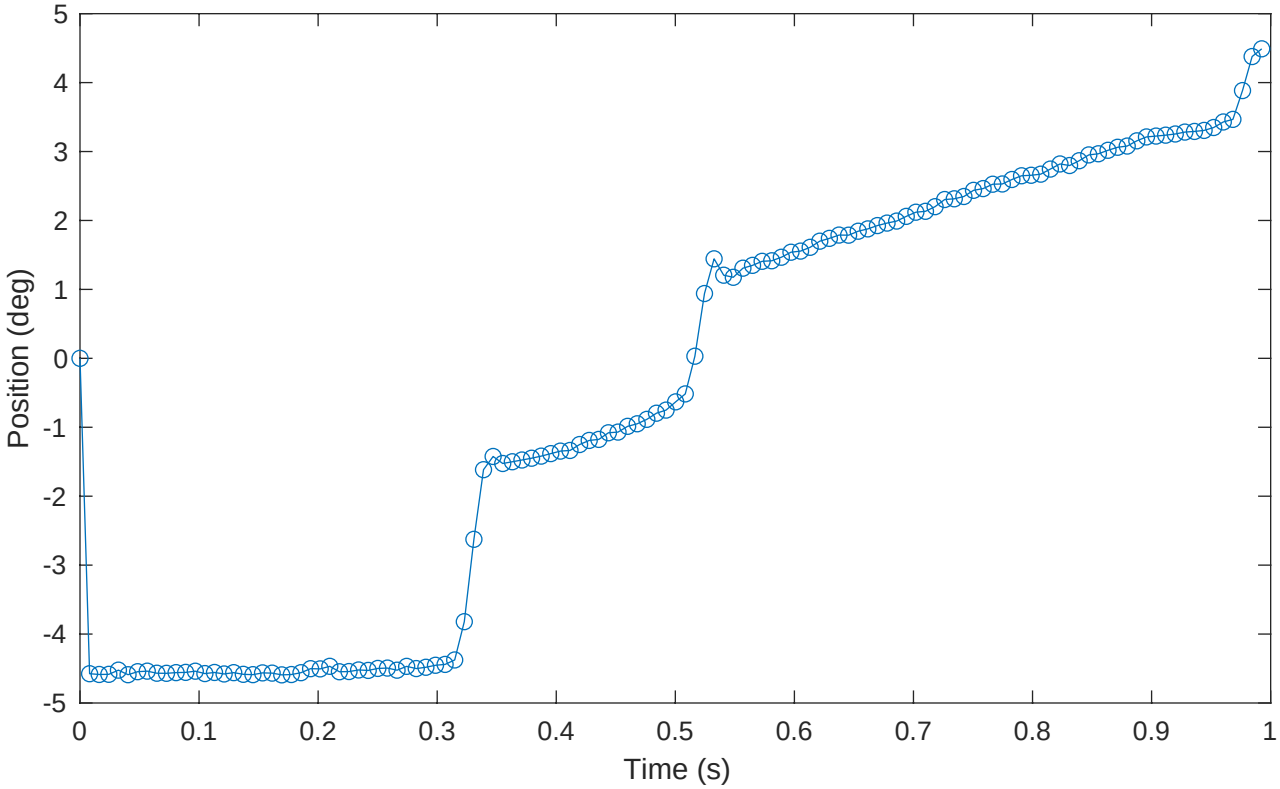

Filtered Position/Velocity: Trial 314 (External)
0
-5
-10
-15
Position (deg)
200
0
-200
-400
-600
-800
-1000
Velocity (deg/s)
0
0.1
0.2
0.3
0.4
0.5
0.6
0.7
0.8
0.9
1
Time (s)
Externally Filtered Position
Externally Filtered Velocity

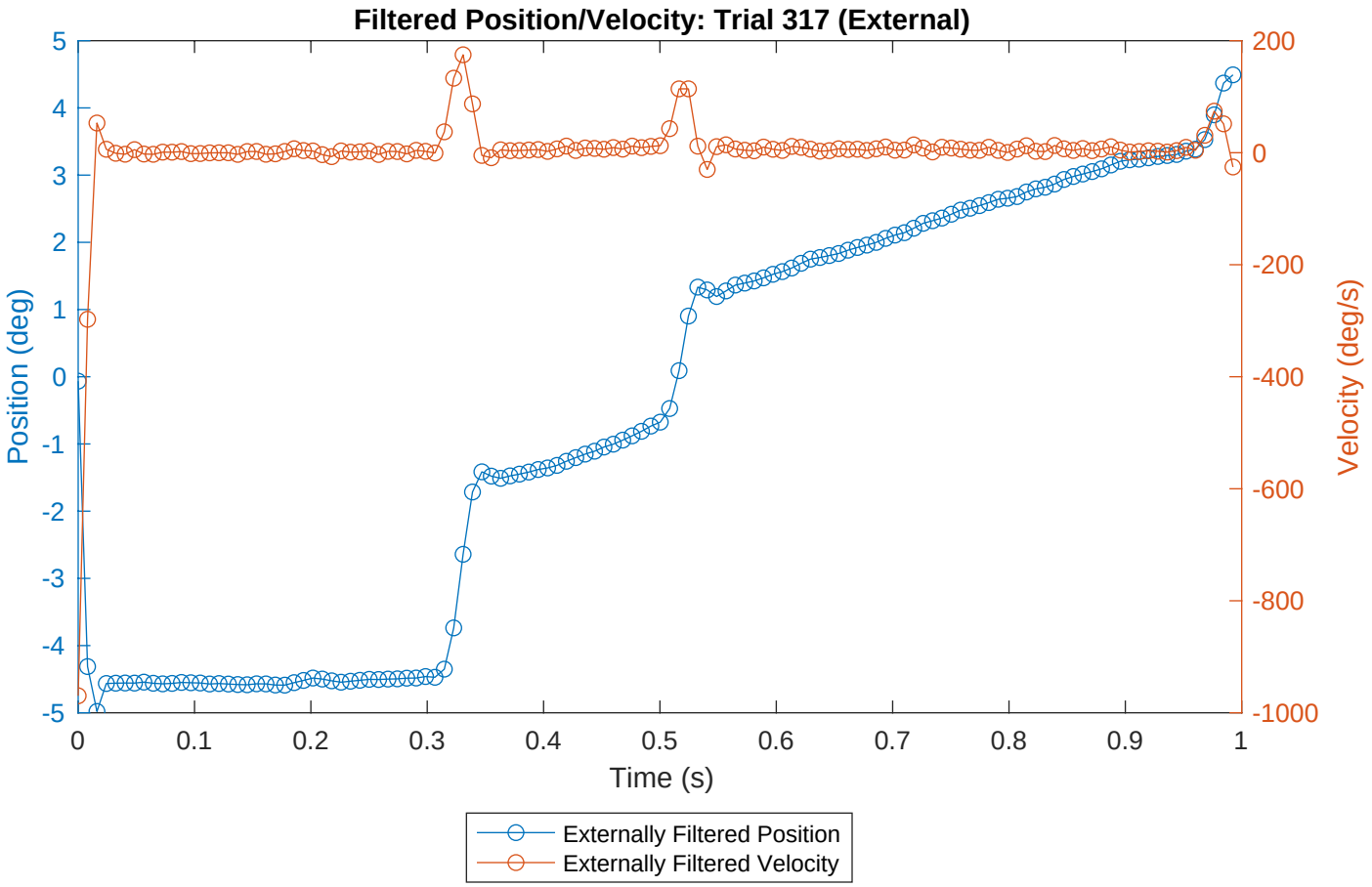

Position (deg)
Time (s)
0
-2
-4
-6
-8
-10
-12
-14
0
0.1
0.2
0.3
0.4
0.5
0.6
0.7
0.8
0.9
1

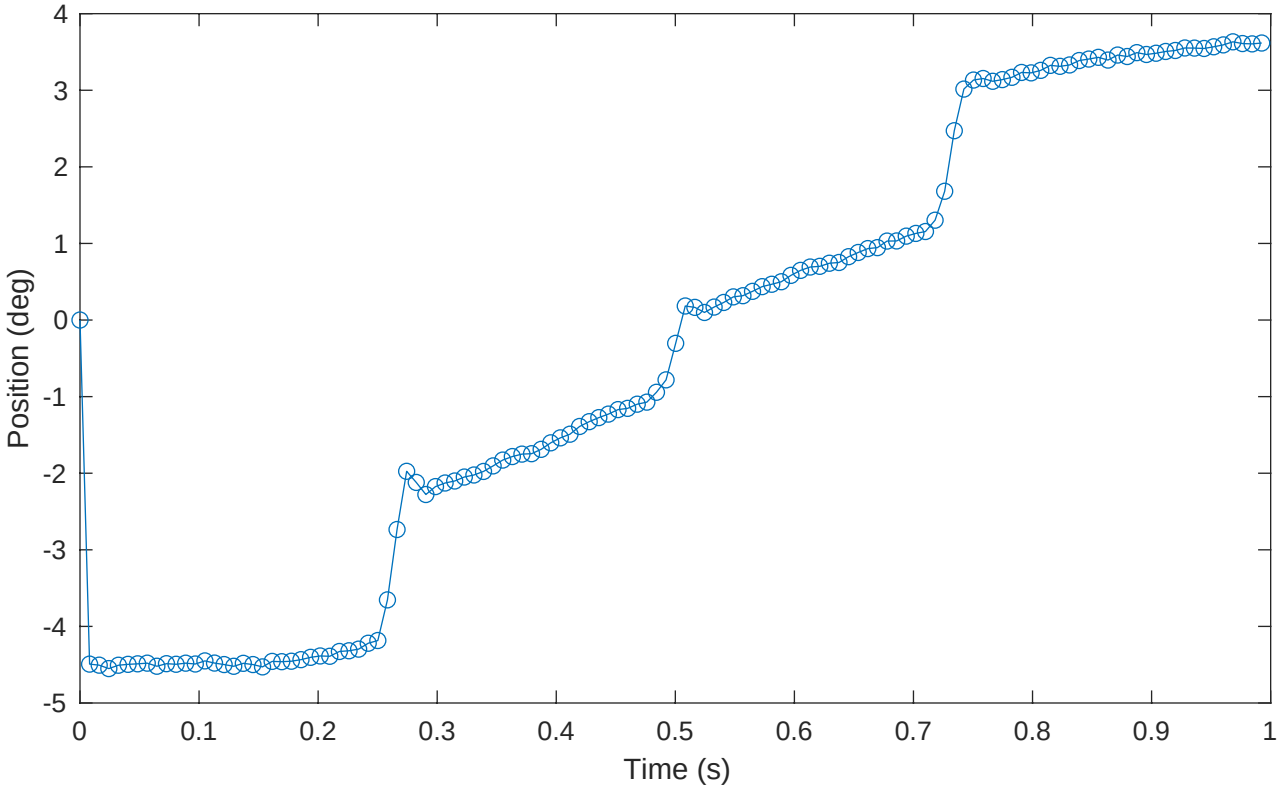

Filtered Position/Velocity: Trial 315 (External)
Position (deg)
Velocity (deg/s)
Time (s)
0
-2
-4
-6
-8
-10
-12
-14
200
0
-200
-400
-600
-800
-1000
0
0.1
0.2
0.3
0.4
0.5
0.6
0.7
0.8
0.9
1
Externally Filtered Position
Externally Filtered Velocity

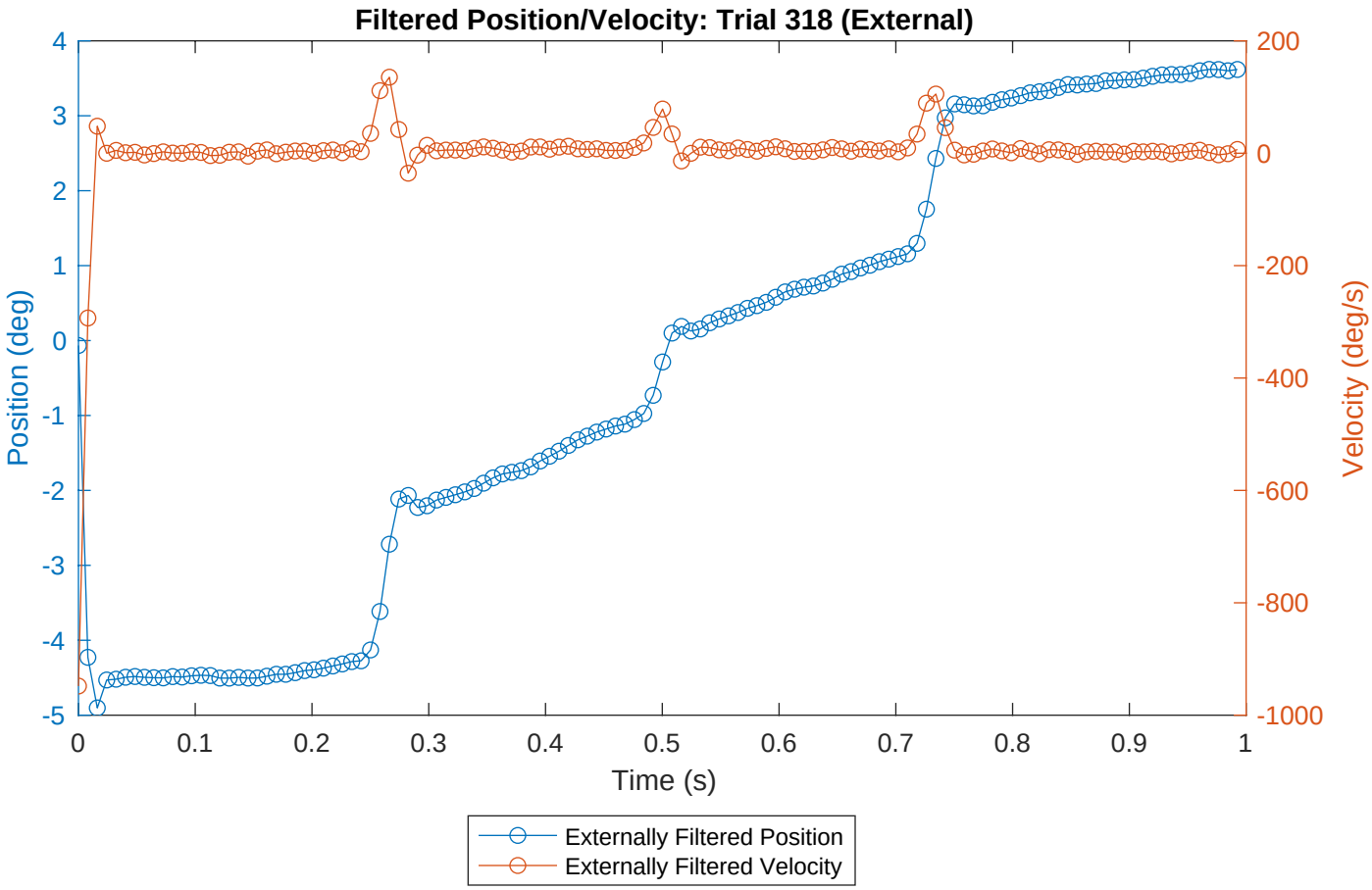

Position (deg)
Time (s)

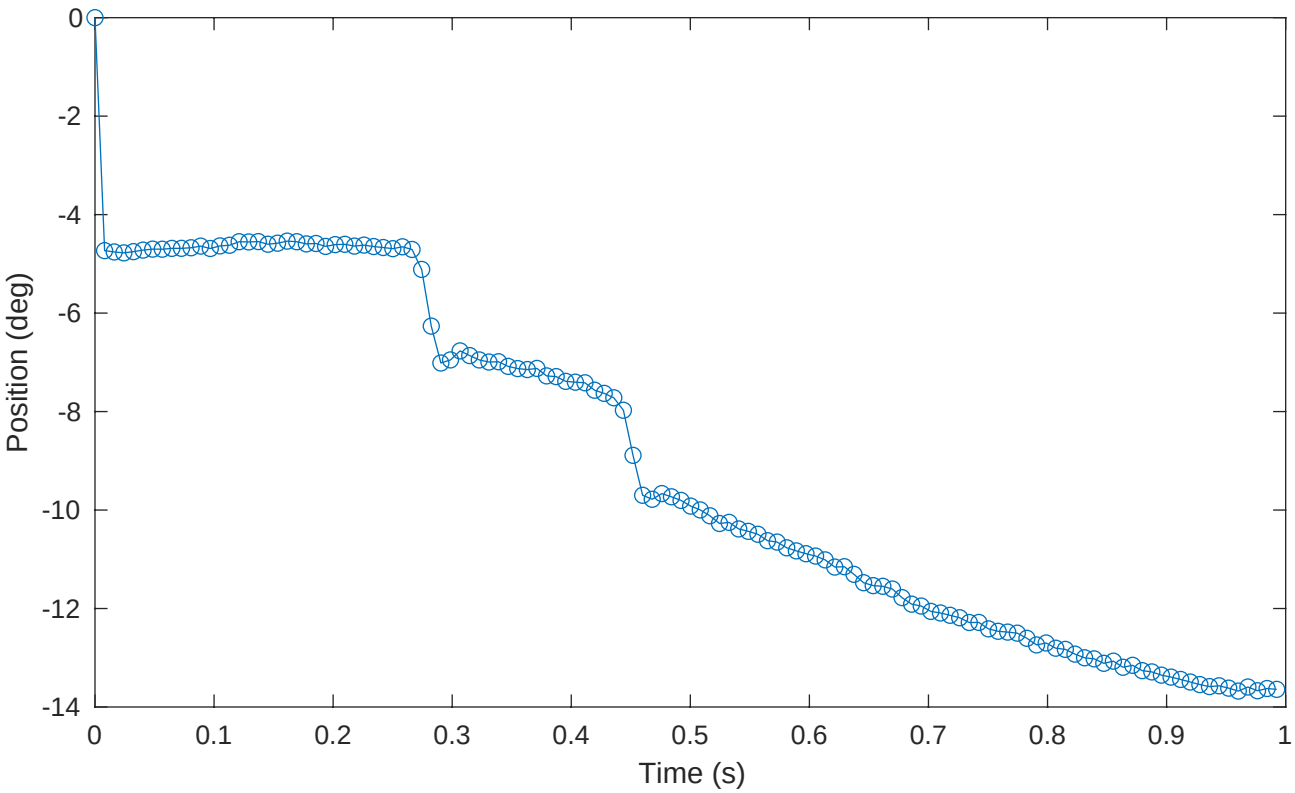

Filtered Position/Velocity: Trial 316 (External)
Position (deg)
Velocity (deg/s)
Time (s)
Externally Filtered Position
Externally Filtered Velocity

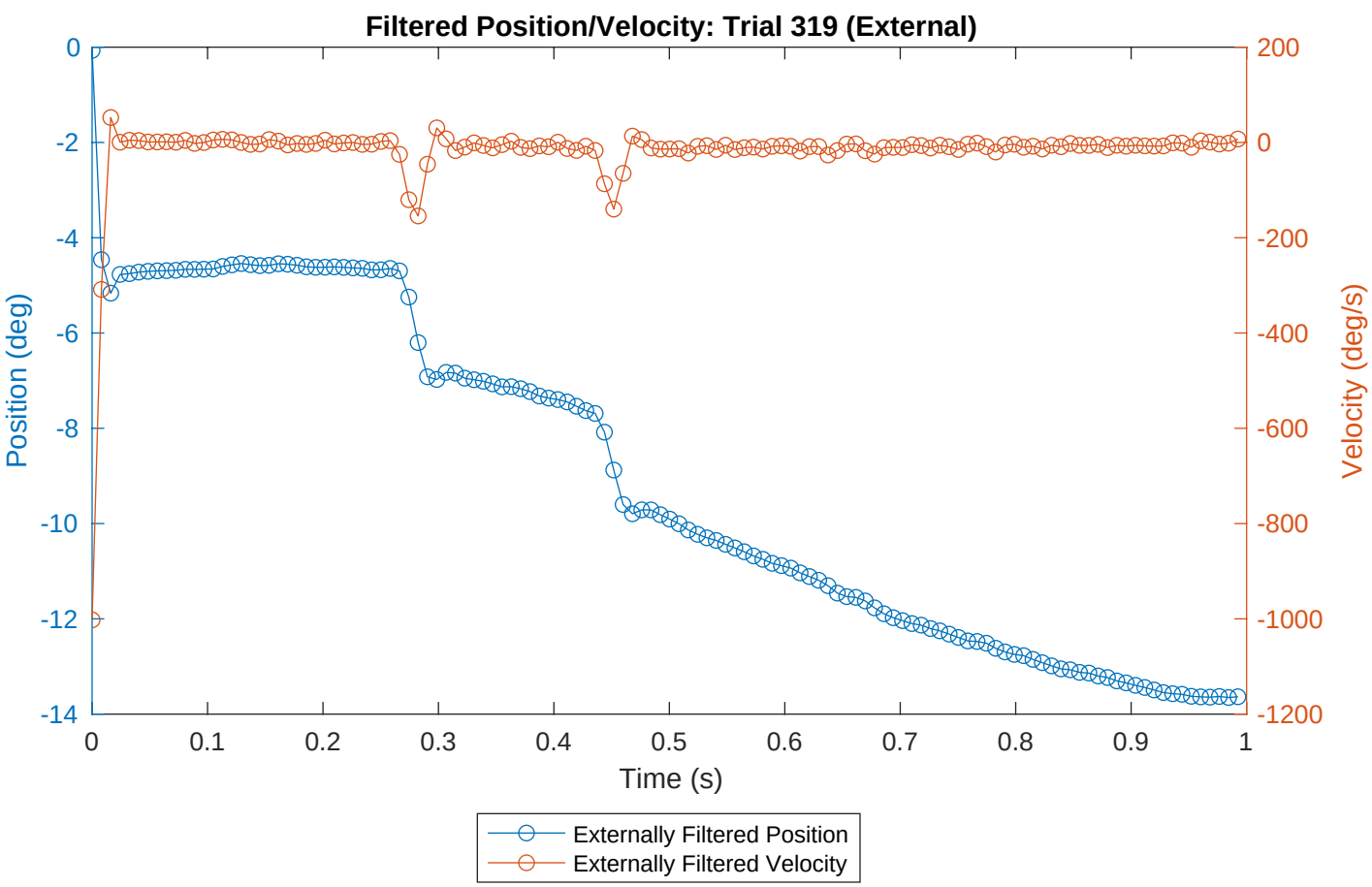

Position (deg)
Time (s)

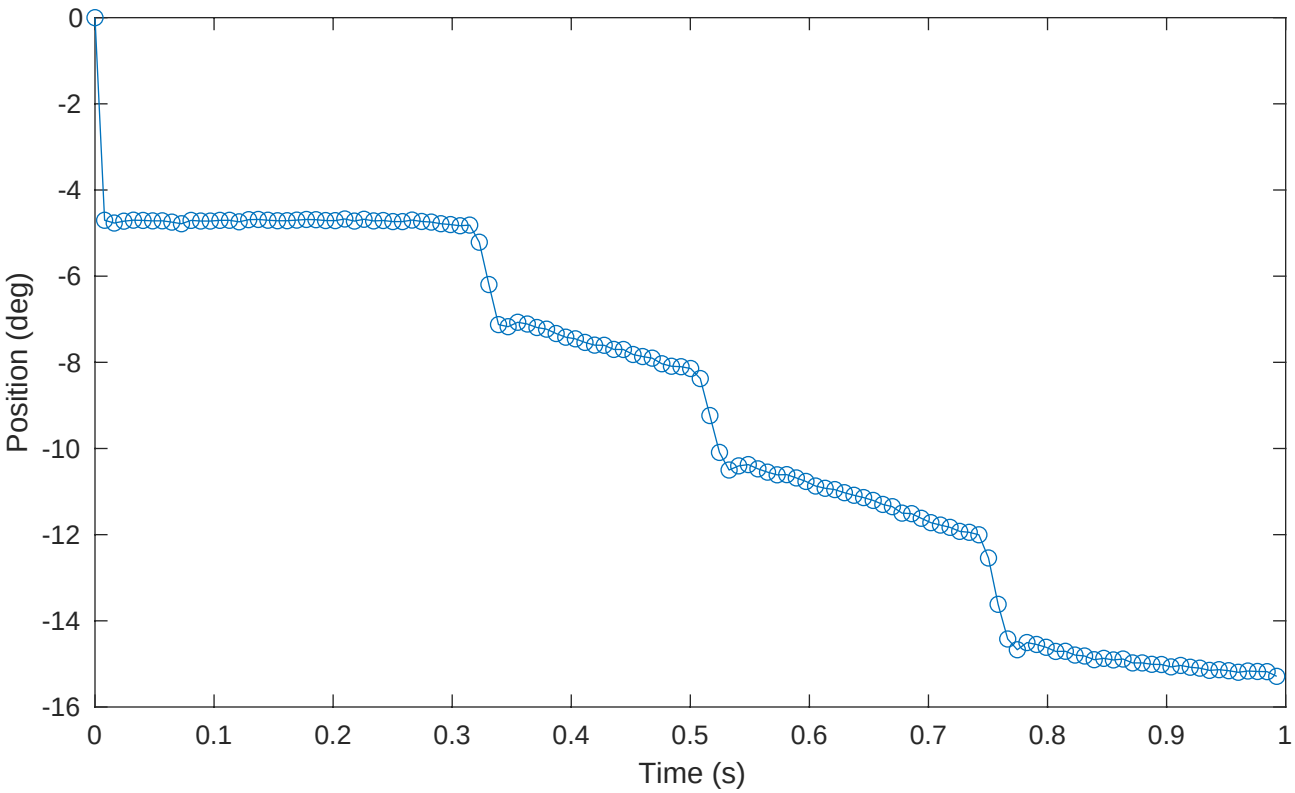

Filtered Position/Velocity: Trial 317 (External)
Position (deg)
Velocity (deg/s)
Time (s)
Externally Filtered Position
Externally Filtered Velocity

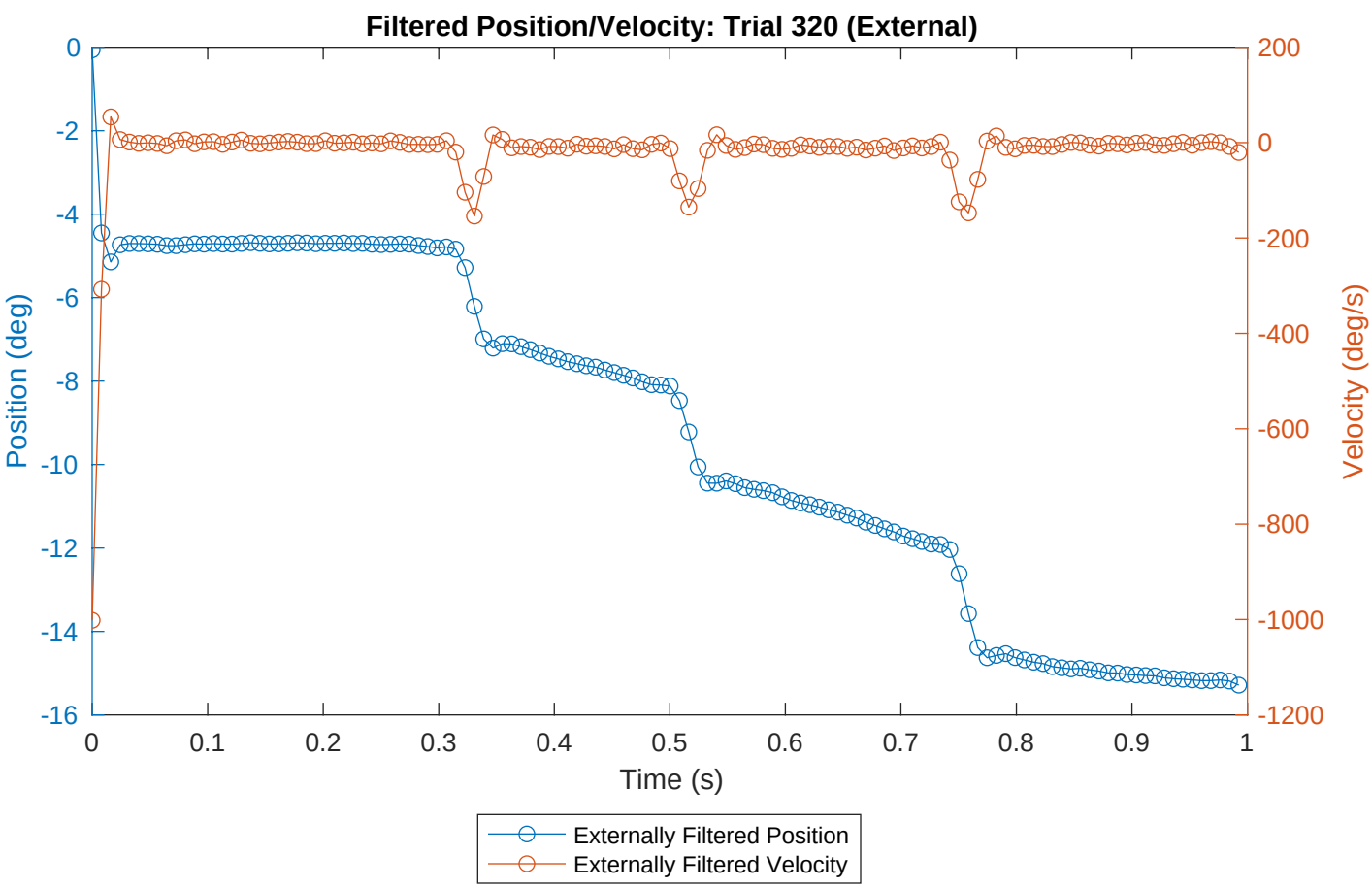

Position (deg)
Time (s)

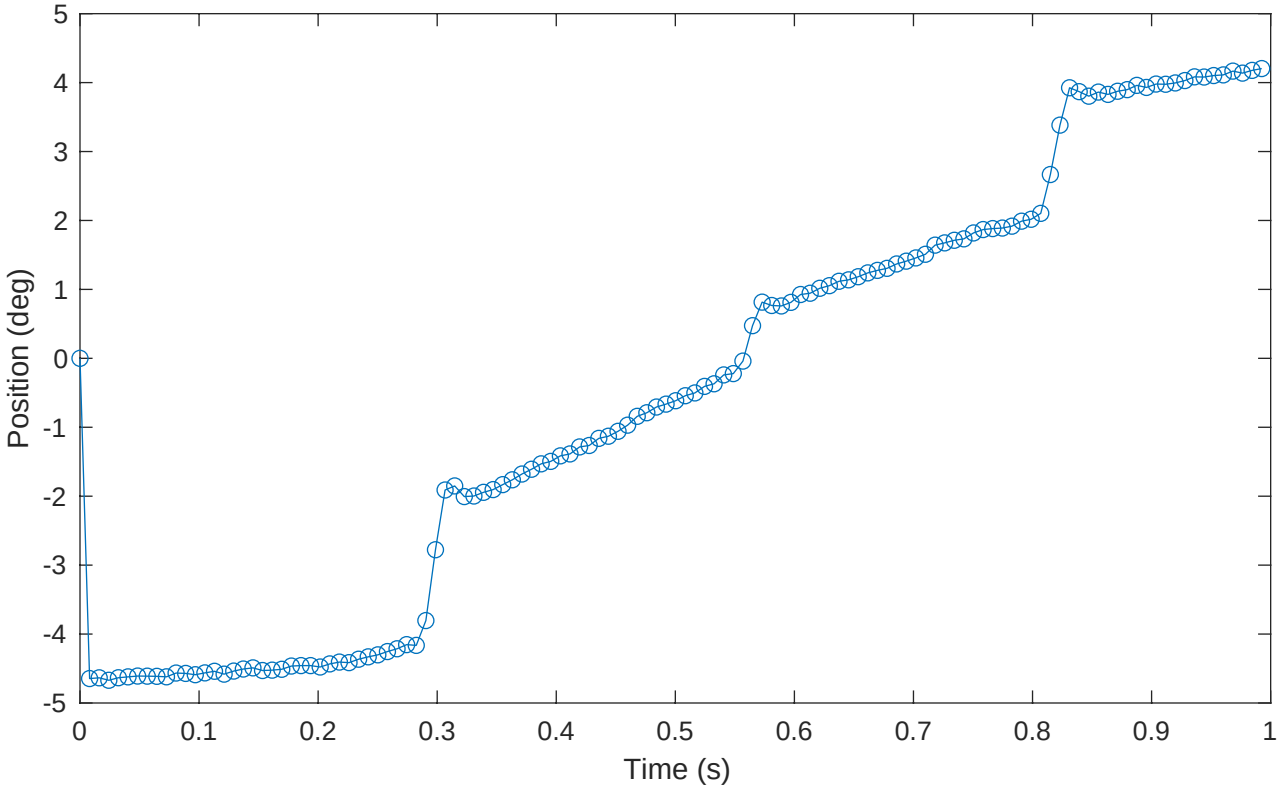

Filtered Position/Velocity: Trial 318 (External)
Position (deg)
Velocity (deg/s)
Time (s)
Externally Filtered Position
Externally Filtered Velocity

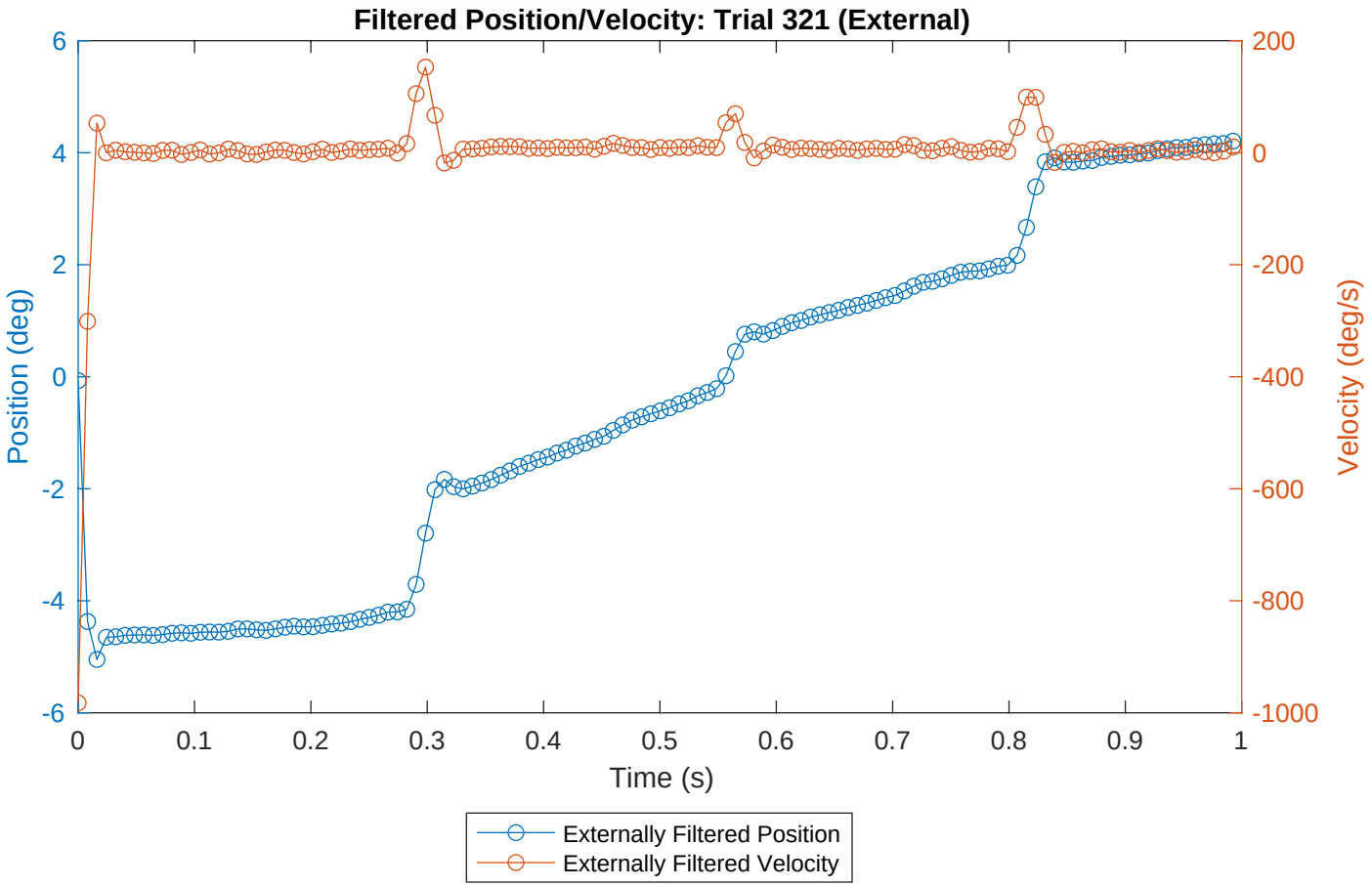

Position (deg)
Time (s)
0
-2
-4
-6
-8
-10
-12
-14
0
0.1
0.2
0.3
0.4
0.5
0.6
0.7
0.8
0.9
1

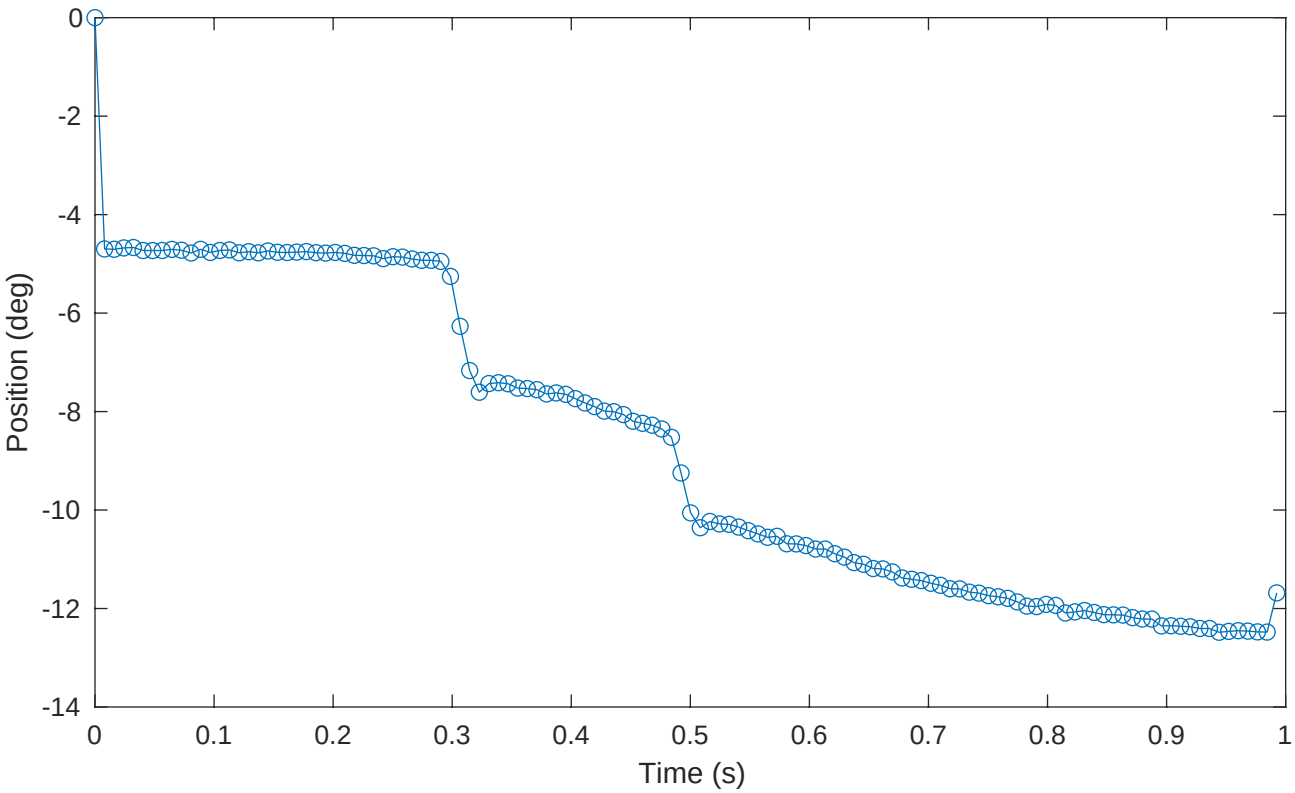

Filtered Position/Velocity: Trial 319 (External)
Position (deg)
Velocity (deg/s)
Time (s)
0
-2
-4
-6
-8
-10
-12
-14
200
0
-200
-400
-600
-800
-1000
-1200
0
0.1
0.2
0.3
0.4
0.5
0.6
0.7
0.8
0.9
1
Externally Filtered Position
Externally Filtered Velocity

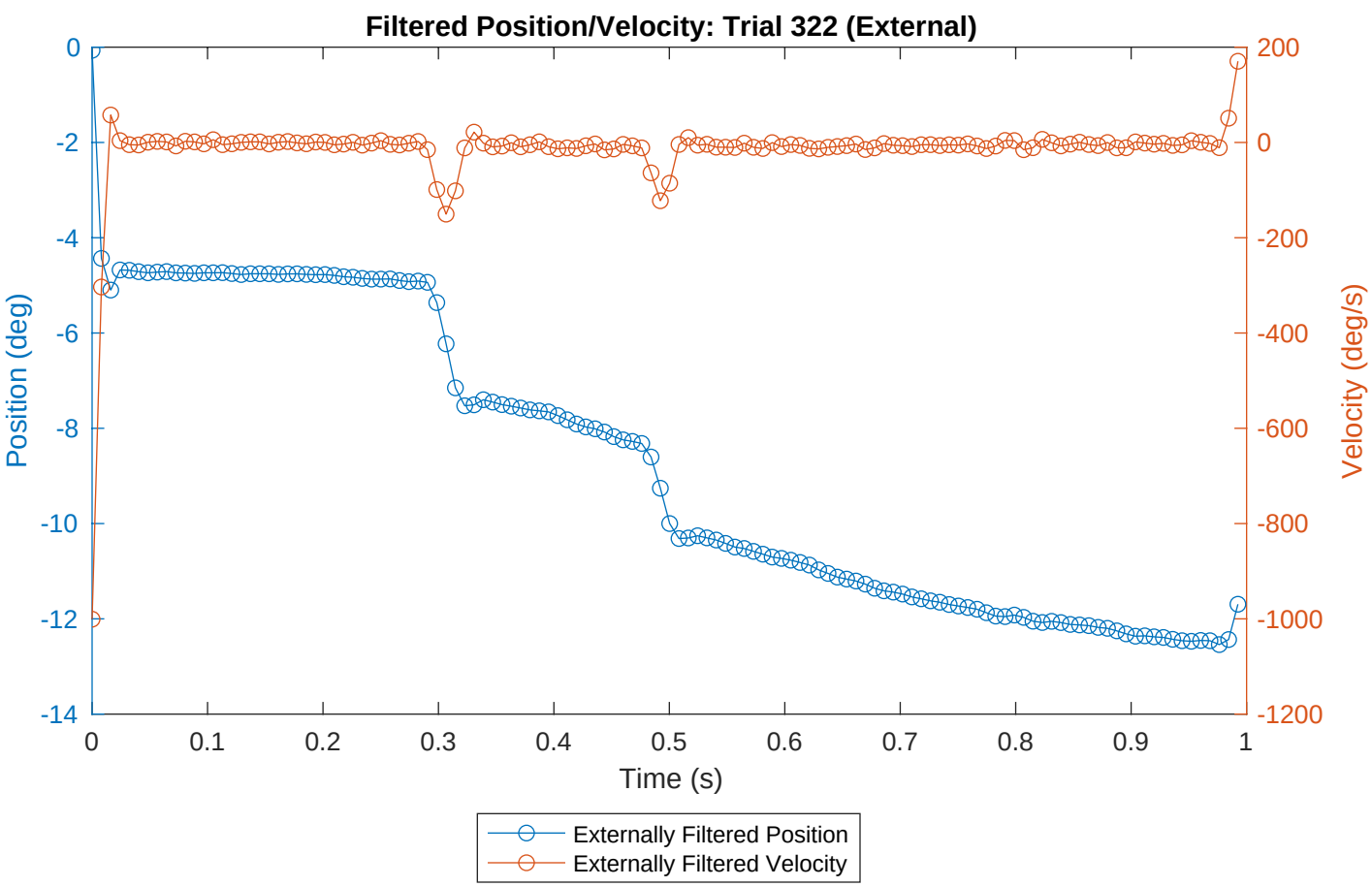

Position (deg)
Time (s)
0
-2
-4
-6
-8
-10
-12
-14
-16
0
0.1
0.2
0.3
0.4
0.5
0.6
0.7
0.8
0.9
1

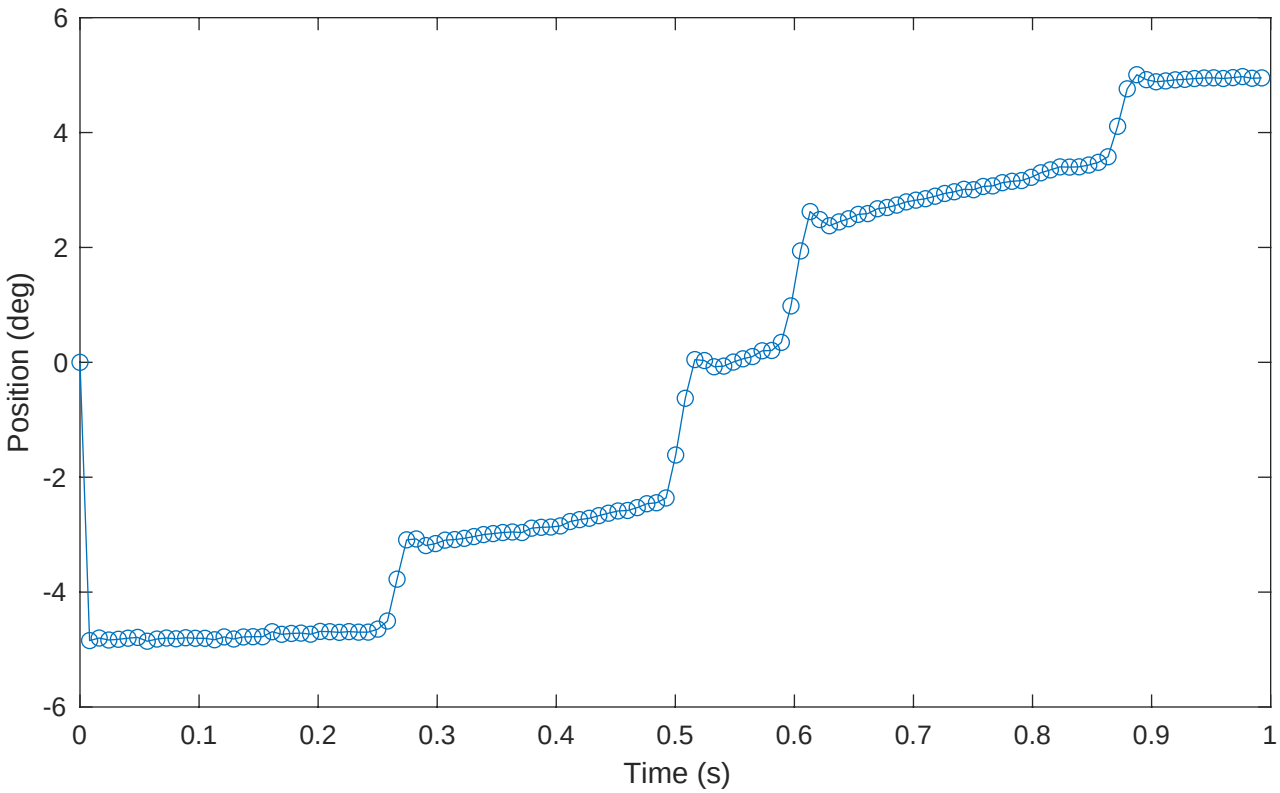

Filtered Position/Velocity: Trial 320 (External)
Position (deg)
Velocity (deg/s)
Time (s)
0
-2
-4
-6
-8
-10
-12
-14
-16
200
0
-200
-400
-600
-800
-1000
-1200
0
0.1
0.2
0.3
0.4
0.5
0.6
0.7
0.8
0.9
1
Externally Filtered Position
Externally Filtered Velocity

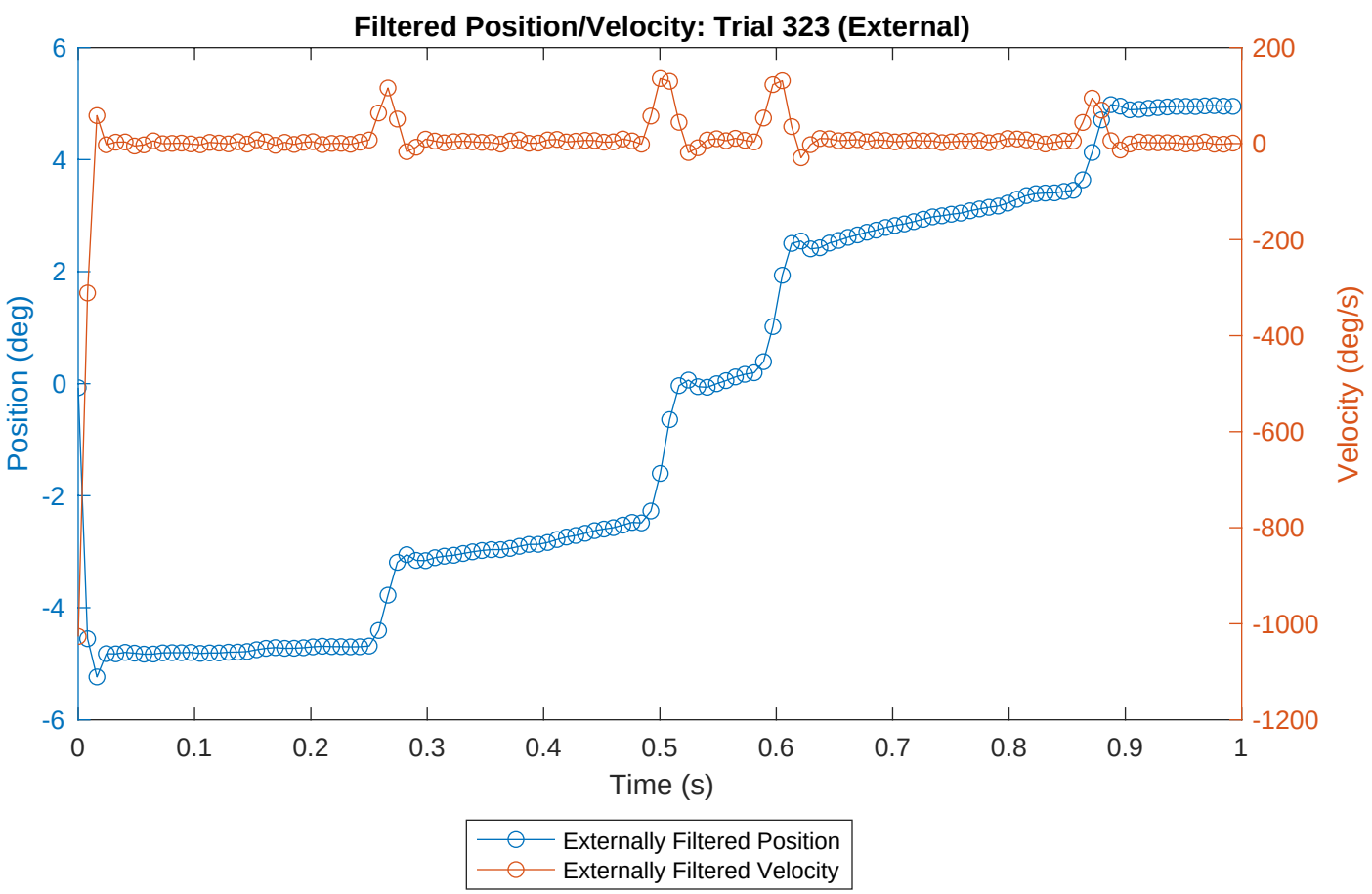

Position (deg)
Time (s)

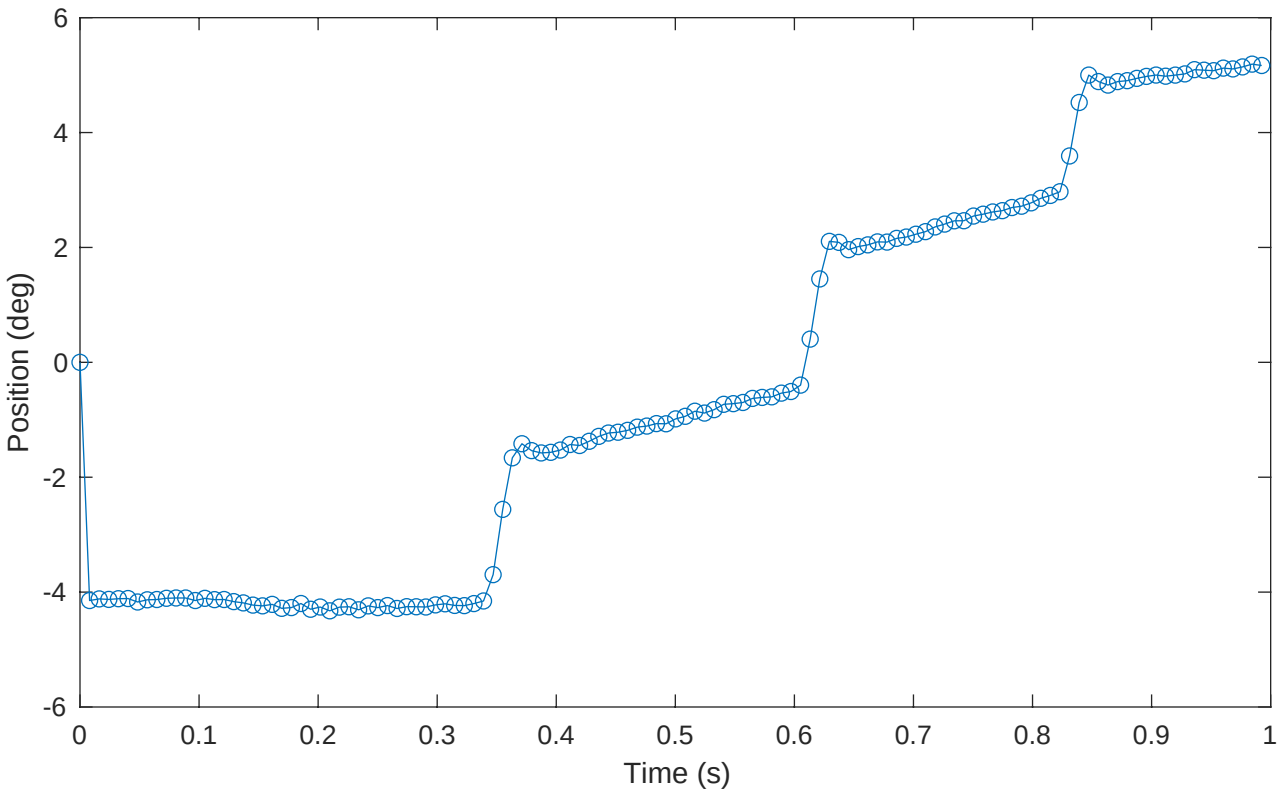

Filtered Position/Velocity: Trial 321 (External)
Position (deg)
Velocity (deg/s)
Time (s)
Externally Filtered Position
Externally Filtered Velocity

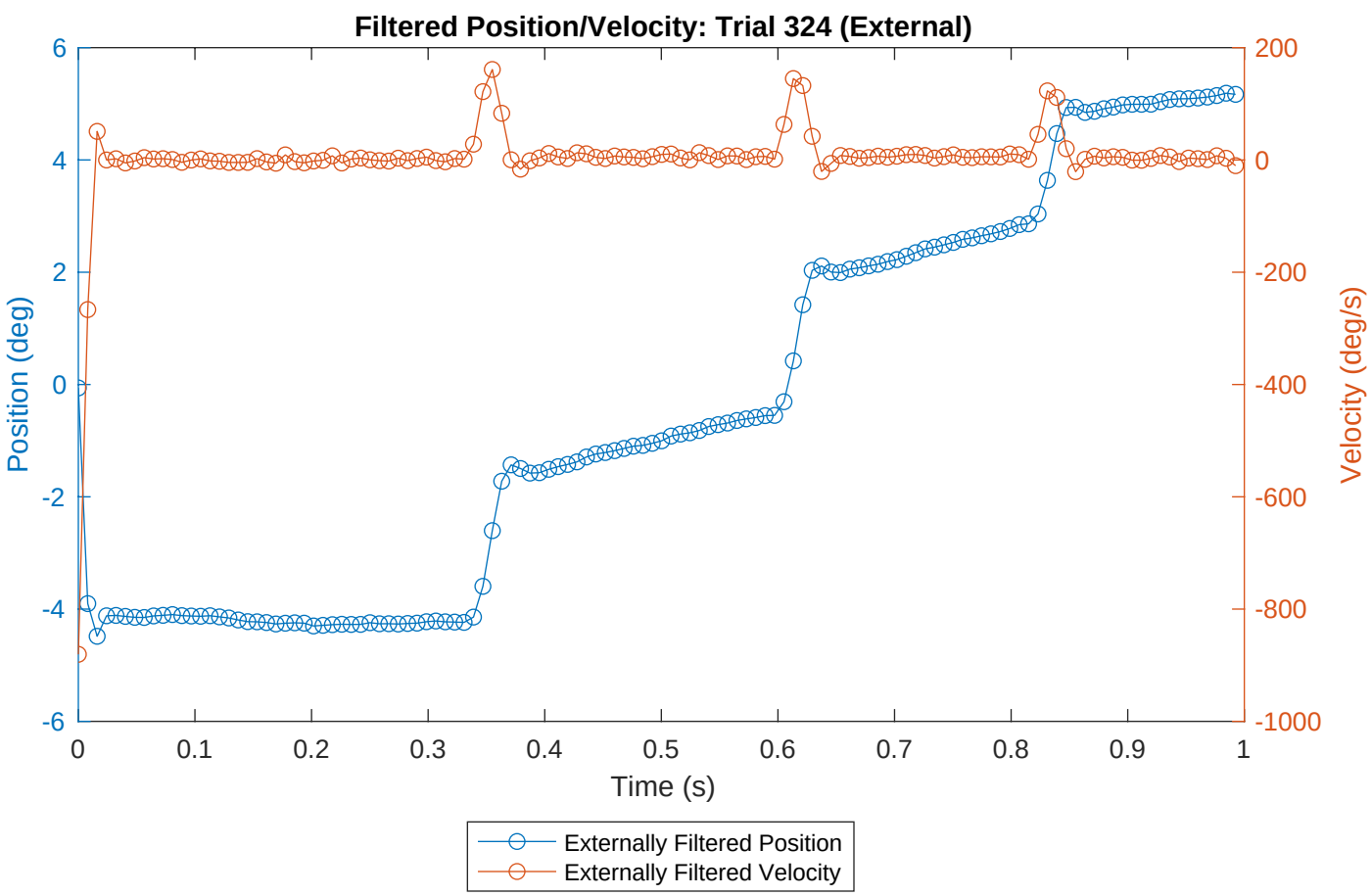

Position (deg)
Time (s)
0
-2
-4
-6
-8
-10
-12
-14
0
0.1
0.2
0.3
0.4
0.5
0.6
0.7
0.8
0.9
1

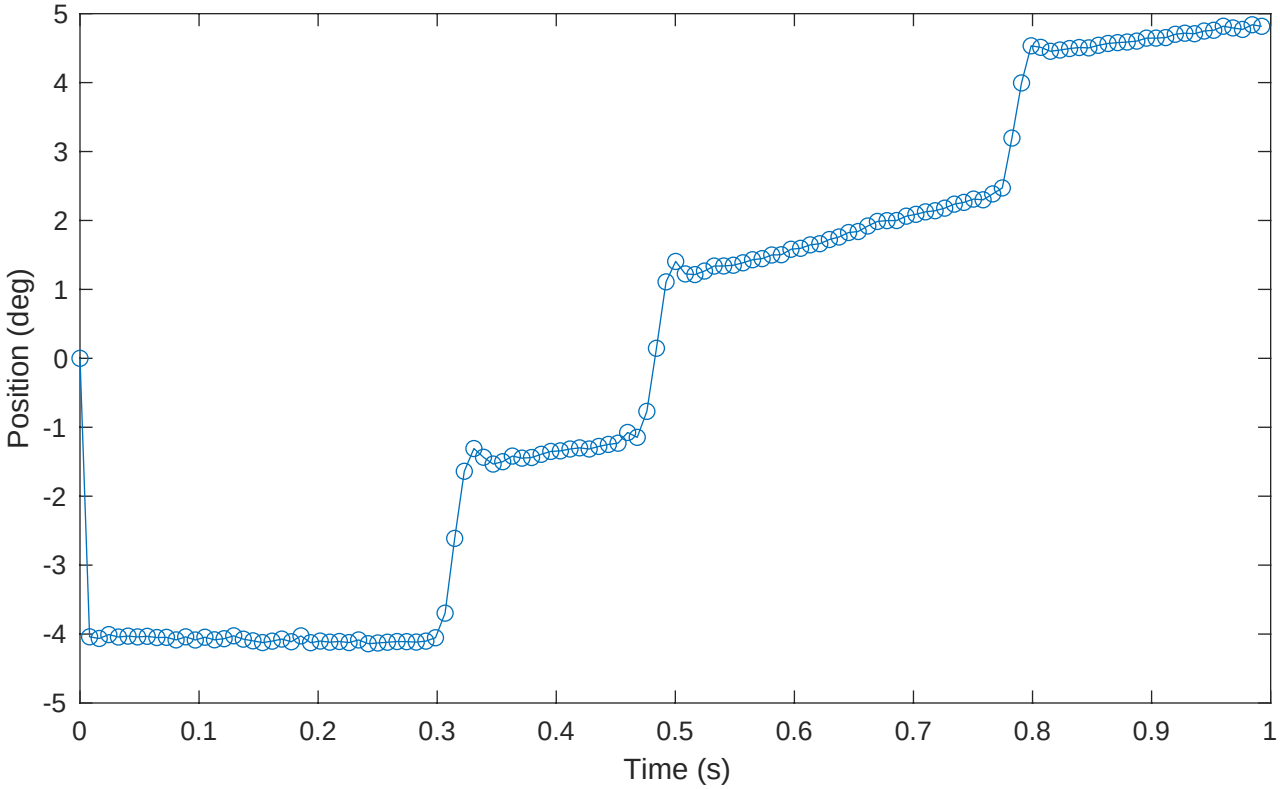

Filtered Position/Velocity: Trial 322 (External)
Position (deg)
Velocity (deg/s)
Time (s)
0
-2
-4
-6
-8
-10
-12
-14
200
0
-200
-400
-600
-800
-1000
-1200
0
0.1
0.2
0.3
0.4
0.5
0.6
0.7
0.8
0.9
1
Externally Filtered Position
Externally Filtered Velocity

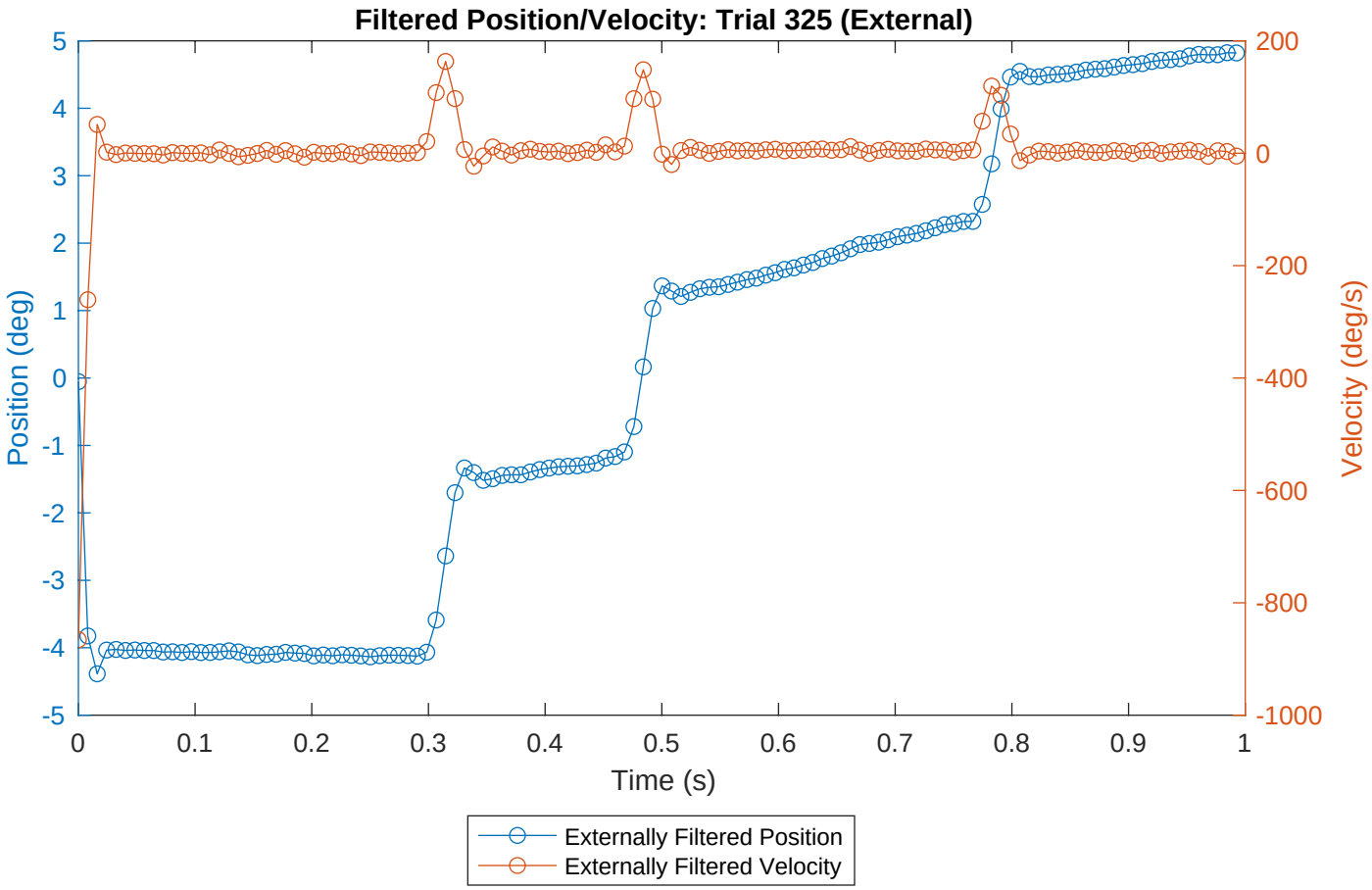

Position (deg)
Time (s)

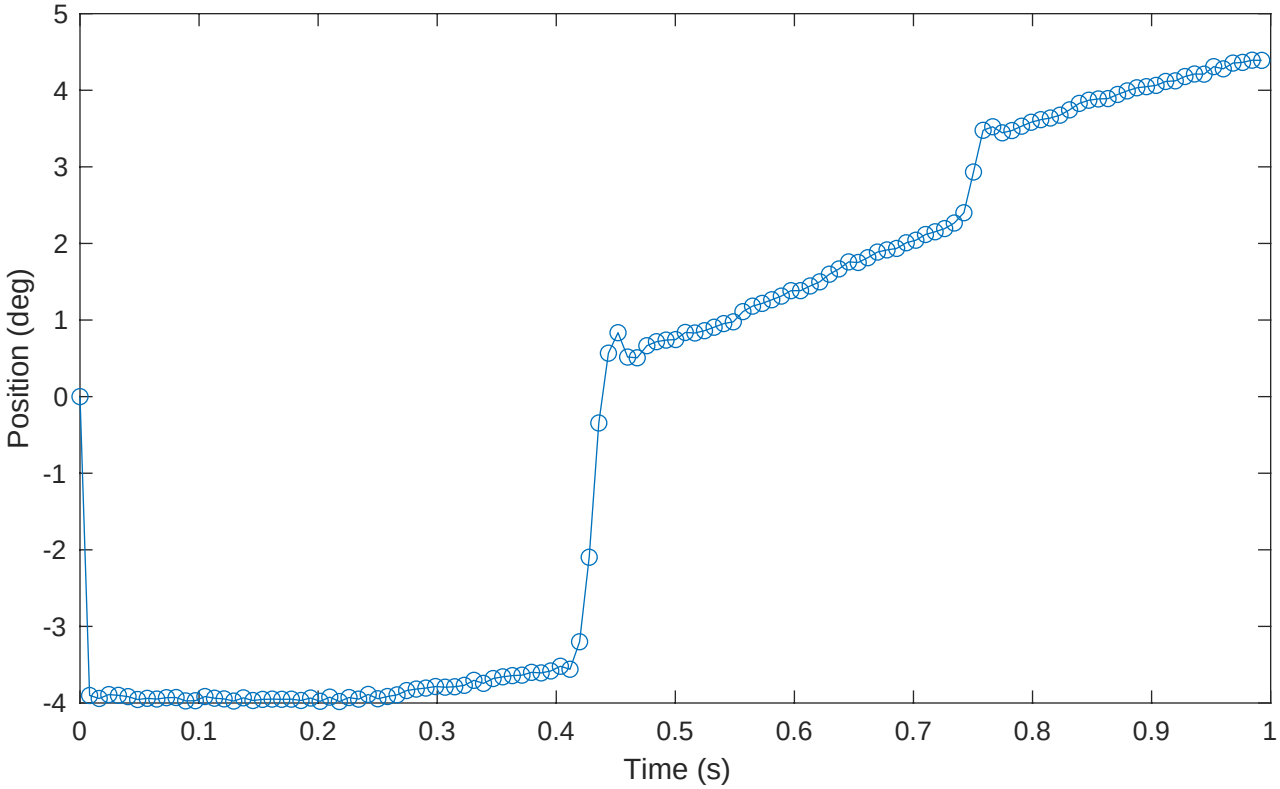

Filtered Position/Velocity: Trial 323 (External)
Position (deg)
Velocity (deg/s)
Time (s)
Externally Filtered Position
Externally Filtered Velocity

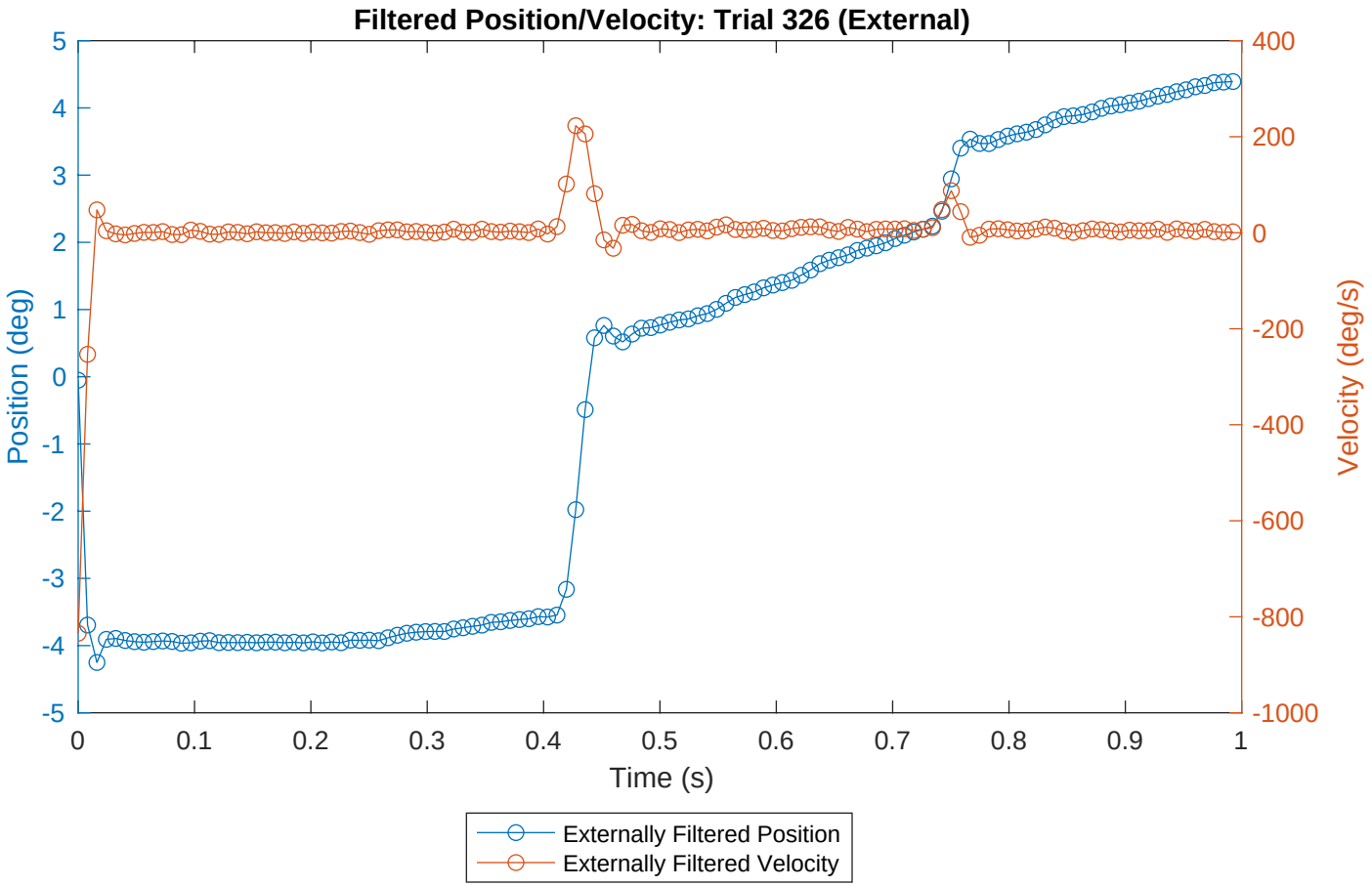

Position (deg)
Time (s)

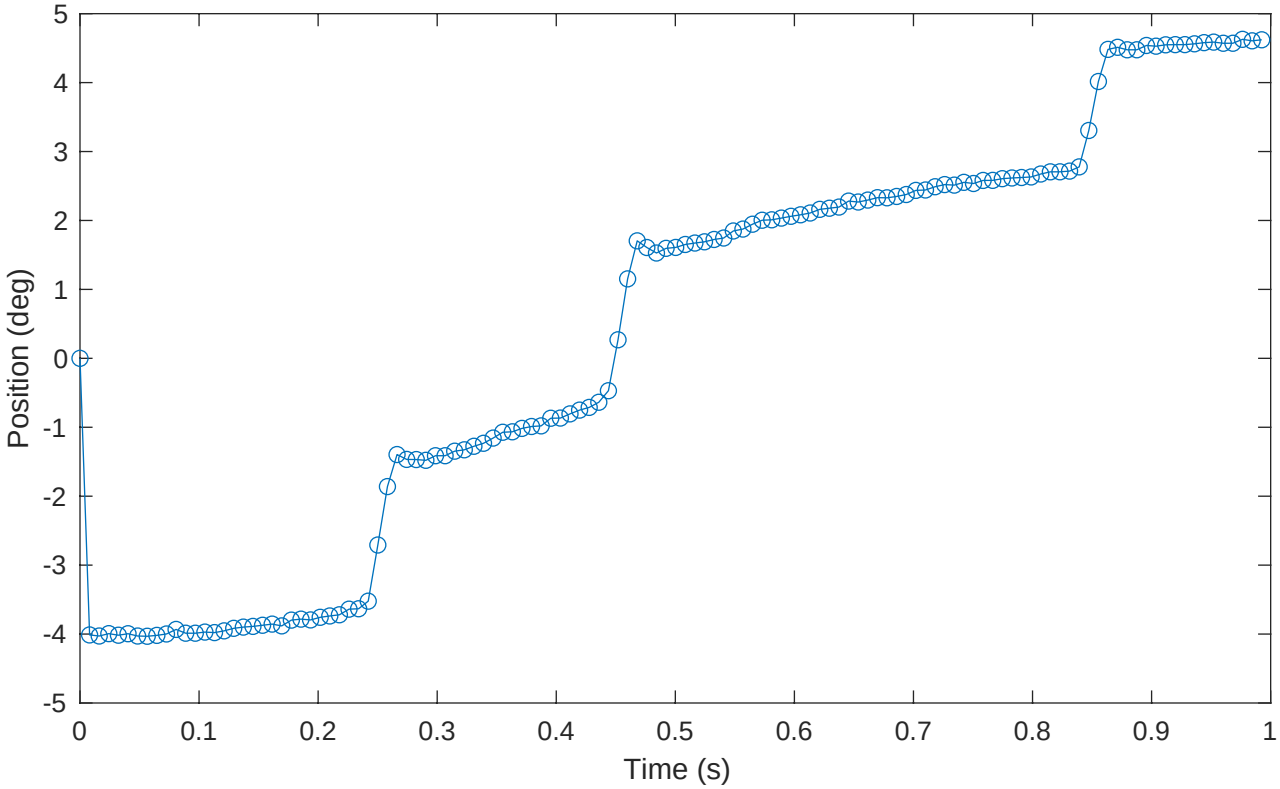

Filtered Position/Velocity: Trial 324 (External)
Position (deg)
Velocity (deg/s)
Time (s)
Externally Filtered Position
Externally Filtered Velocity

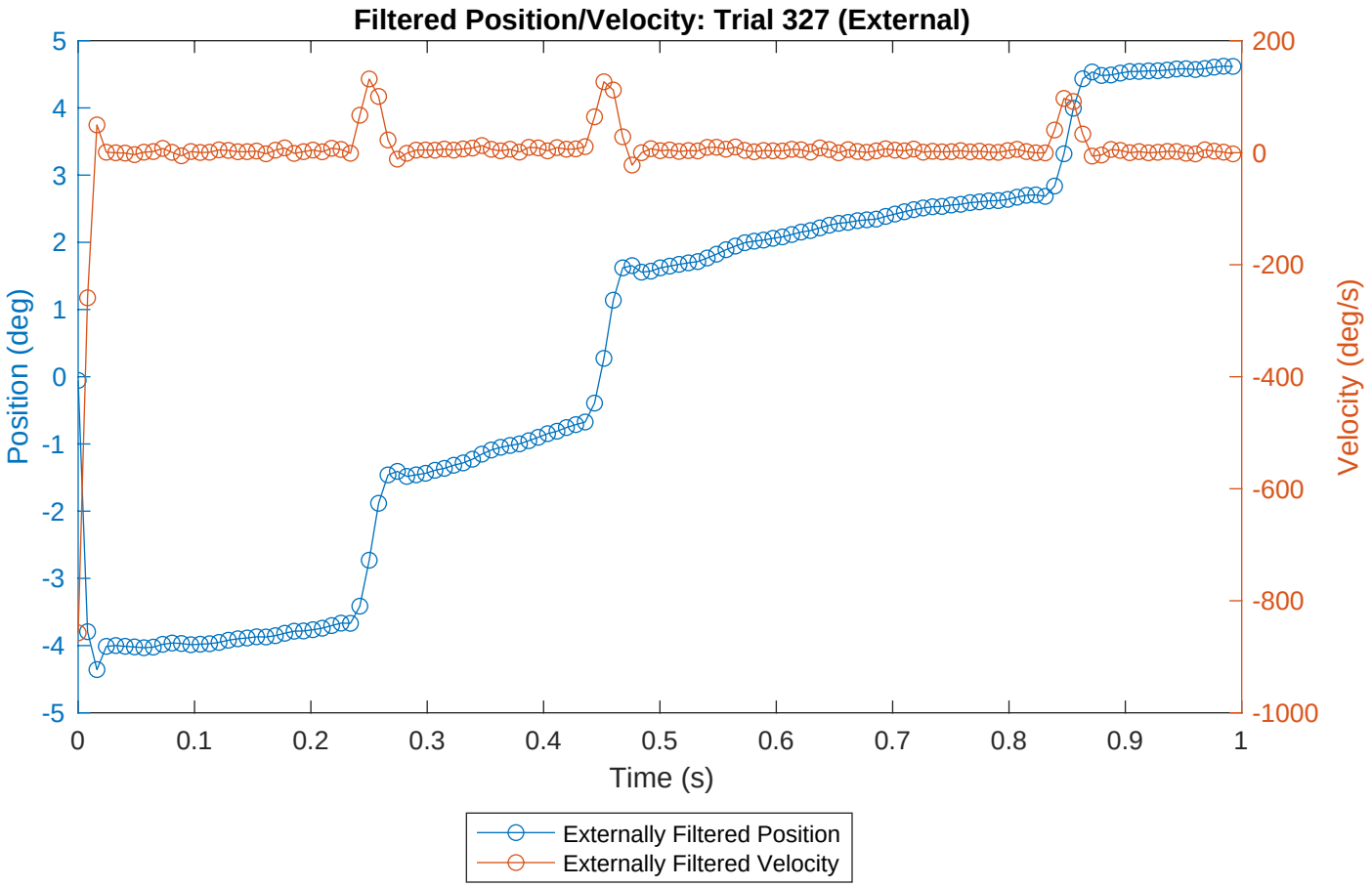

Position (deg)
Time (s)

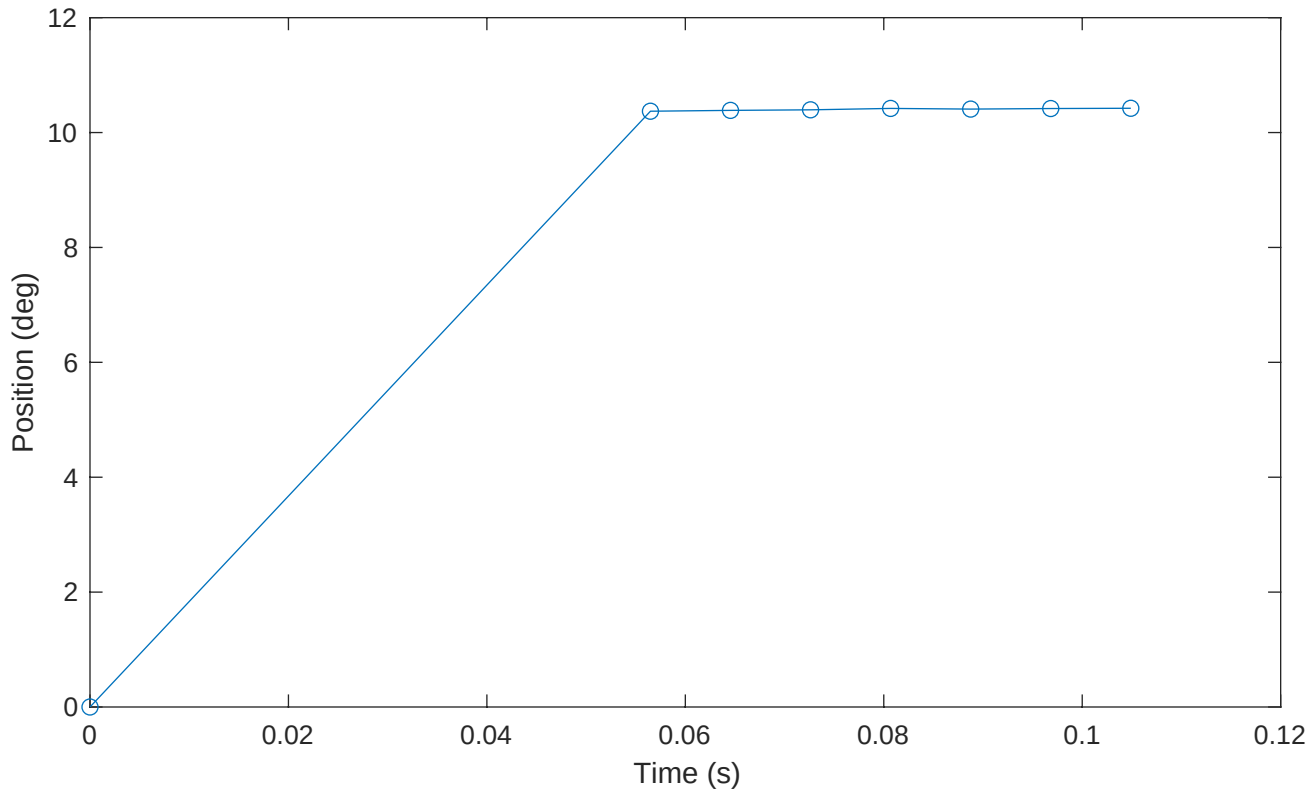

Filtered Position/Velocity: Trial 325 (External)
Position (deg)
Velocity (deg/s)
Time (s)
Externally Filtered Position
Externally Filtered Velocity

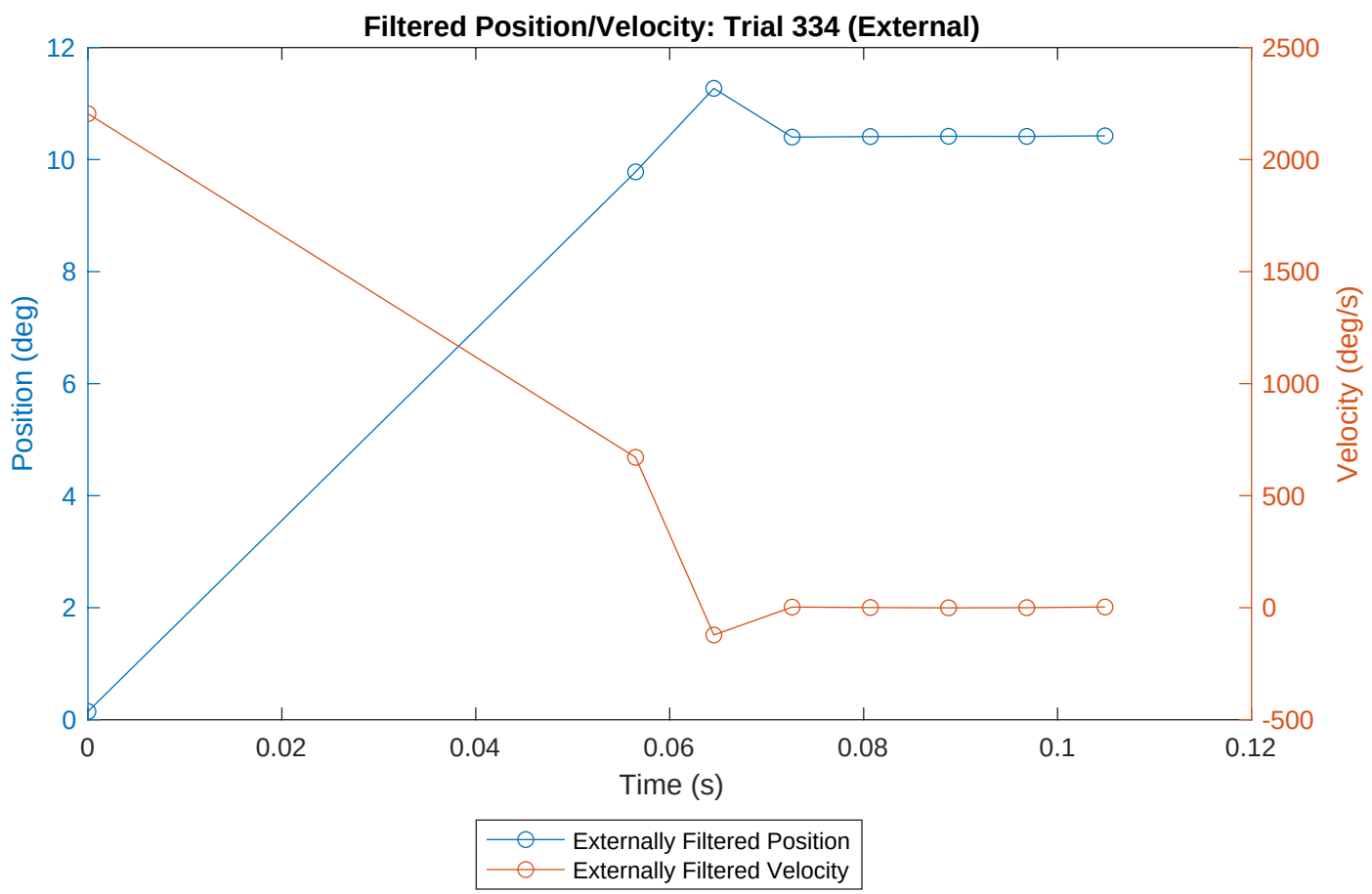

Position (deg)
Time (s)

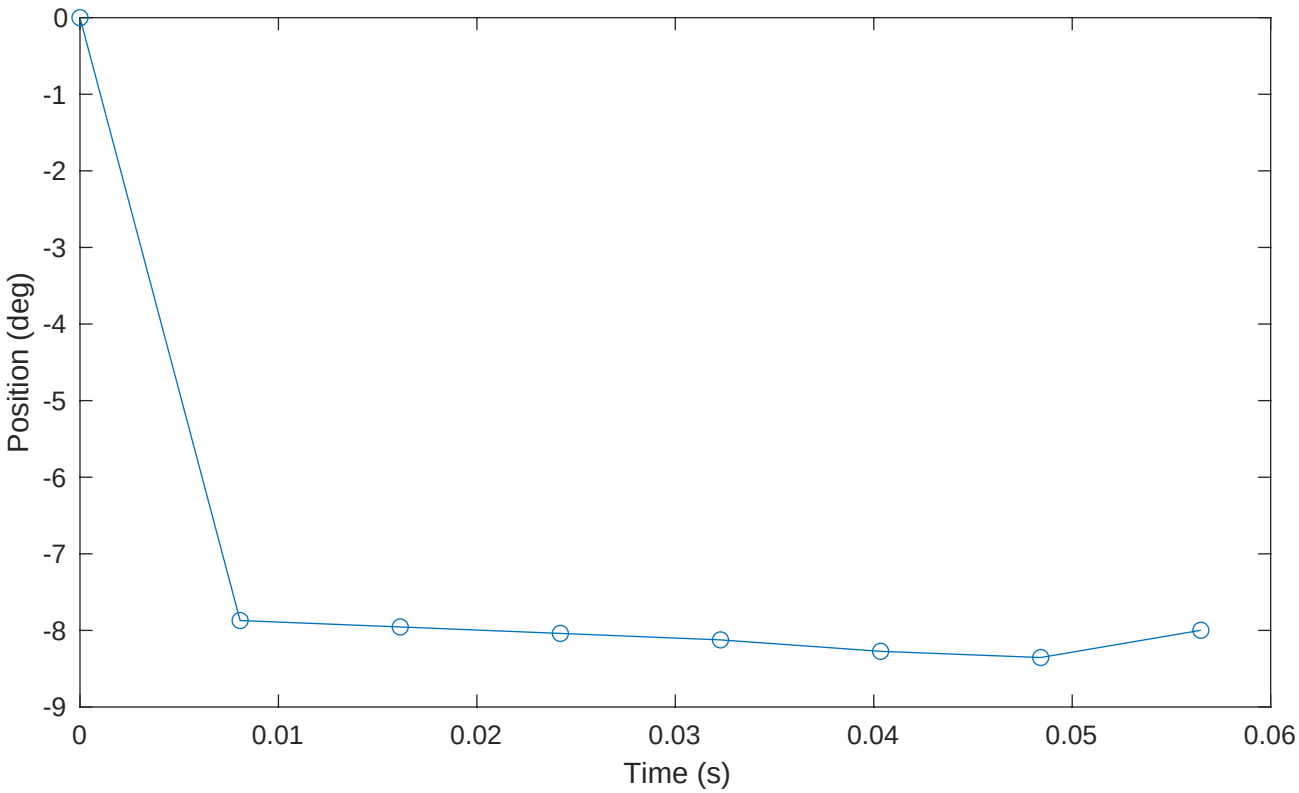

Filtered Position/Velocity: Trial 326 (External)
Position (deg)
Velocity (deg/s)
Time (s)
Externally Filtered Position
Externally Filtered Velocity

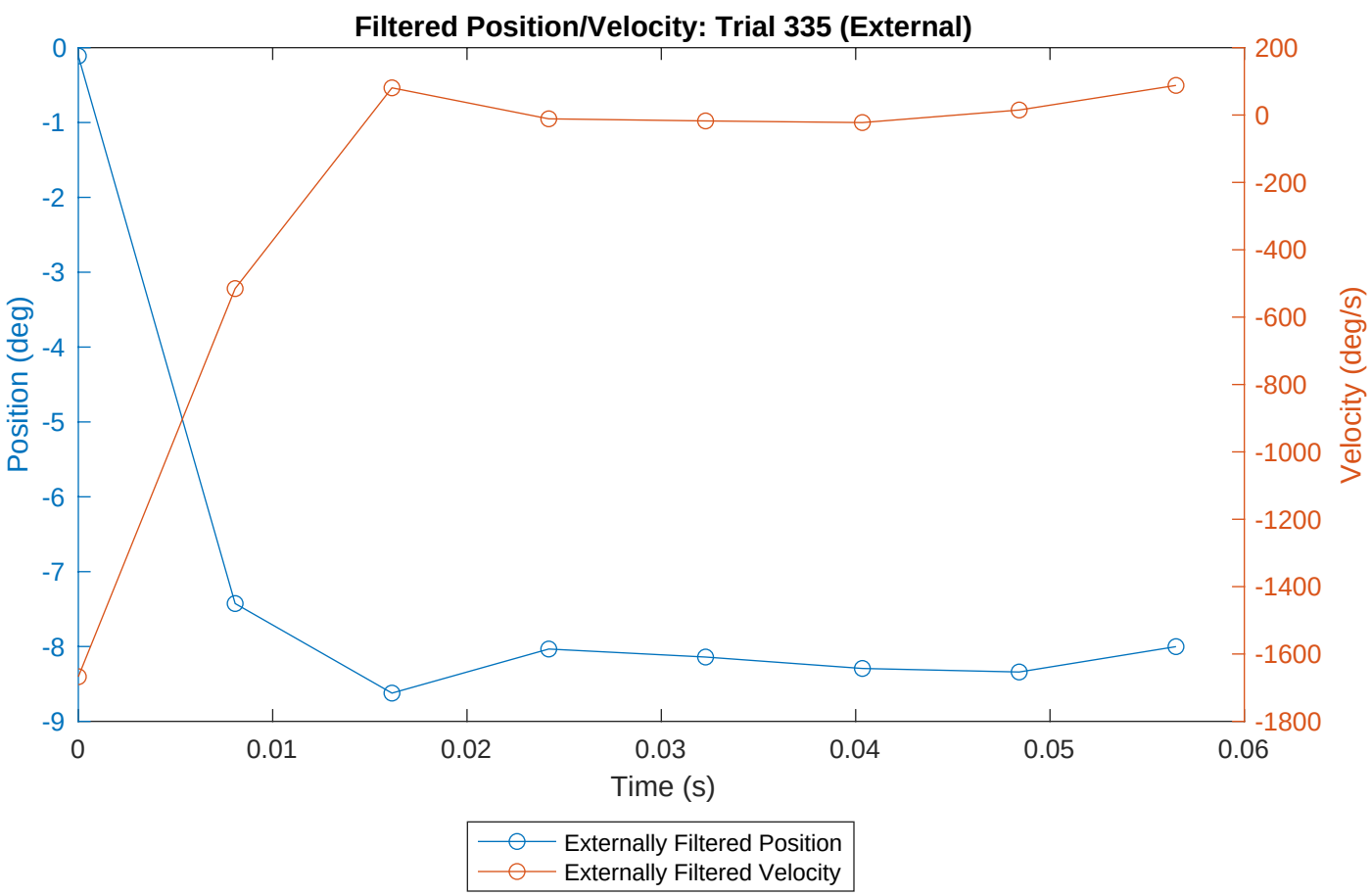

Position (deg)
Time (s)

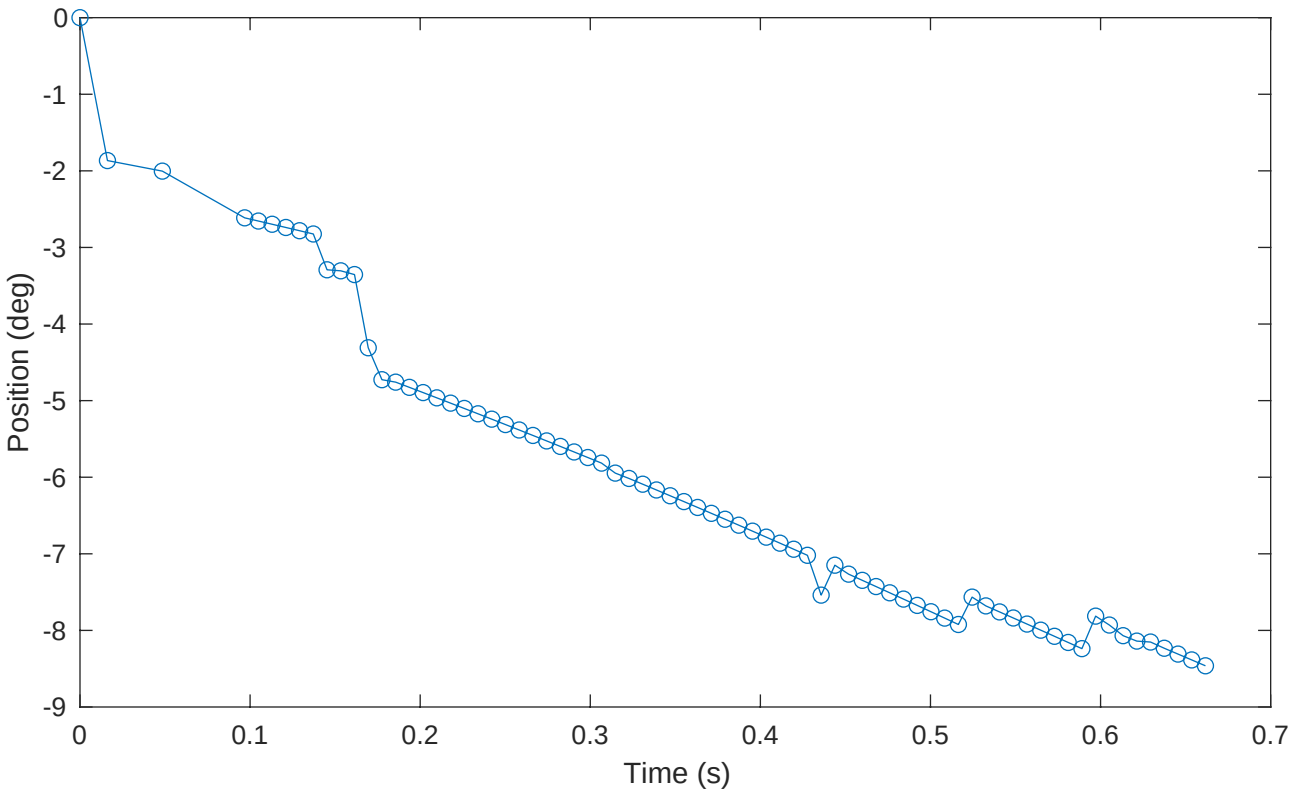

Filtered Position/Velocity: Trial 327 (External)
Position (deg)
Velocity (deg/s)
Time (s)
Externally Filtered Position
Externally Filtered Velocity

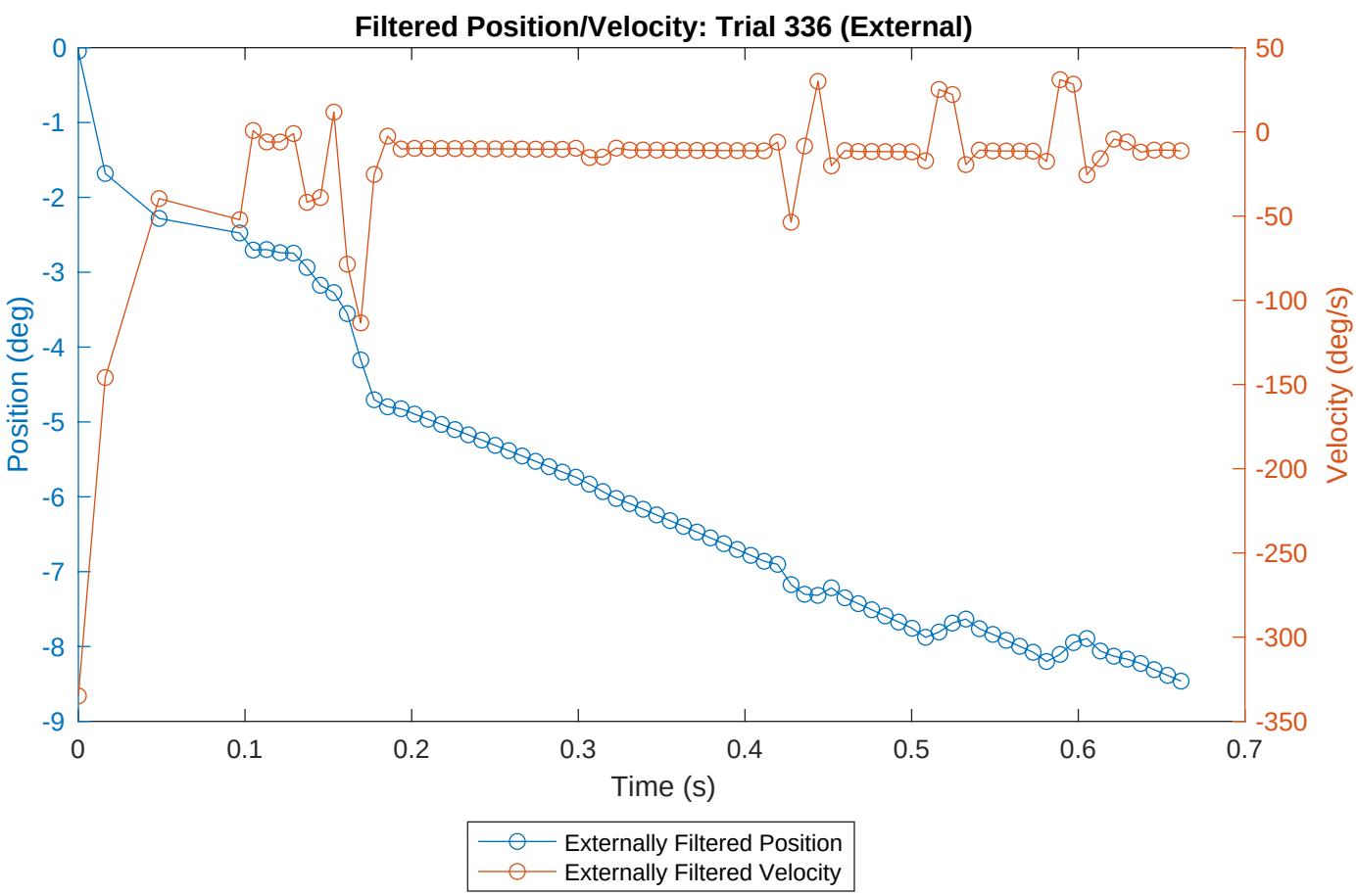

Position (deg)
Time (s)
0
2
4
6
8
10
12
0
0.02
0.04
0.06
0.08
0.1
0.12

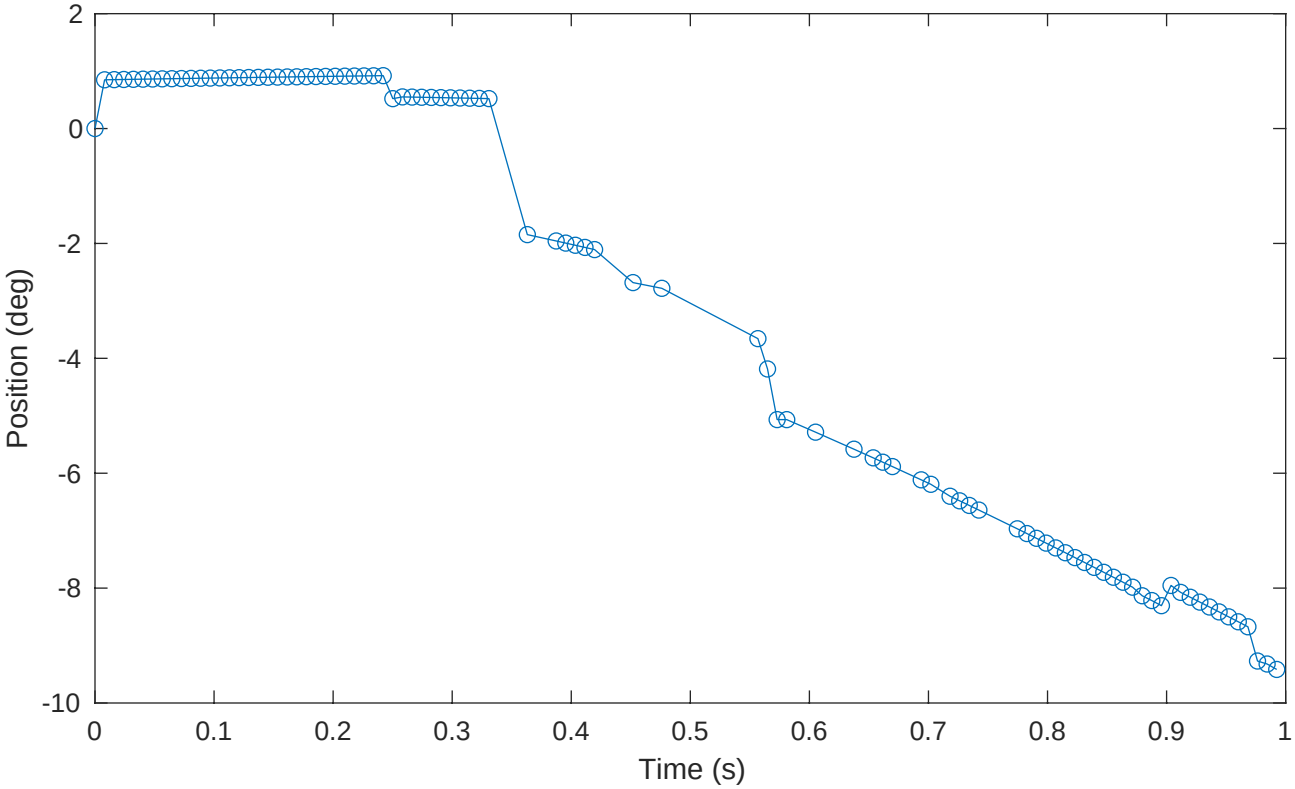

Filtered Position/Velocity: Trial 334 (External)
Position (deg)
Velocity (deg/s)
Time (s)
0
2
4
6
8
10
12
-500
0
500
1000
1500
2000
2500
0
0.02
0.04
0.06
0.08
0.1
0.12
Externally Filtered Position
Externally Filtered Velocity

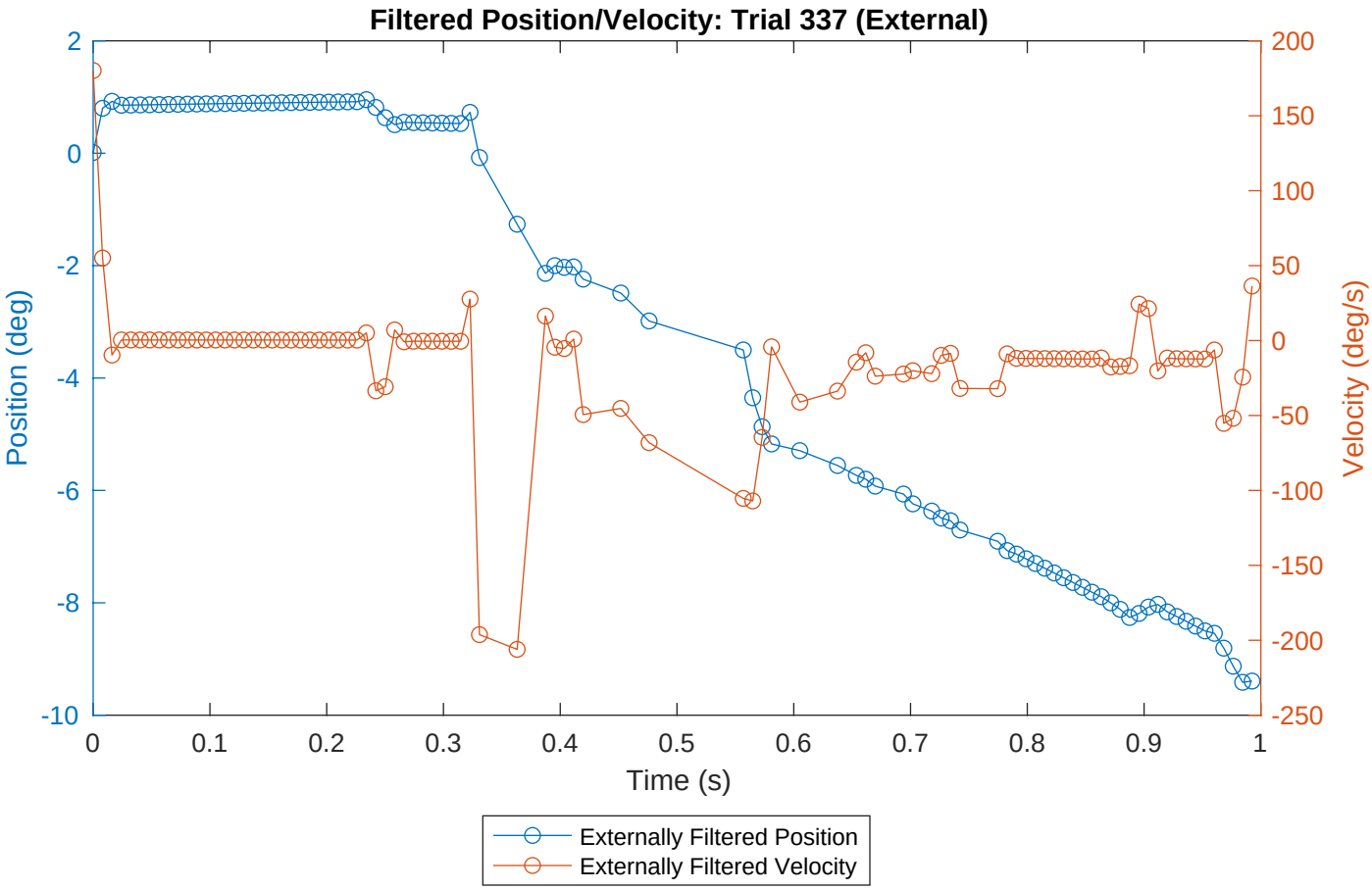

Position (deg)
Time (s)
0
-1
-2
-3
-4
-5
-6
-7
-8
-9
0
0.01
0.02
0.03
0.04
0.05
0.06

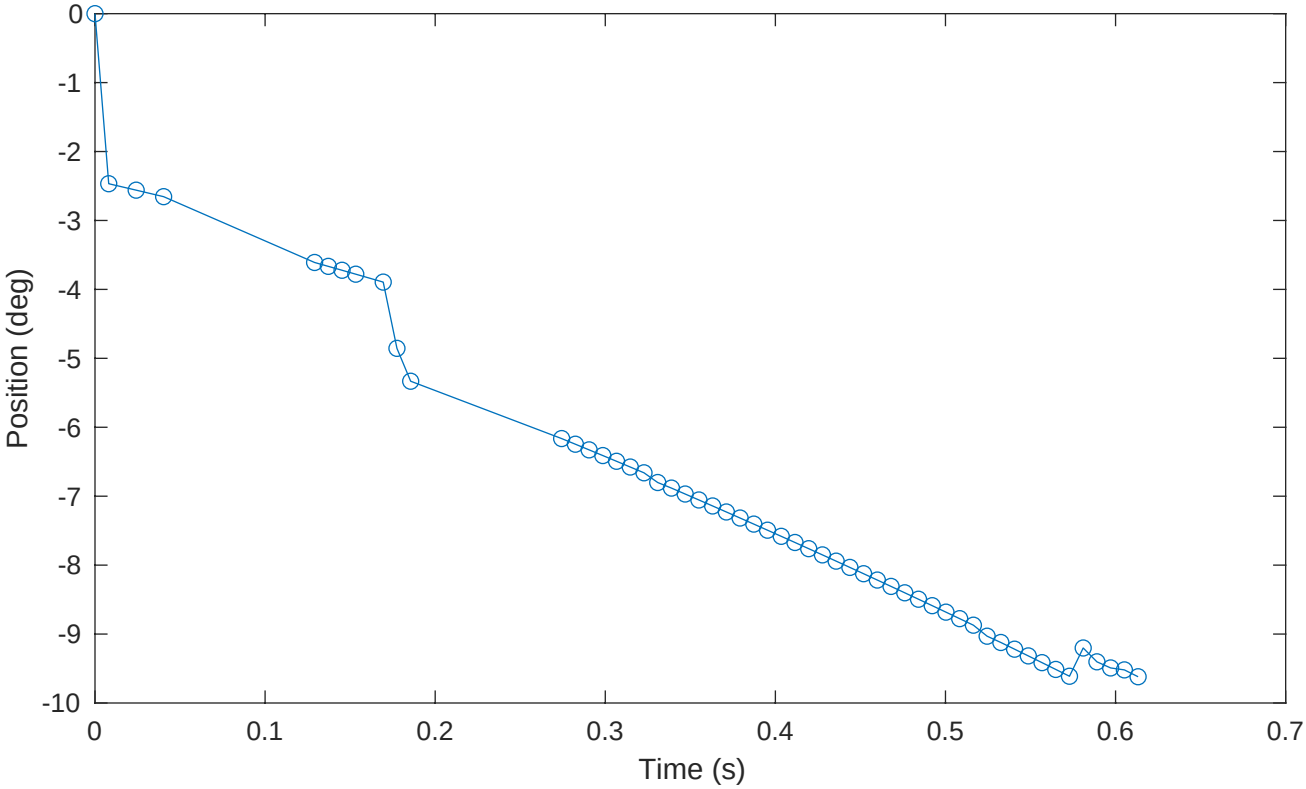

Filtered Position/Velocity: Trial 335 (External)
Position (deg)
Velocity (deg/s)
Time (s)
0
-1
-2
-3
-4
-5
-6
-7
-8
-9
200
0
-200
-400
-600
-800
-1000
-1200
-1400
-1600
-1800
0
0.01
0.02
0.03
0.04
0.05
0.06
Externally Filtered Position
Externally Filtered Velocity

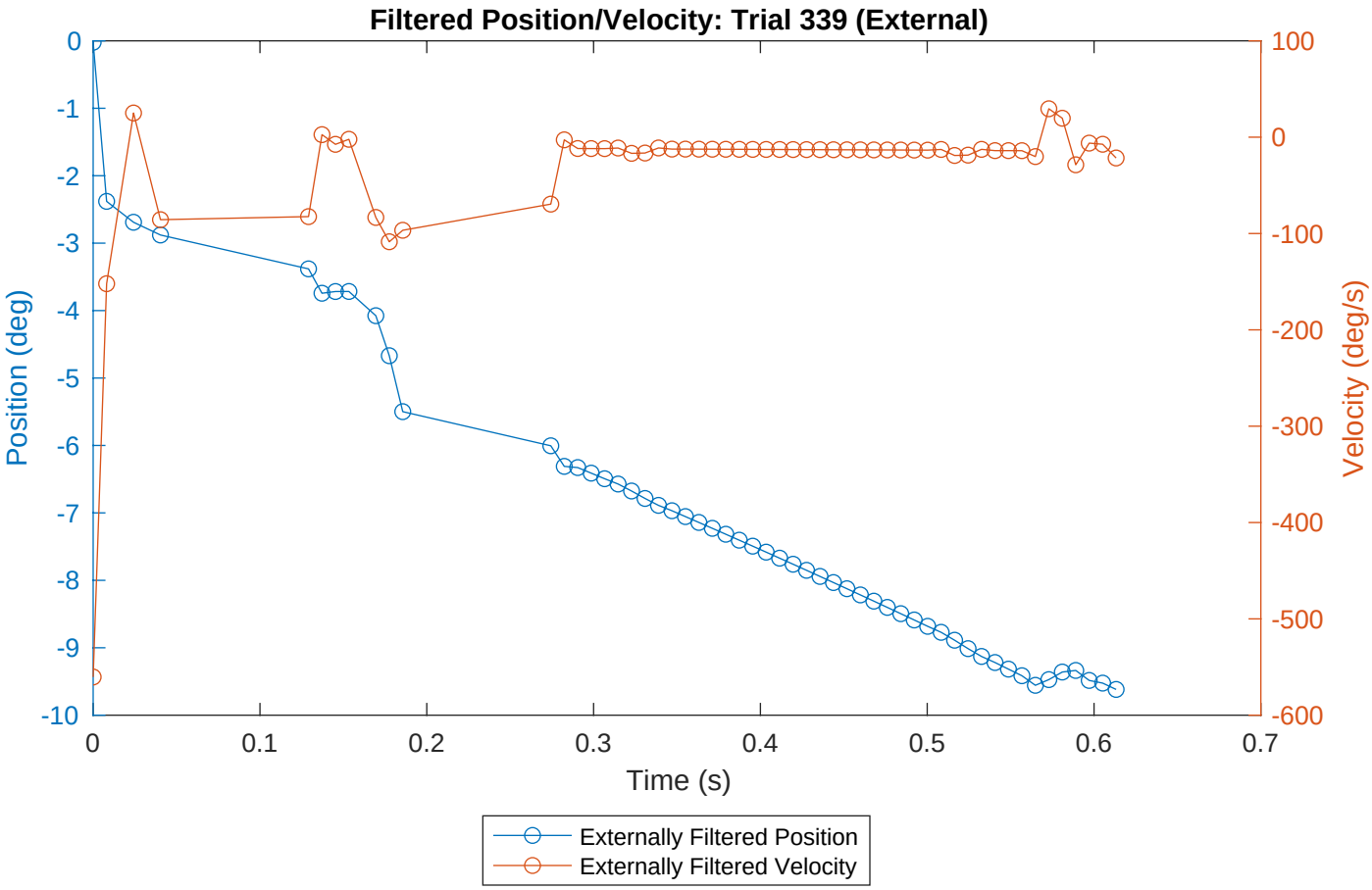

Position (deg)
Time (s)
0
-1
-2
-3
-4
-5
-6
-7
-8
-9
0
0.1
0.2
0.3
0.4
0.5
0.6
0.7

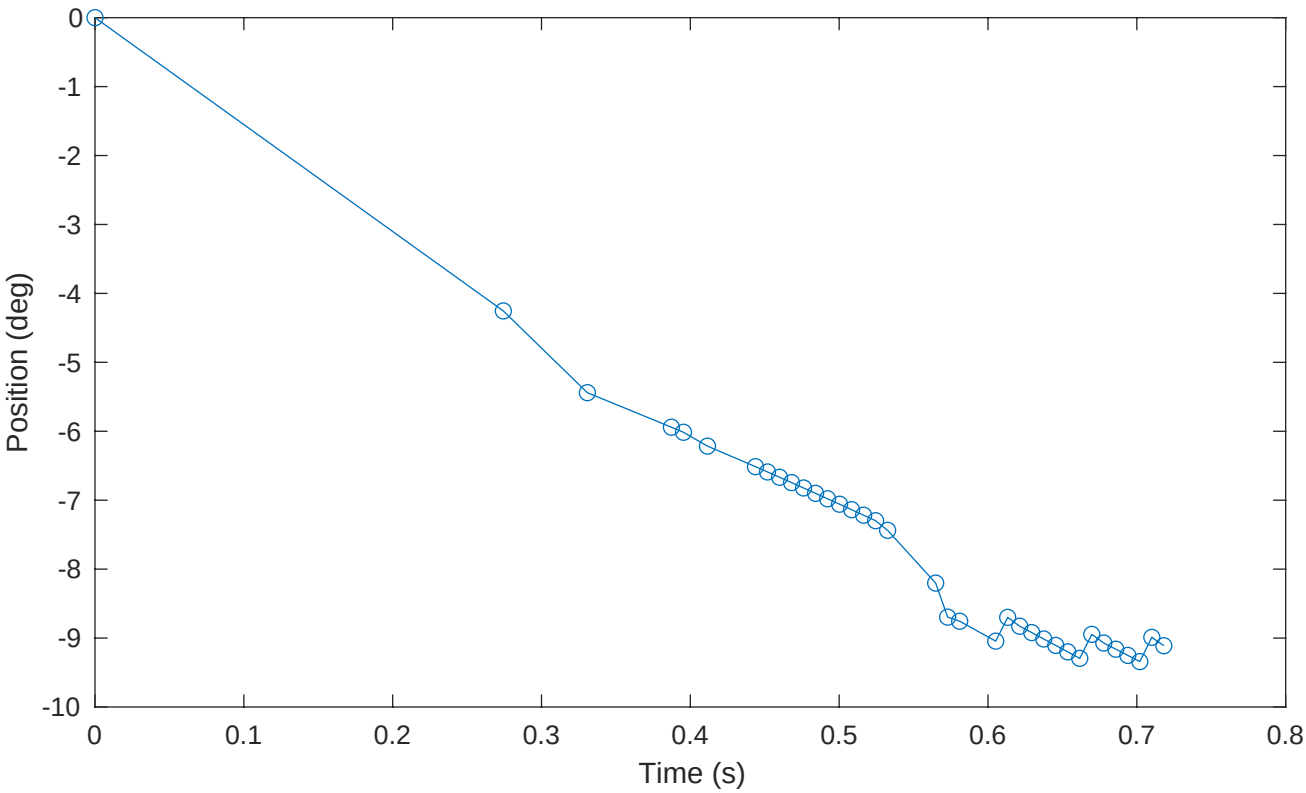

Filtered Position/Velocity: Trial 336 (External)
Position (deg)
Velocity (deg/s)
Time (s)
0
-1
-2
-3
-4
-5
-6
-7
-8
-9
50
0
-50
-100
-150
-200
-250
-300
-350
0
0.1
0.2
0.3
0.4
0.5
0.6
0.7
Externally Filtered Position
Externally Filtered Velocity

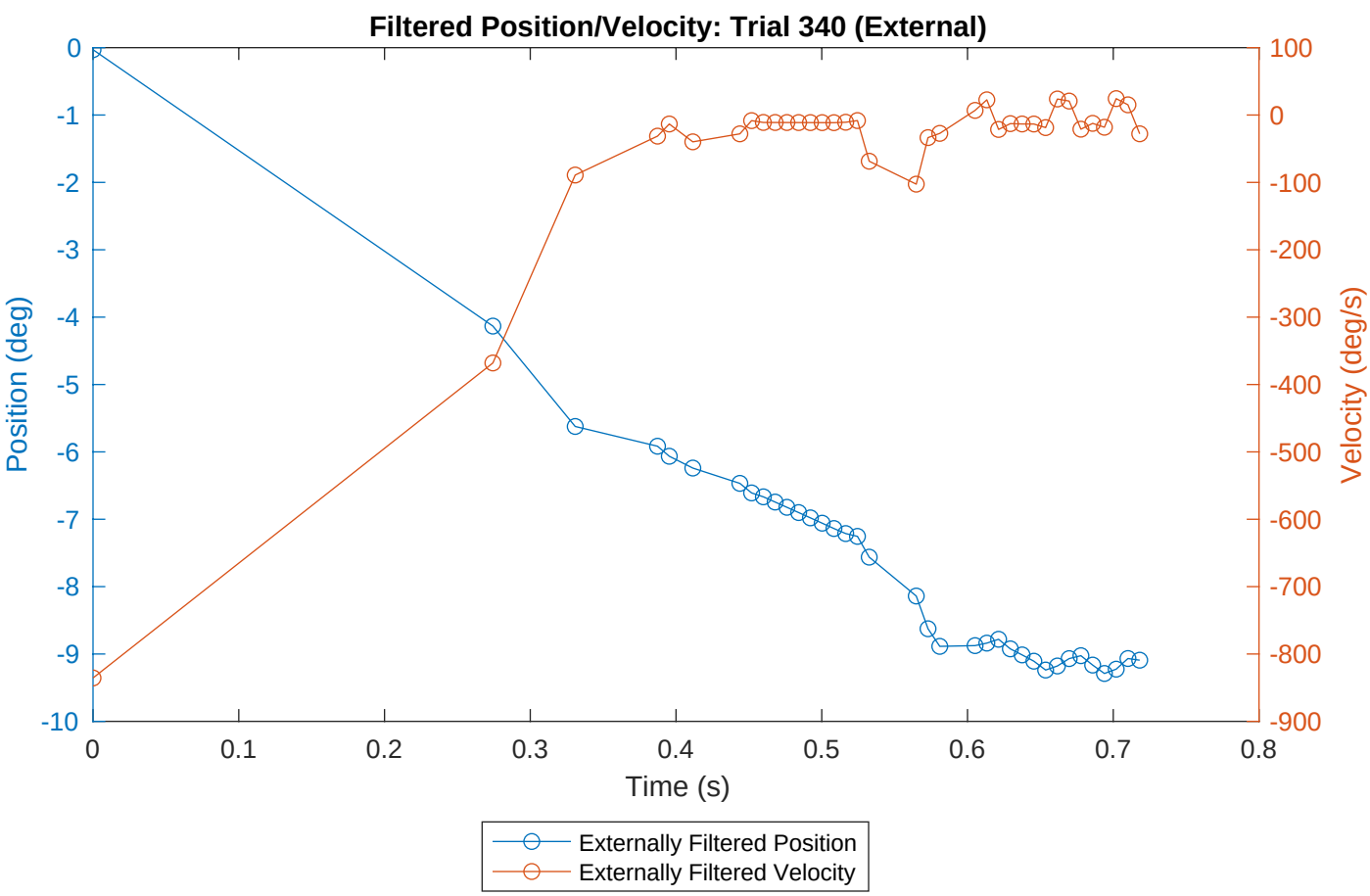

Position (deg)
Time (s)

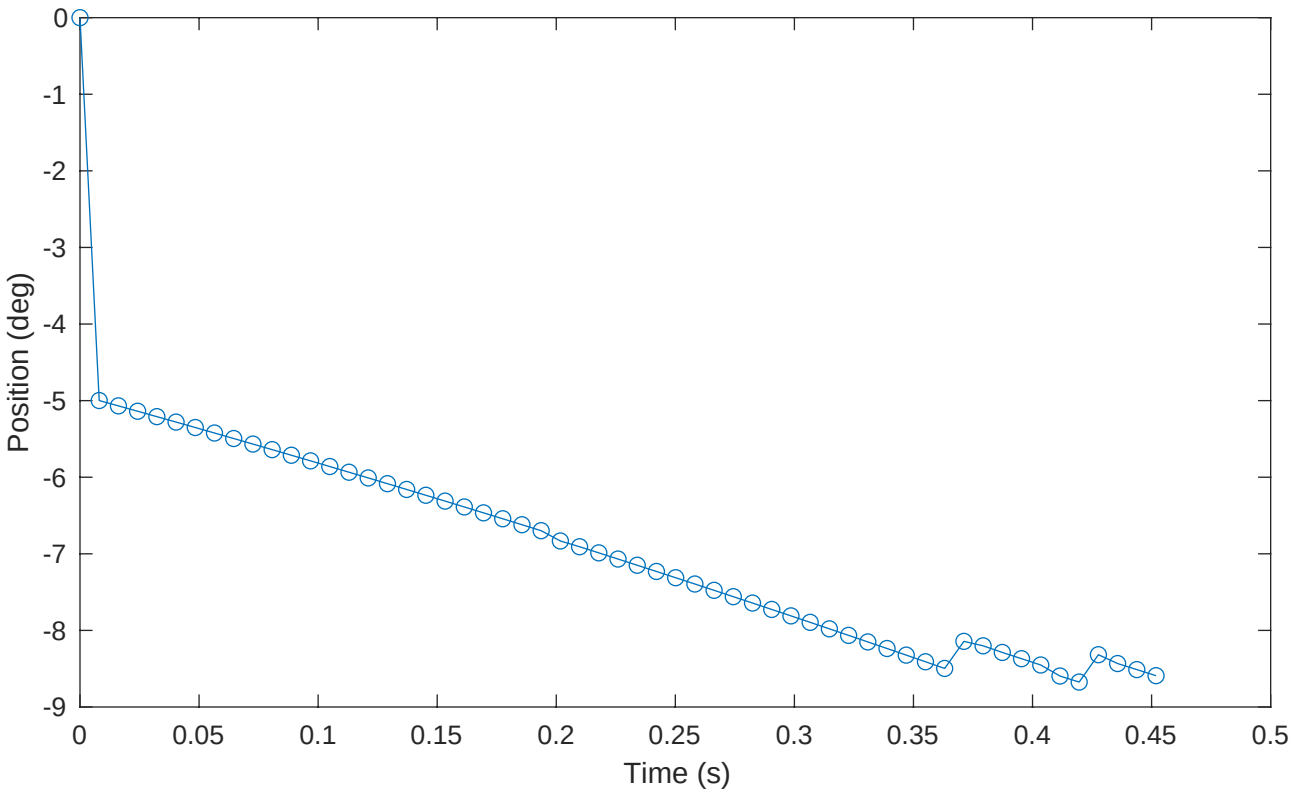

Filtered Position/Velocity: Trial 337 (External)
Position (deg)
Velocity (deg/s)
Time (s)
Externally Filtered Position
Externally Filtered Velocity

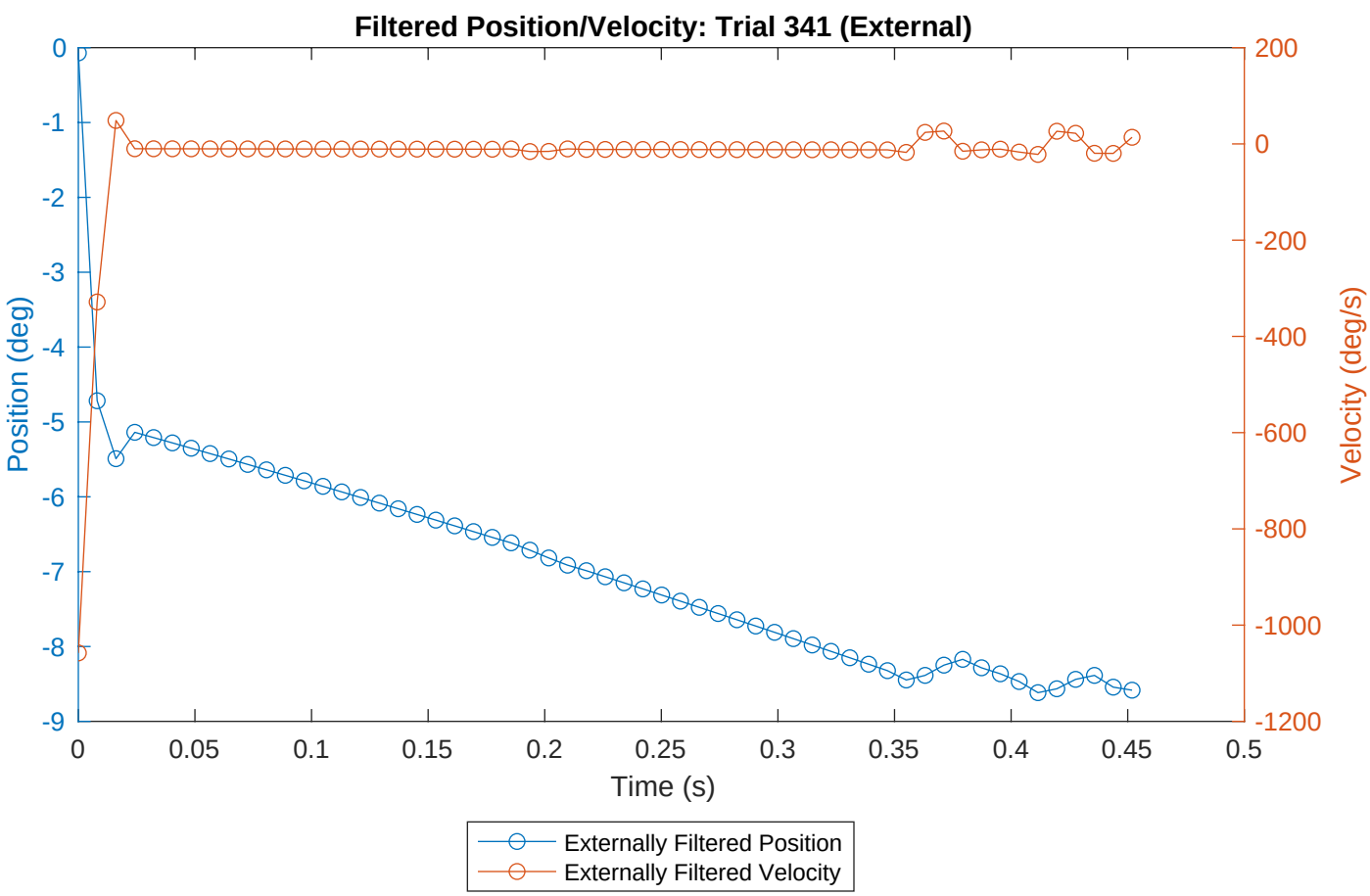

Position (deg)
Time (s)
0
-1
-2
-3
-4
-5
-6
-7
-8
-9
-10
0
0.1
0.2
0.3
0.4
0.5
0.6
0.7

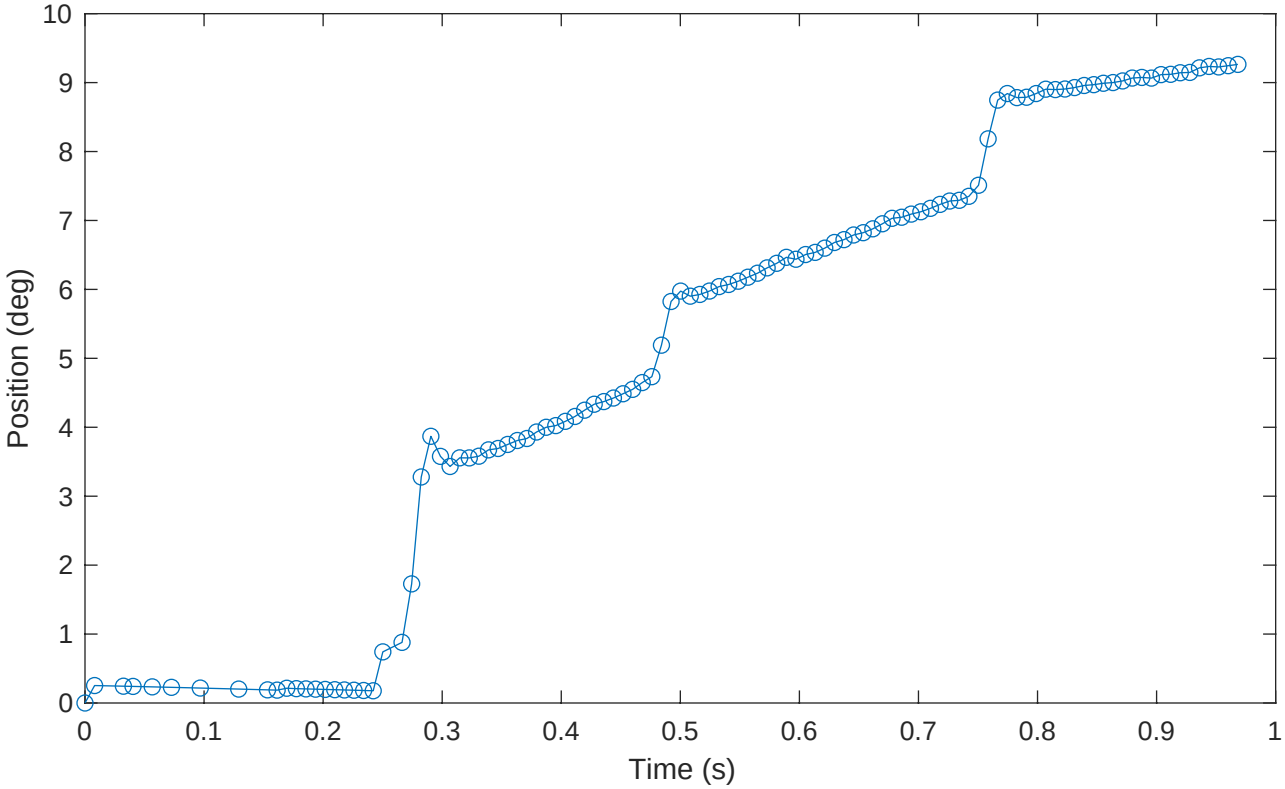

Filtered Position/Velocity: Trial 339 (External)
Position (deg)
Velocity (deg/s)
Time (s)
0
-1
-2
-3
-4
-5
-6
-7
-8
-9
-10
100
0
-100
-200
-300
-400
-500
-600
0
0.1
0.2
0.3
0.4
0.5
0.6
0.7
Externally Filtered Position
Externally Filtered Velocity

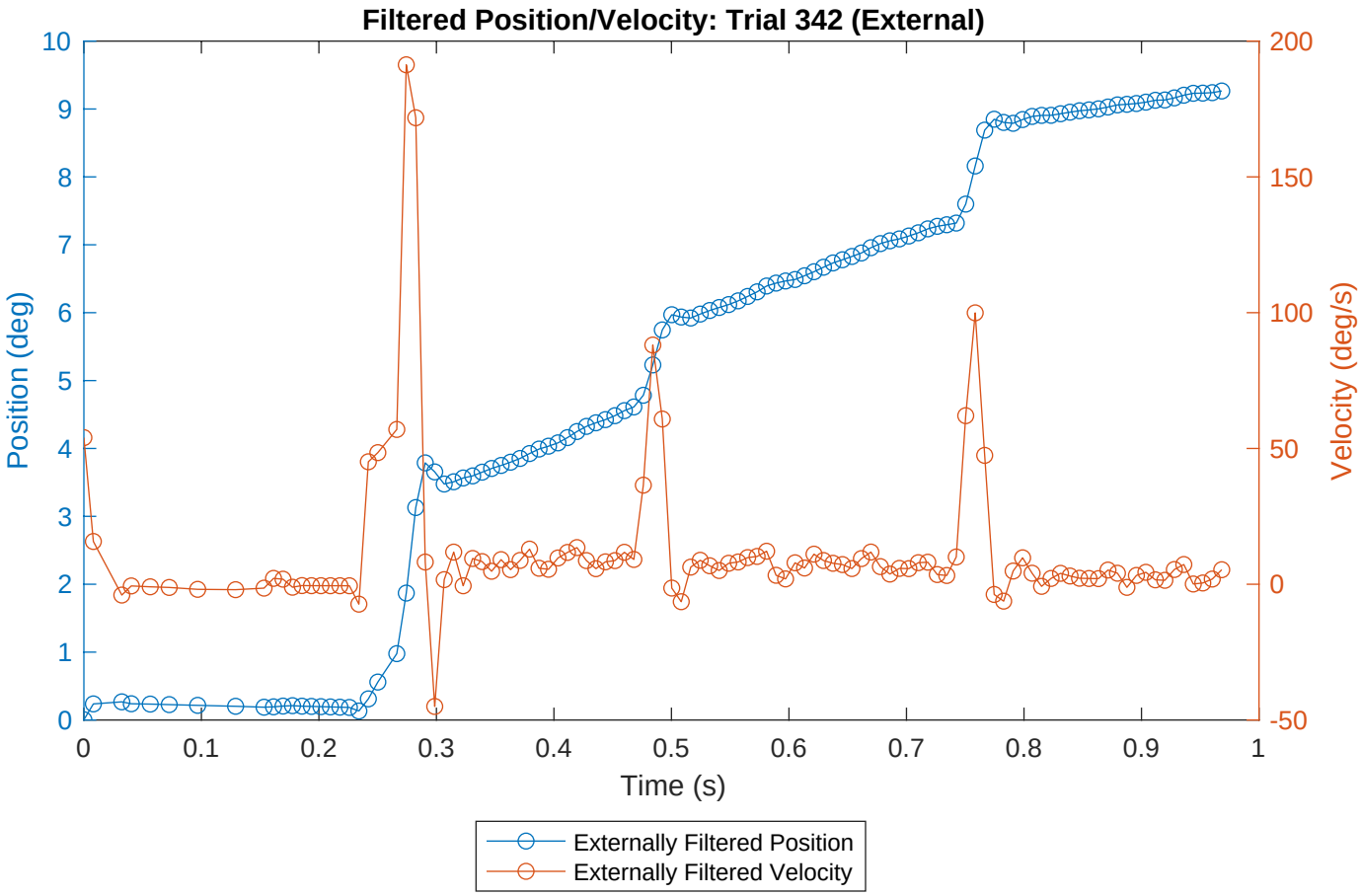

Position (deg)
Time (s)
0
-1
-2
-3
-4
-5
-6
-7
-8
-9
-10
0
0.1
0.2
0.3
0.4
0.5
0.6
0.7
0.8

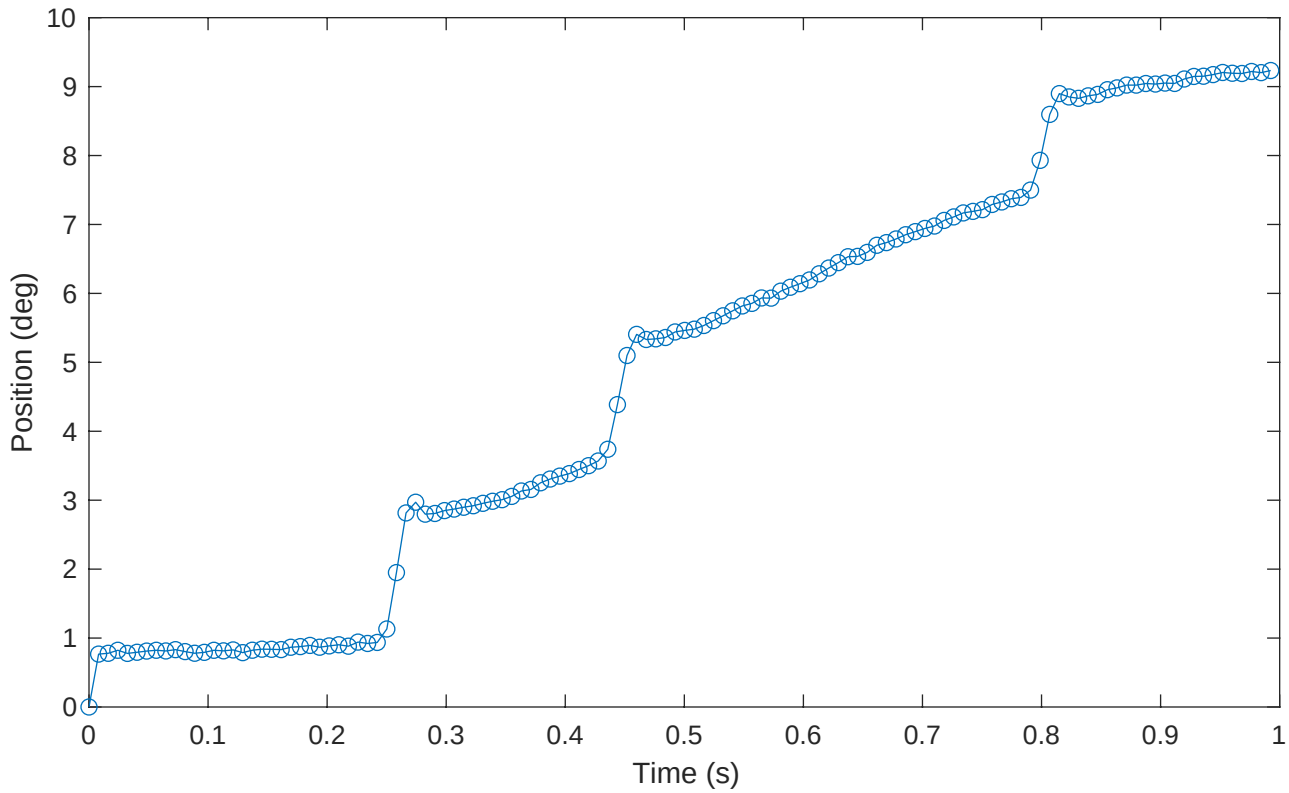

Filtered Position/Velocity: Trial 340 (External)
Position (deg)
Velocity (deg/s)
Time (s)
0
-1
-2
-3
-4
-5
-6
-7
-8
-9
-10
100
0
-100
-200
-300
-400
-500
-600
-700
-800
-900
0
0.1
0.2
0.3
0.4
0.5
0.6
0.7
0.8
Externally Filtered Position
Externally Filtered Velocity

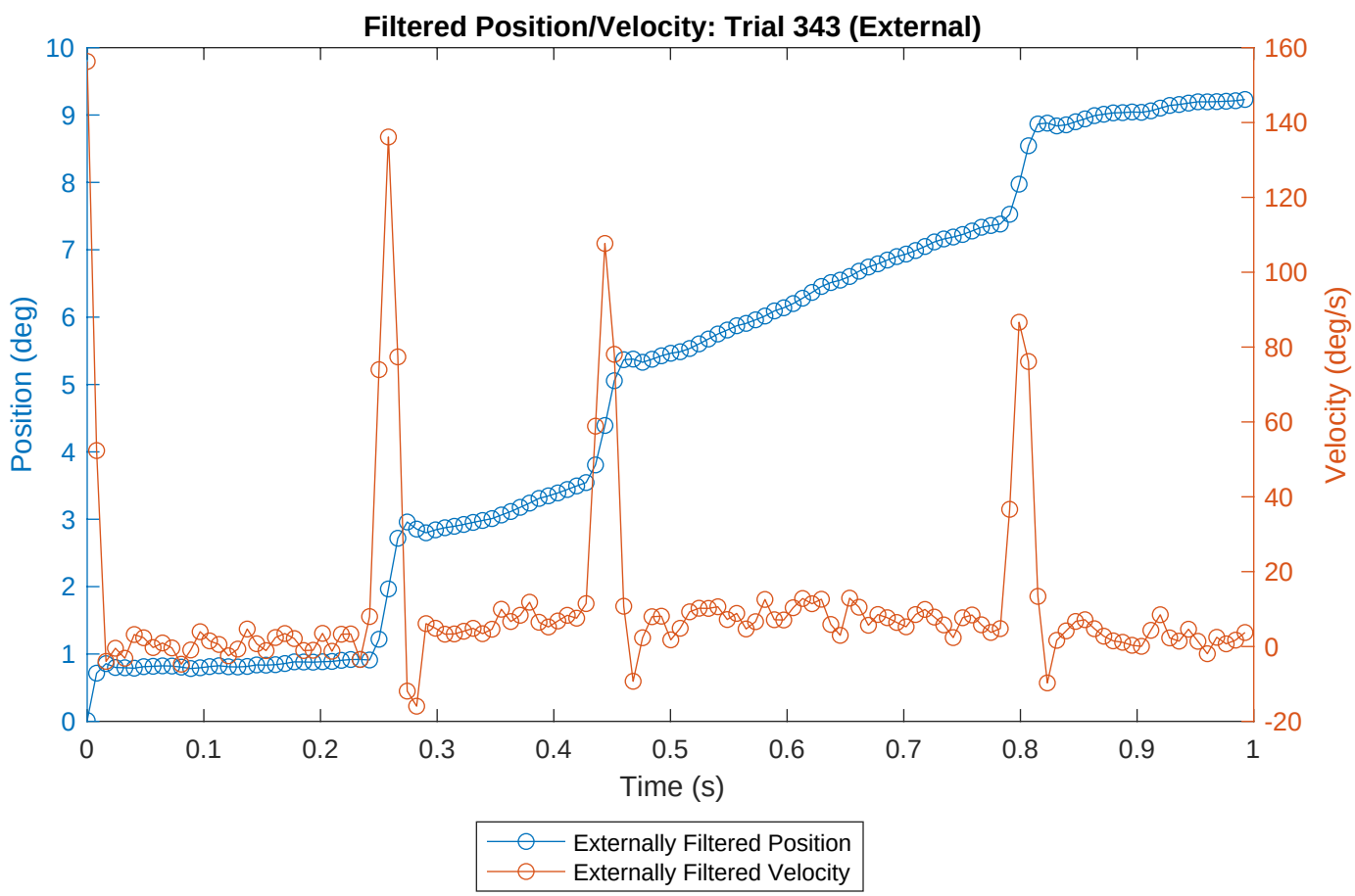

Position (deg)
Time (s)
0
-1
-2
-3
-4
-5
-6
-7
-8
-9
0
0.05
0.1
0.15
0.2
0.25
0.3
0.35
0.4
0.45
0.5

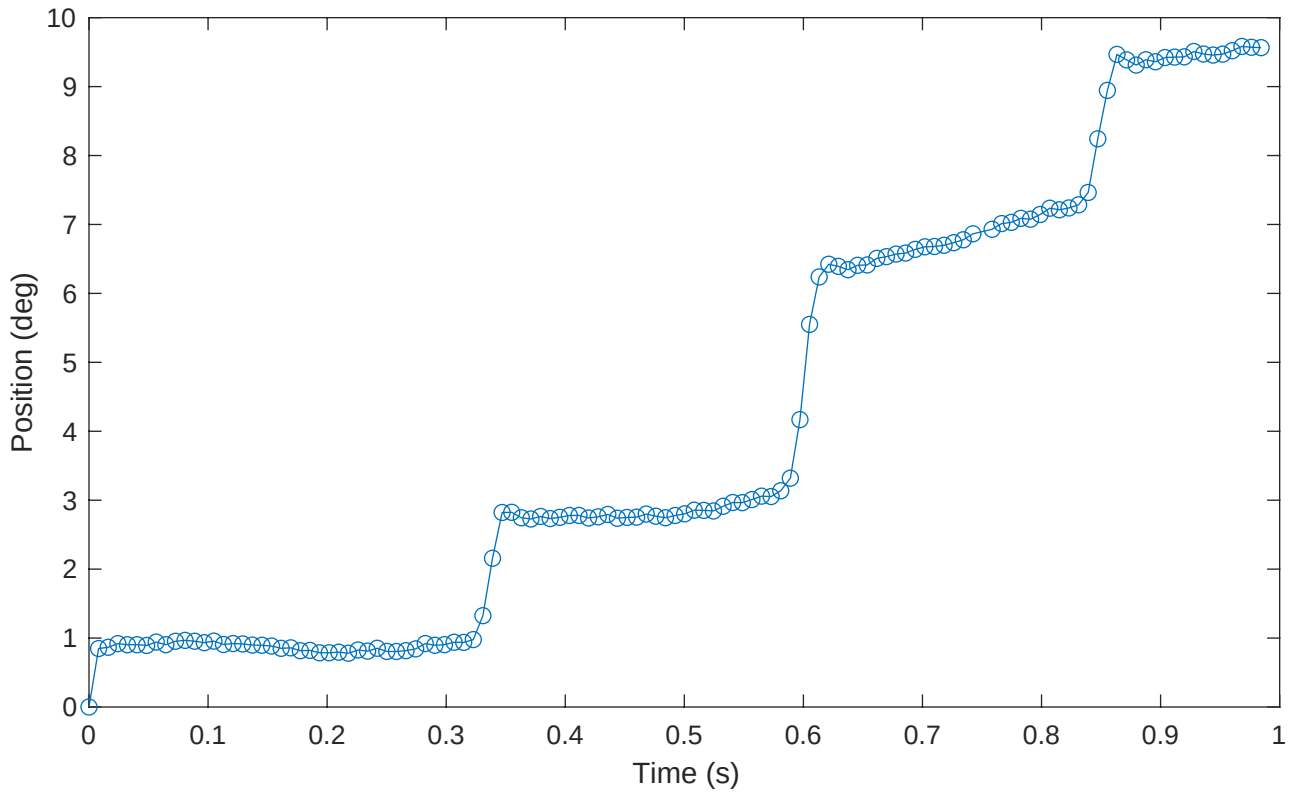

Filtered Position/Velocity: Trial 341 (External)
Position (deg)
Velocity (deg/s)
Time (s)
0
-1
-2
-3
-4
-5
-6
-7
-8
-9
200
0
-200
-400
-600
-800
-1000
-1200
0
0.05
0.1
0.15
0.2
0.25
0.3
0.35
0.4
0.45
0.5
Externally Filtered Position
Externally Filtered Velocity

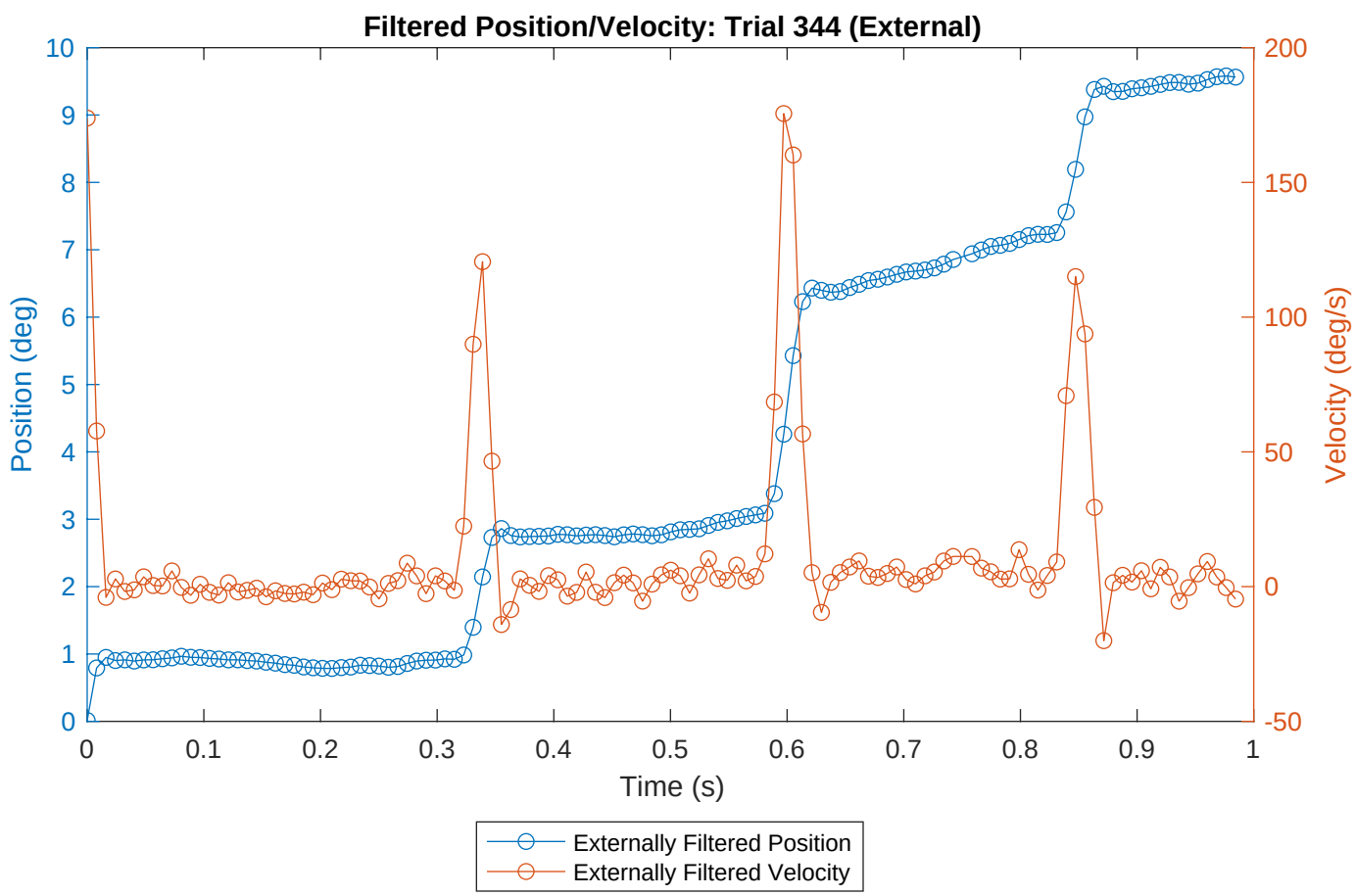

Position (deg)
Time (s)

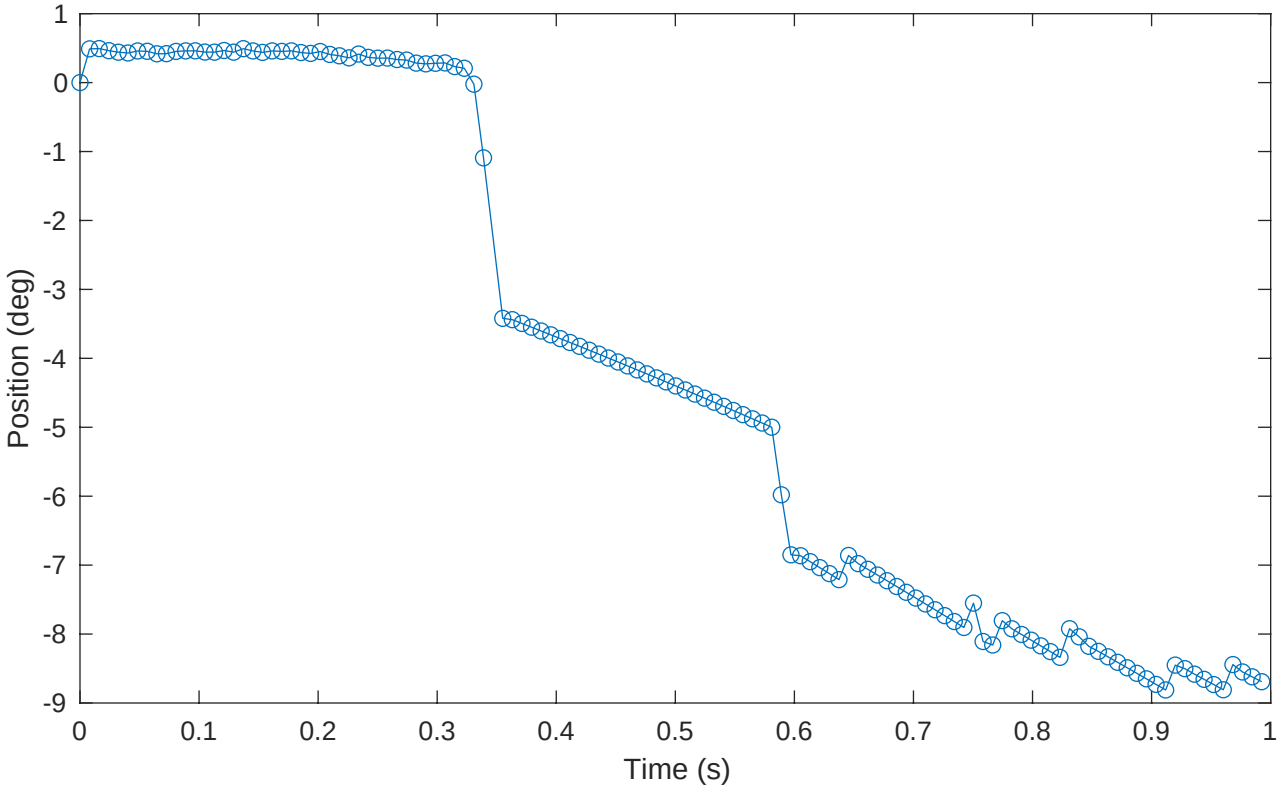

Filtered Position/Velocity: Trial 342 (External)
Position (deg)
Velocity (deg/s)
Time (s)
Externally Filtered Position
Externally Filtered Velocity

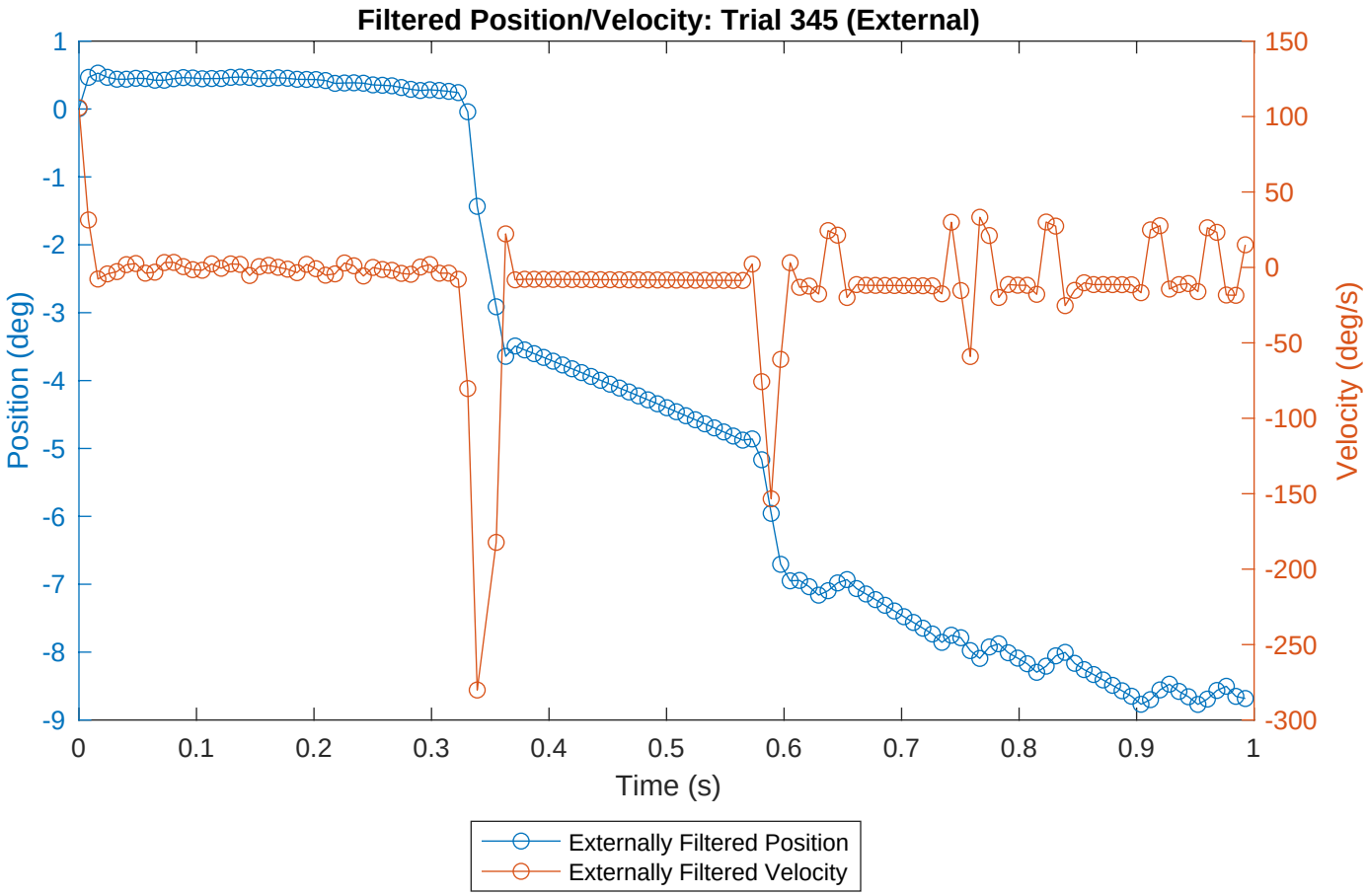

Position (deg)
Time (s)

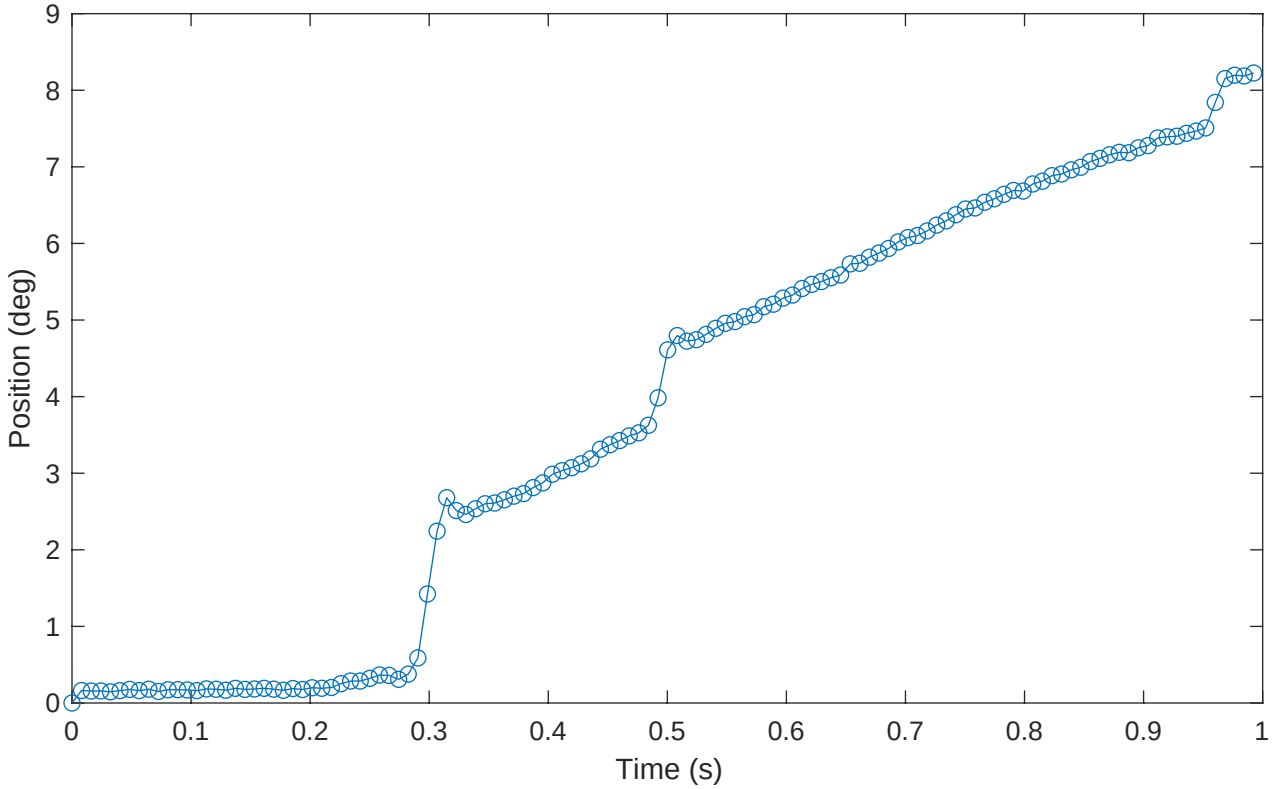

Filtered Position/Velocity: Trial 343 (External)
Position (deg)
Velocity (deg/s)
Time (s)
Externally Filtered Position
Externally Filtered Velocity

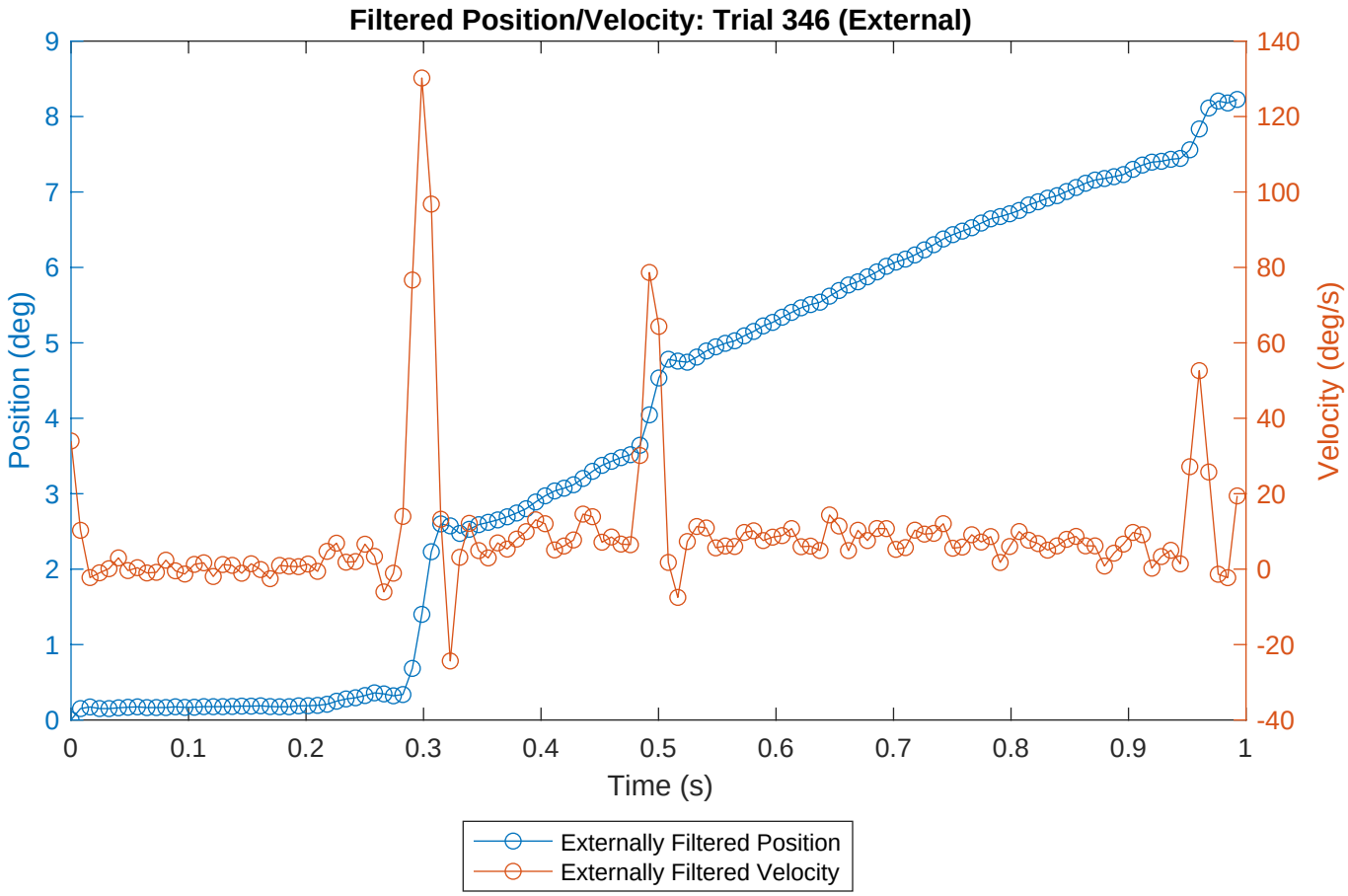

Position (deg)
Time (s)

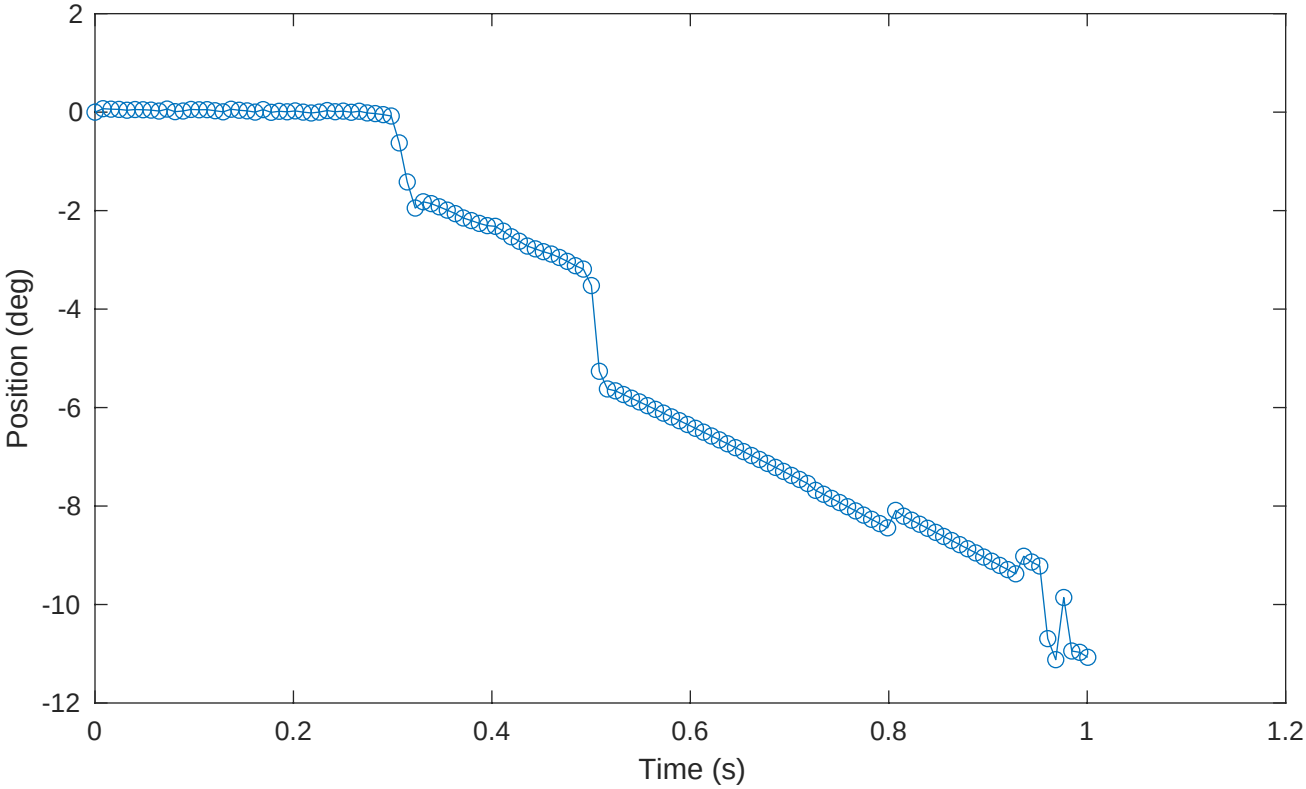

Filtered Position/Velocity: Trial 344 (External)
Position (deg)
Velocity (deg/s)
Time (s)
Externally Filtered Position
Externally Filtered Velocity

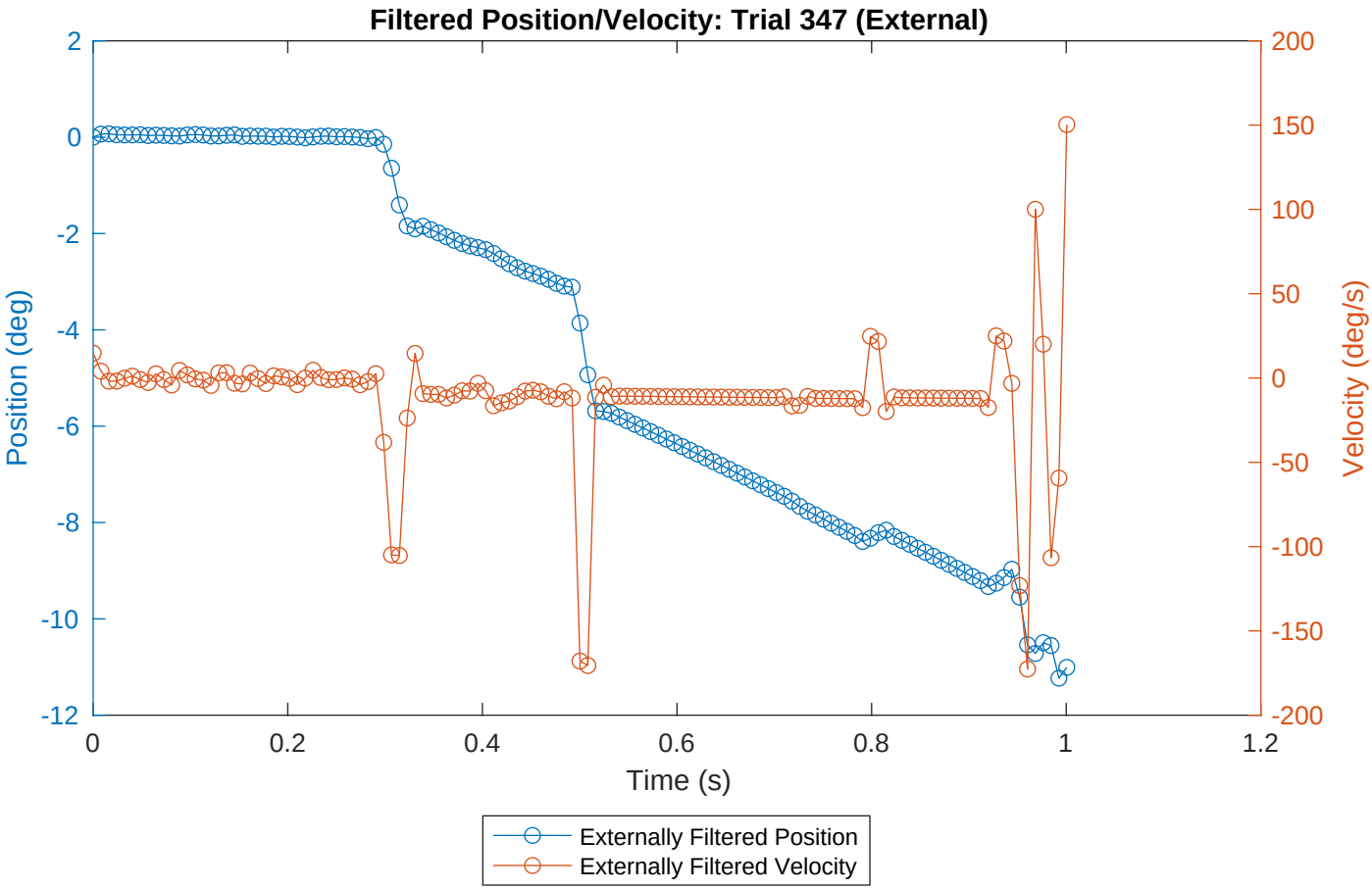

Position (deg)
Time (s)

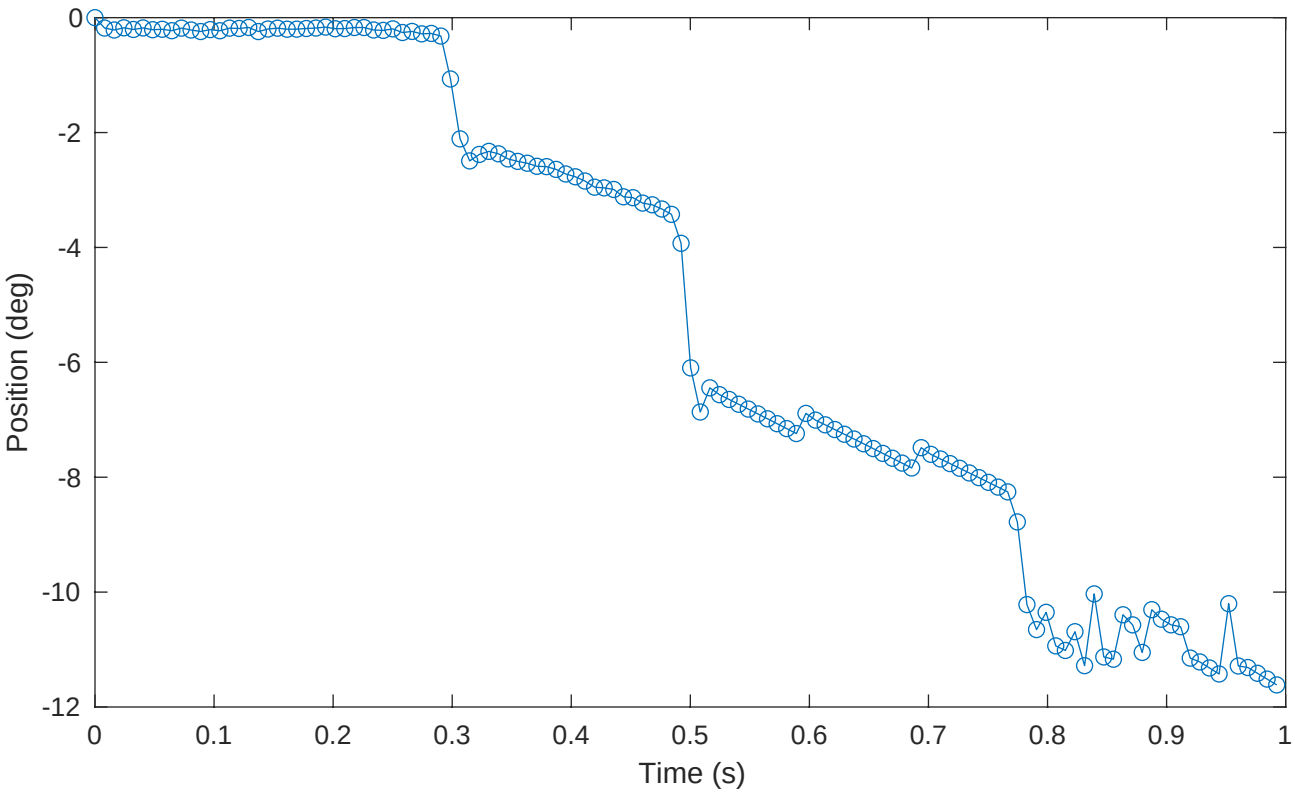

Filtered Position/Velocity: Trial 345 (External)
Position (deg)
Velocity (deg/s)
Time (s)
Externally Filtered Position
Externally Filtered Velocity

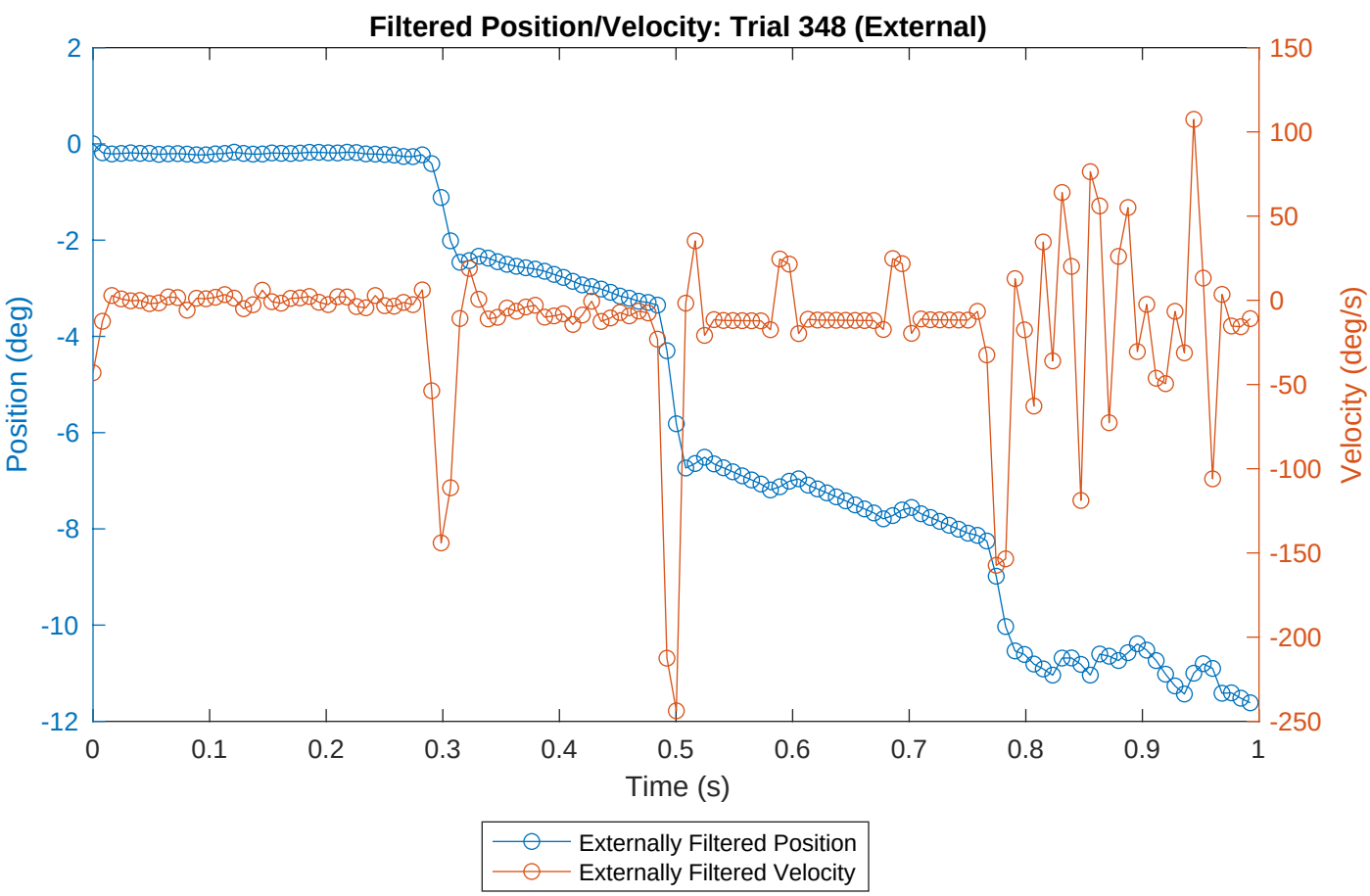

Position (deg)
Time (s)
0
1
2
3
4
5
6
7
8
9
0
0.1
0.2
0.3
0.4
0.5
0.6
0.7
0.8
0.9
1

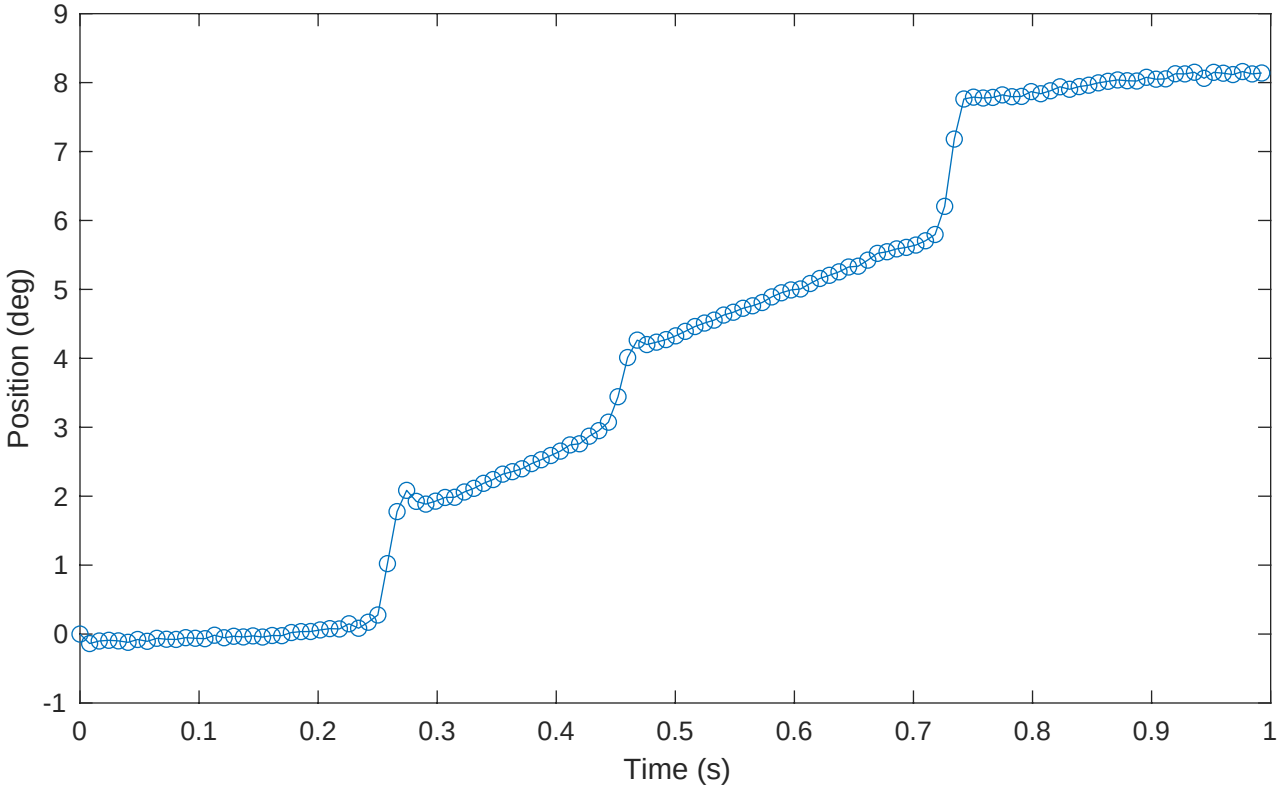

Filtered Position/Velocity: Trial 346 (External)
Position (deg)
Velocity (deg/s)
Time (s)
Externally Filtered Position
Externally Filtered Velocity

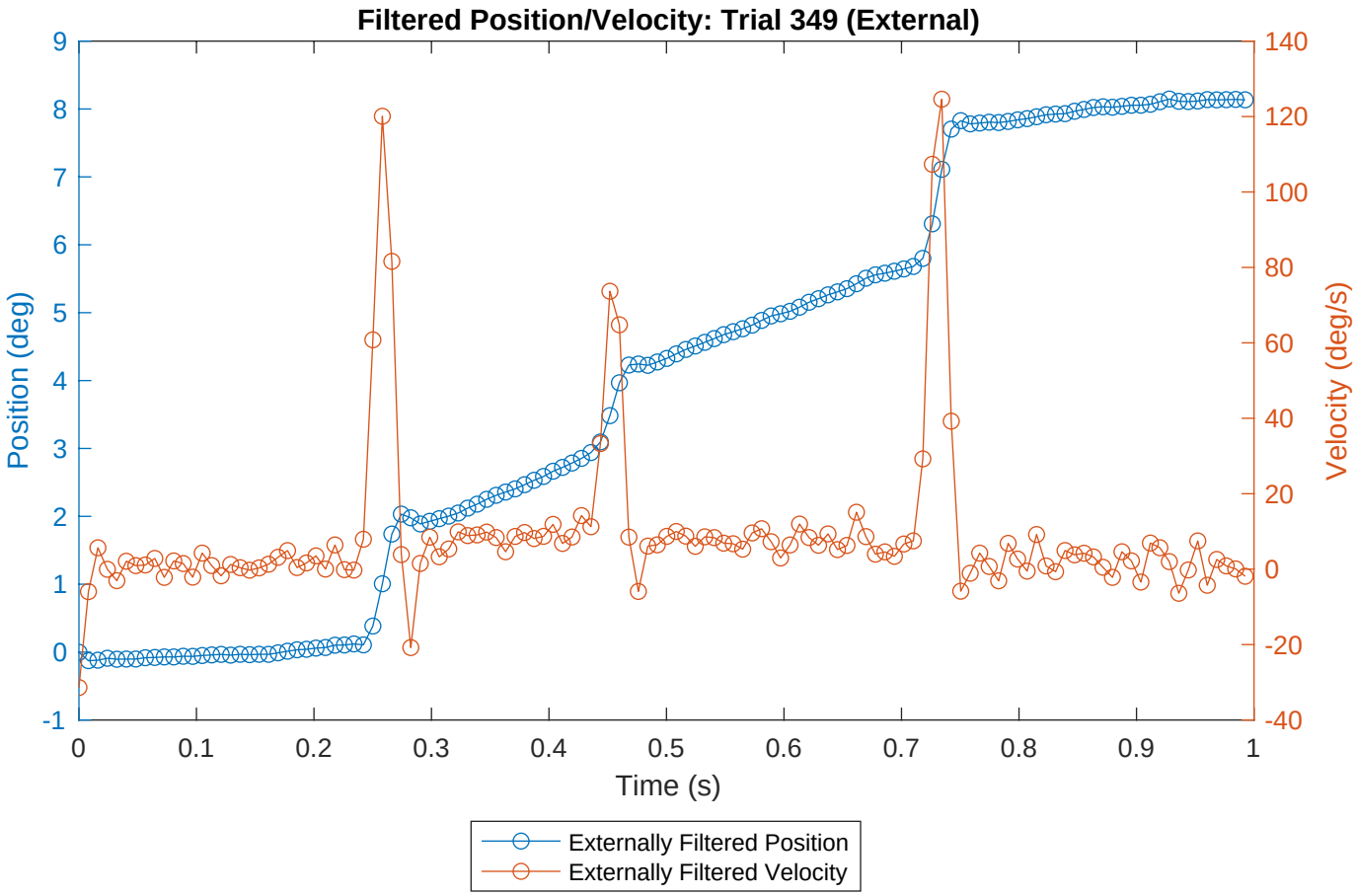

Position (deg)
Time (s)
2
0
-2
-4
-6
-8
-10
-12
0
0.2
0.4
0.6
0.8
1
1.2

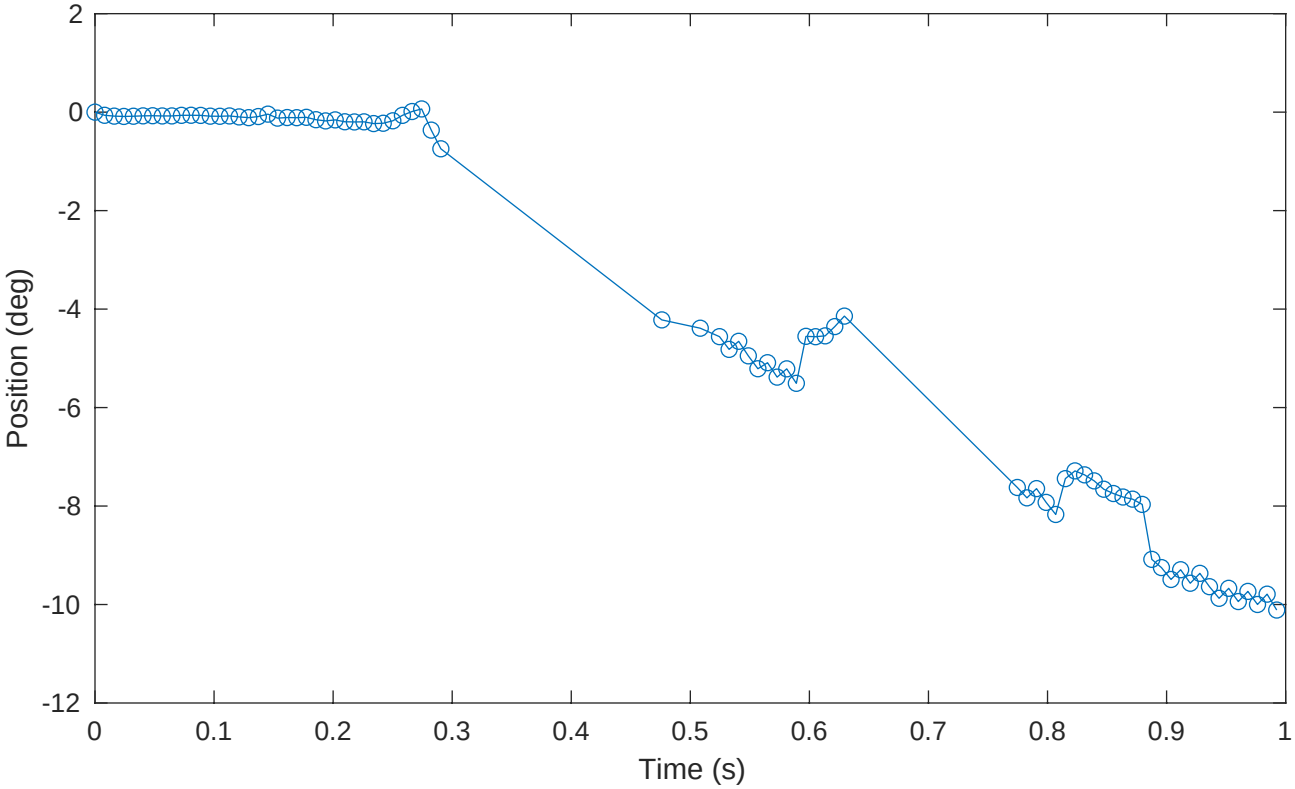

Filtered Position/Velocity: Trial 347 (External)
Position (deg)
Velocity (deg/s)
Time (s)
2
0
-2
-4
-6
-8
-10
-12
200
150
100
50
0
-50
-100
-150
-200
0
0.2
0.4
0.6
0.8
1
1.2
Externally Filtered Position
Externally Filtered Velocity

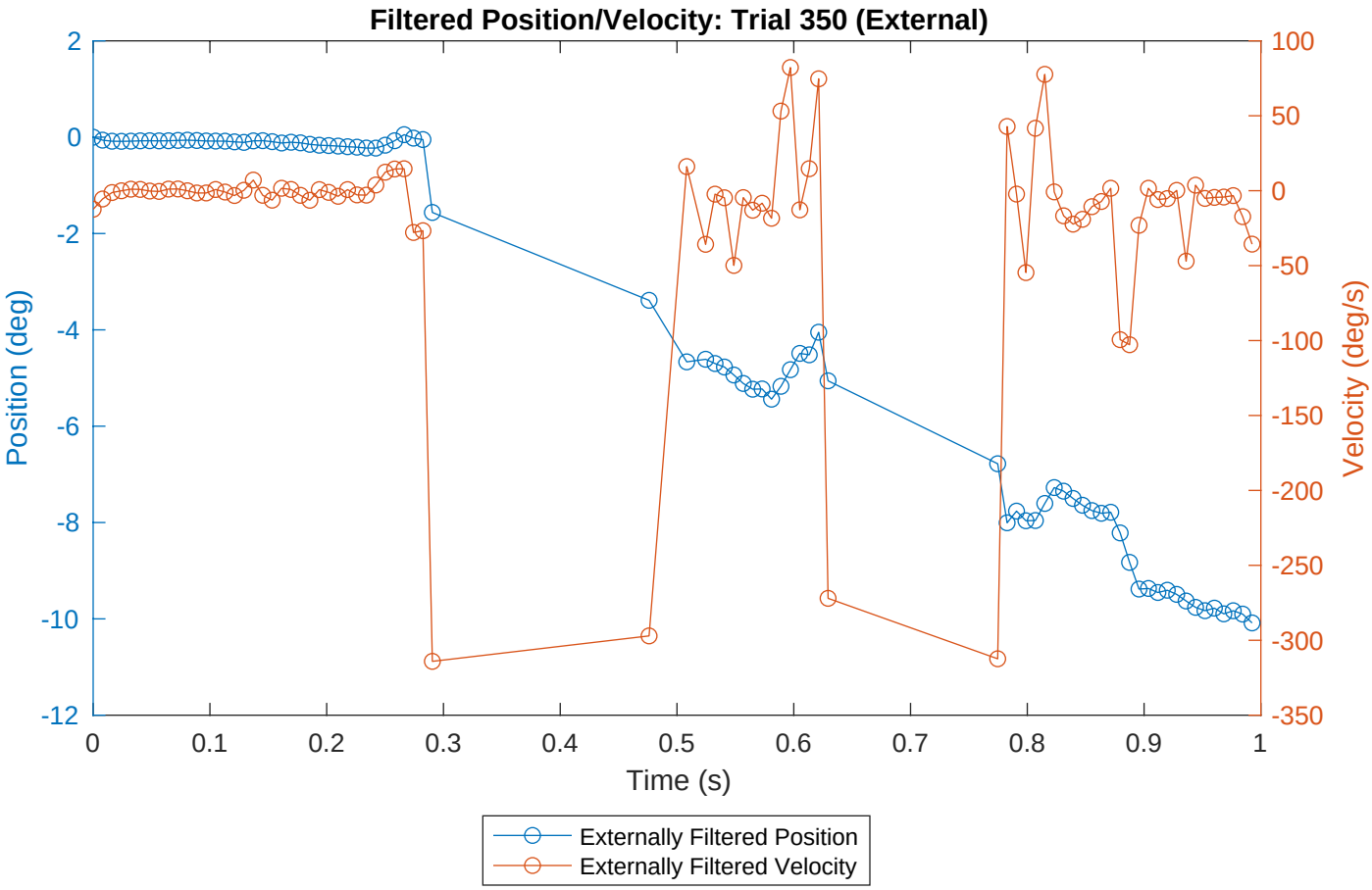

Position (deg)
Time (s)
0
-2
-4
-6
-8
-10
-12
0
0.1
0.2
0.3
0.4
0.5
0.6
0.7
0.8
0.9
1

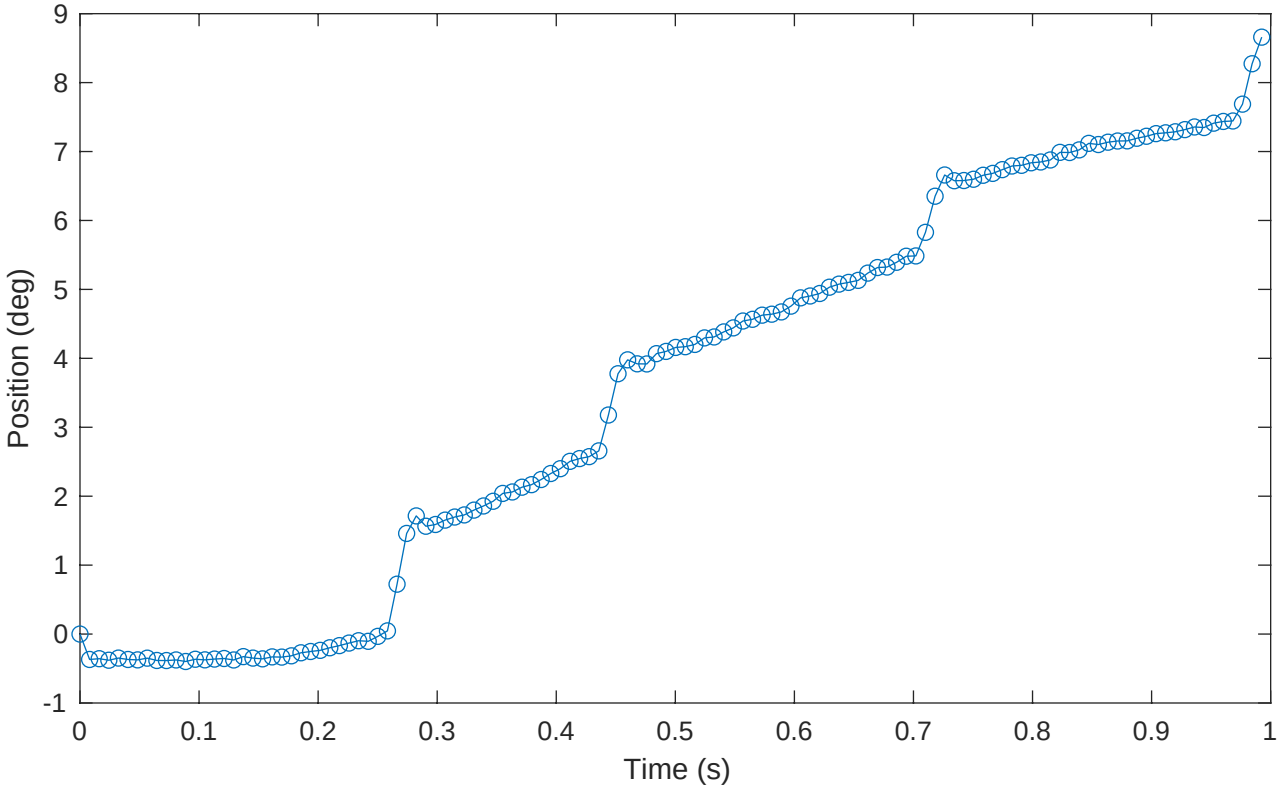

Filtered Position/Velocity: Trial 348 (External)
Position (deg)
Velocity (deg/s)
Time (s)
2
0
-2
-4
-6
-8
-10
-12
150
100
50
0
-50
-100
-150
-200
-250
0
0.1
0.2
0.3
0.4
0.5
0.6
0.7
0.8
0.9
1
Externally Filtered Position
Externally Filtered Velocity

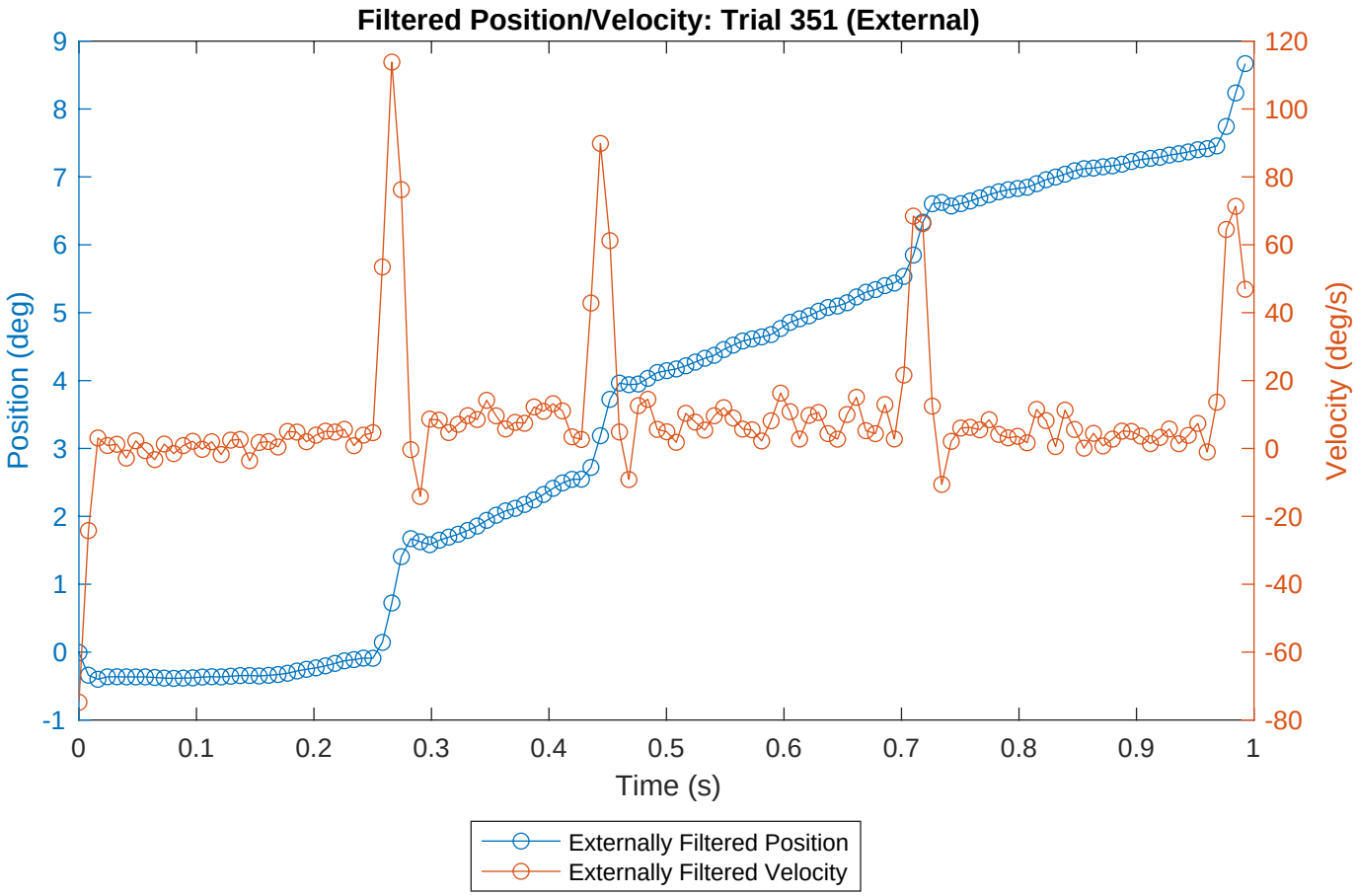

Position (deg)
Time (s)

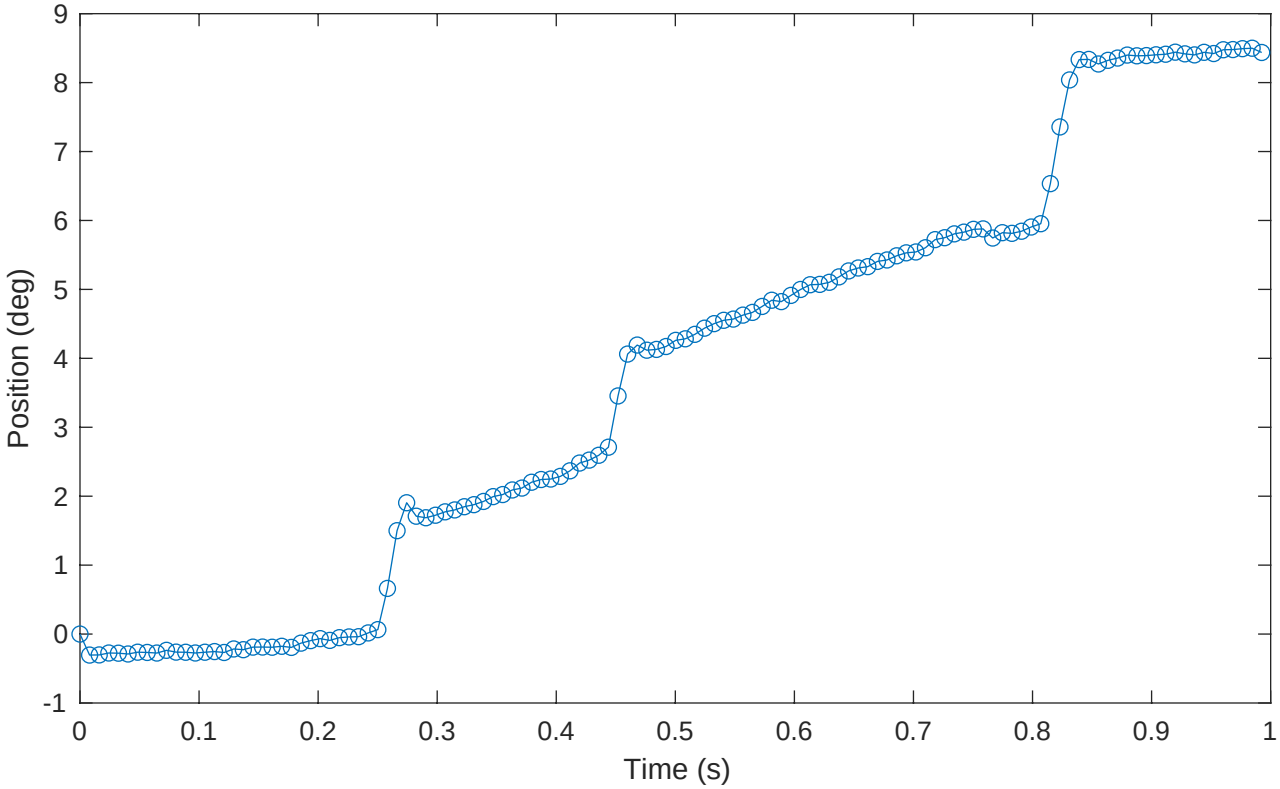

Filtered Position/Velocity: Trial 349 (External)
Position (deg)
Velocity (deg/s)
Time (s)
Externally Filtered Position
Externally Filtered Velocity

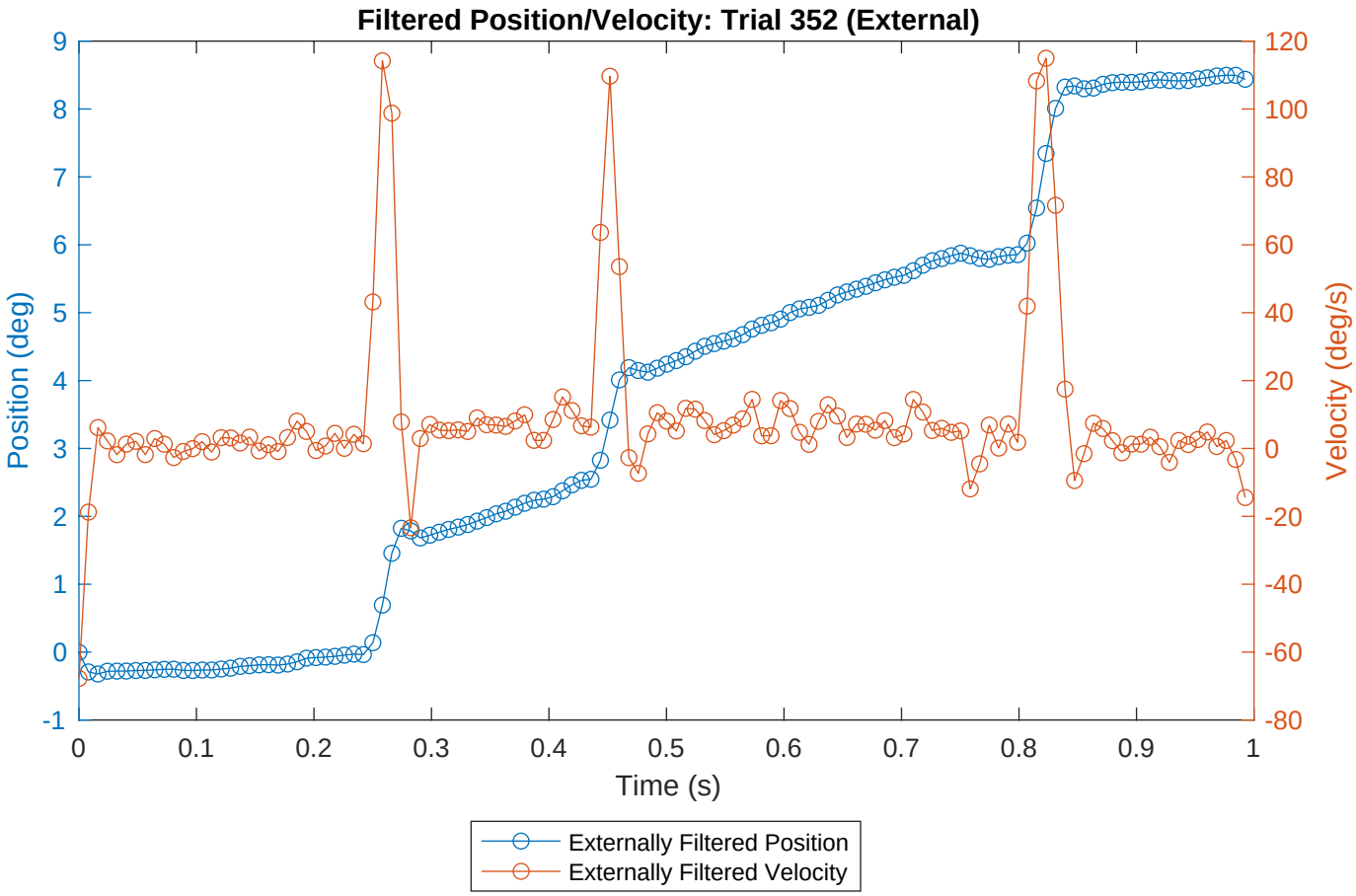

Position (deg)
Time (s)

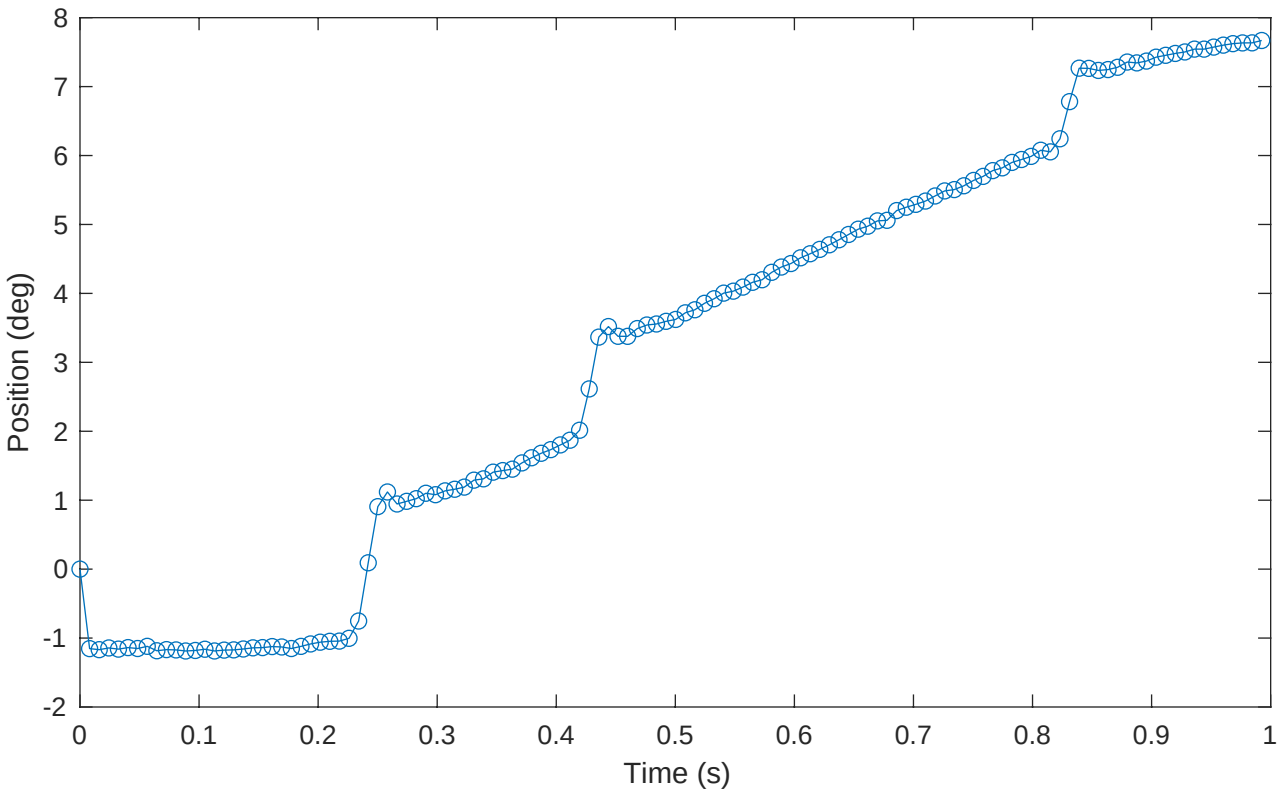

Filtered Position/Velocity: Trial 350 (External)
Position (deg)
Velocity (deg/s)
Time (s)
Externally Filtered Position
Externally Filtered Velocity

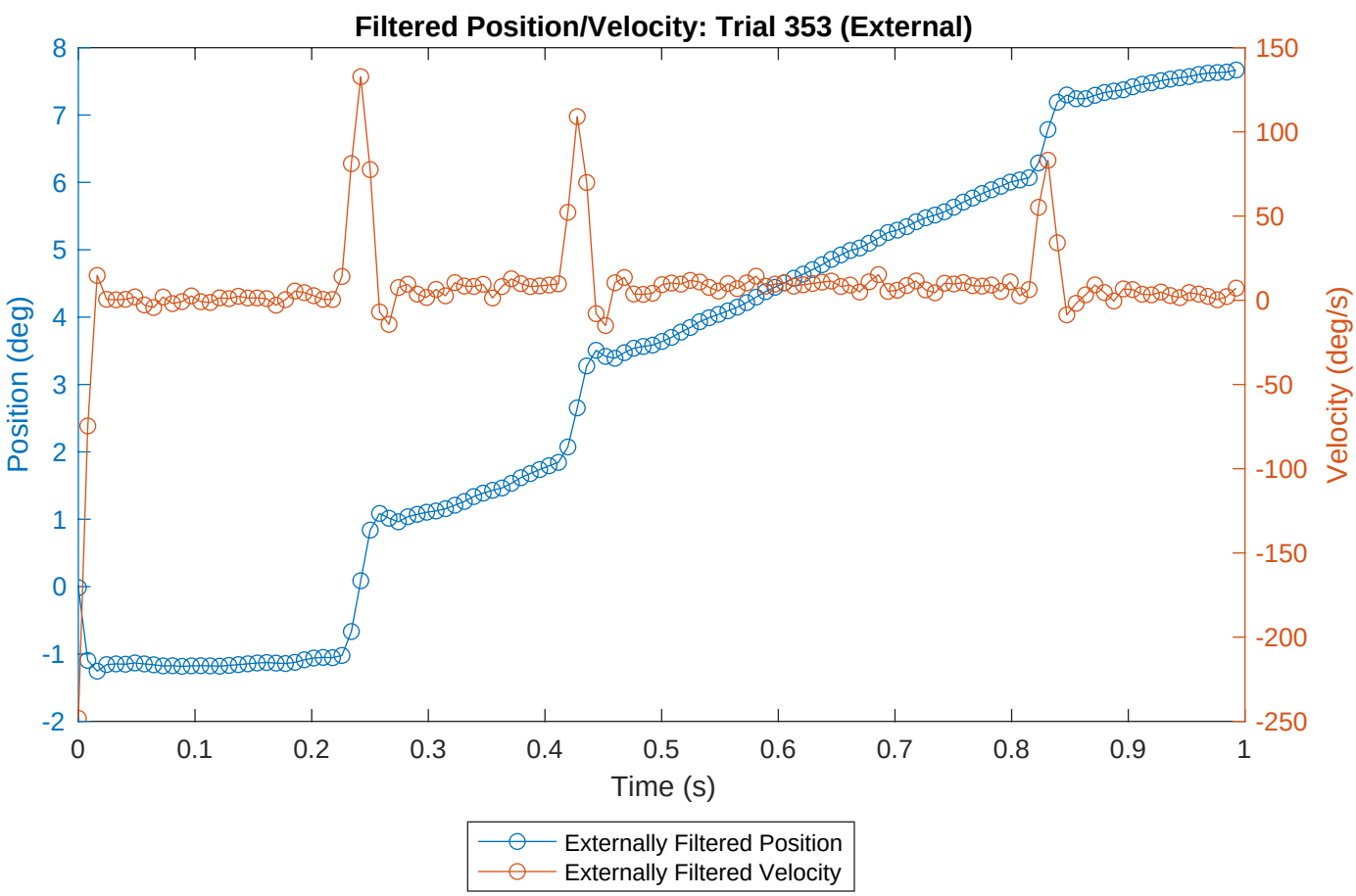

Position (deg)
Time (s)

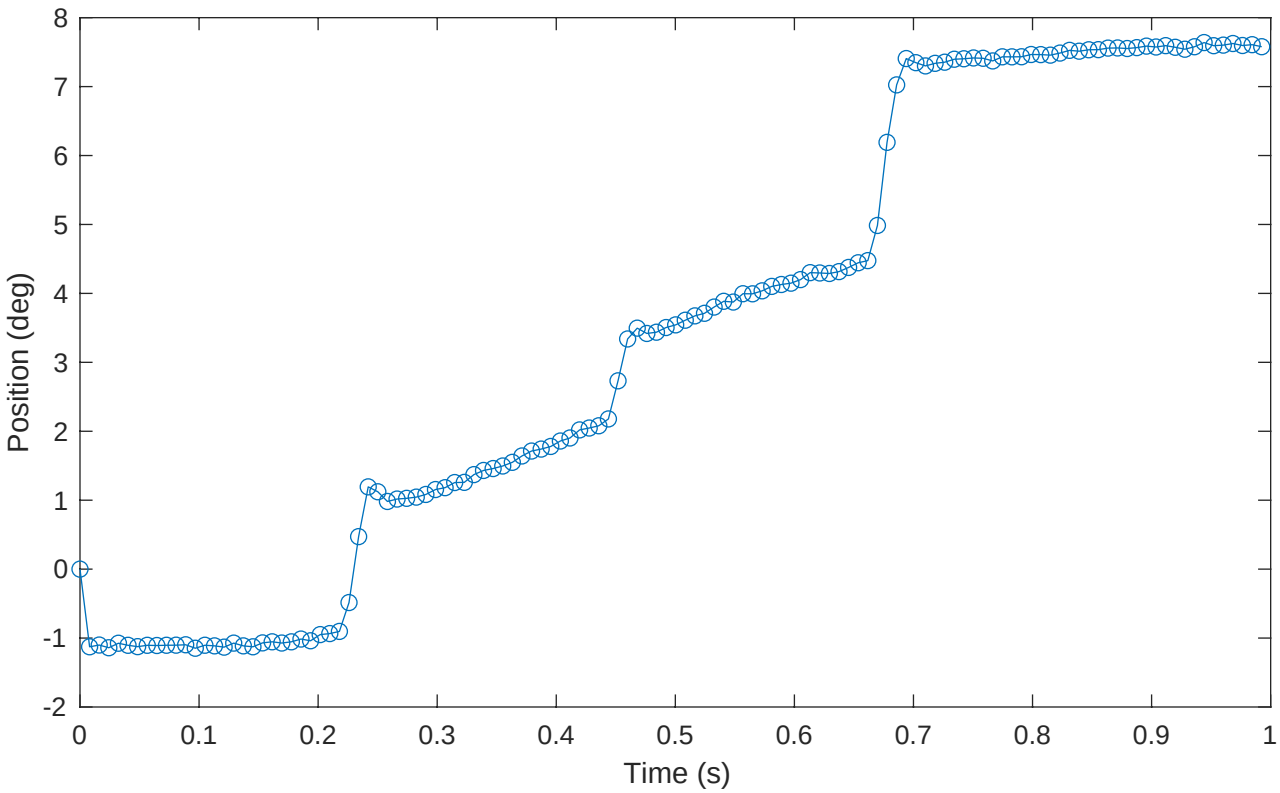

Filtered Position/Velocity: Trial 351 (External)
Position (deg)
Velocity (deg/s)
Time (s)
Externally Filtered Position
Externally Filtered Velocity

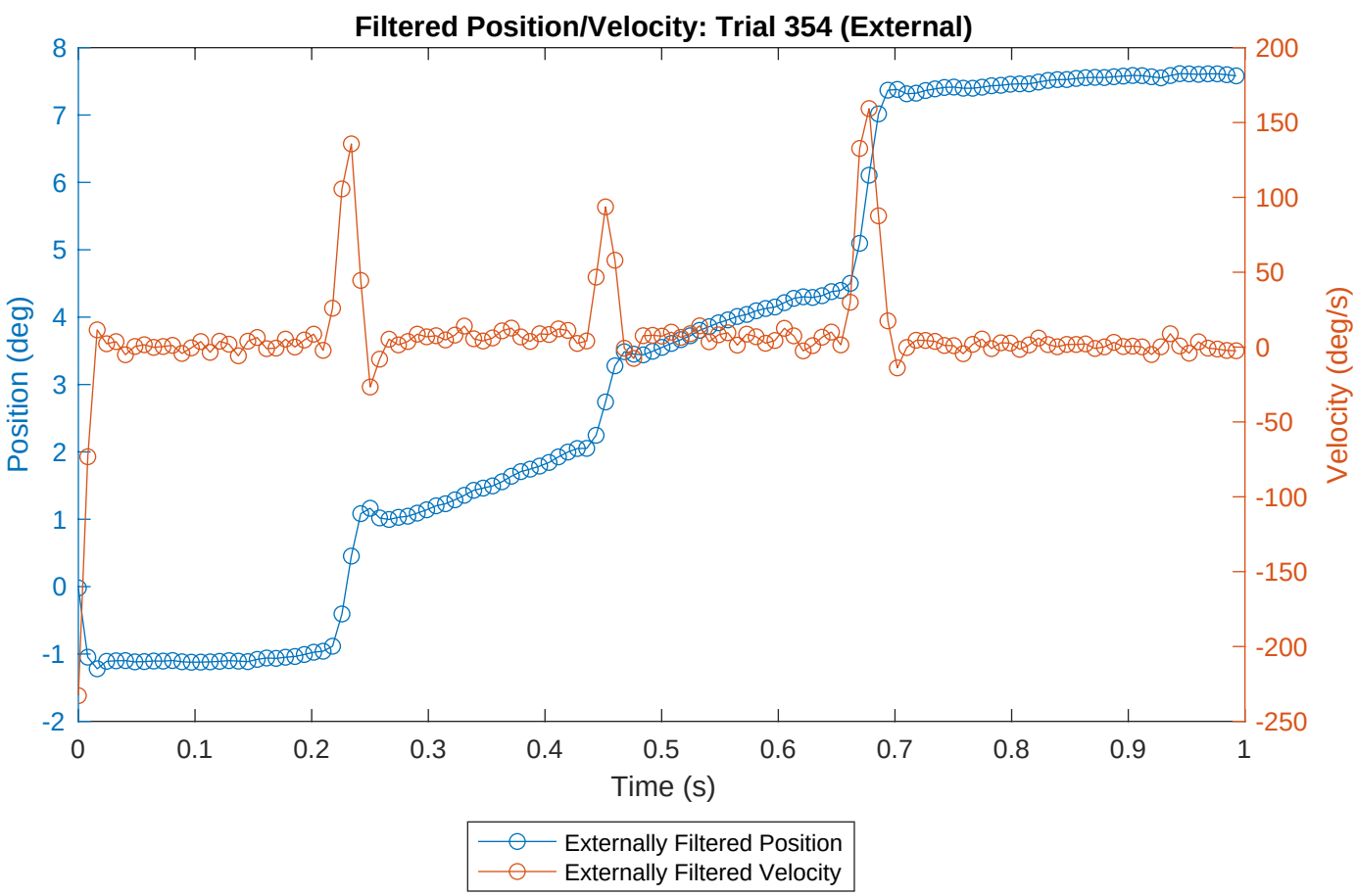

Position (deg)
Time (s)

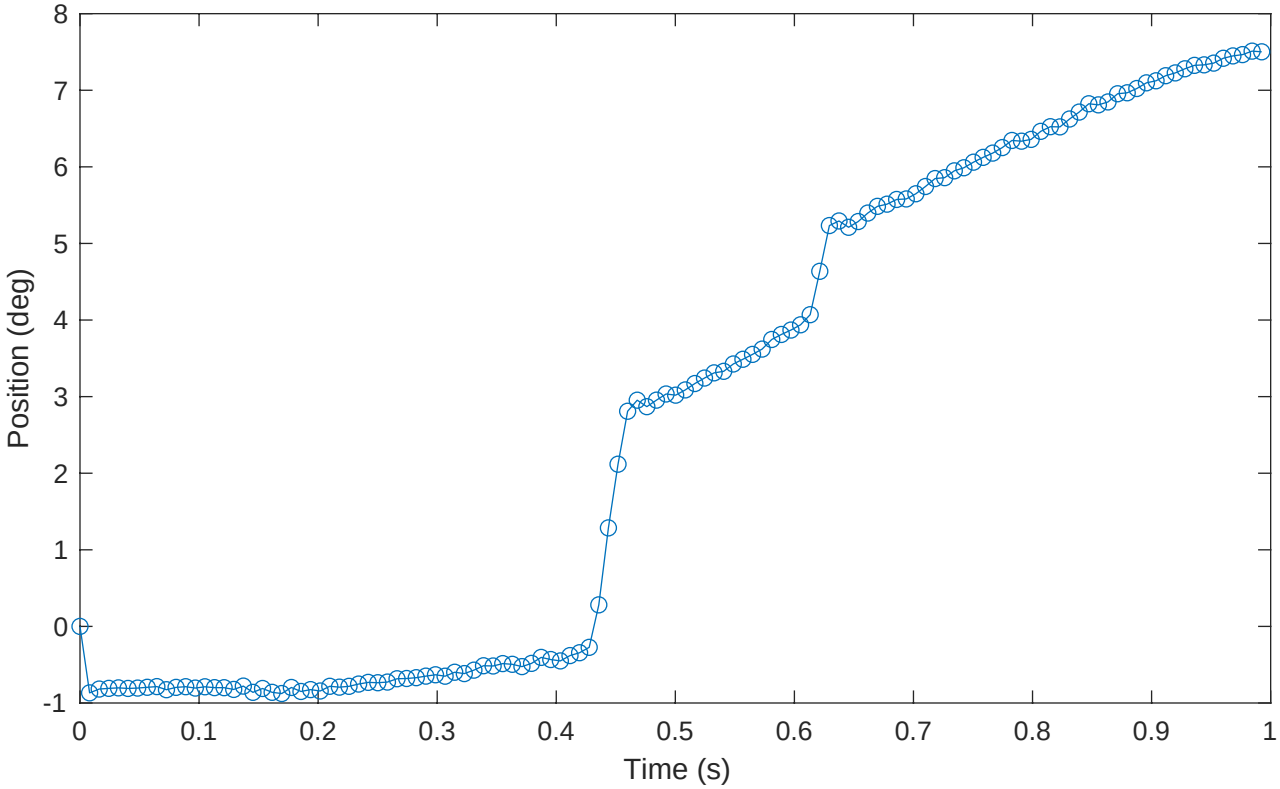

Filtered Position/Velocity: Trial 352 (External)
Position (deg)
Velocity (deg/s)
Time (s)
Externally Filtered Position
Externally Filtered Velocity

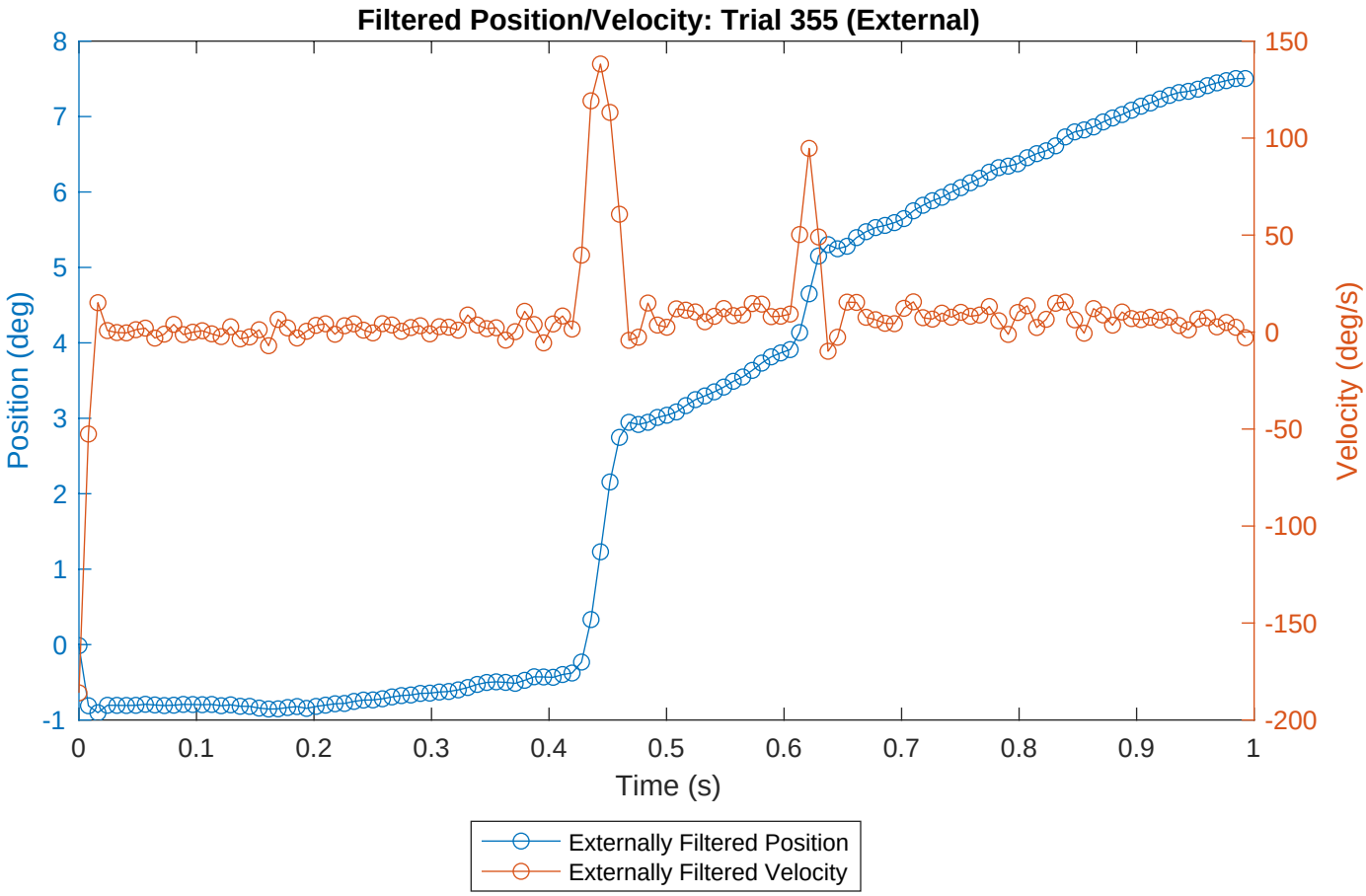

Position (deg)
Time (s)

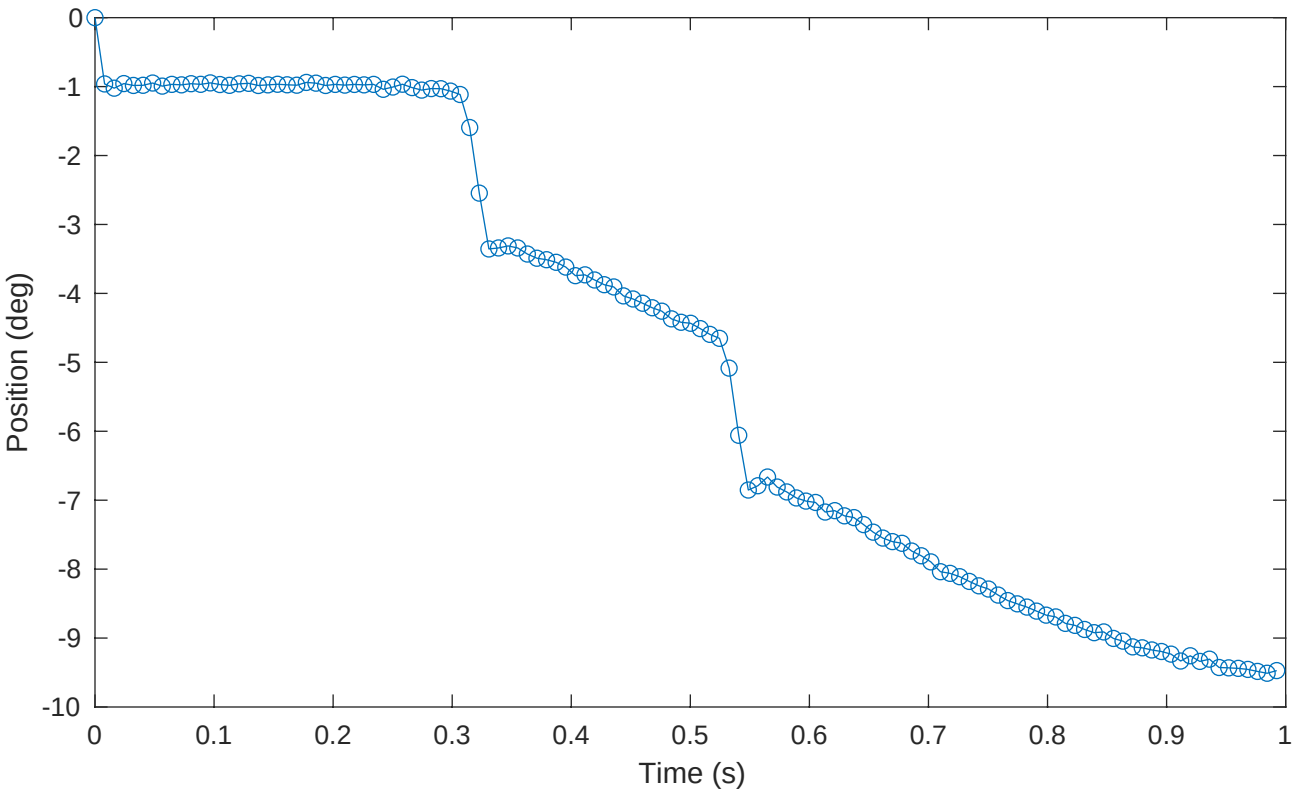

Filtered Position/Velocity: Trial 353 (External)
Position (deg)
Velocity (deg/s)
Time (s)
Externally Filtered Position
Externally Filtered Velocity

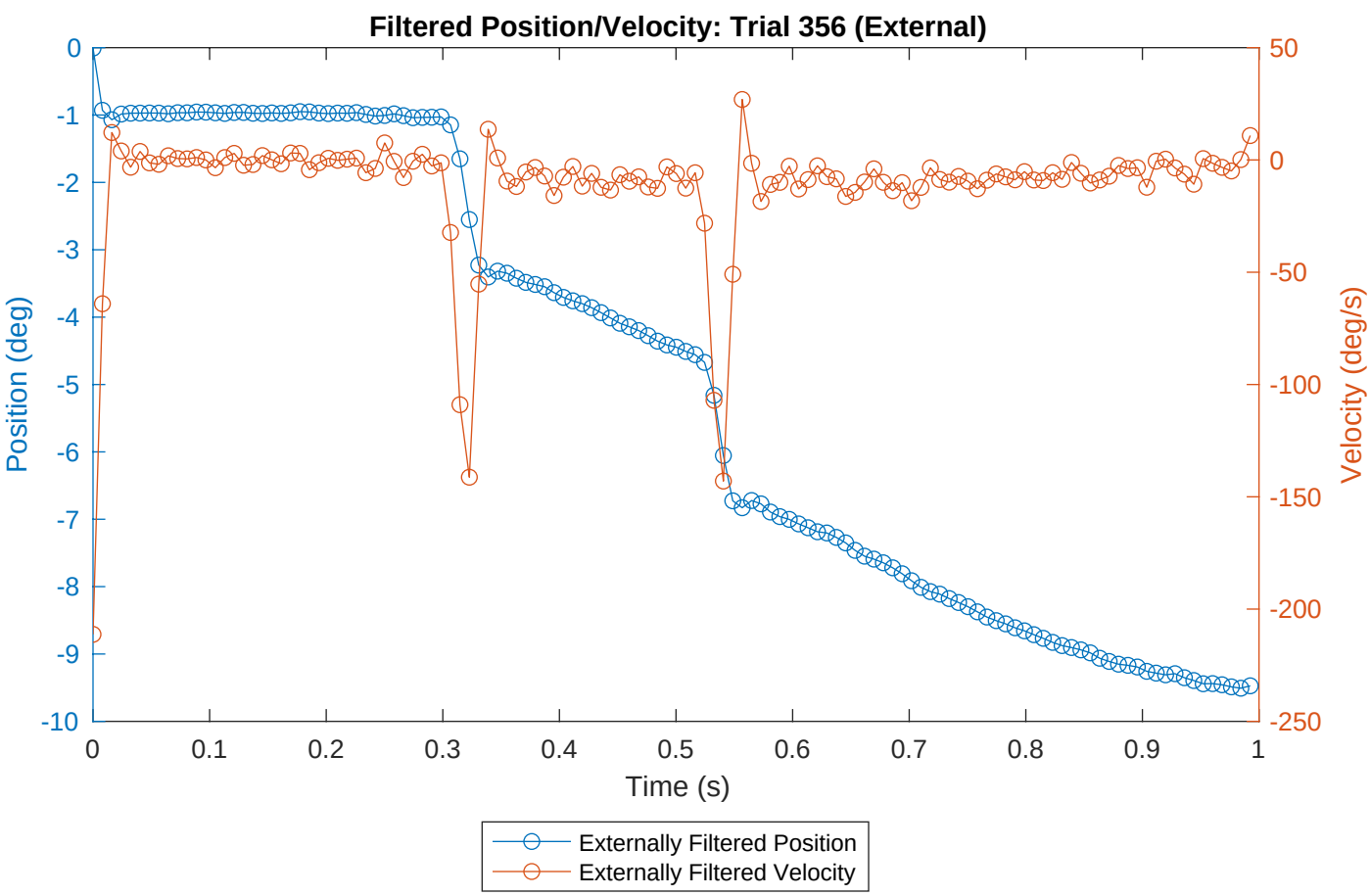

Position (deg)
Time (s)

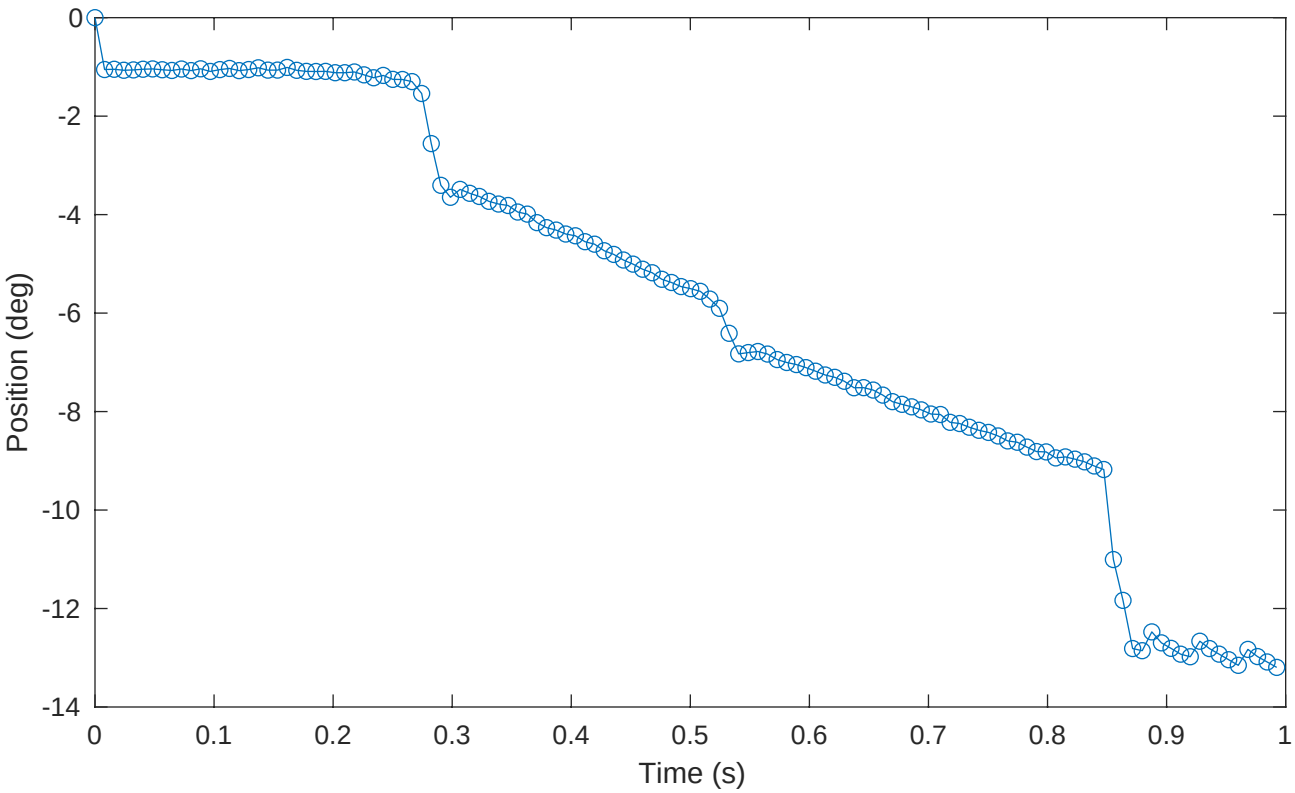

Filtered Position/Velocity: Trial 354 (External)
Position (deg)
Velocity (deg/s)
Time (s)
Externally Filtered Position
Externally Filtered Velocity

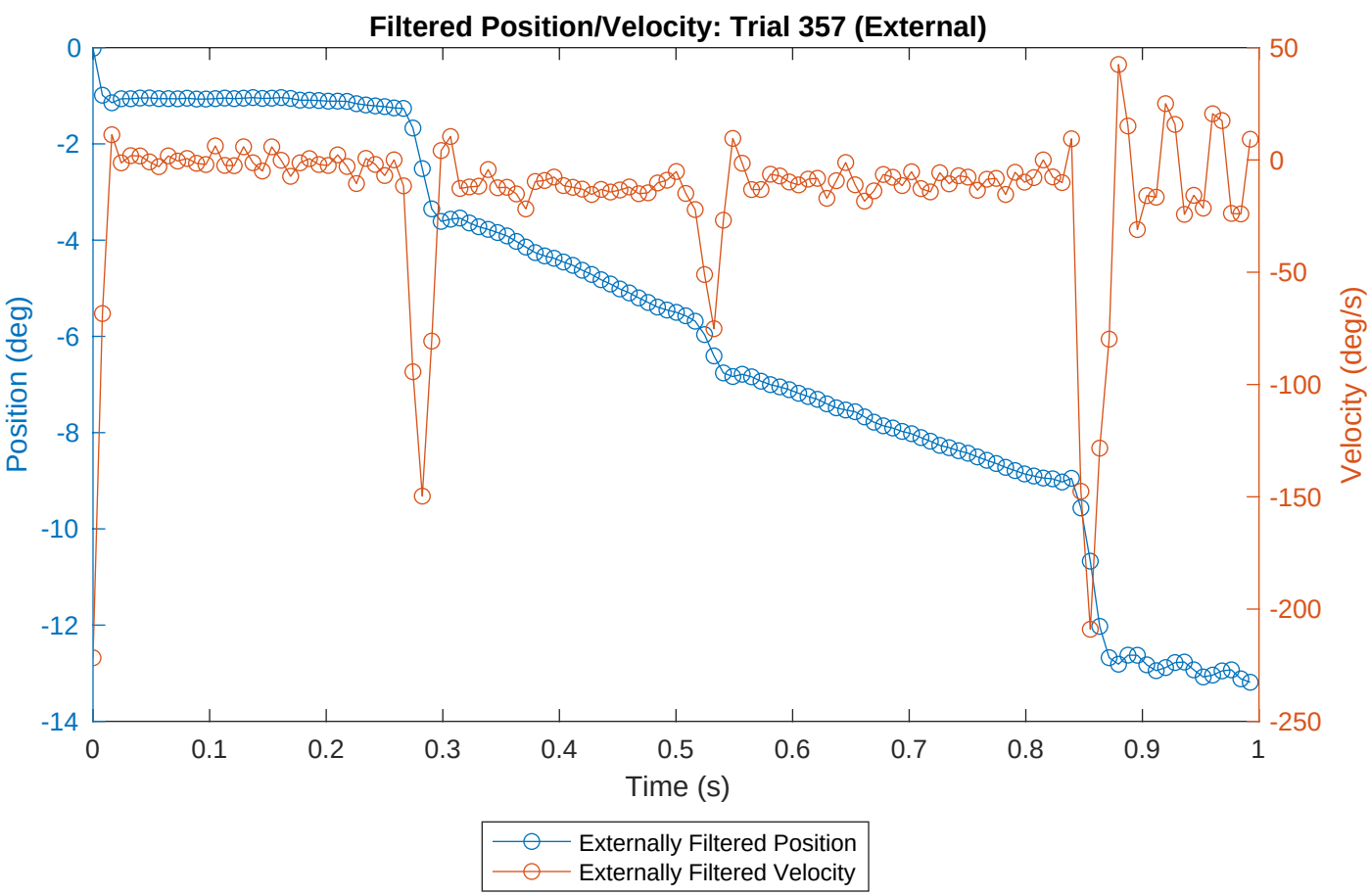

Position (deg)
Time (s)

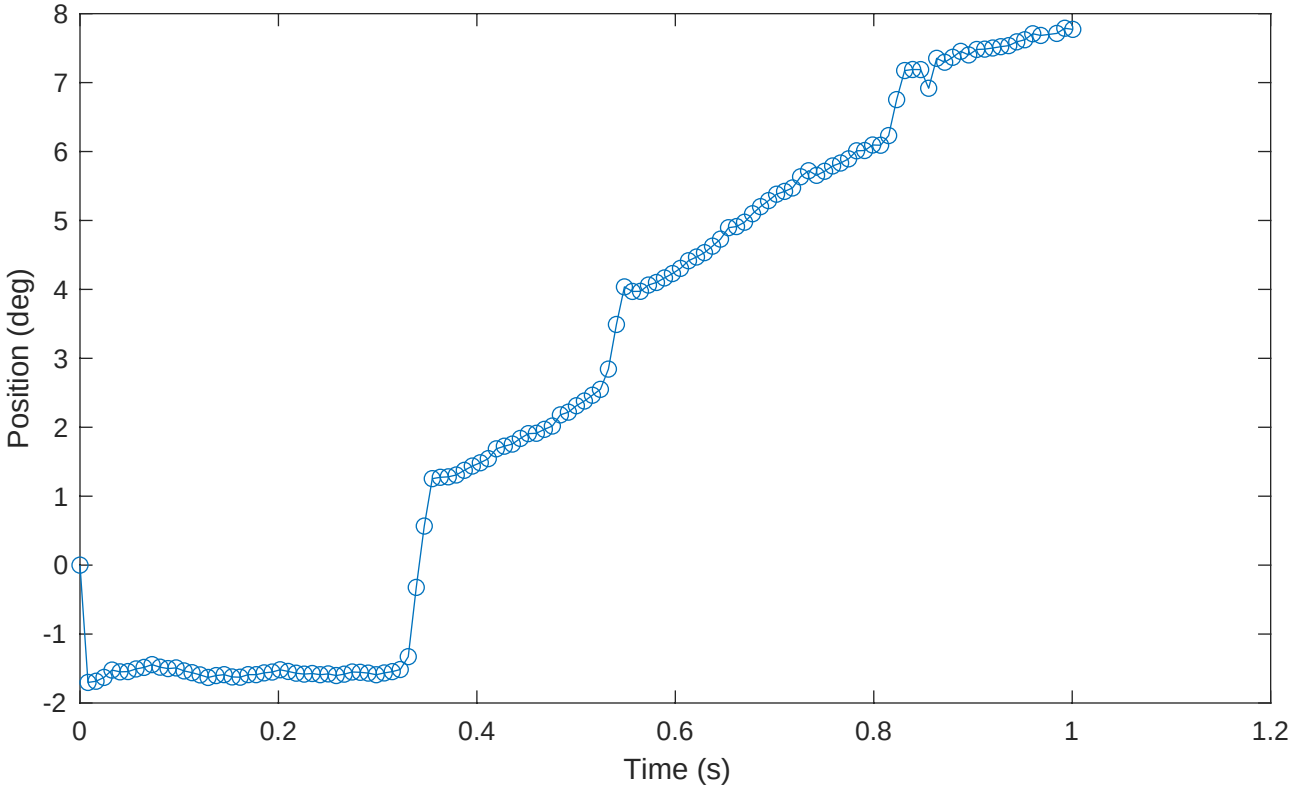

Filtered Position/Velocity: Trial 355 (External)
Position (deg)
Velocity (deg/s)
Time (s)
Externally Filtered Position
Externally Filtered Velocity

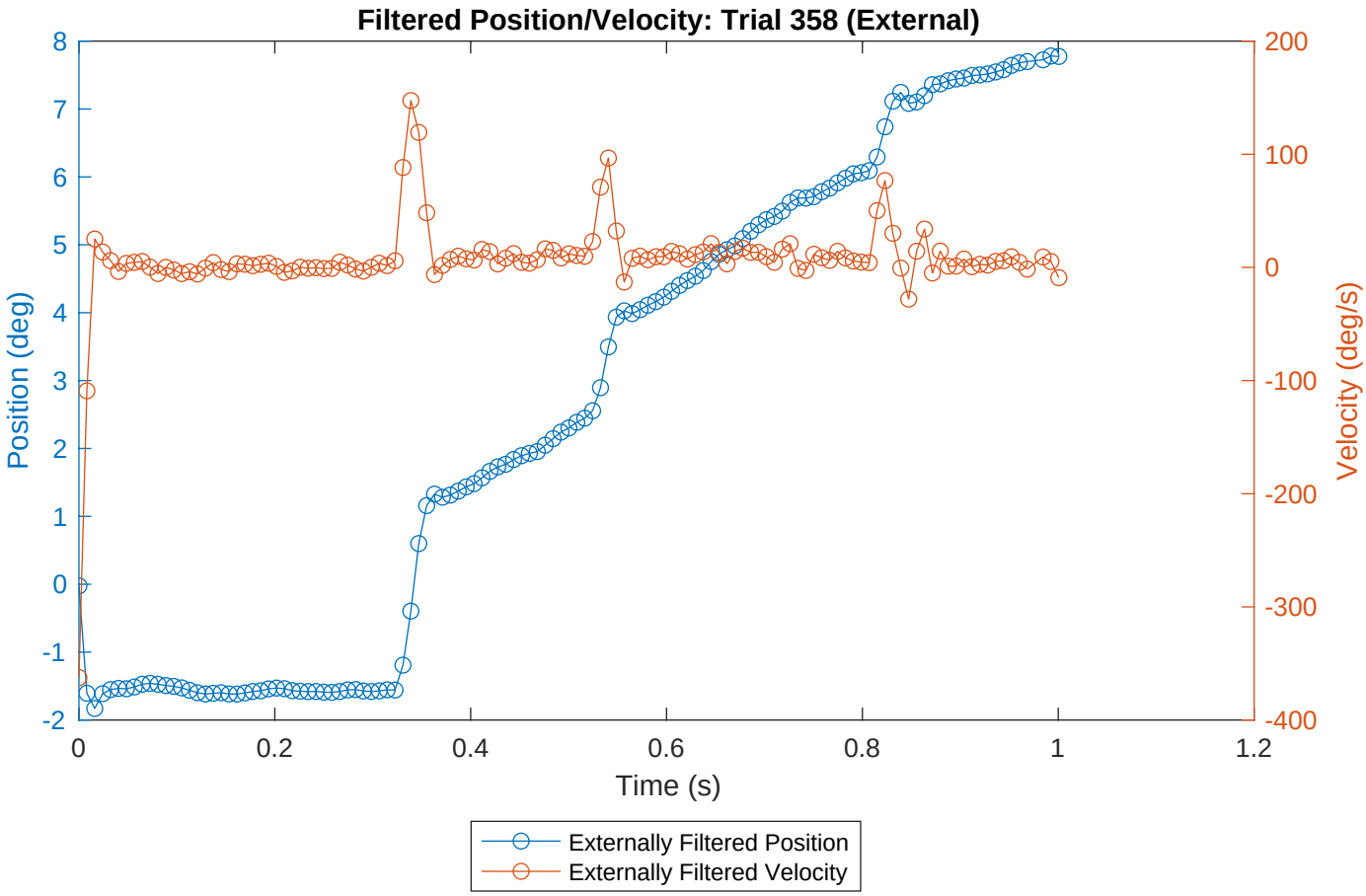

Position (deg)
Time (s)
0
-1
-2
-3
-4
-5
-6
-7
-8
-9
-10
0
0.1
0.2
0.3
0.4
0.5
0.6
0.7
0.8
0.9
1

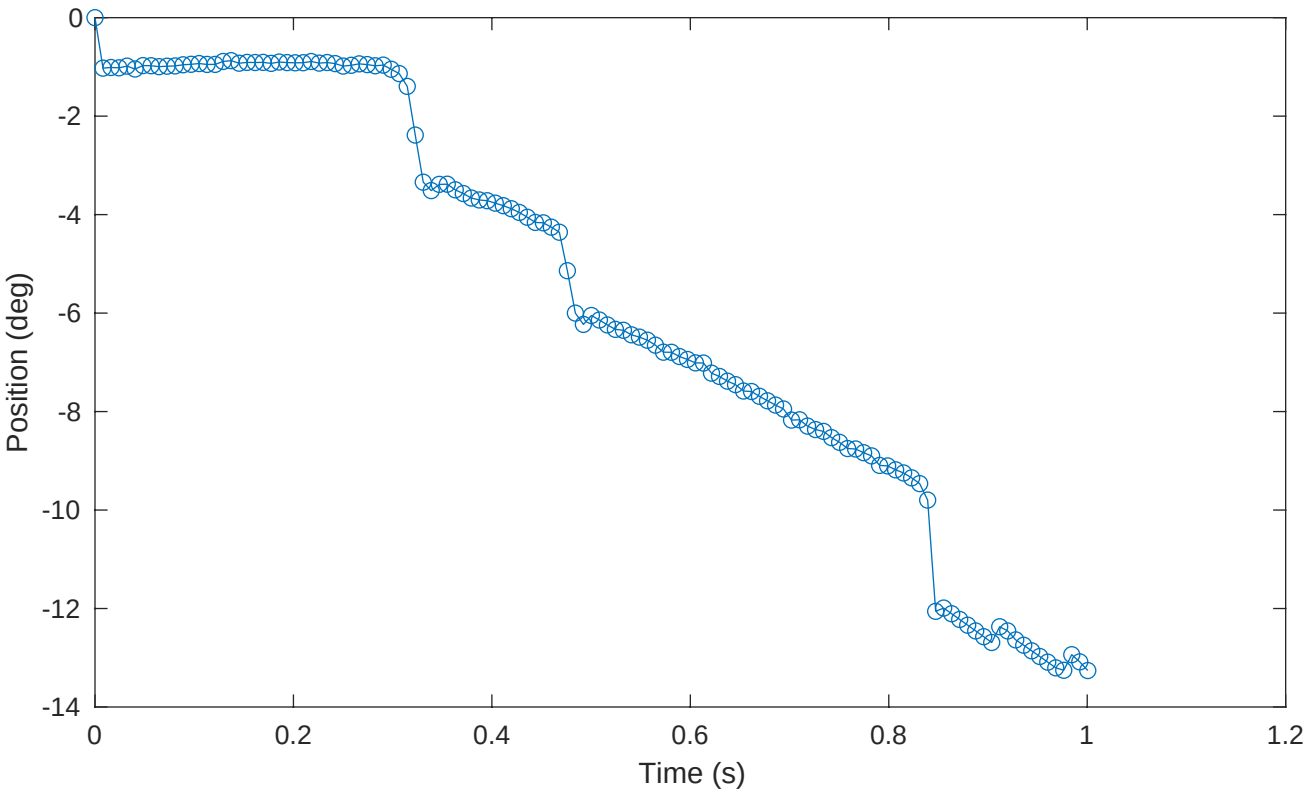

Filtered Position/Velocity: Trial 356 (External)
Position (deg)
Velocity (deg/s)
Time (s)
0
-1
-2
-3
-4
-5
-6
-7
-8
-9
-10
50
0
-50
-100
-150
-200
-250
0
0.1
0.2
0.3
0.4
0.5
0.6
0.7
0.8
0.9
1
Externally Filtered Position
Externally Filtered Velocity

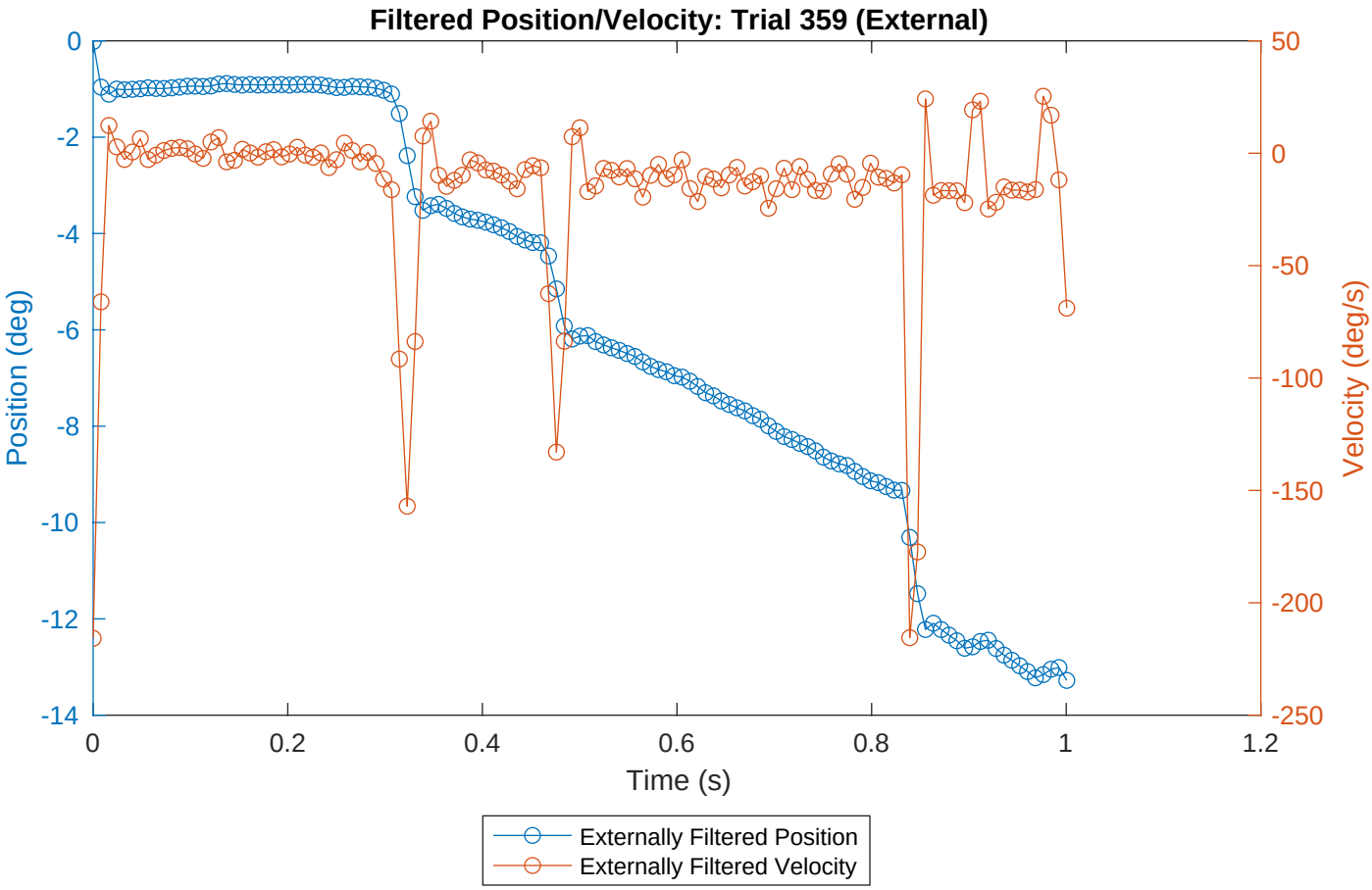

Position (deg)
Time (s)
0
-2
-4
-6
-8
-10
-12
-14
0
0.1
0.2
0.3
0.4
0.5
0.6
0.7
0.8
0.9
1

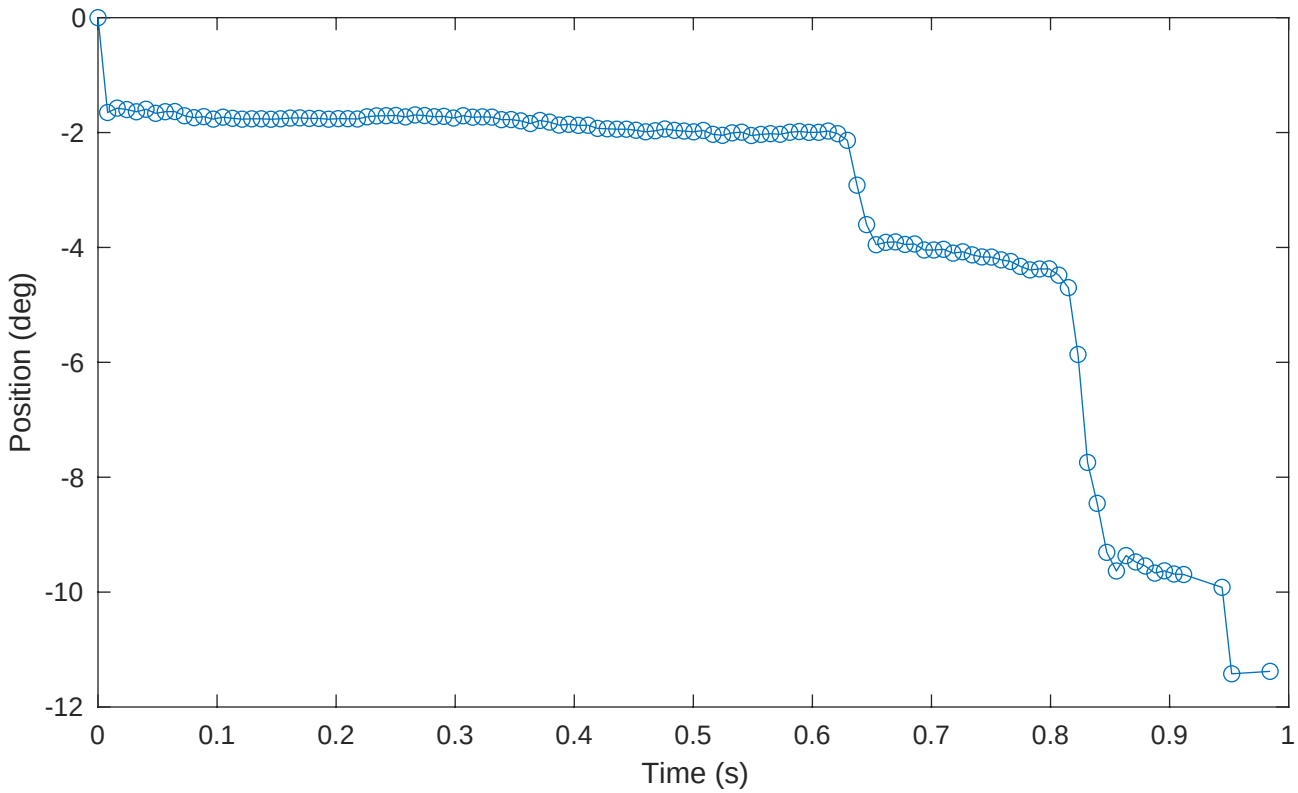

Filtered Position/Velocity: Trial 357 (External)
Position (deg)
Velocity (deg/s)
Time (s)
0
-2
-4
-6
-8
-10
-12
-14
50
0
-50
-100
-150
-200
-250
0
0.1
0.2
0.3
0.4
0.5
0.6
0.7
0.8
0.9
1
Externally Filtered Position
Externally Filtered Velocity

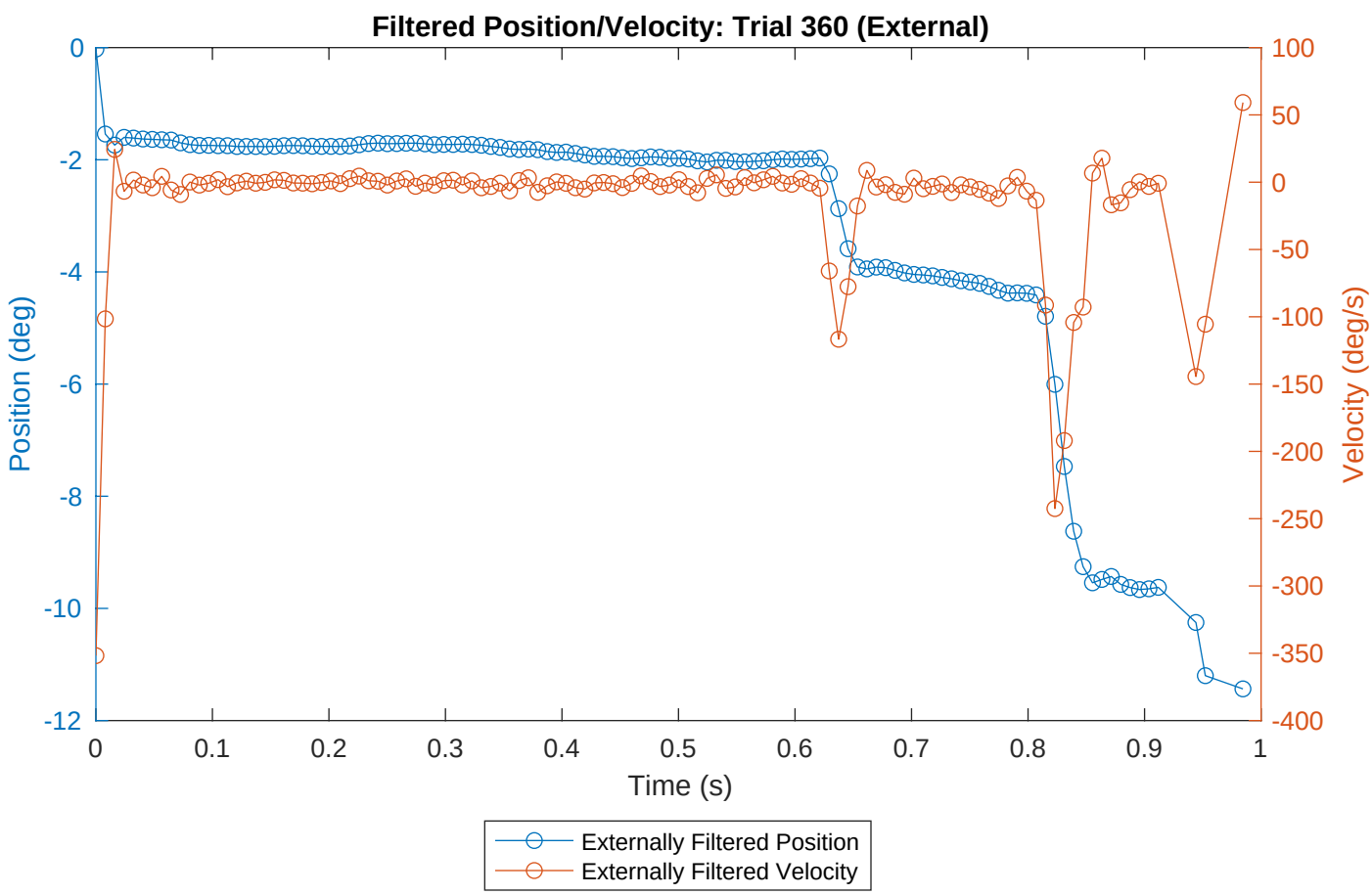

Position (deg)
Time (s)

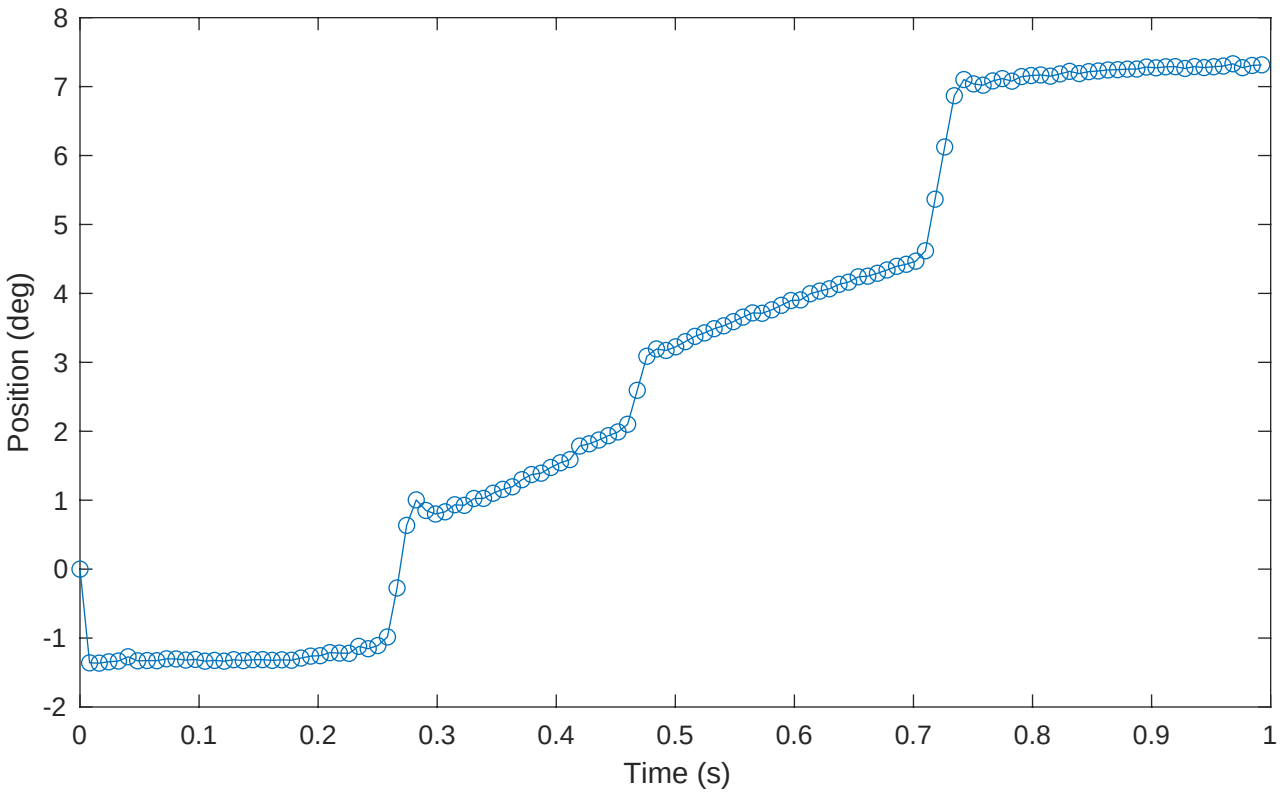

Filtered Position/Velocity: Trial 358 (External)
Position (deg)
Velocity (deg/s)
Time (s)
Externally Filtered Position
Externally Filtered Velocity

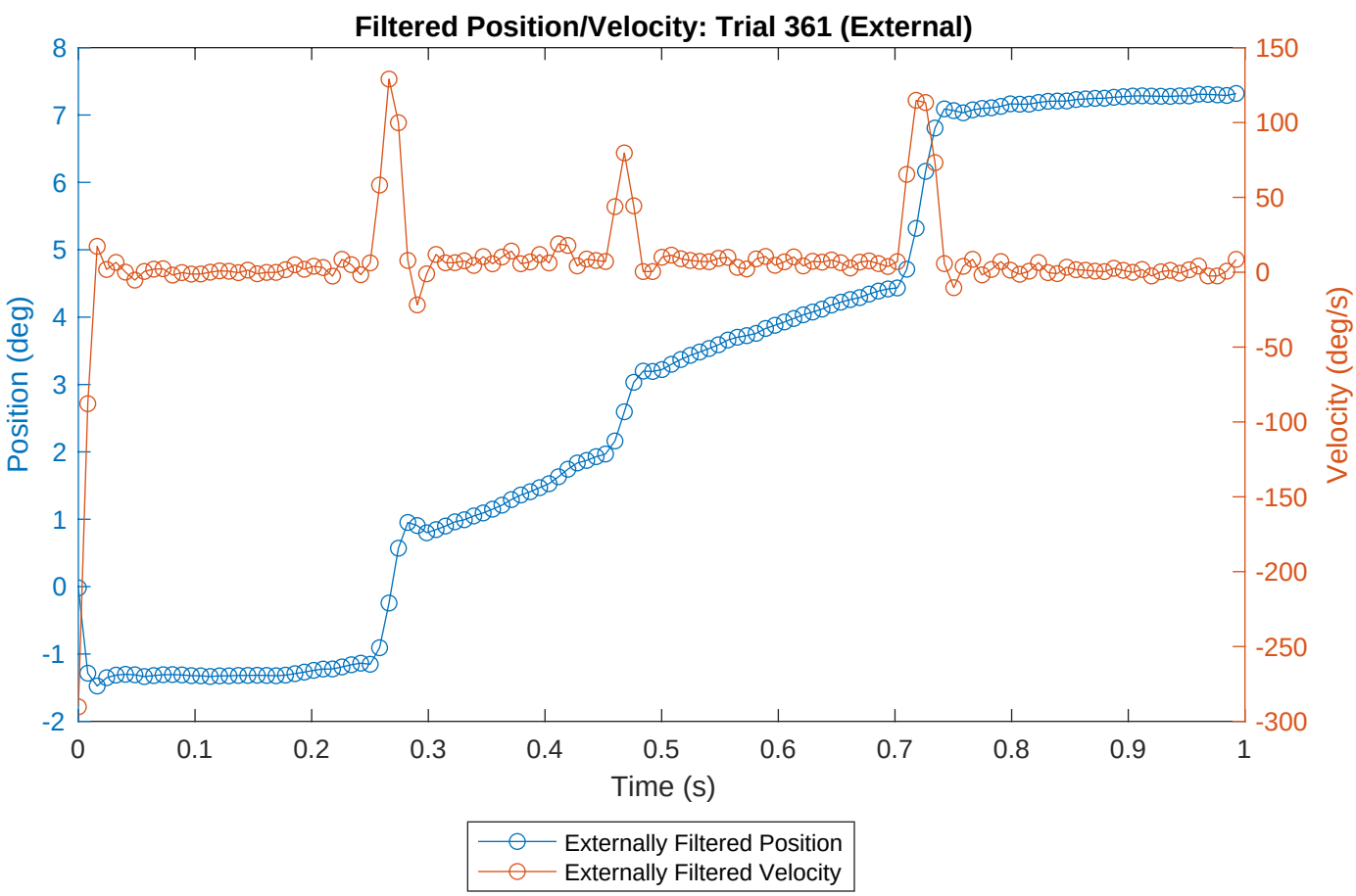

0
-2
-4
-6
-8
-10
-12
-14
Position (deg)
0
0.2
0.4
0.6
0.8
1
1.2
Time (s)

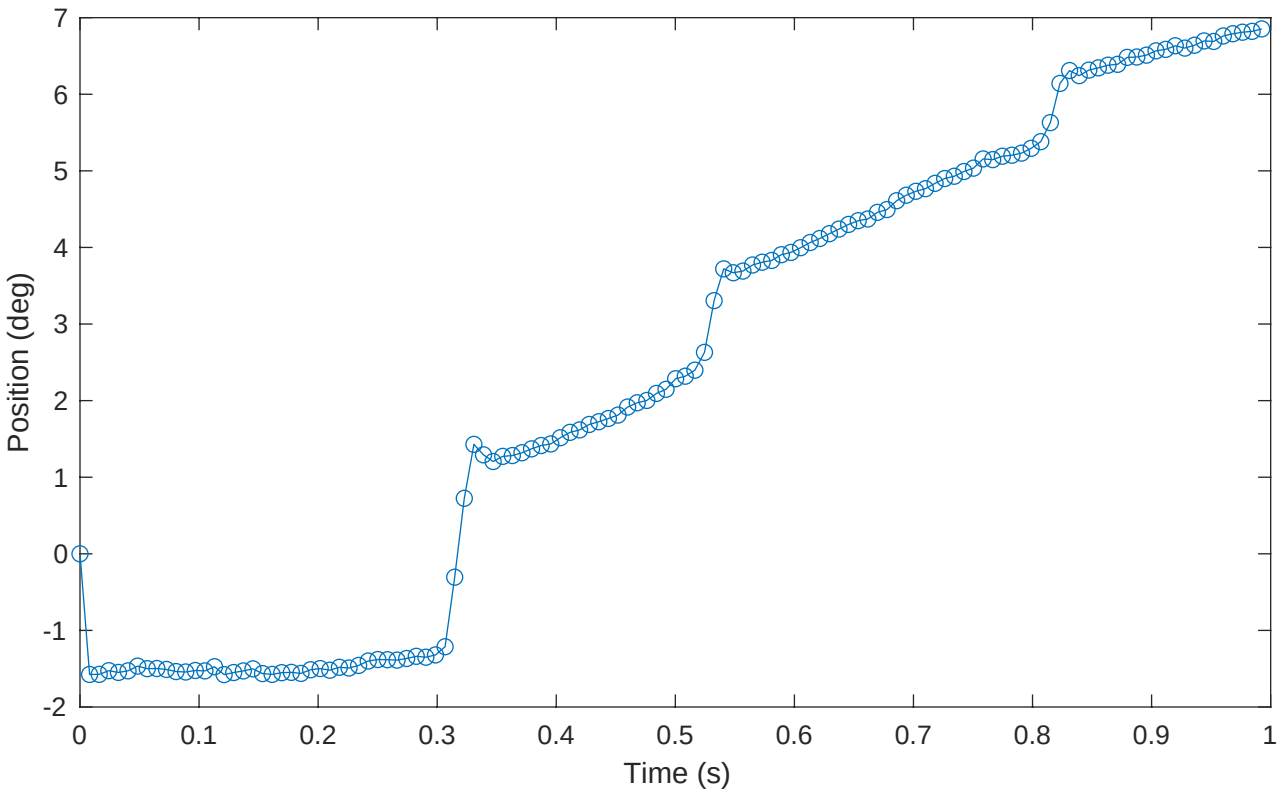

Filtered Position/Velocity: Trial 359 (External)
0
-2
-4
-6
-8
-10
-12
-14
Position (deg)
50
0
-50
-100
-150
-200
-250
Velocity (deg/s)
0
0.2
0.4
0.6
0.8
1
1.2
Time (s)
Externally Filtered Position
Externally Filtered Velocity

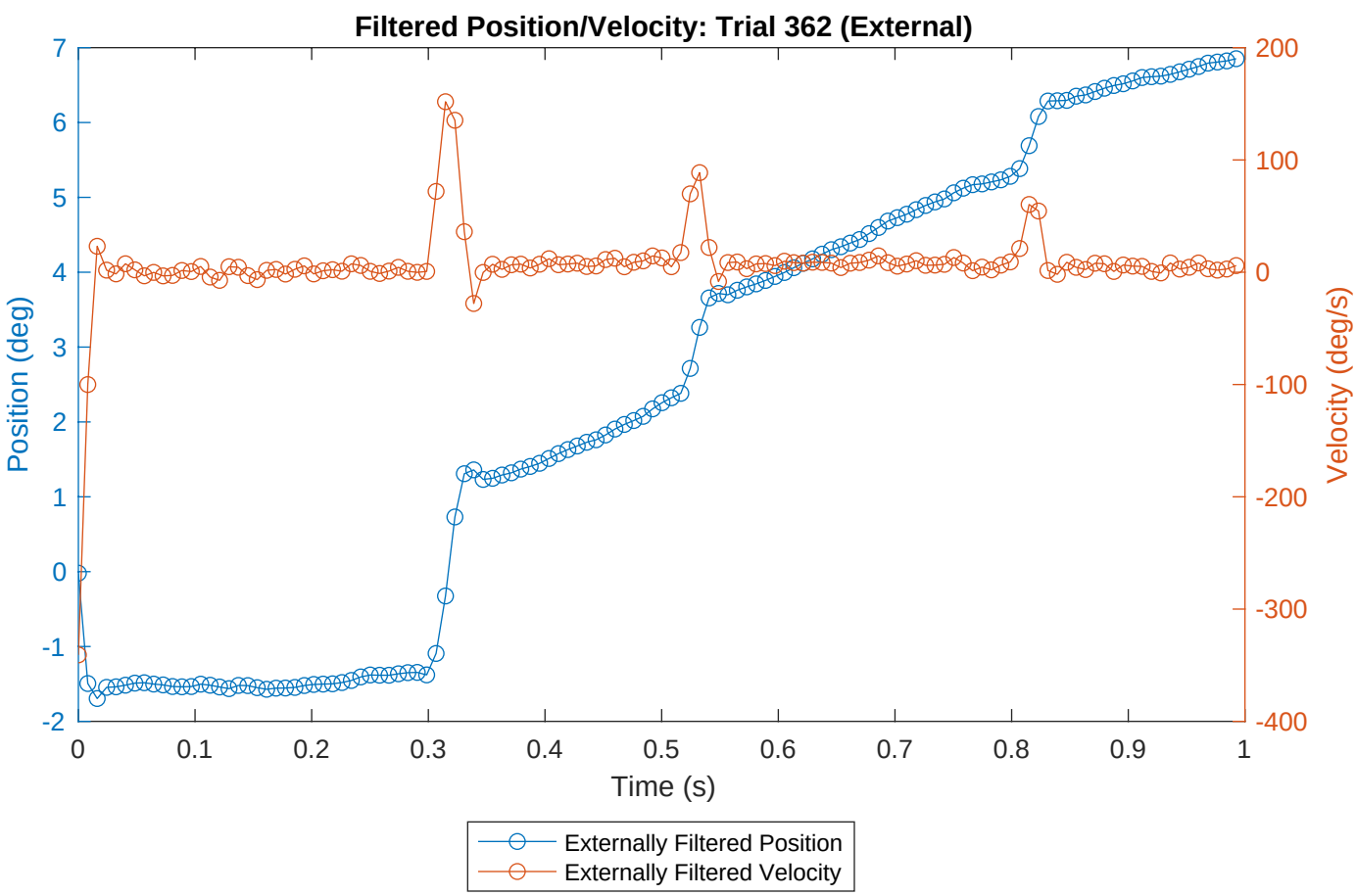

Position (deg)
Time (s)
0
-2
-4
-6
-8
-10
-12
0
0.1
0.2
0.3
0.4
0.5
0.6
0.7
0.8
0.9
1

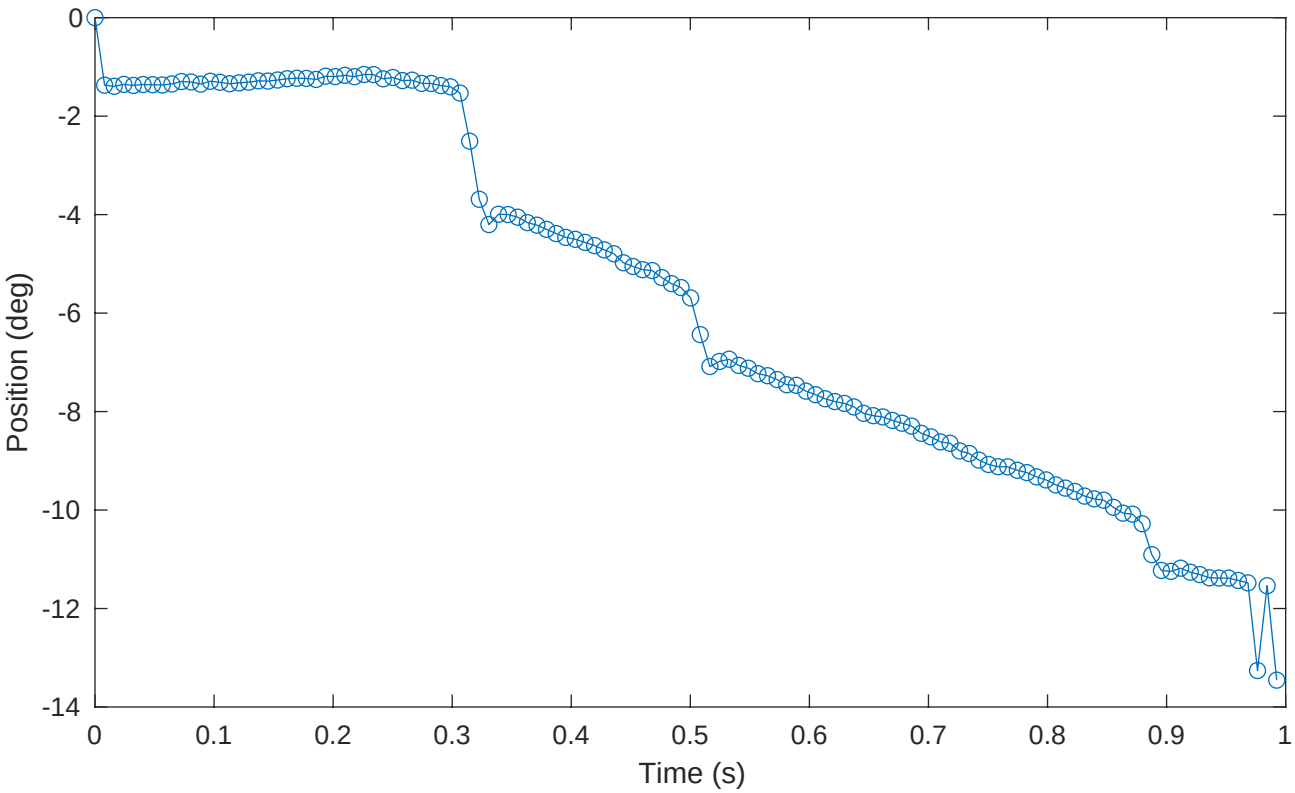

Filtered Position/Velocity: Trial 360 (External)
Position (deg)
Velocity (deg/s)
Time (s)
0
-2
-4
-6
-8
-10
-12
100
50
0
-50
-100
-150
-200
-250
-300
-350
-400
0
0.1
0.2
0.3
0.4
0.5
0.6
0.7
0.8
0.9
1
Externally Filtered Position
Externally Filtered Velocity

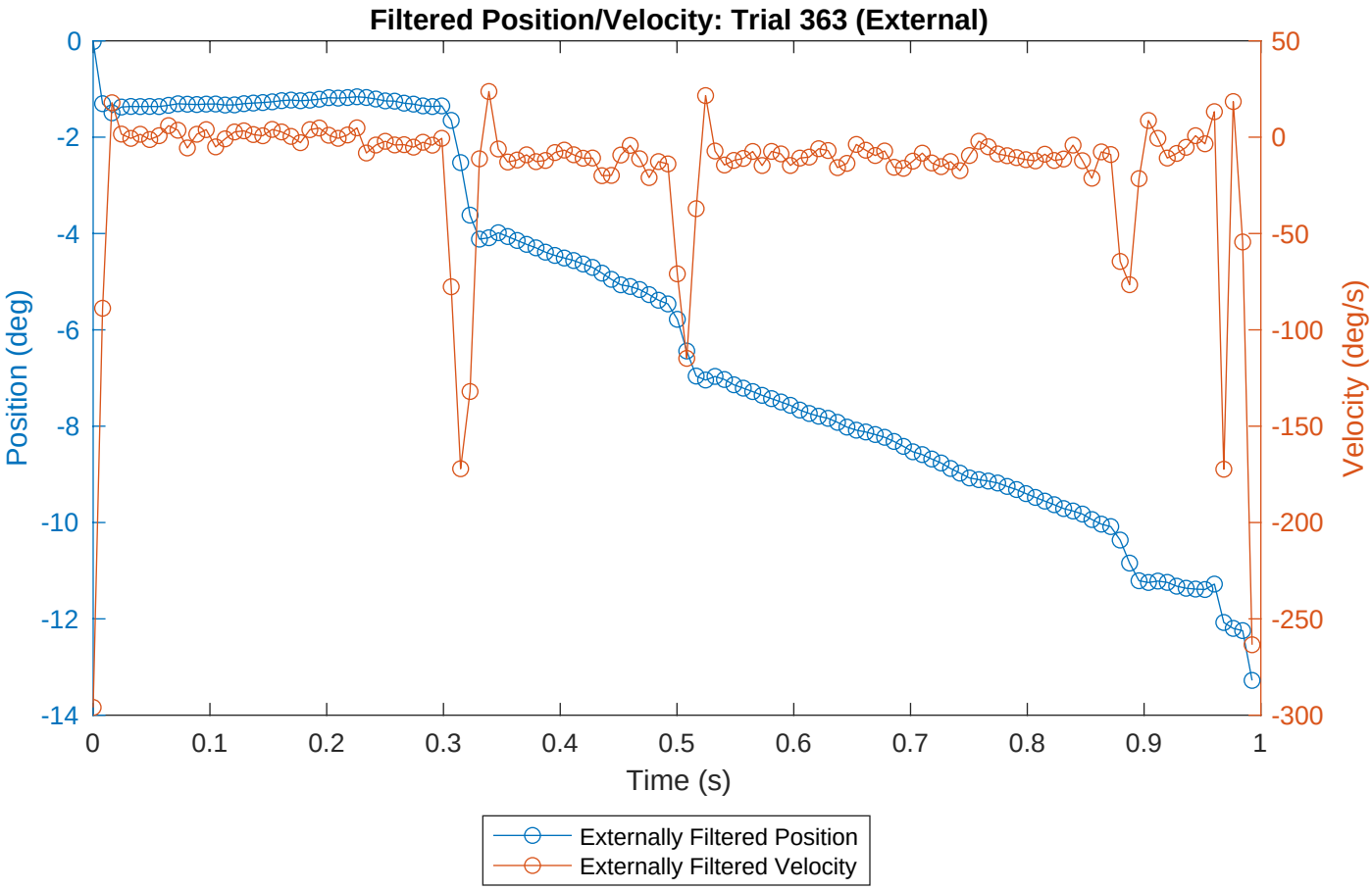

Position (deg)
Time (s)

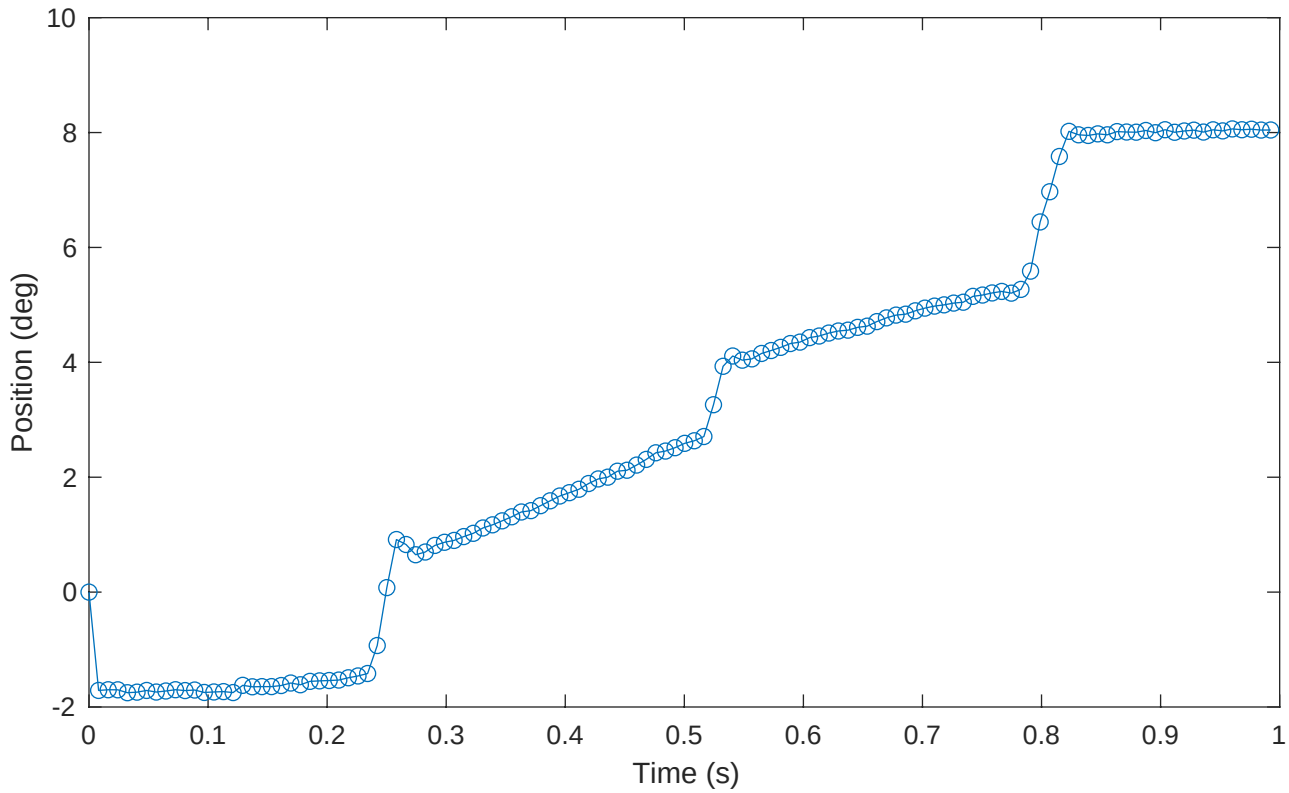

Filtered Position/Velocity: Trial 361 (External)
Position (deg)
Velocity (deg/s)
Time (s)
Externally Filtered Position
Externally Filtered Velocity

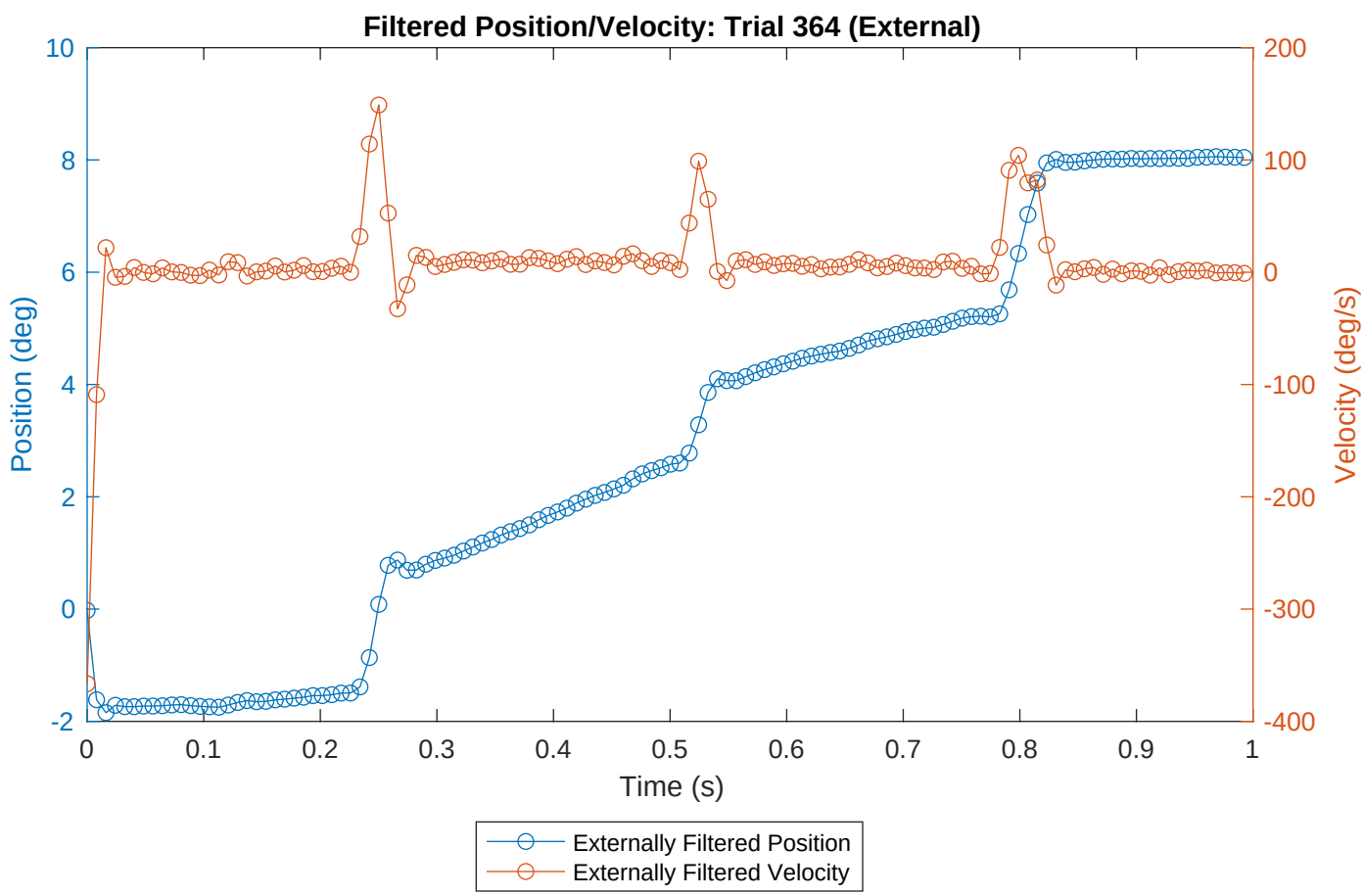

Position (deg)
Time (s)

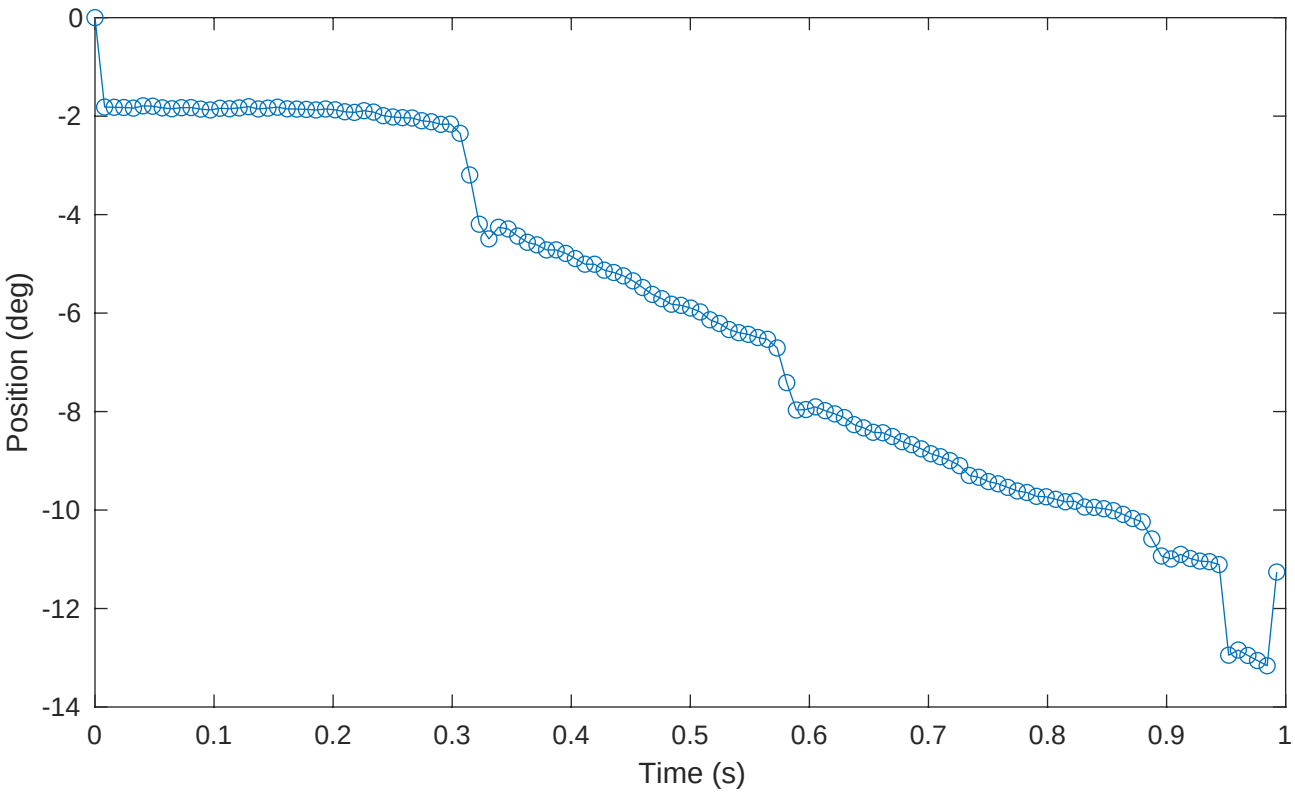

Filtered Position/Velocity: Trial 362 (External)
Position (deg)
Velocity (deg/s)
Time (s)
Externally Filtered Position
Externally Filtered Velocity

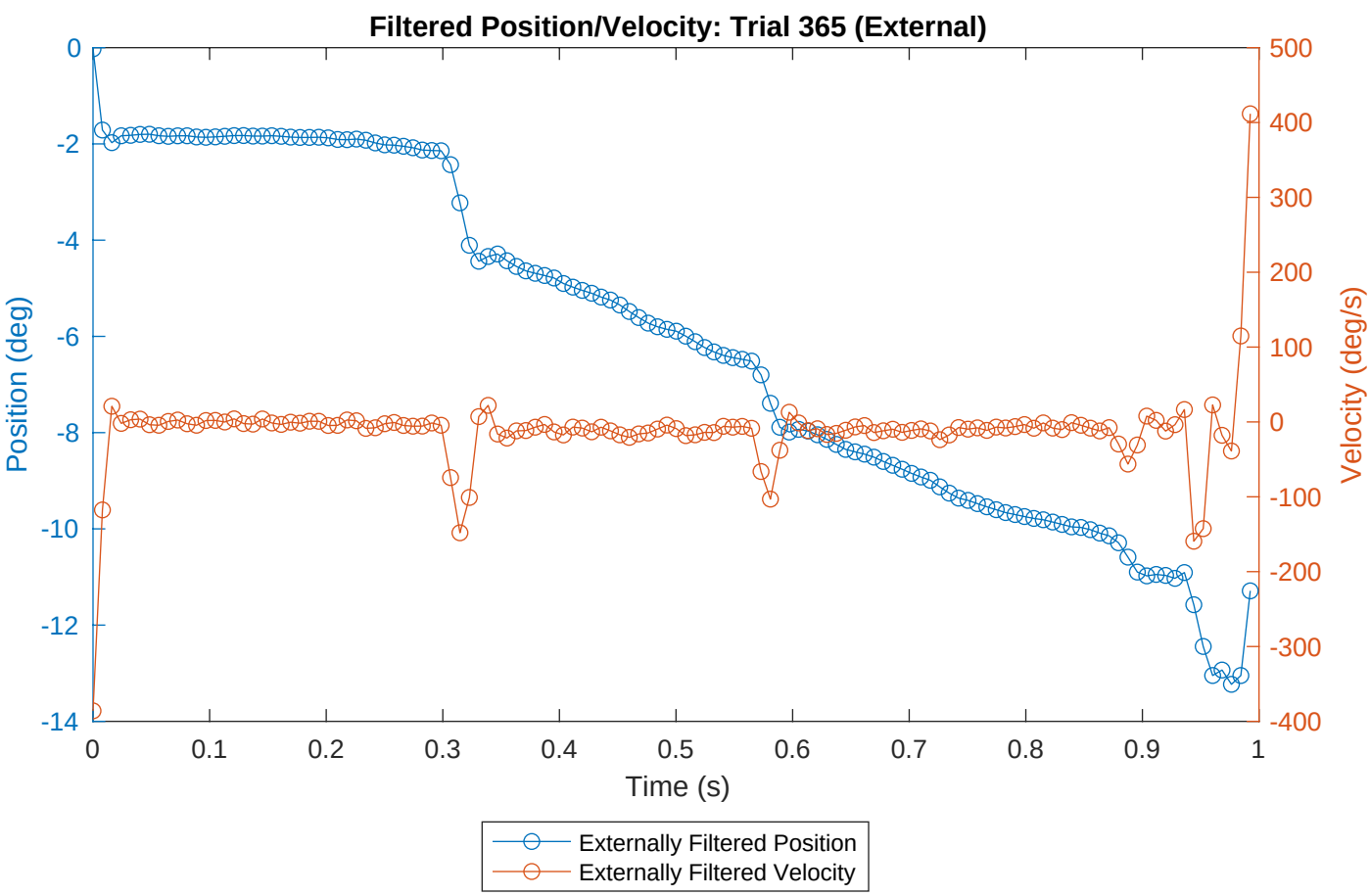

Position (deg)
Time (s)

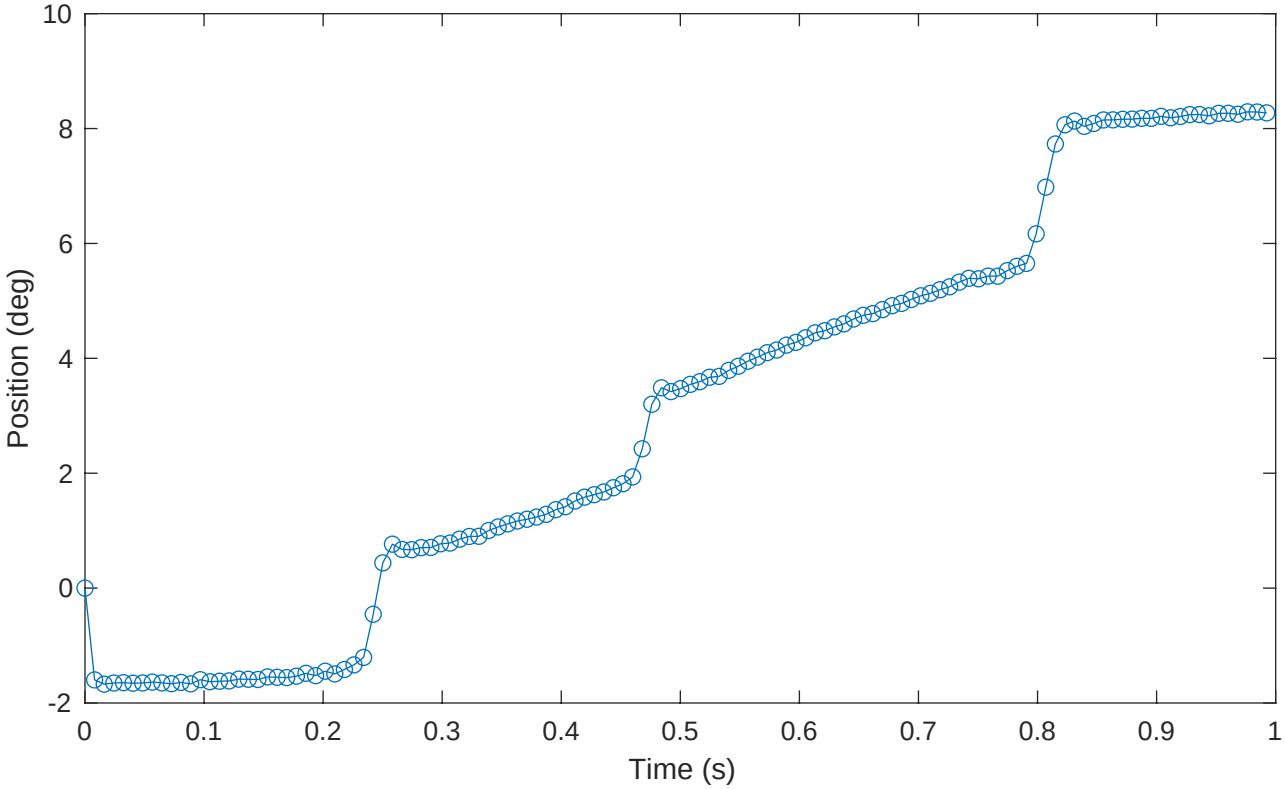

Filtered Position/Velocity: Trial 363 (External)
Position (deg)
Velocity (deg/s)
Time (s)
Externally Filtered Position
Externally Filtered Velocity

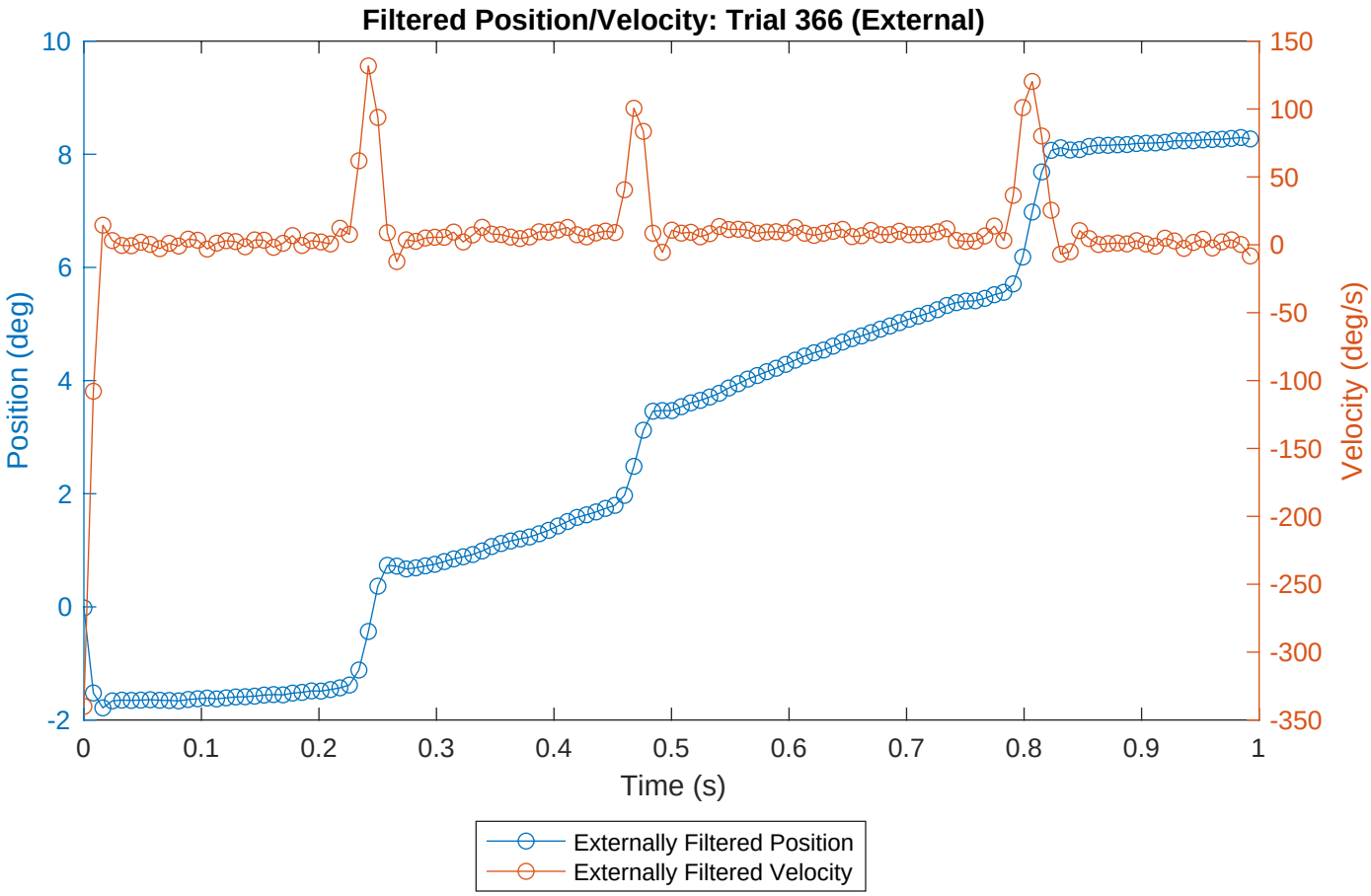

Position (deg)
Time (s)

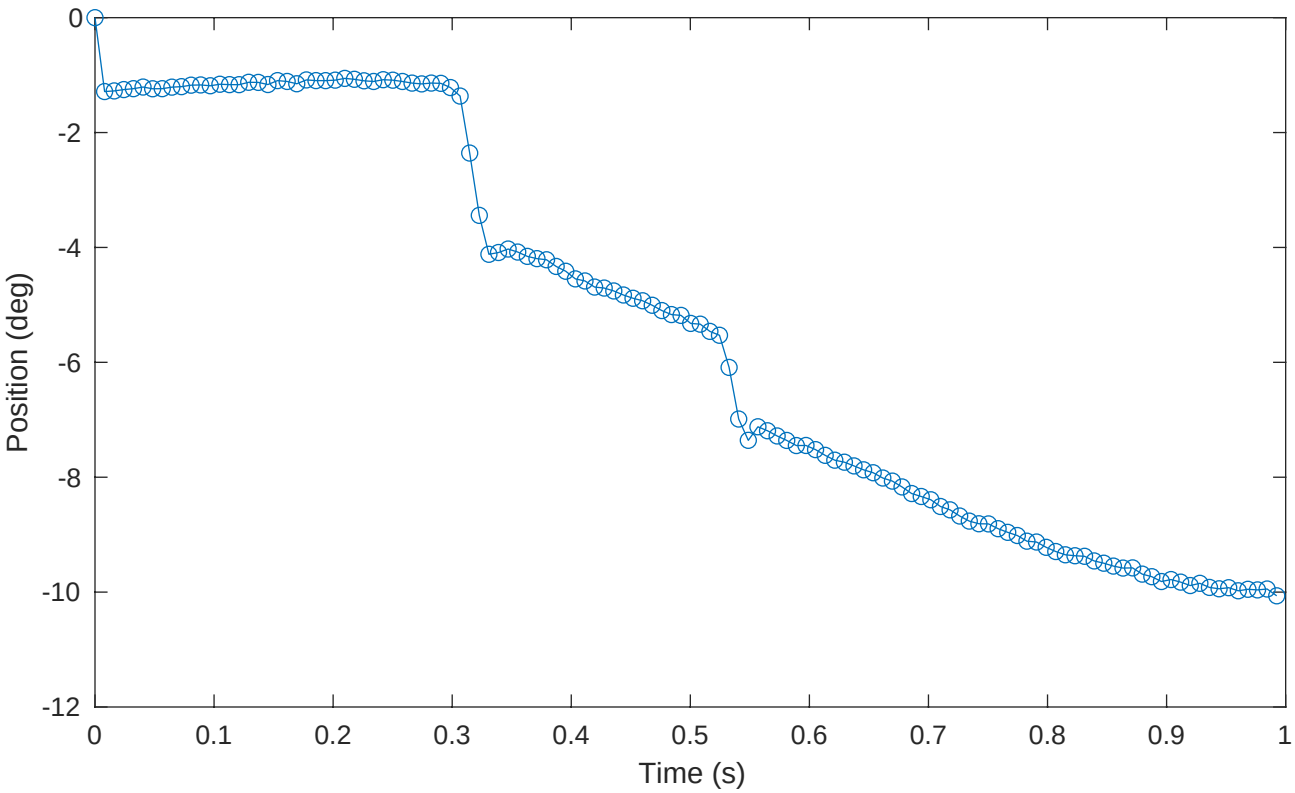

Filtered Position/Velocity: Trial 364 (External)
Position (deg)
Velocity (deg/s)
Time (s)
Externally Filtered Position
Externally Filtered Velocity

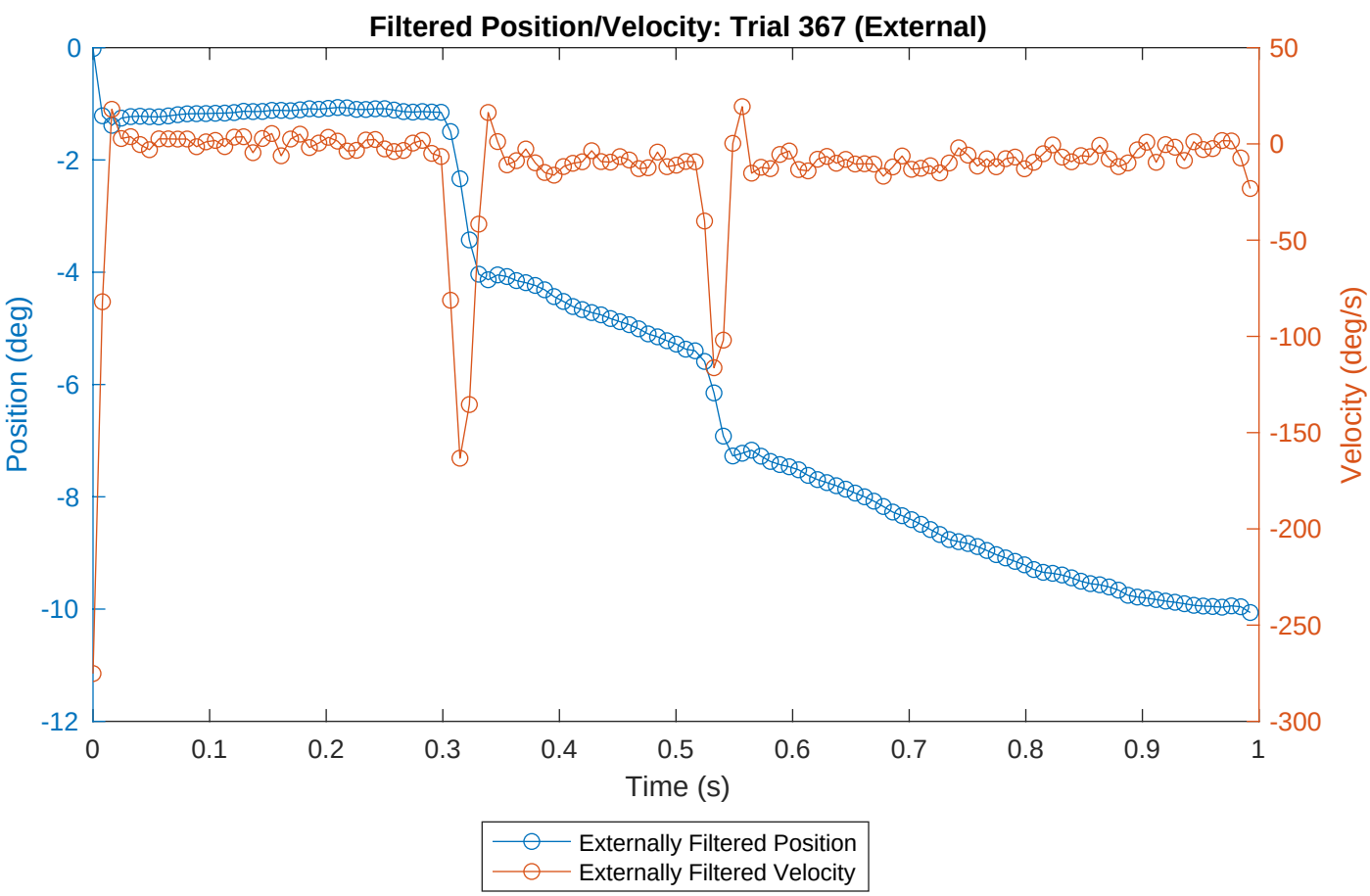

Position (deg)
Time (s)
0
-2
-4
-6
-8
-10
-12
-14
0
0.1
0.2
0.3
0.4
0.5
0.6
0.7
0.8
0.9
1

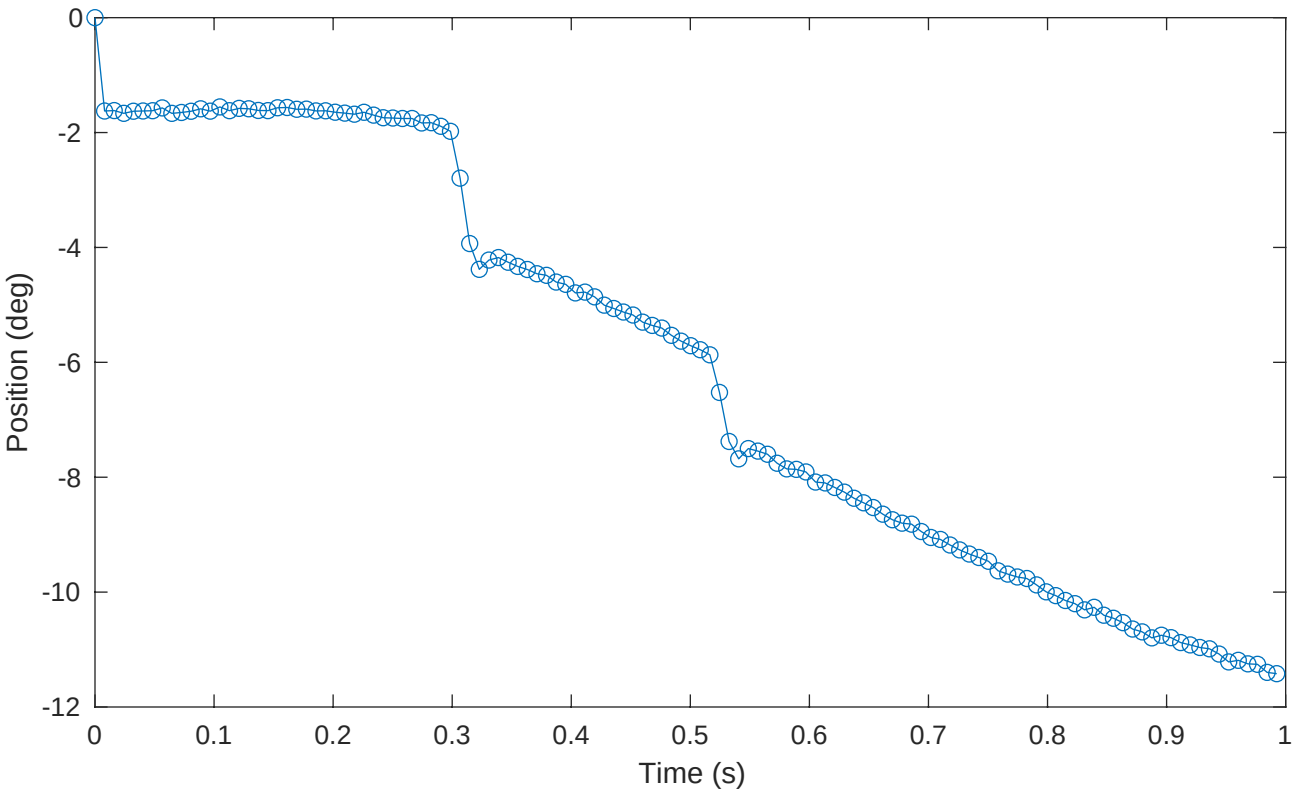

Filtered Position/Velocity: Trial 365 (External)
Position (deg)
Velocity (deg/s)
Time (s)
0
-2
-4
-6
-8
-10
-12
-14
500
400
300
200
100
0
-100
-200
-300
-400
0
0.1
0.2
0.3
0.4
0.5
0.6
0.7
0.8
0.9
1
Externally Filtered Position
Externally Filtered Velocity

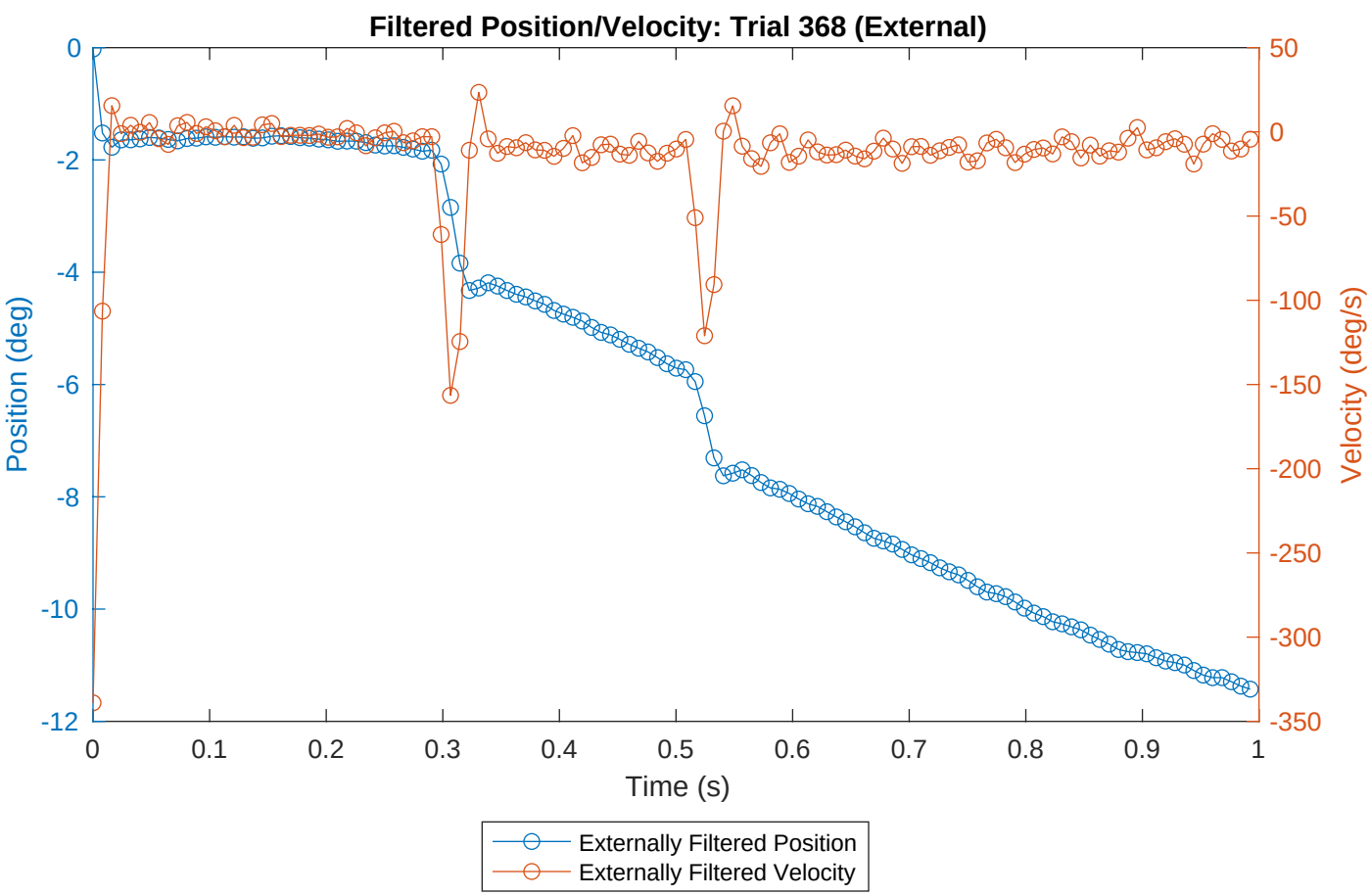

Position (deg)
Time (s)

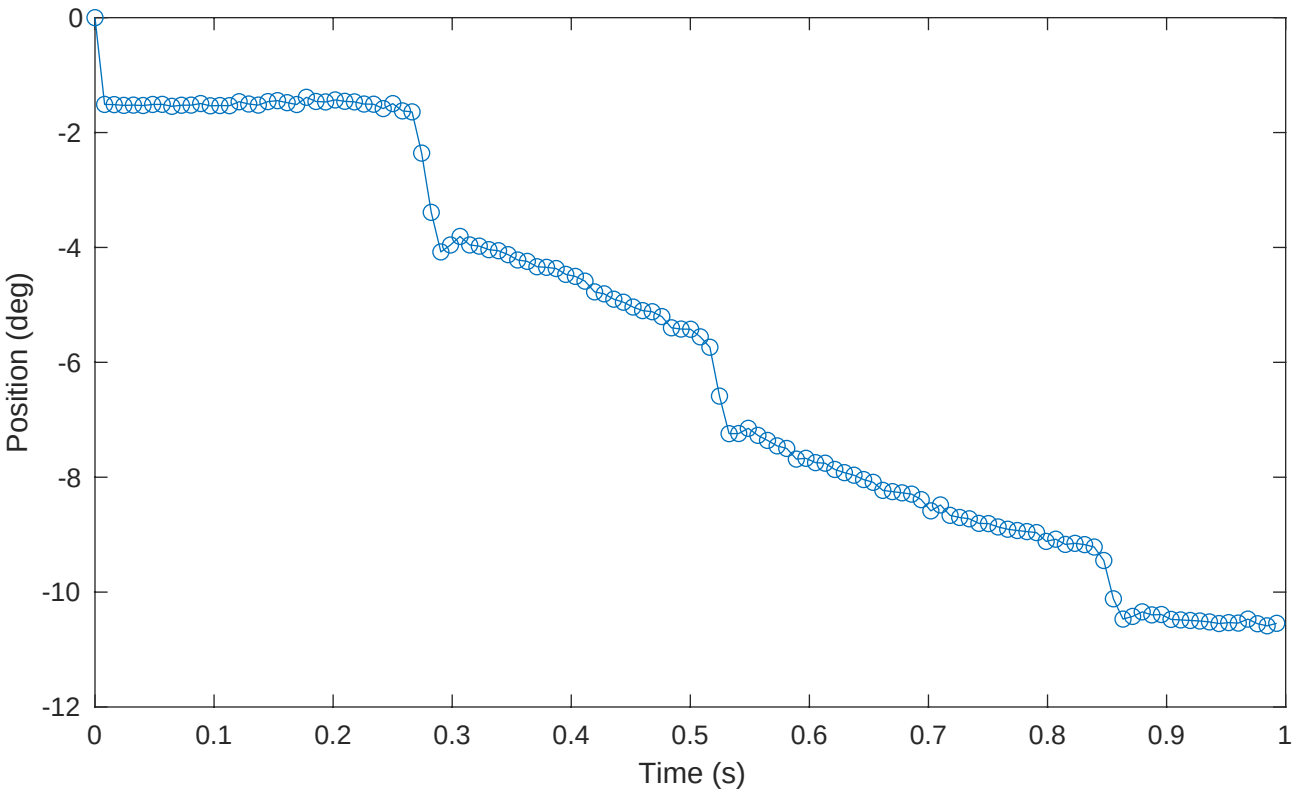

Filtered Position/Velocity: Trial 366 (External)
Position (deg)
Velocity (deg/s)
Time (s)
Externally Filtered Position
Externally Filtered Velocity

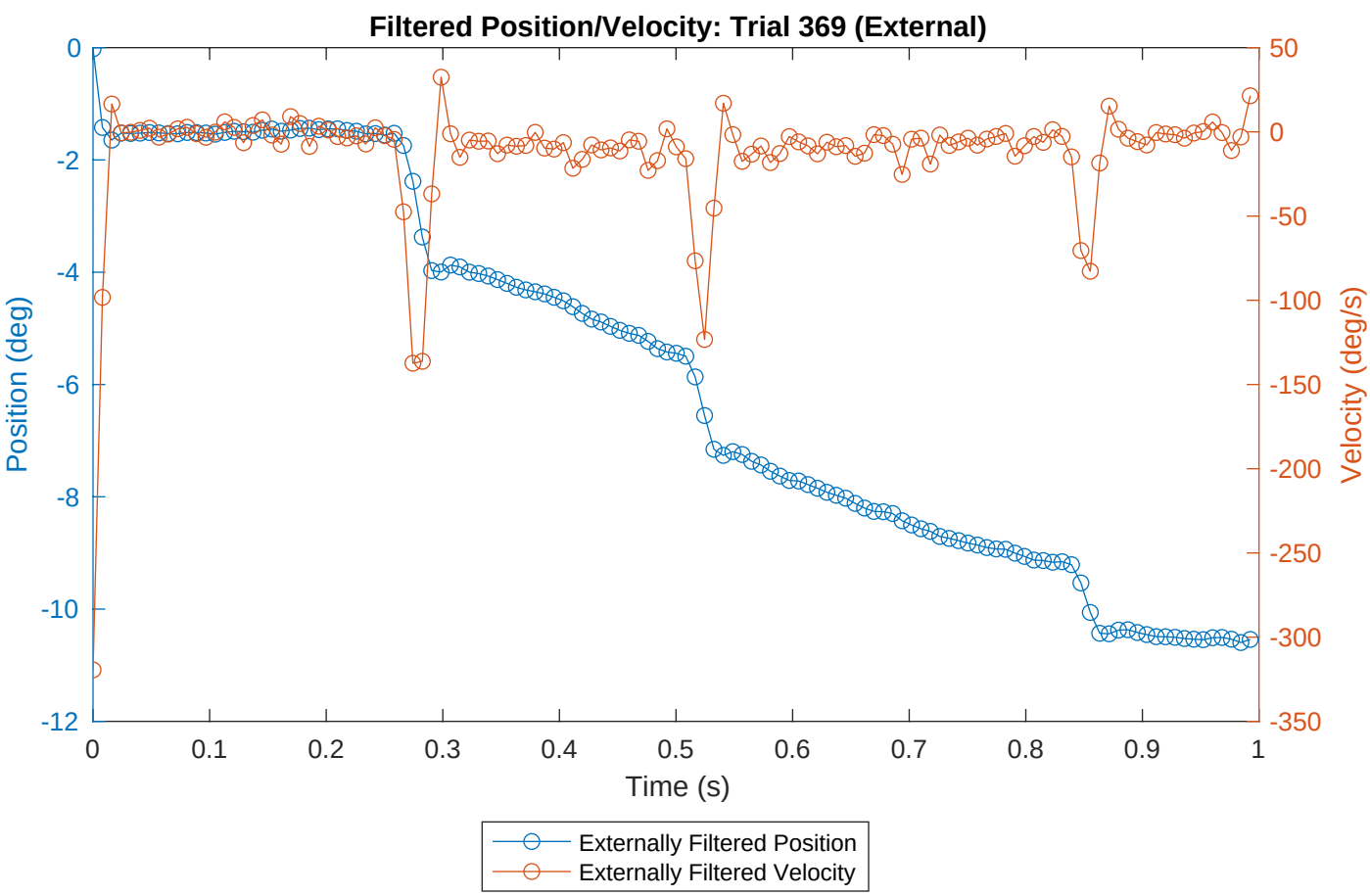

0
-2
-4
-6
-8
-10
-12
Position (deg)
0
0.1
0.2
0.3
0.4
0.5
0.6
0.7
0.8
0.9
1
Time (s)

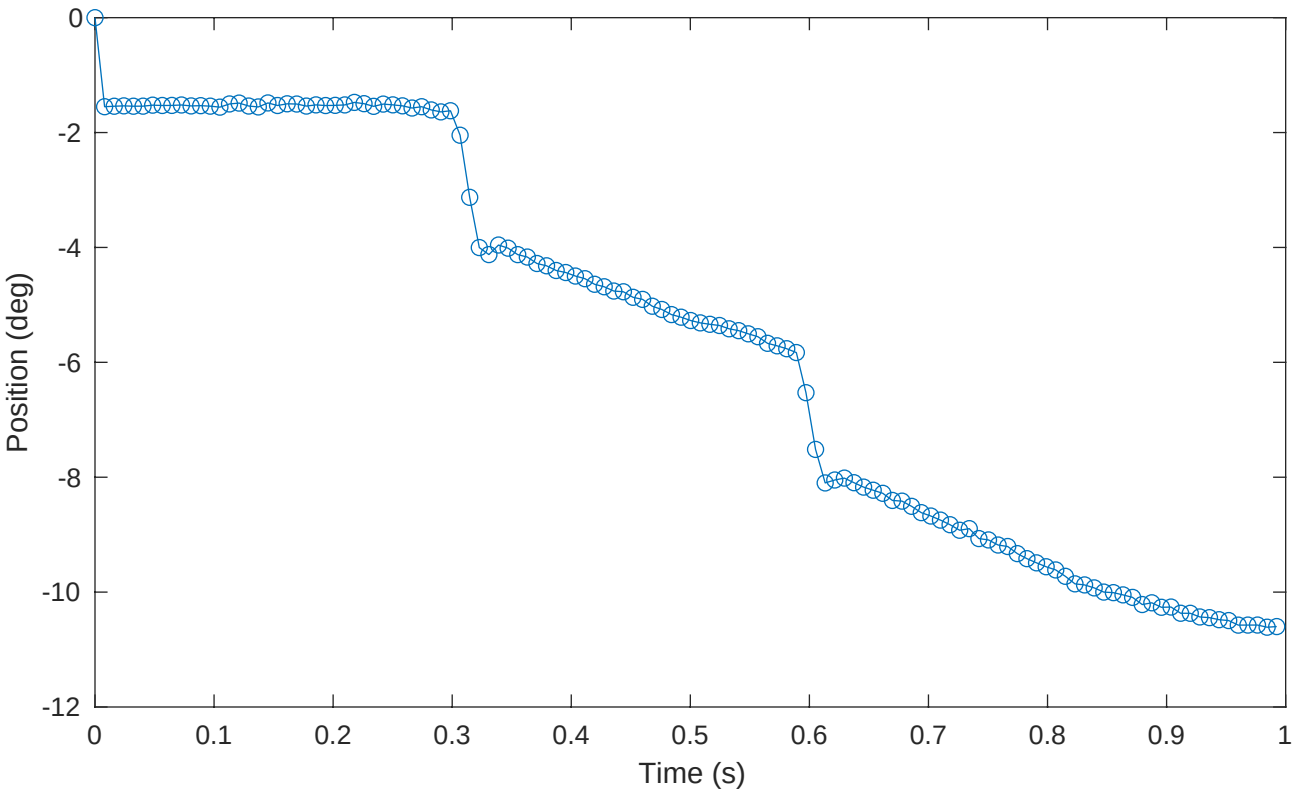

Filtered Position/Velocity: Trial 367 (External)
0
-2
-4
-6
-8
-10
-12
Position (deg)
50
0
-50
-100
-150
-200
-250
-300
Velocity (deg/s)
0
0.1
0.2
0.3
0.4
0.5
0.6
0.7
0.8
0.9
1
Time (s)
Externally Filtered Position
Externally Filtered Velocity

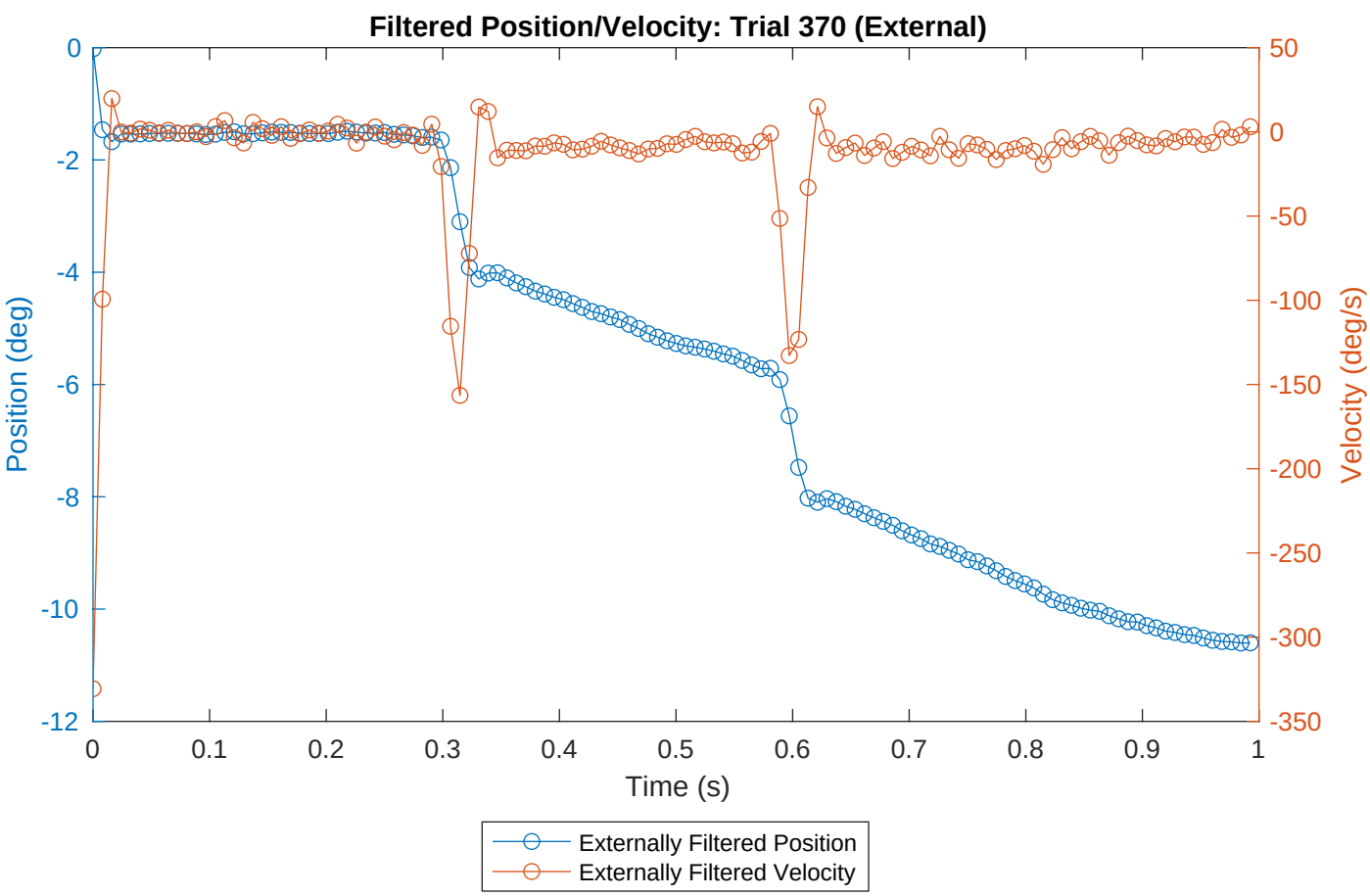

0
-2
-4
-6
-8
-10
-12
Position (deg)
0
0.1
0.2
0.3
0.4
0.5
0.6
0.7
0.8
0.9
1
Time (s)

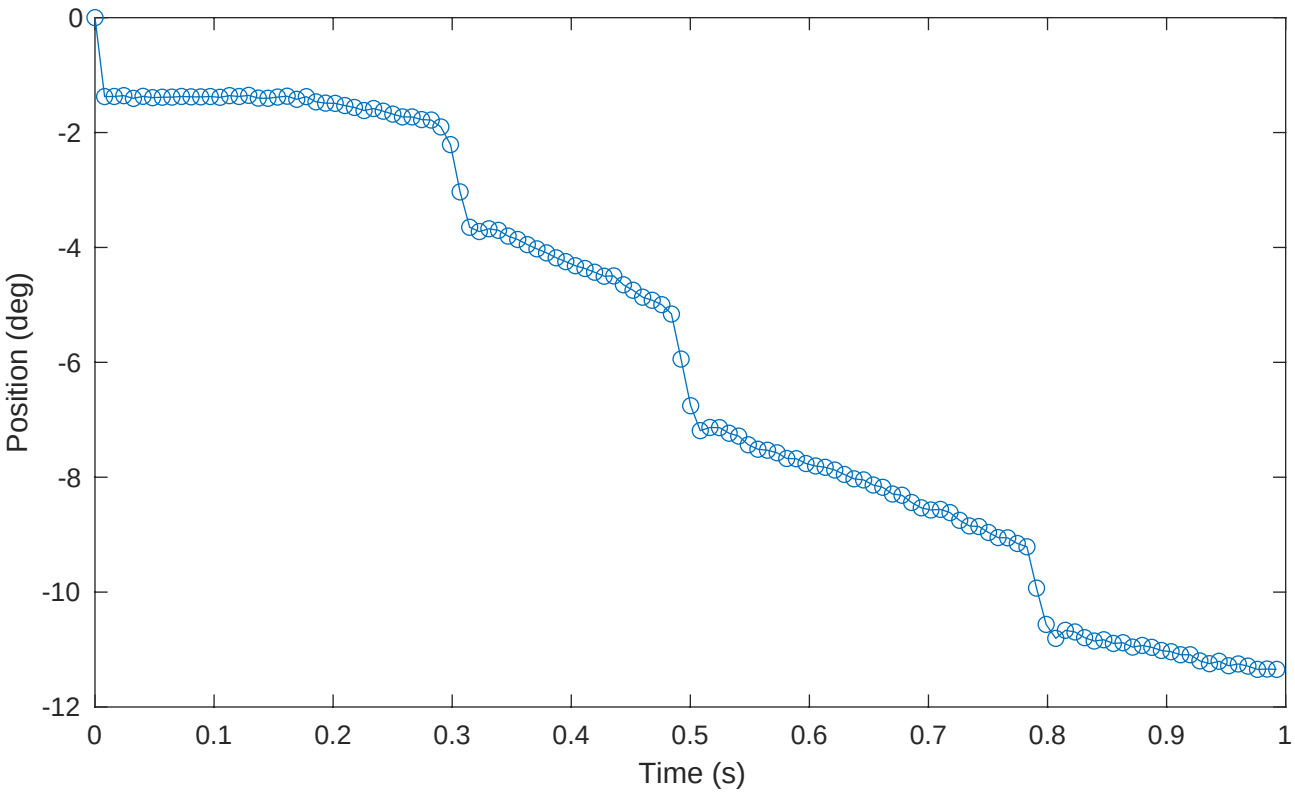

Filtered Position/Velocity: Trial 368 (External)
0
-2
-4
-6
-8
-10
-12
Position (deg)
50
0
-50
-100
-150
-200
-250
-300
-350
Velocity (deg/s)
0
0.1
0.2
0.3
0.4
0.5
0.6
0.7
0.8
0.9
1
Time (s)
Externally Filtered Position
Externally Filtered Velocity

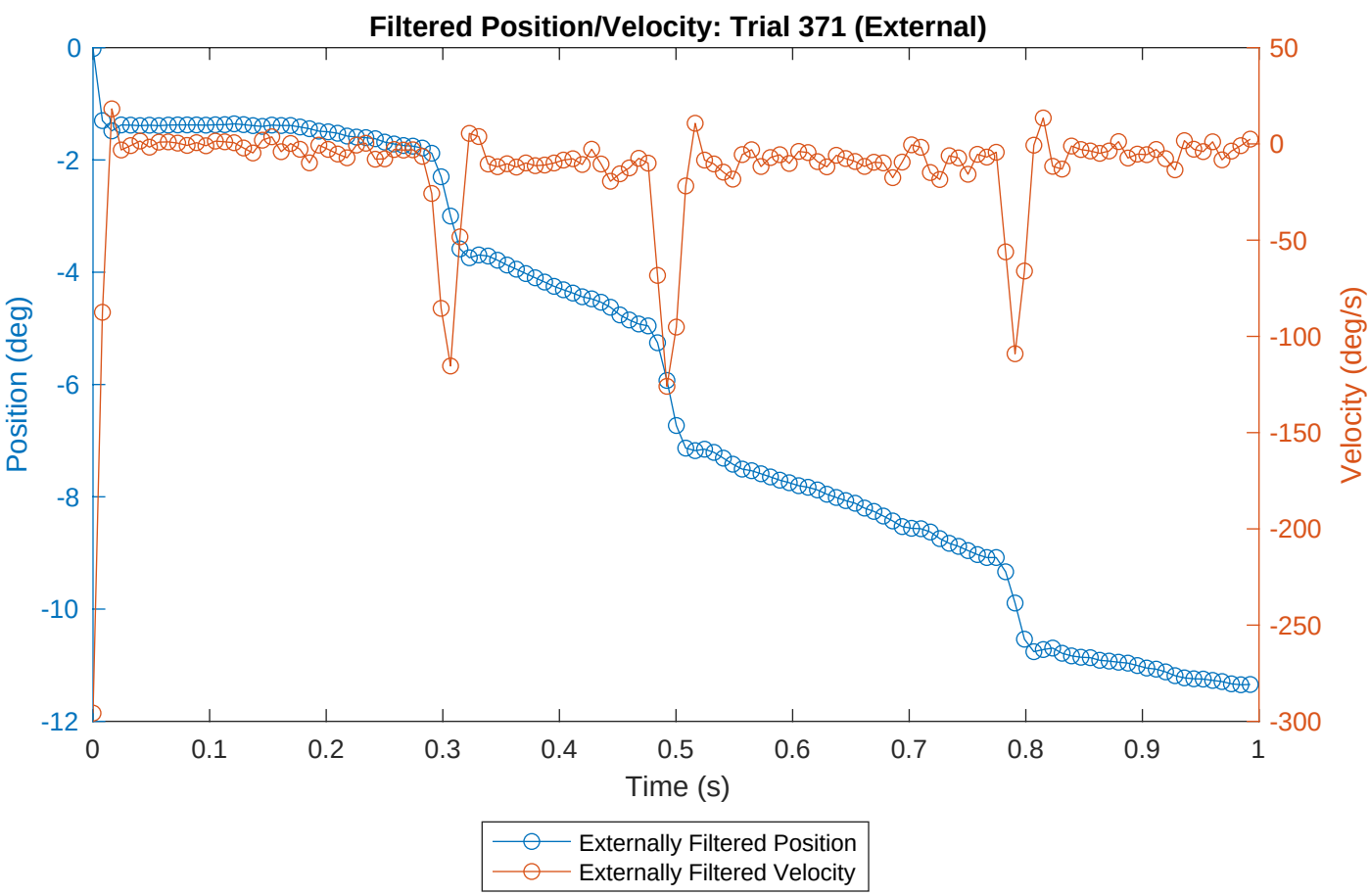

Position (deg)
Time (s)
0
-2
-4
-6
-8
-10
-12
0
0.1
0.2
0.3
0.4
0.5
0.6
0.7
0.8
0.9
1

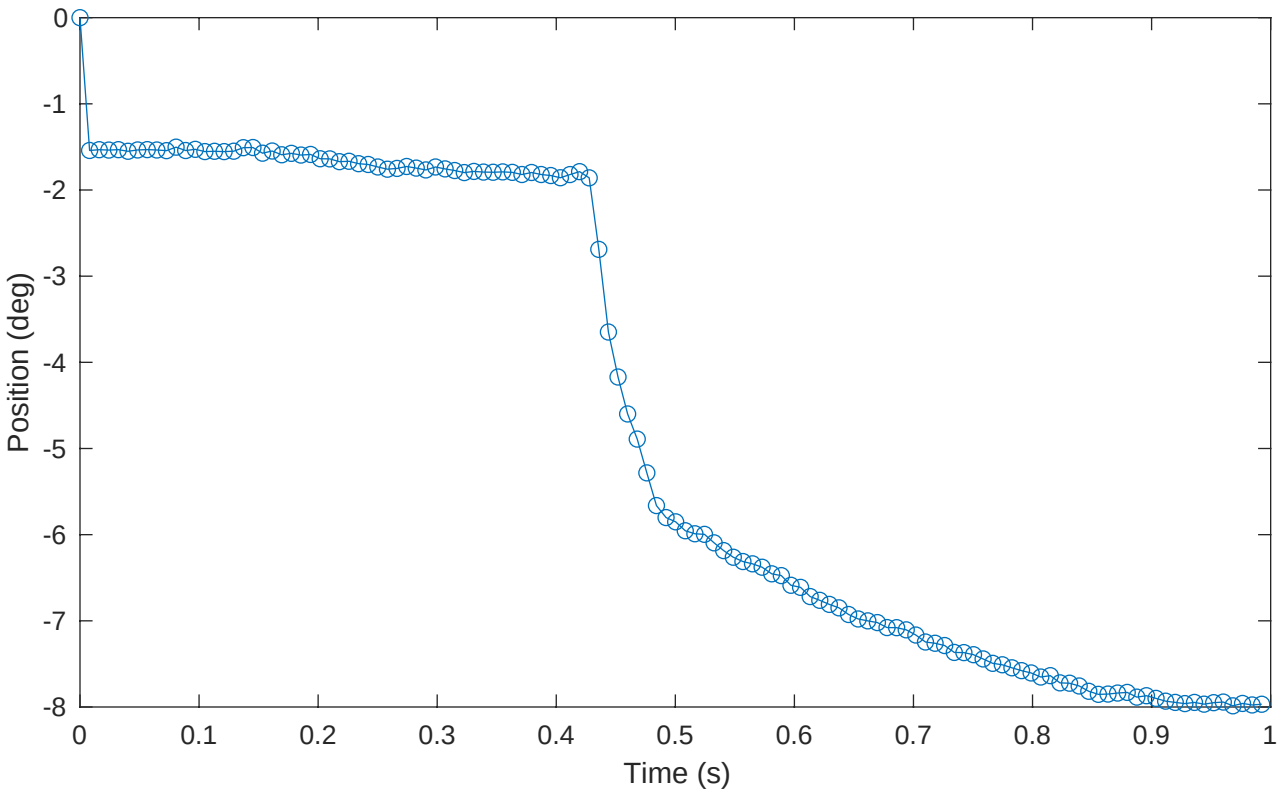

Filtered Position/Velocity: Trial 369 (External)
Position (deg)
Velocity (deg/s)
Time (s)
0
-2
-4
-6
-8
-10
-12
50
0
-50
-100
-150
-200
-250
-300
-350
0
0.1
0.2
0.3
0.4
0.5
0.6
0.7
0.8
0.9
1
Externally Filtered Position
Externally Filtered Velocity

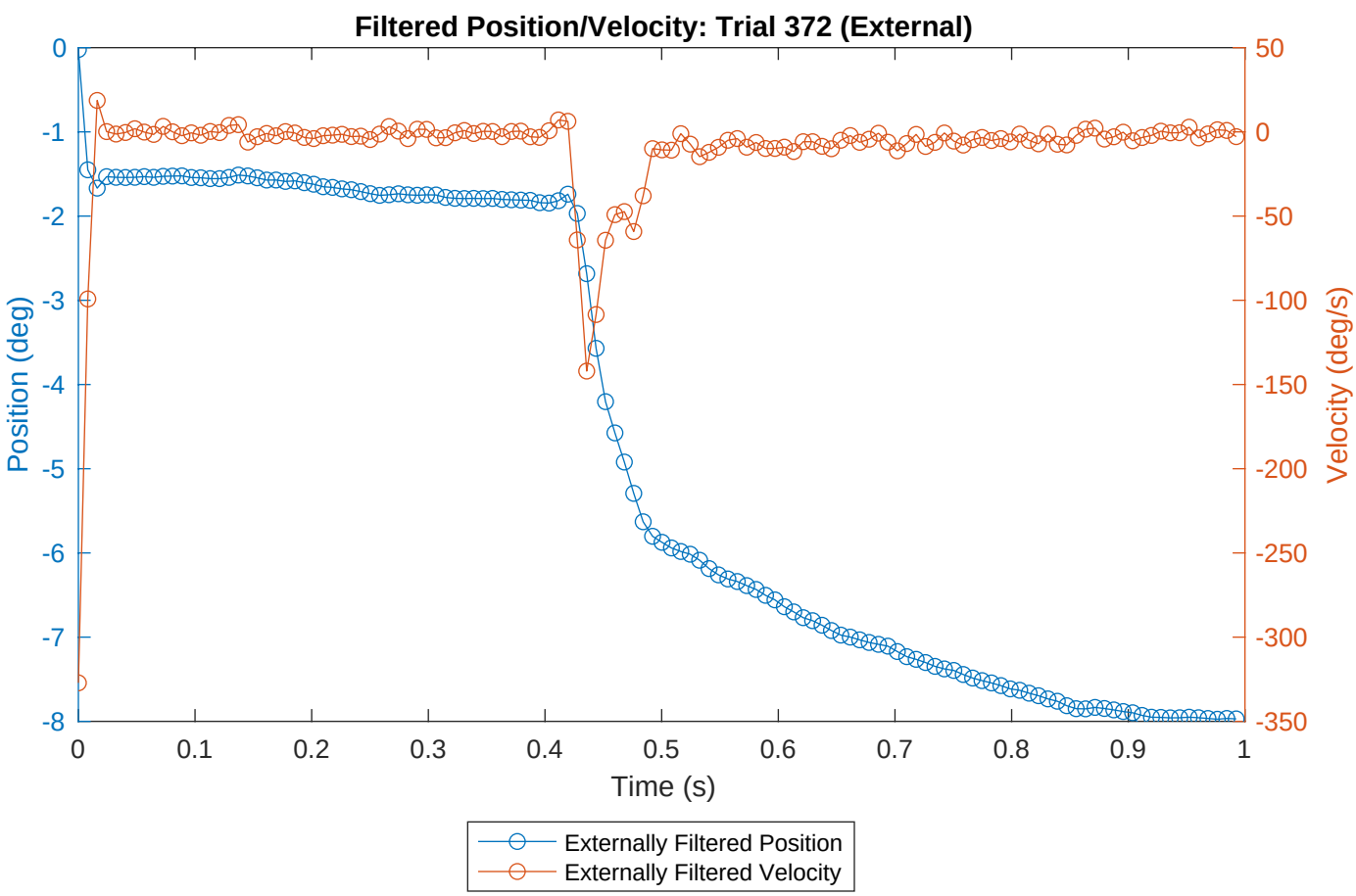

Position (deg)
Time (s)
0
-2
-4
-6
-8
-10
-12
0
0.1
0.2
0.3
0.4
0.5
0.6
0.7
0.8
0.9
1

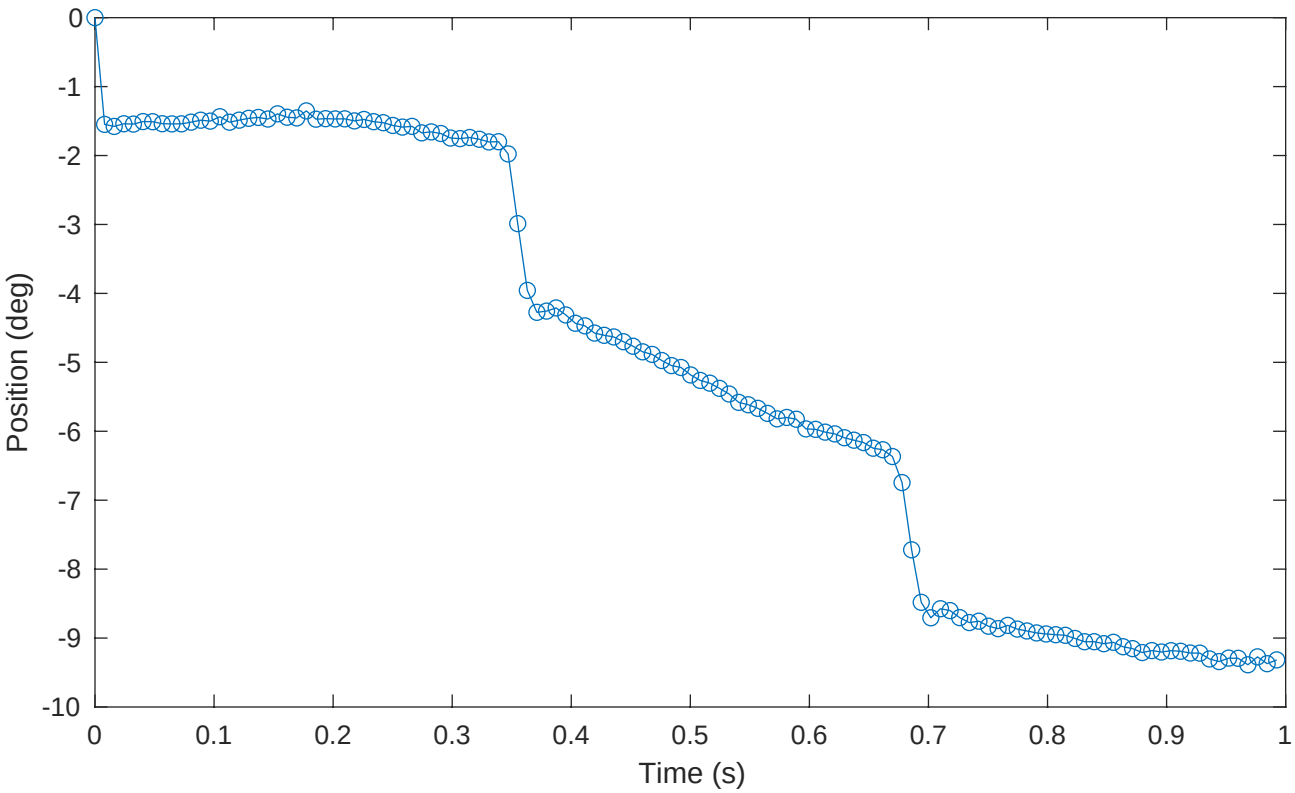

Filtered Position/Velocity: Trial 370 (External)
Position (deg)
Velocity (deg/s)
Time (s)
0
-2
-4
-6
-8
-10
-12
50
0
-50
-100
-150
-200
-250
-300
-350
0
0.1
0.2
0.3
0.4
0.5
0.6
0.7
0.8
0.9
1
Externally Filtered Position
Externally Filtered Velocity

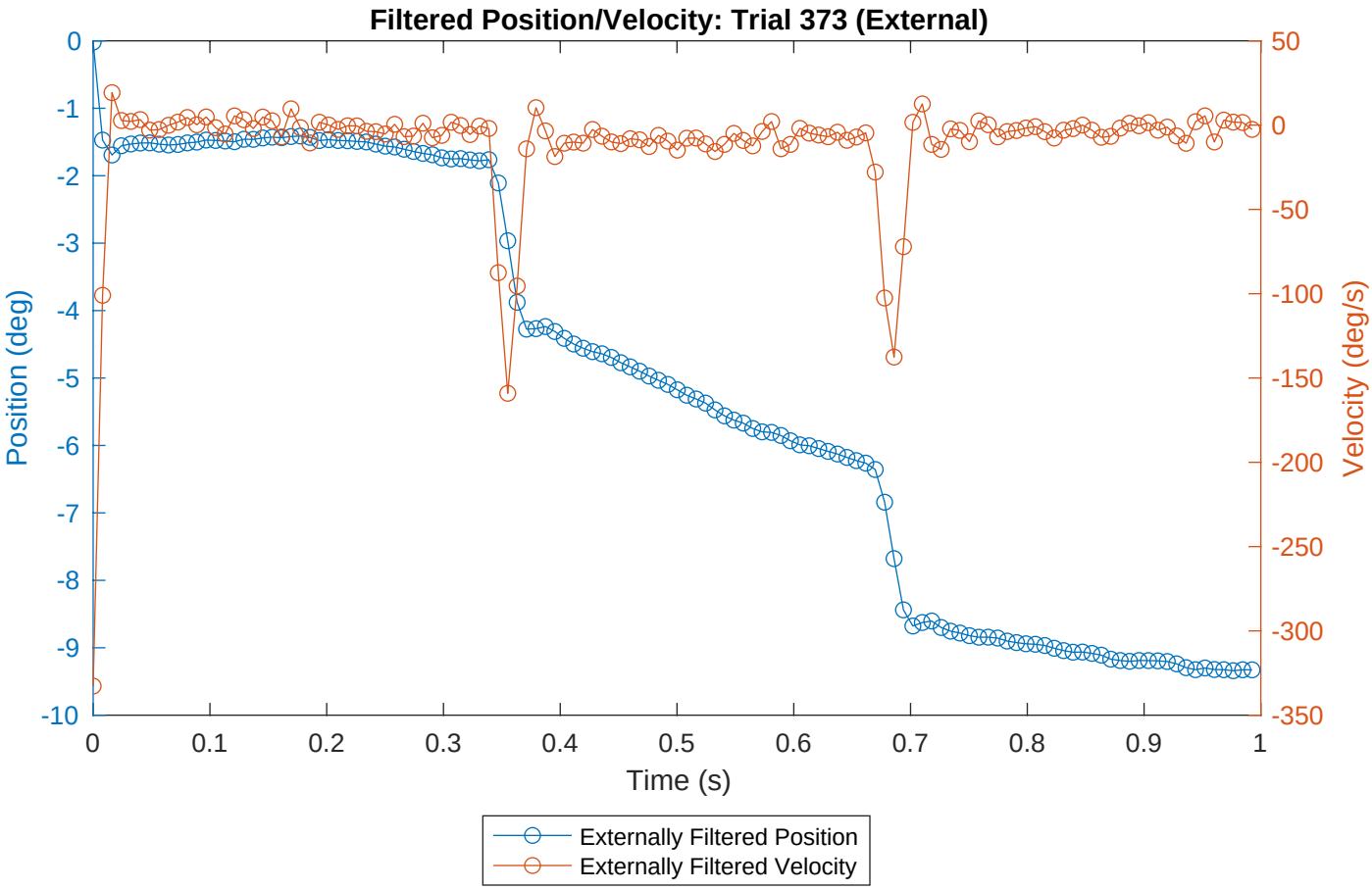

Position (deg)
Time (s)
0
-2
-4
-6
-8
-10
-12
0
0.1
0.2
0.3
0.4
0.5
0.6
0.7
0.8
0.9
1

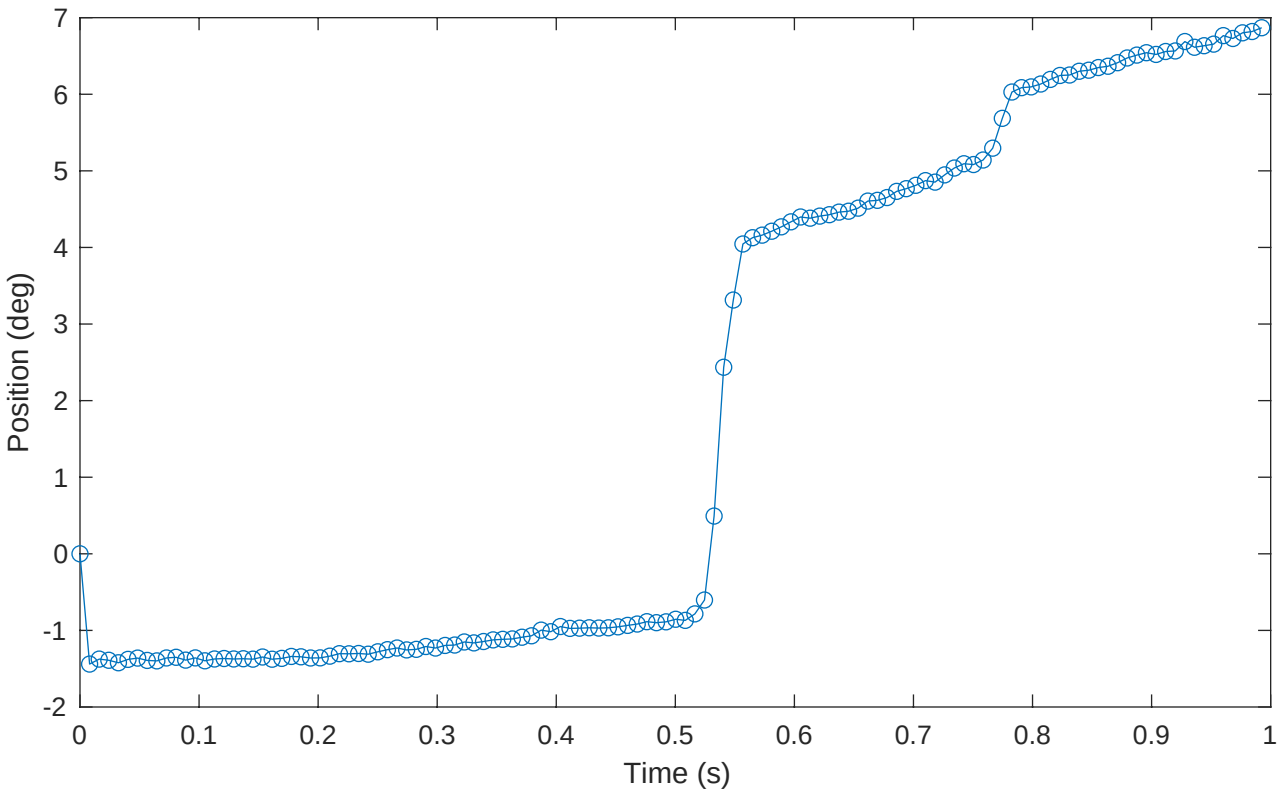

Filtered Position/Velocity: Trial 371 (External)
Position (deg)
Velocity (deg/s)
Time (s)
0
-2
-4
-6
-8
-10
-12
50
0
-50
-100
-150
-200
-250
-300
0
0.1
0.2
0.3
0.4
0.5
0.6
0.7
0.8
0.9
1
Externally Filtered Position
Externally Filtered Velocity

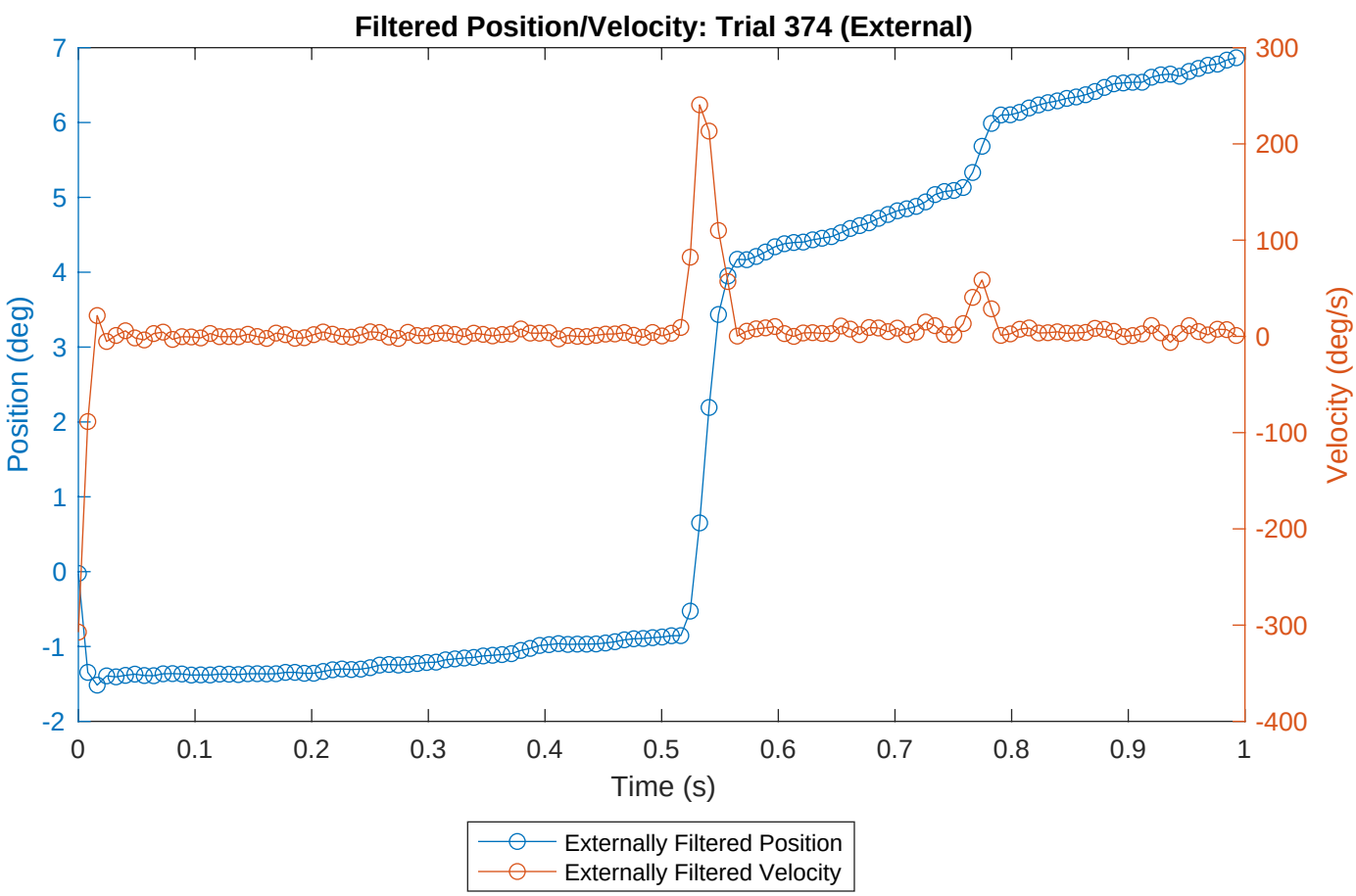

Position (deg)
Time (s)
0
-1
-2
-3
-4
-5
-6
-7
-8
0
0.1
0.2
0.3
0.4
0.5
0.6
0.7
0.8
0.9
1

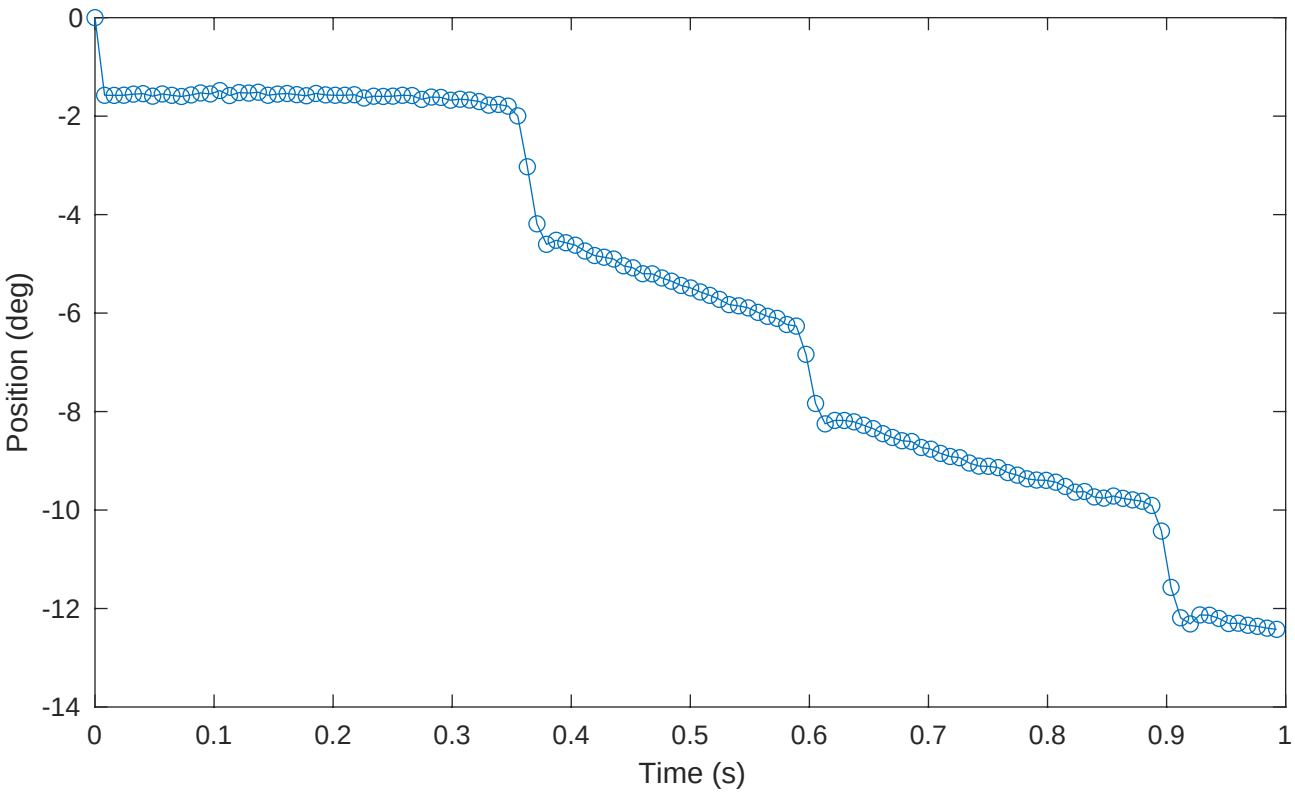

Filtered Position/Velocity: Trial 372 (External)
Position (deg)
Velocity (deg/s)
Time (s)
0
-1
-2
-3
-4
-5
-6
-7
-8
50
0
-50
-100
-150
-200
-250
-300
-350
0
0.1
0.2
0.3
0.4
0.5
0.6
0.7
0.8
0.9
1
Externally Filtered Position
Externally Filtered Velocity

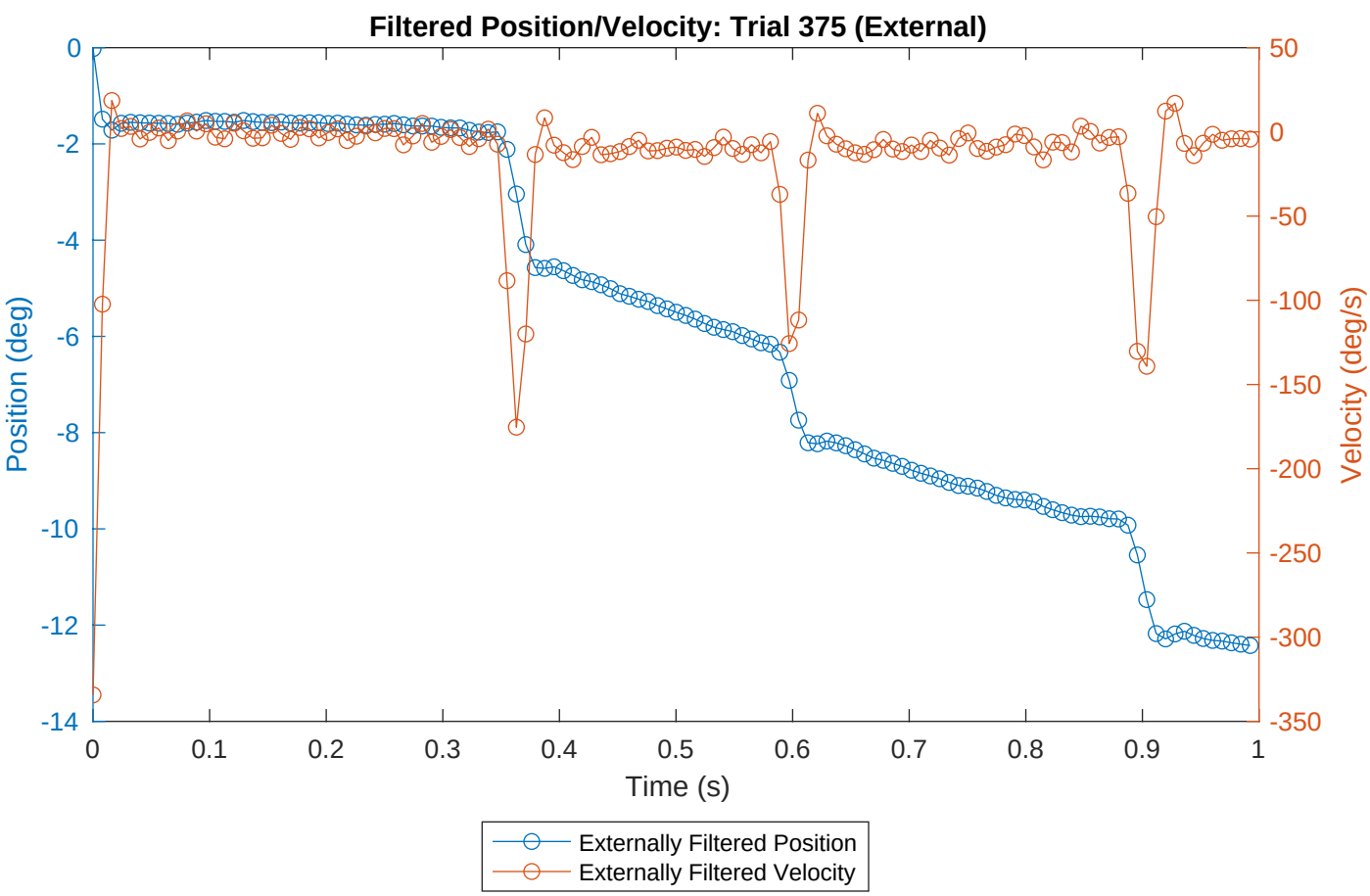

Position (deg)
Time (s)

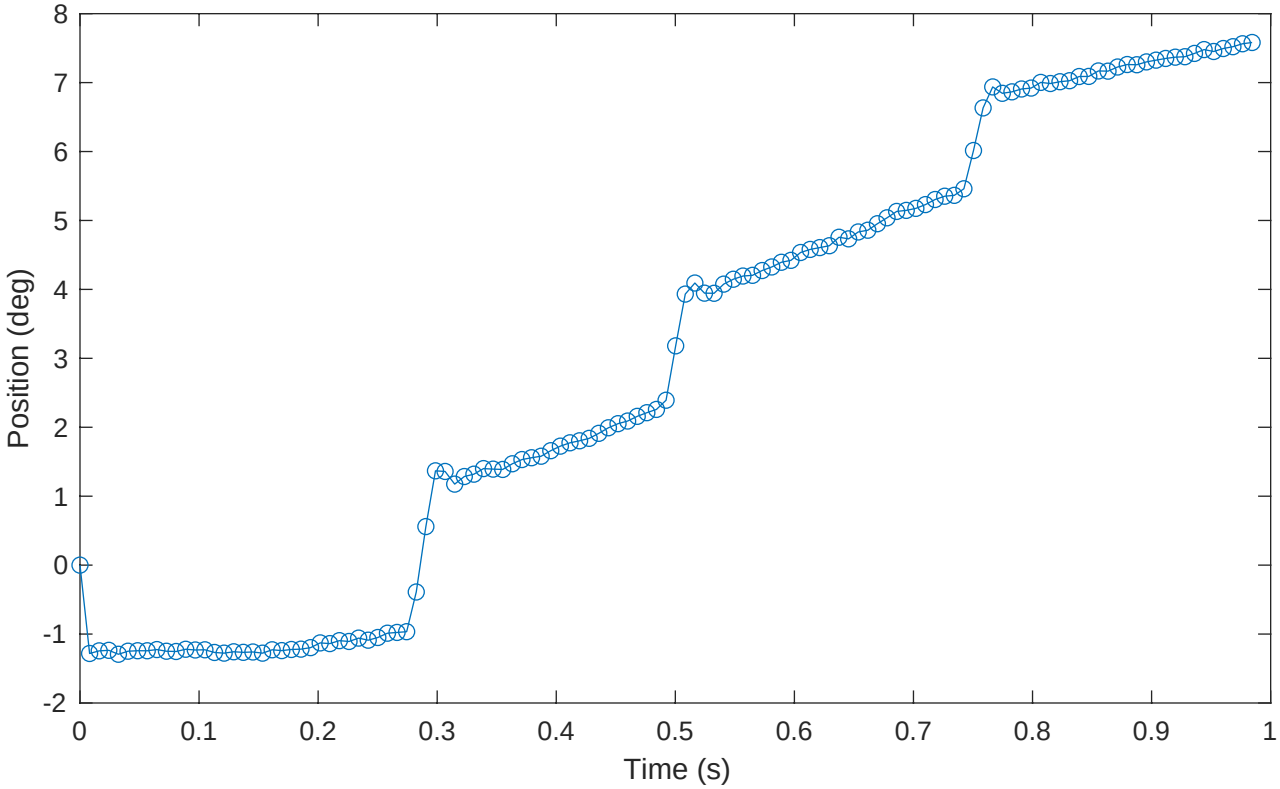

Filtered Position/Velocity: Trial 373 (External)
Position (deg)
Velocity (deg/s)
Time (s)
Externally Filtered Position
Externally Filtered Velocity

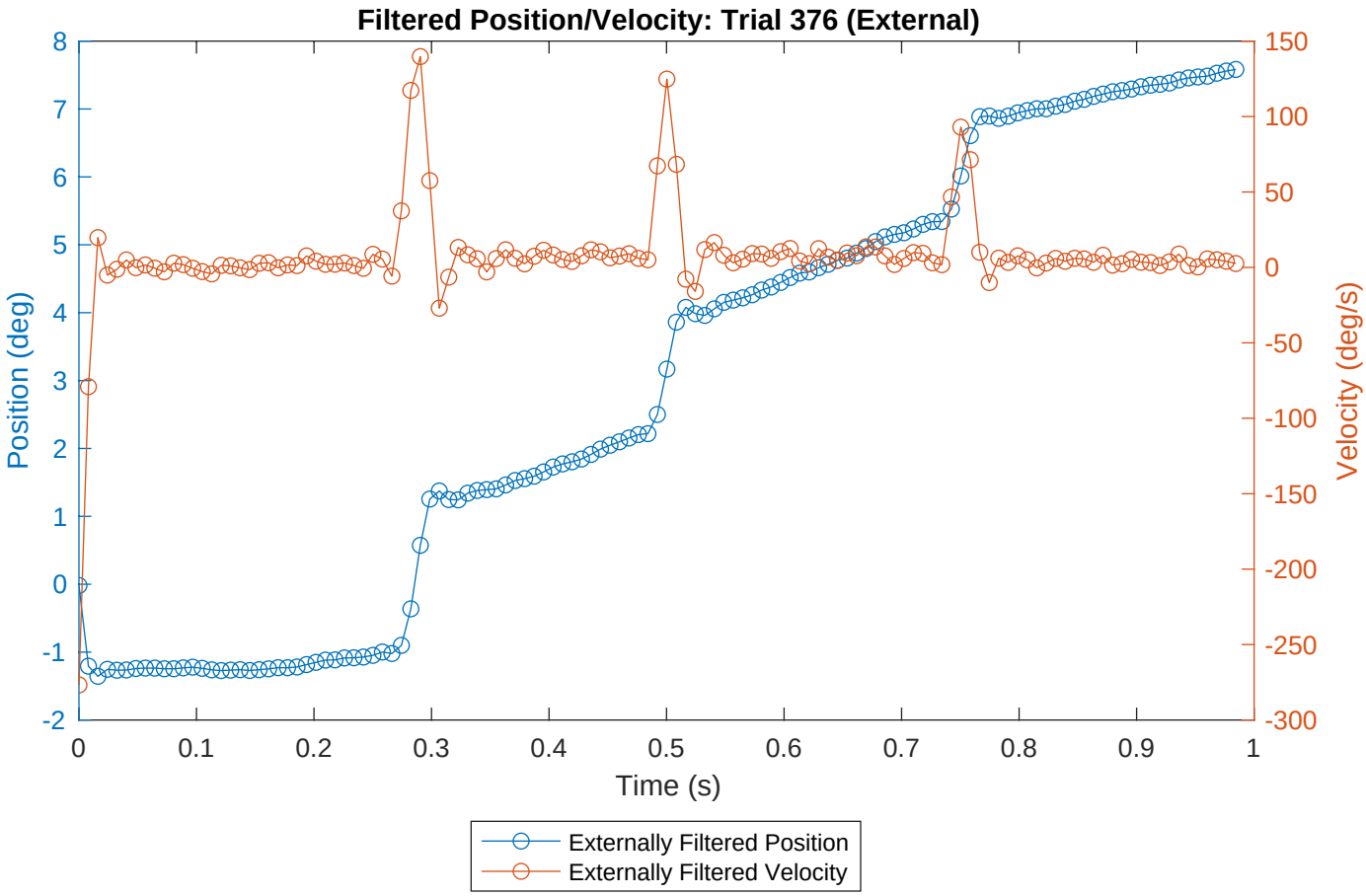

Position (deg)
Time (s)

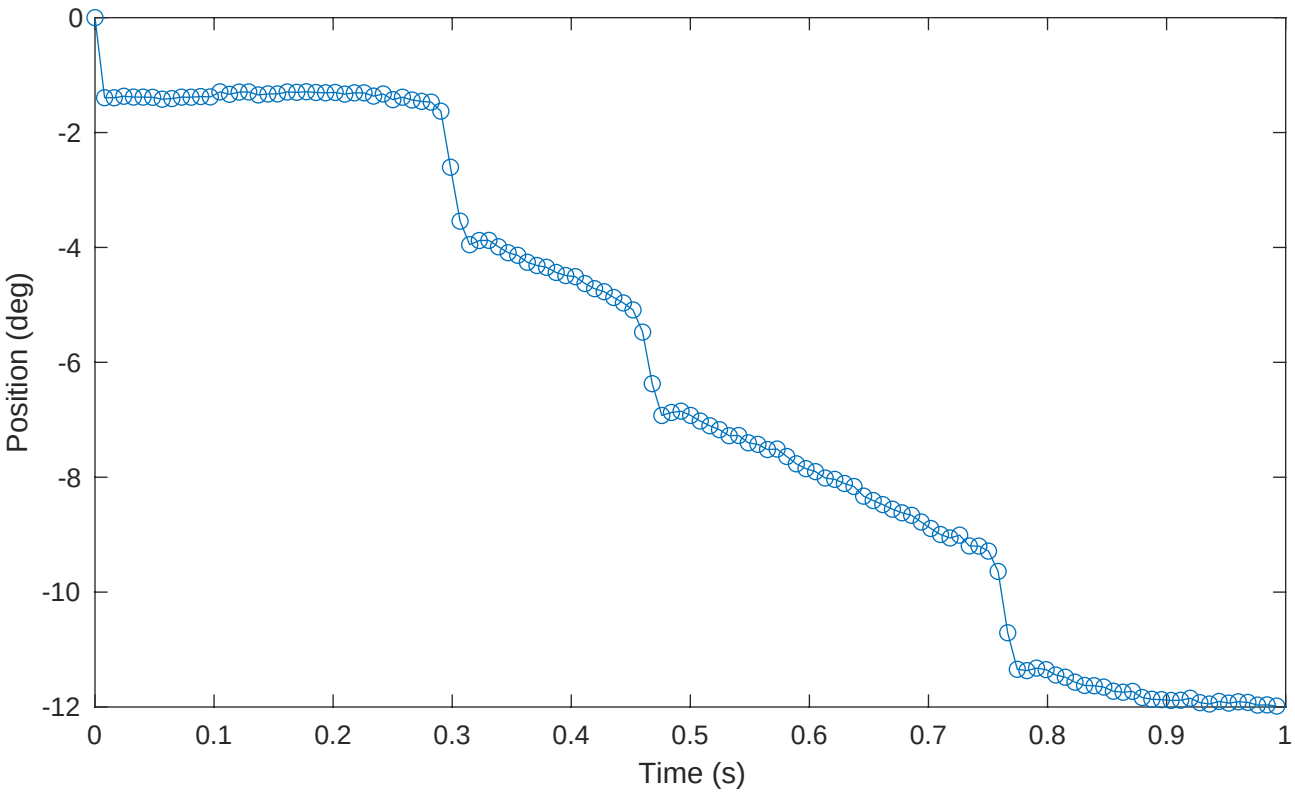

Filtered Position/Velocity: Trial 374 (External)
Position (deg)
Velocity (deg/s)
Time (s)
Externally Filtered Position
Externally Filtered Velocity

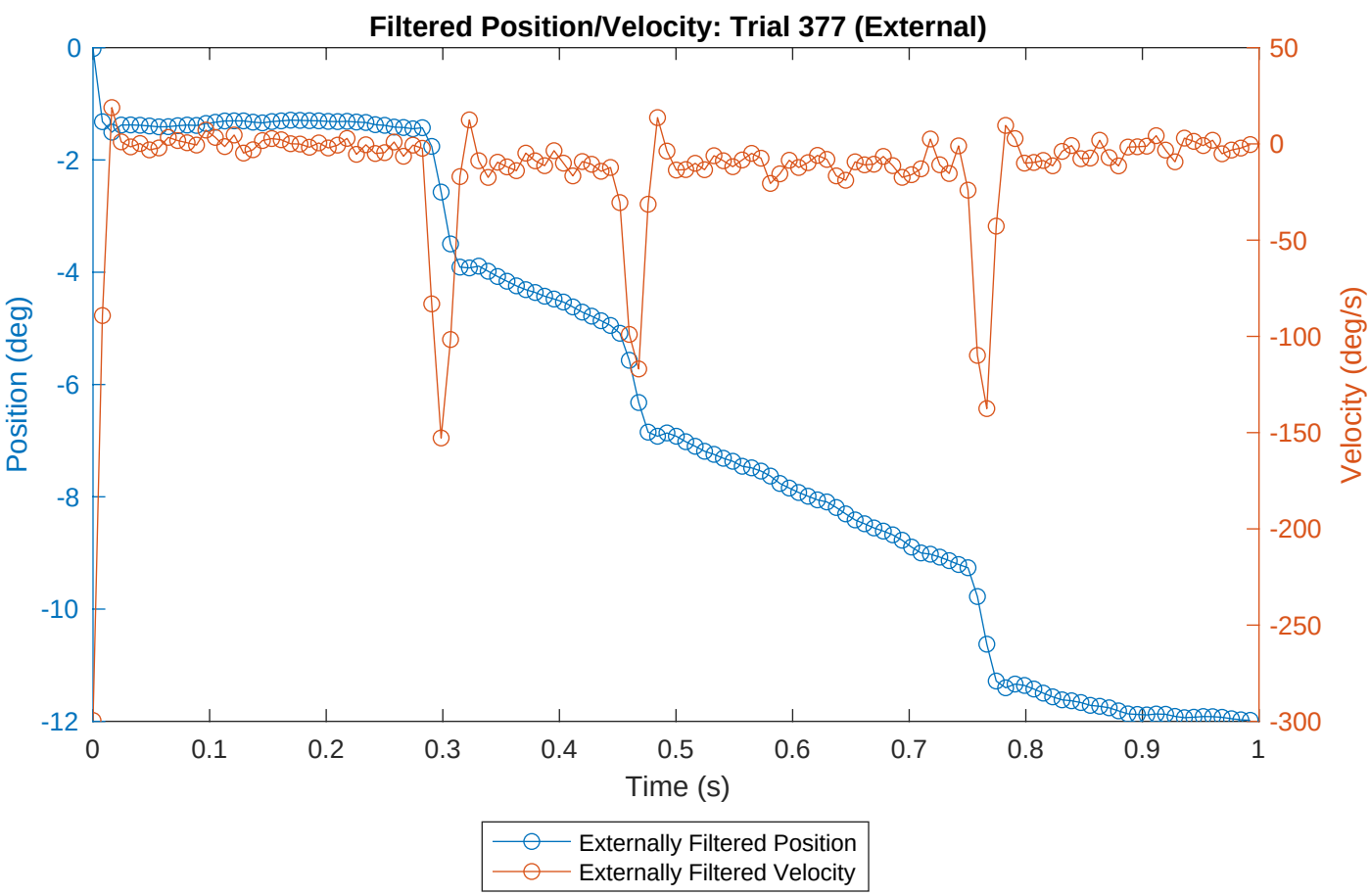

Position (deg)
Time (s)
0
-2
-4
-6
-8
-10
-12
-14
0
0.1
0.2
0.3
0.4
0.5
0.6
0.7
0.8
0.9
1

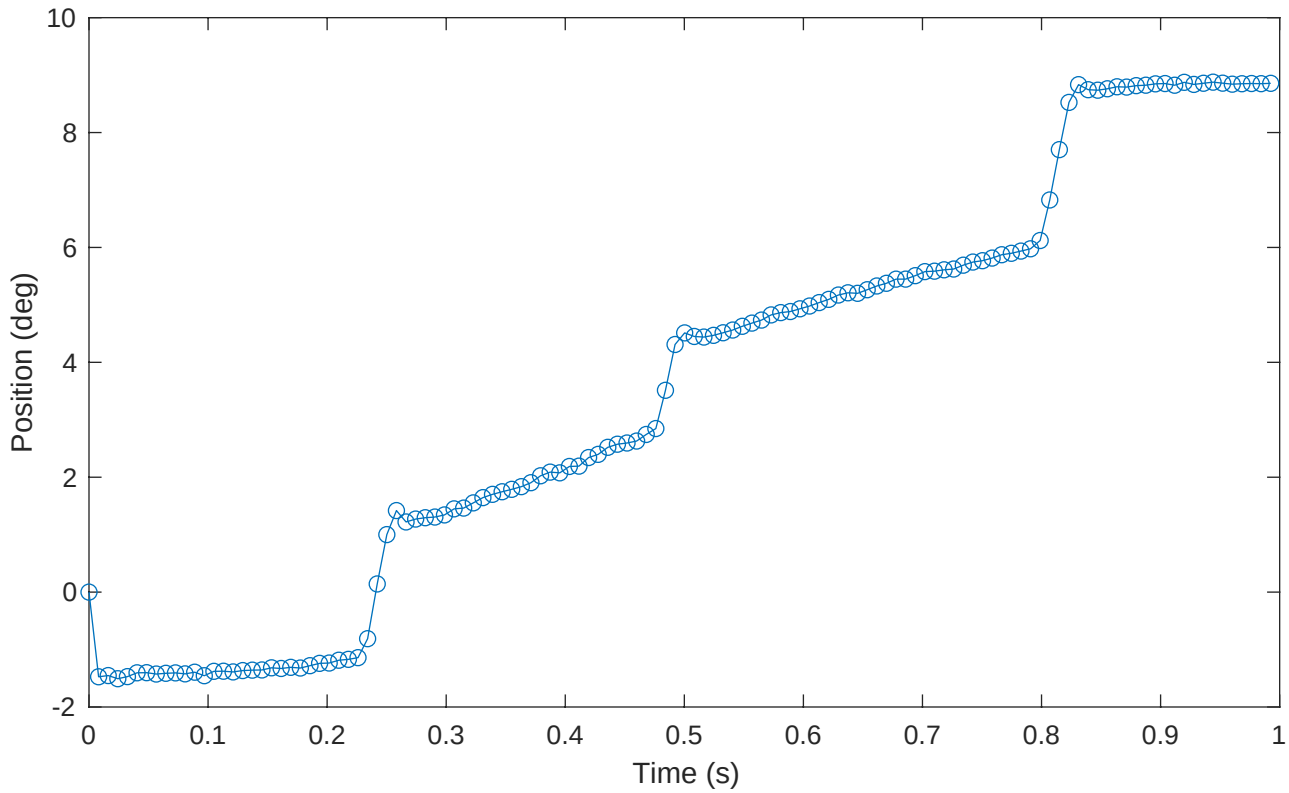

Filtered Position/Velocity: Trial 375 (External)
Position (deg)
Velocity (deg/s)
Time (s)
0
-2
-4
-6
-8
-10
-12
-14
50
0
-50
-100
-150
-200
-250
-300
-350
0
0.1
0.2
0.3
0.4
0.5
0.6
0.7
0.8
0.9
1
Externally Filtered Position
Externally Filtered Velocity

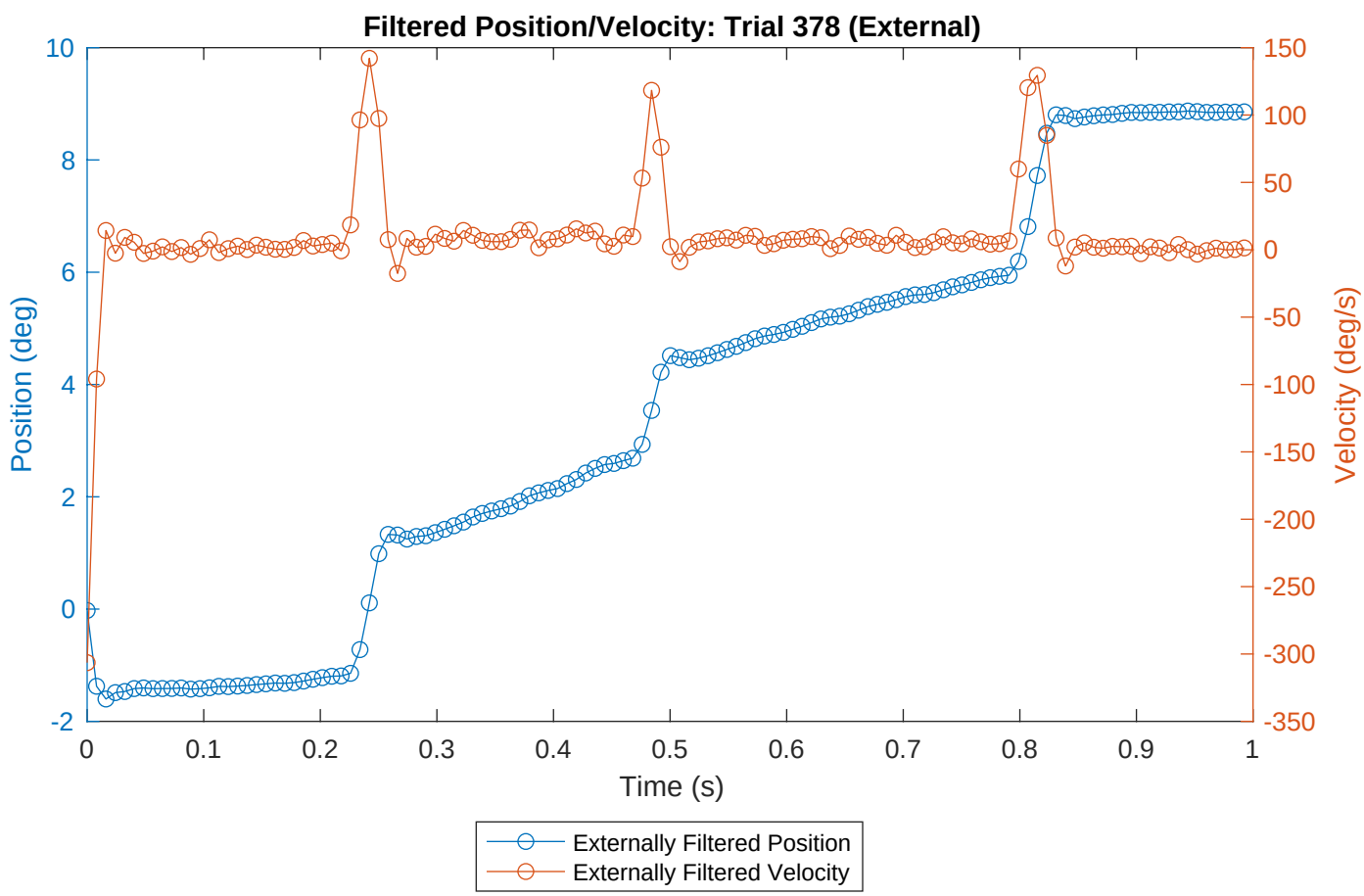

Position (deg)
Time (s)

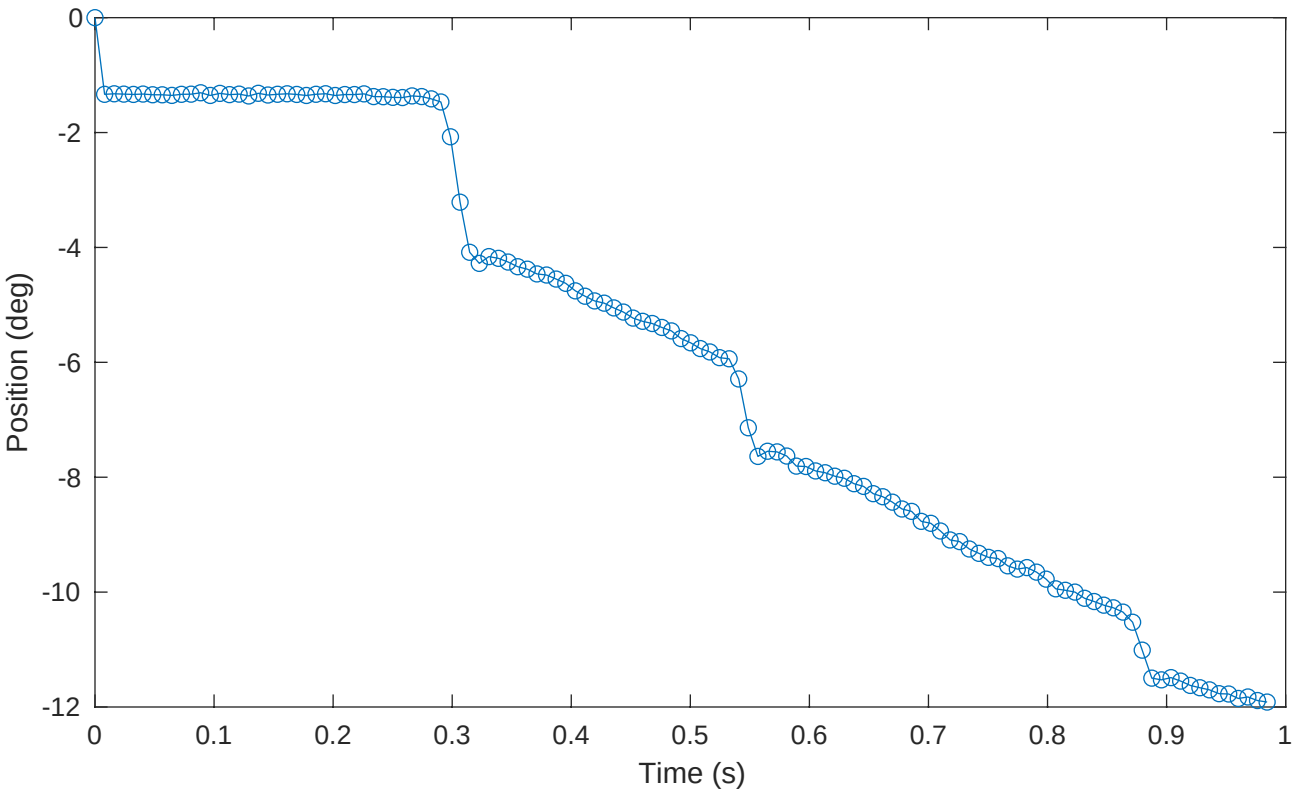

Filtered Position/Velocity: Trial 376 (External)
Position (deg)
Velocity (deg/s)
Time (s)
Externally Filtered Position
Externally Filtered Velocity

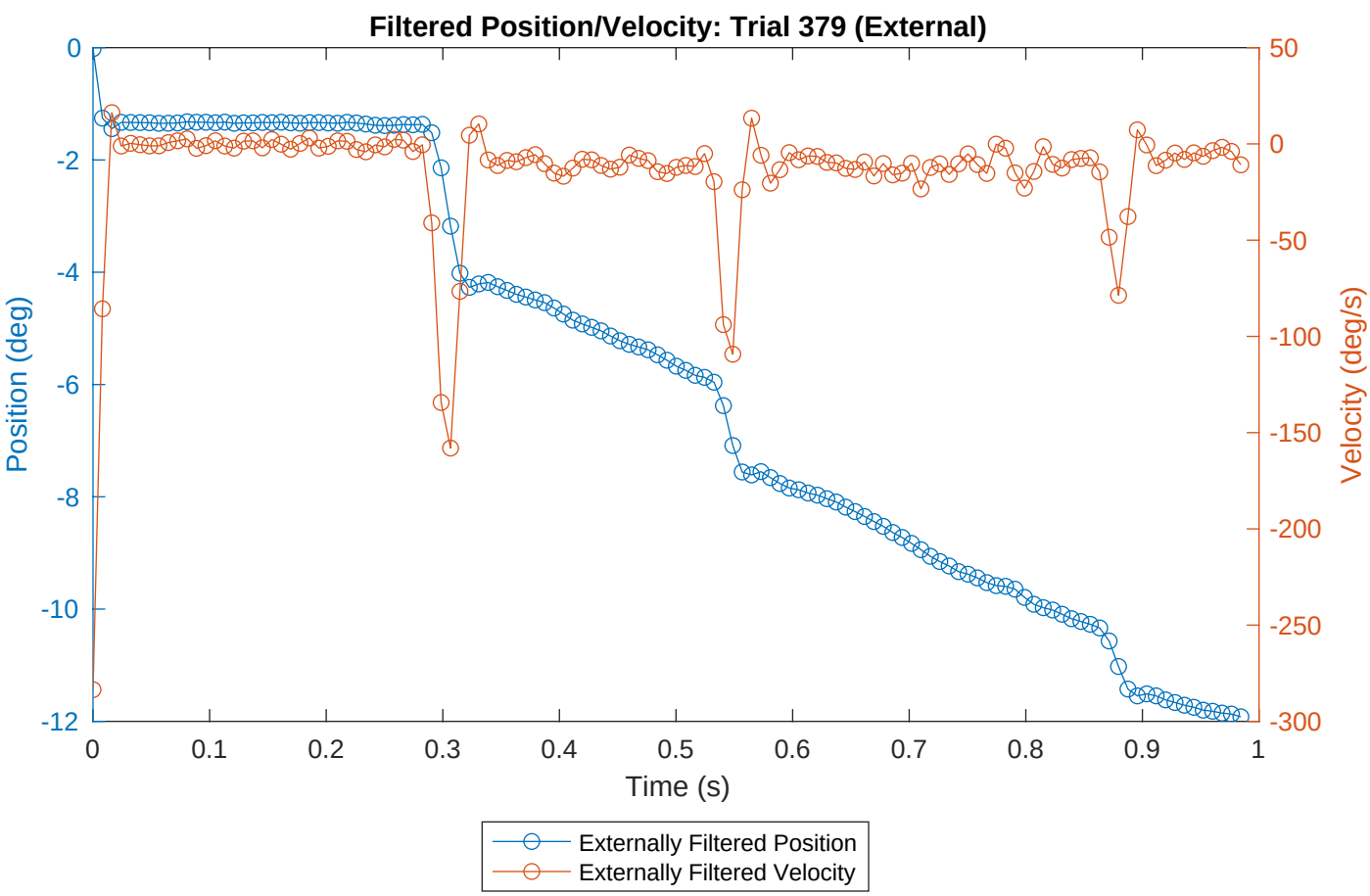

Position (deg)
Time (s)
0
-2
-4
-6
-8
-10
-12
0
0.1
0.2
0.3
0.4
0.5
0.6
0.7
0.8
0.9
1

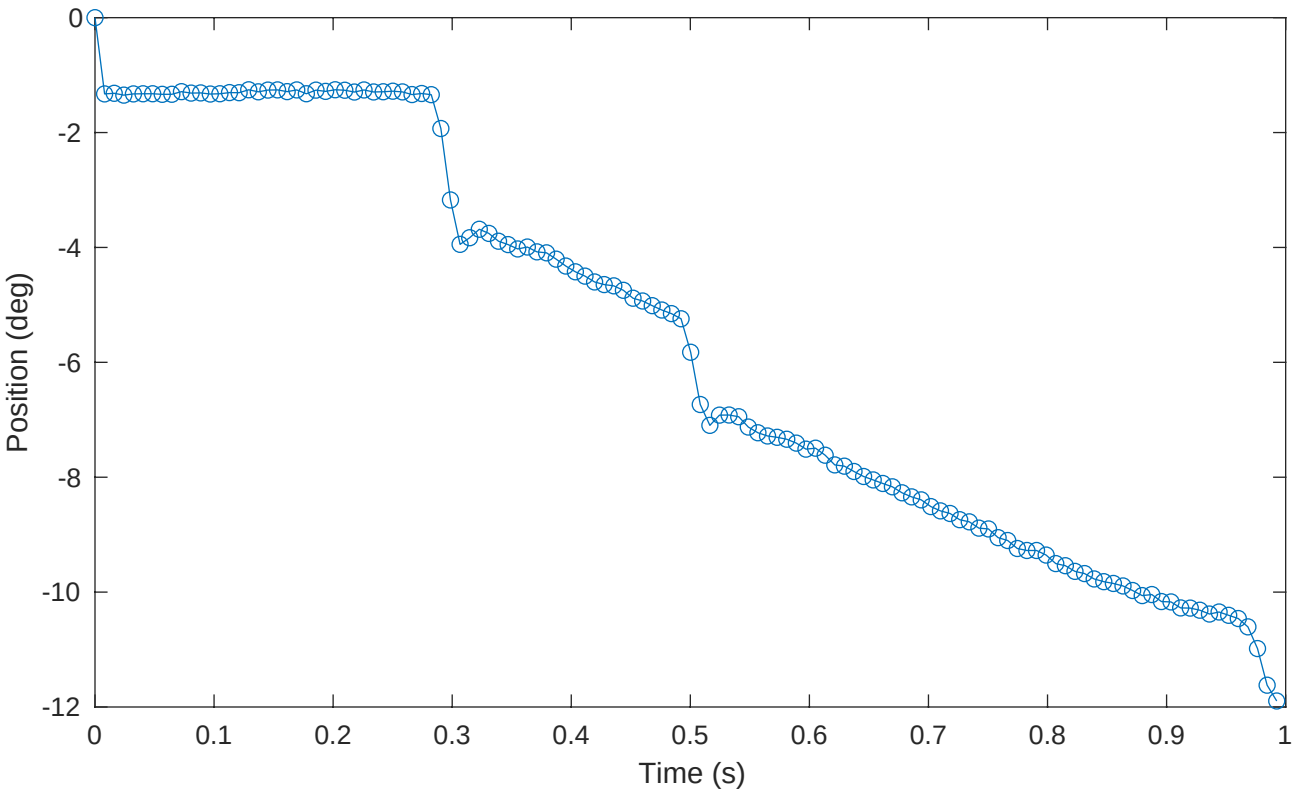

Filtered Position/Velocity: Trial 377 (External)
Position (deg)
Velocity (deg/s)
Time (s)
0
-2
-4
-6
-8
-10
-12
50
0
-50
-100
-150
-200
-250
-300
0
0.1
0.2
0.3
0.4
0.5
0.6
0.7
0.8
0.9
1
Externally Filtered Position
Externally Filtered Velocity

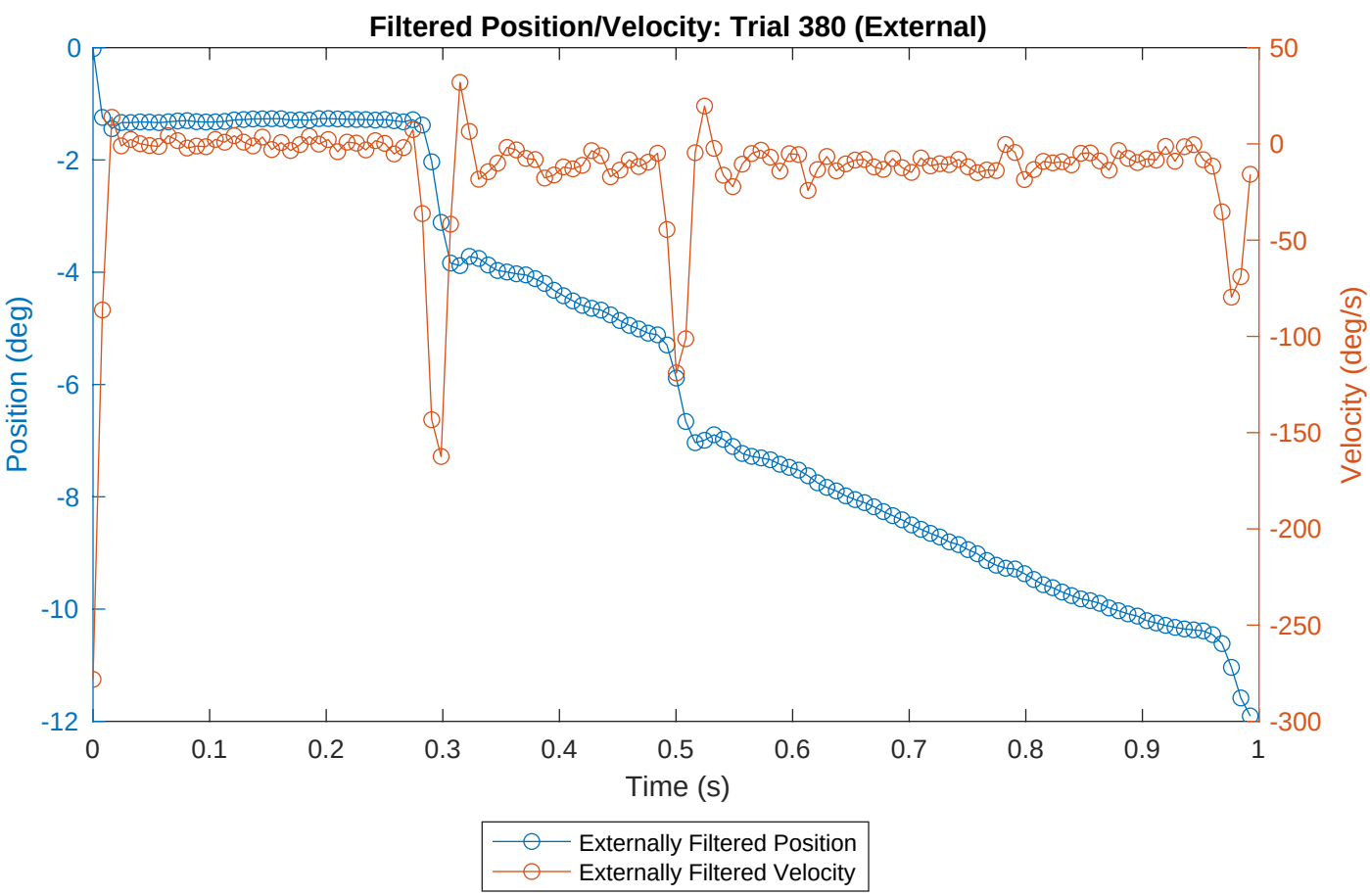

Position (deg)
Time (s)

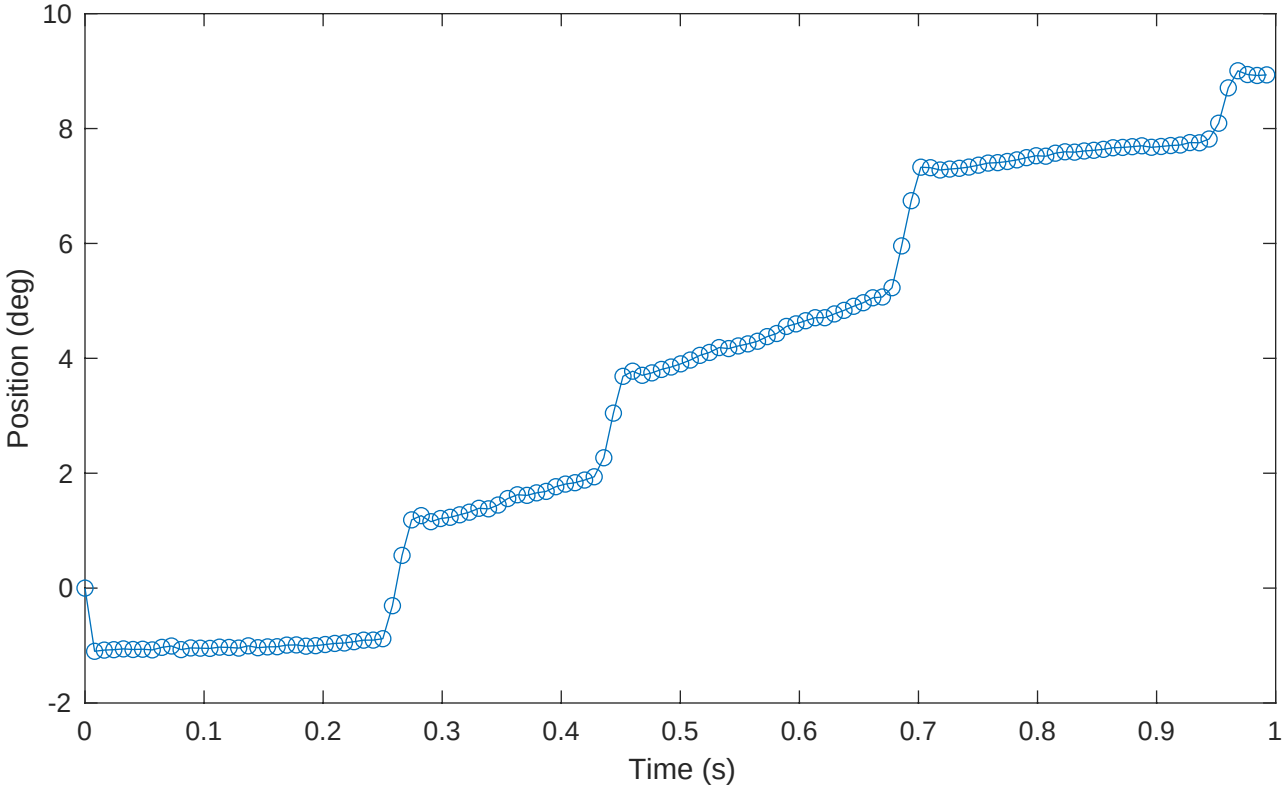

Filtered Position/Velocity: Trial 378 (External)
Position (deg)
Velocity (deg/s)
Time (s)
Externally Filtered Position
Externally Filtered Velocity

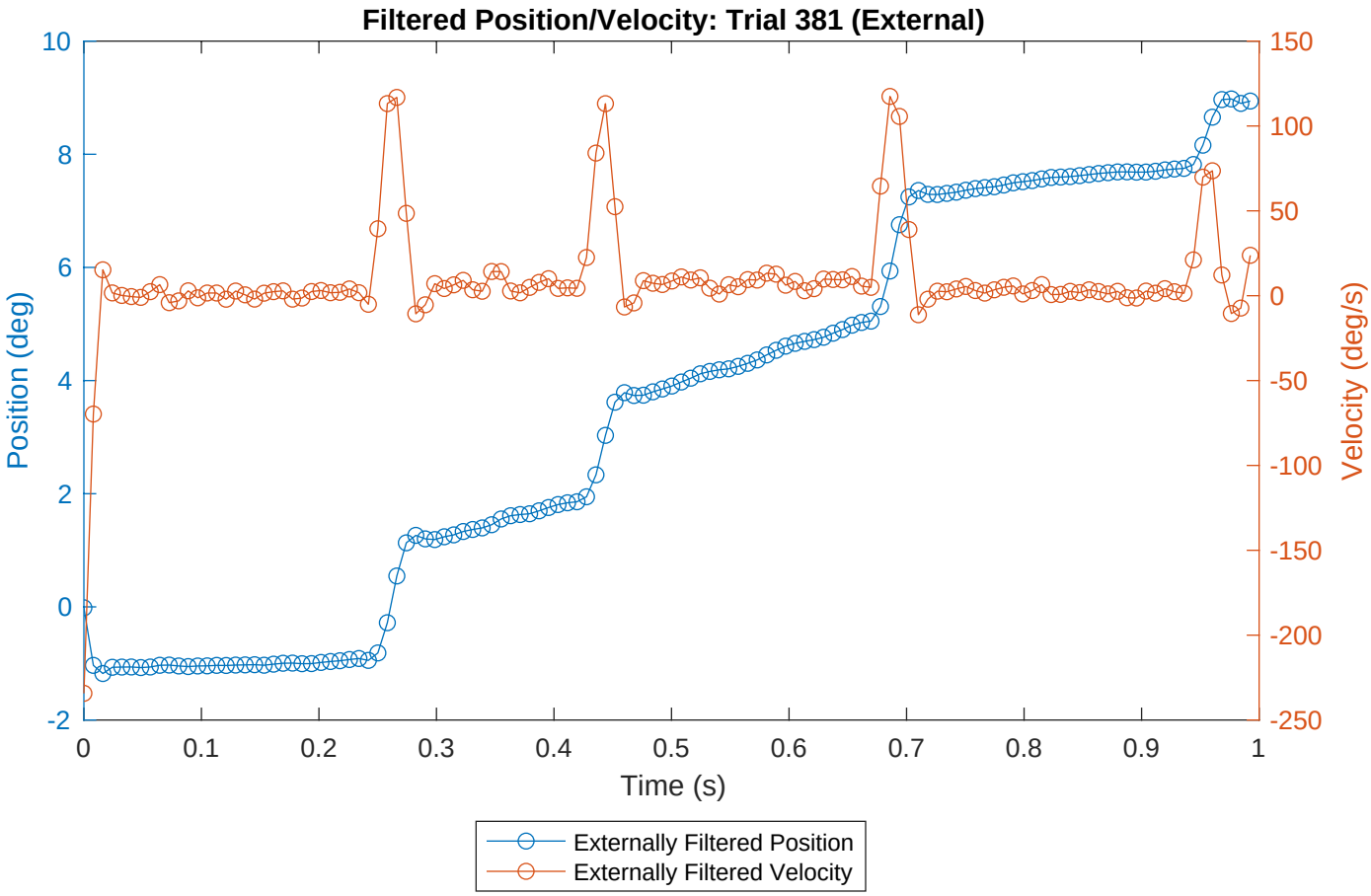

0
-2
-4
-6
-8
-10
-12
Position (deg)
0
0.1
0.2
0.3
0.4
0.5
0.6
0.7
0.8
0.9
1
Time (s)

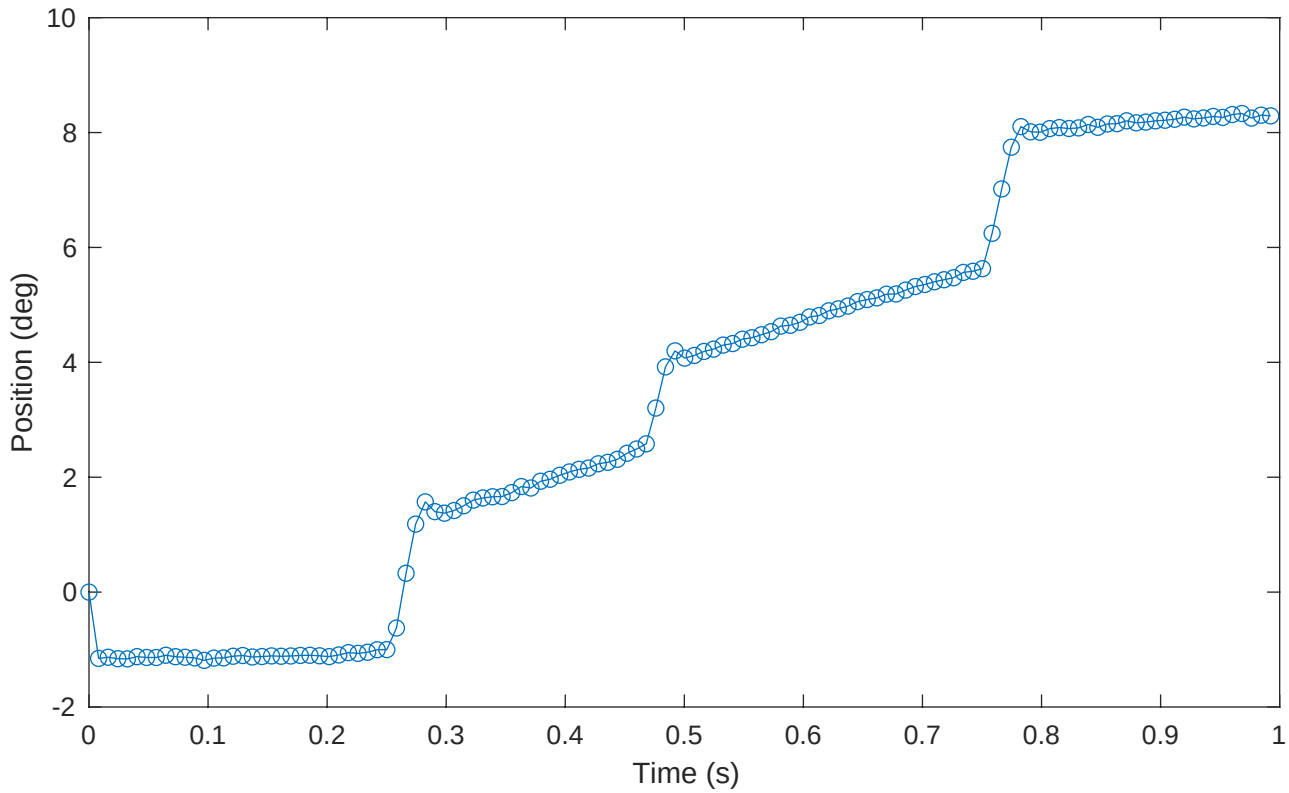

Filtered Position/Velocity: Trial 379 (External)
0
-2
-4
-6
-8
-10
-12
Position (deg)
50
0
-50
-100
-150
-200
-250
-300
Velocity (deg/s)
0
0.1
0.2
0.3
0.4
0.5
0.6
0.7
0.8
0.9
1
Time (s)
Externally Filtered Position
Externally Filtered Velocity

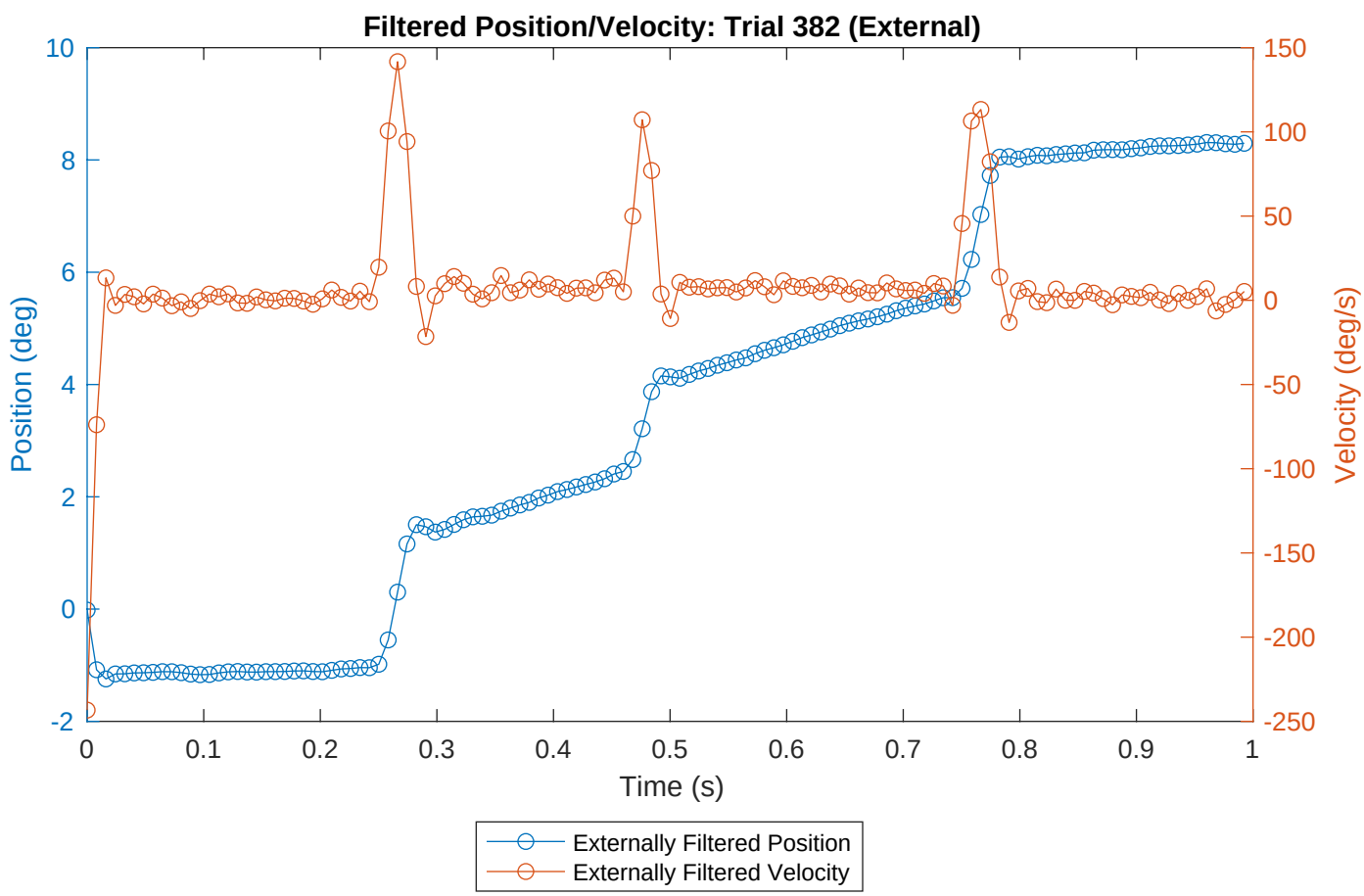

0
-2
-4
-6
-8
-10
-12
Position (deg)
0
0.1
0.2
0.3
0.4
0.5
0.6
0.7
0.8
0.9
1
Time (s)

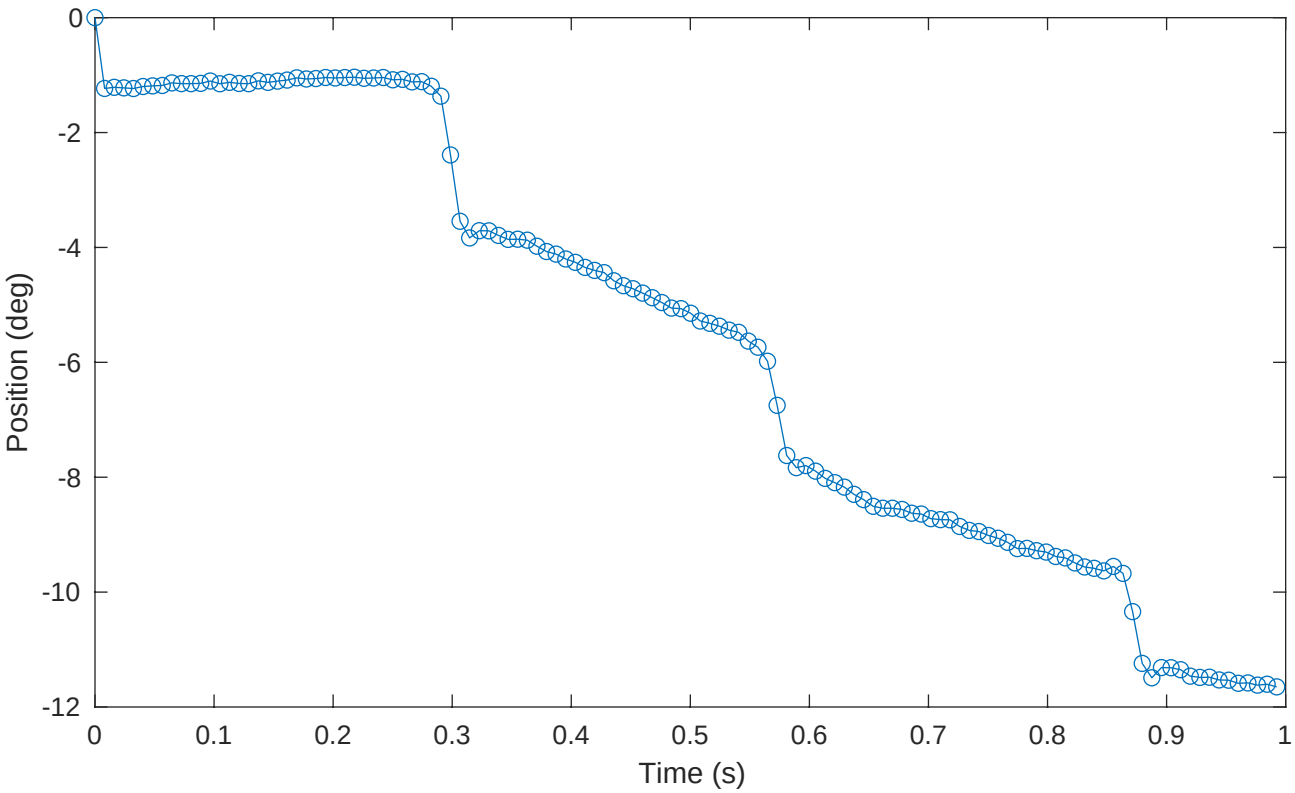

Filtered Position/Velocity: Trial 380 (External)
0
-2
-4
-6
-8
-10
-12
Position (deg)
50
0
-50
-100
-150
-200
-250
-300
Velocity (deg/s)
0
0.1
0.2
0.3
0.4
0.5
0.6
0.7
0.8
0.9
1
Time (s)
Externally Filtered Position
Externally Filtered Velocity

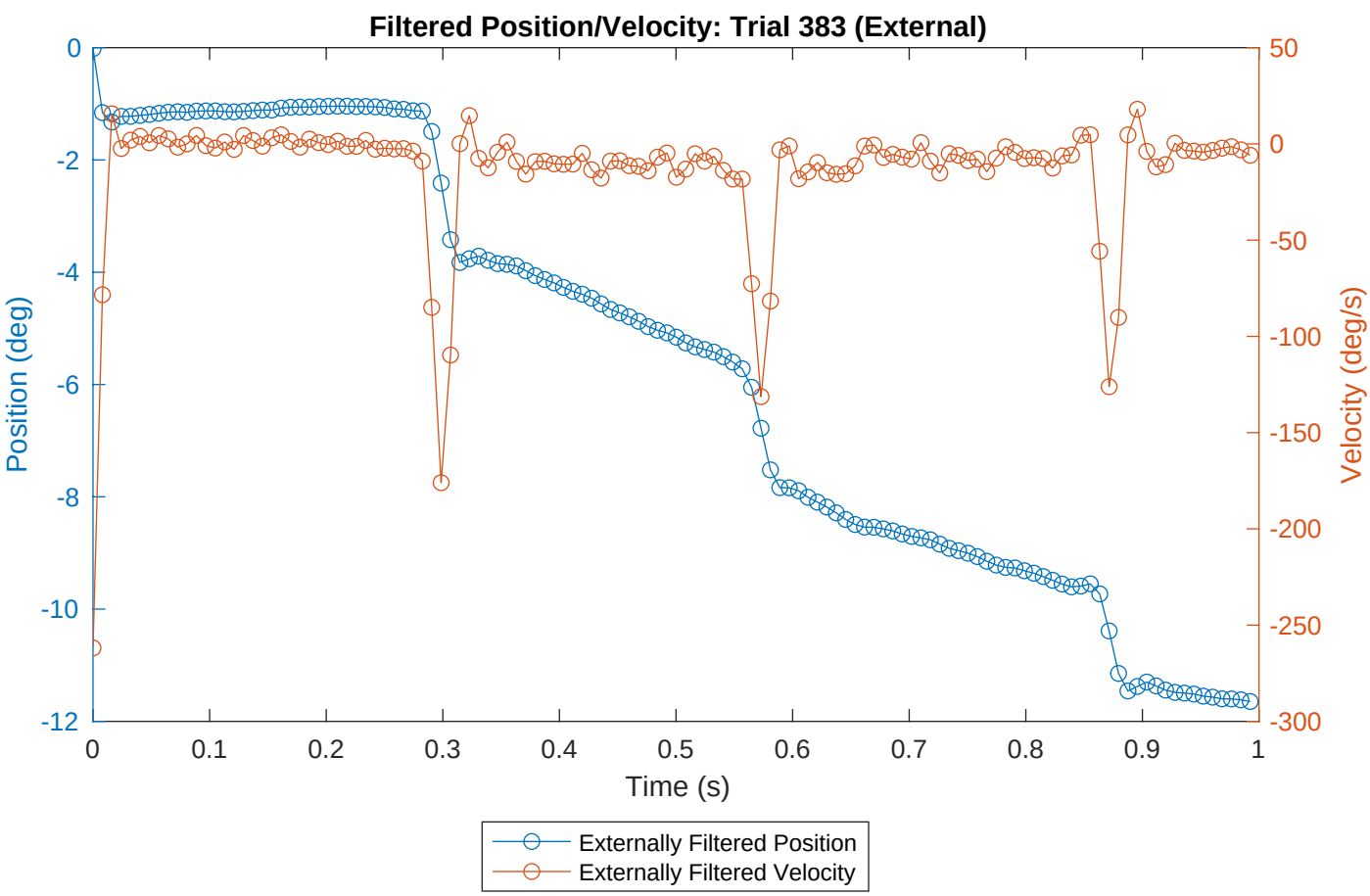

Position (deg)
Time (s)

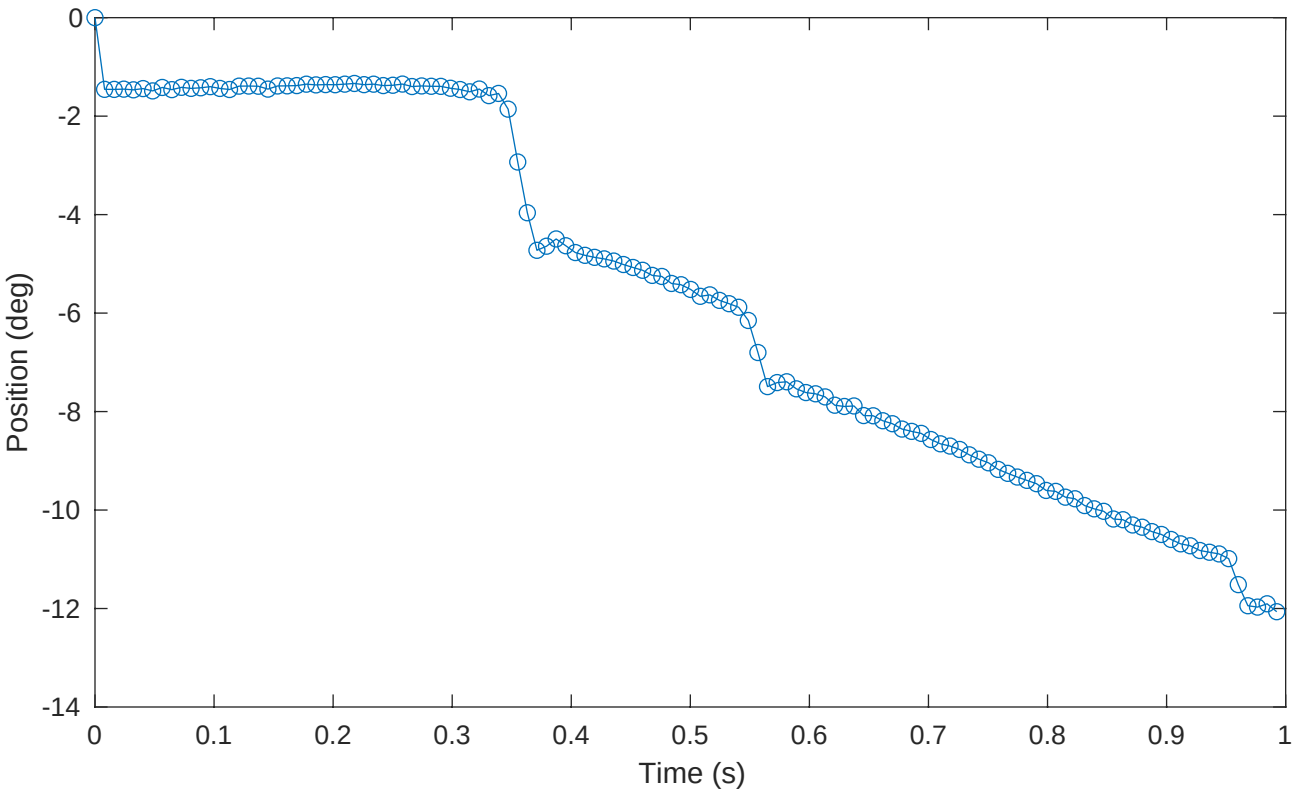

Filtered Position/Velocity: Trial 381 (External)
Position (deg)
Velocity (deg/s)
Time (s)
Externally Filtered Position
Externally Filtered Velocity

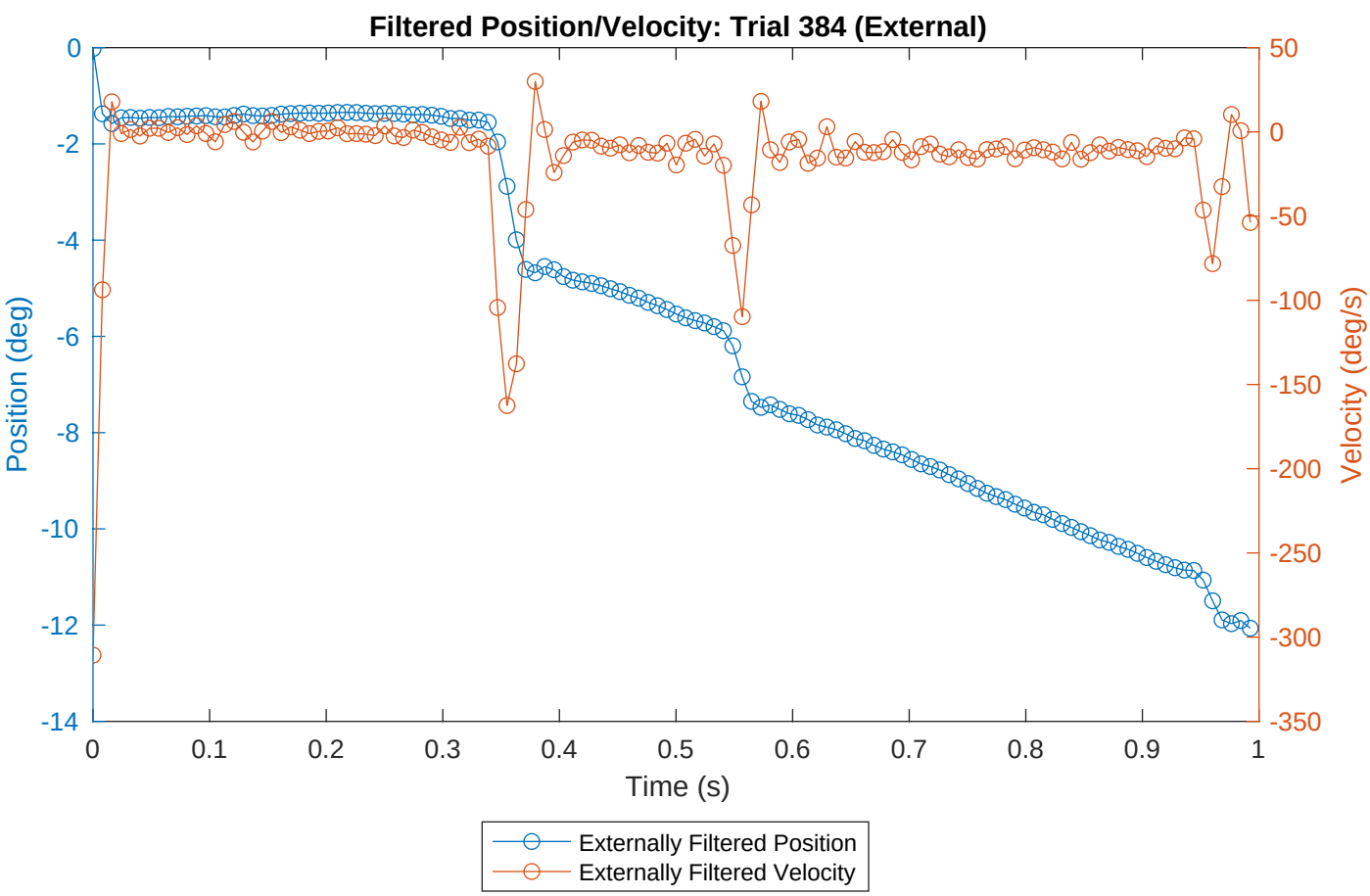

Position (deg)
Time (s)

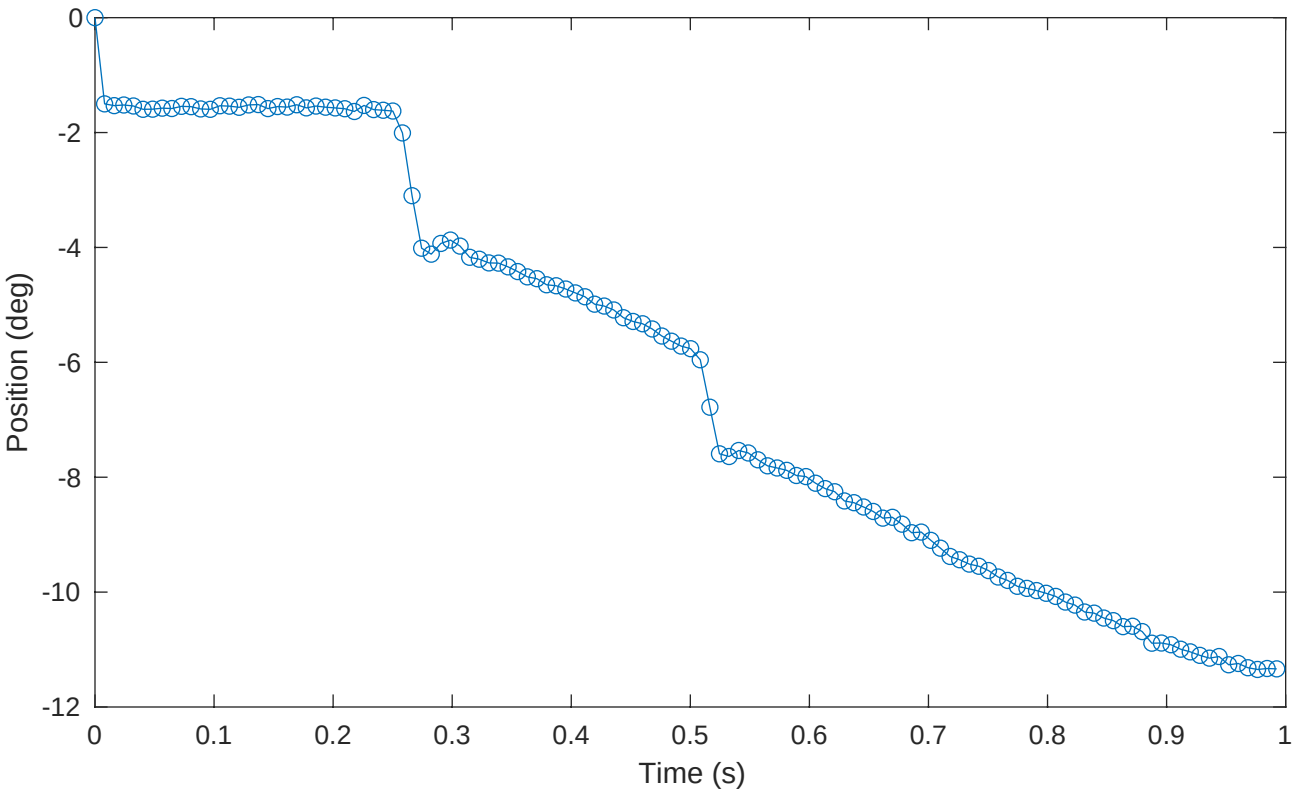

Filtered Position/Velocity: Trial 382 (External)
Position (deg)
Velocity (deg/s)
Time (s)
Externally Filtered Position
Externally Filtered Velocity

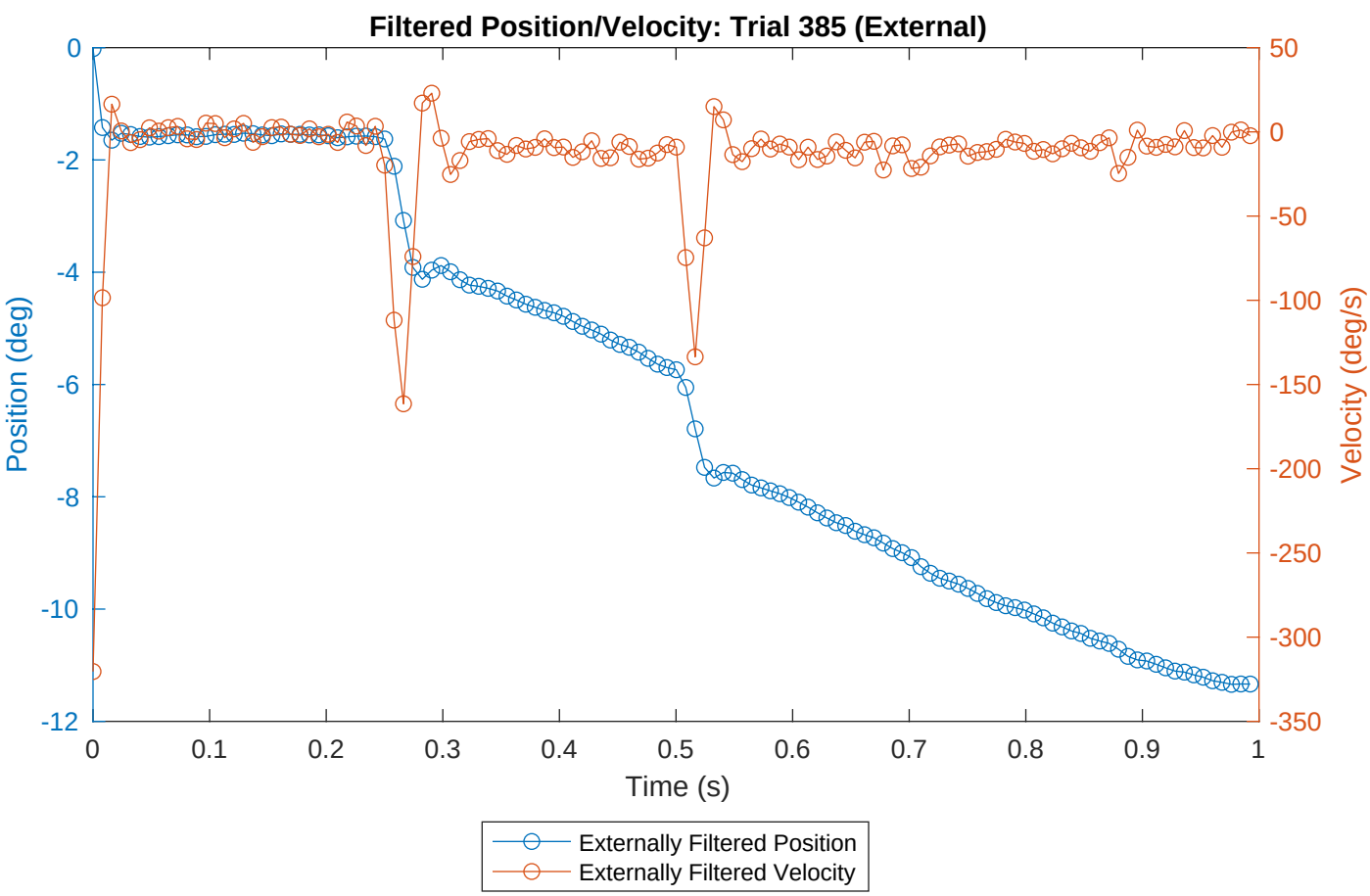

Position (deg)
Time (s)
0
-2
-4
-6
-8
-10
-12
0
0.1
0.2
0.3
0.4
0.5
0.6
0.7
0.8
0.9
1

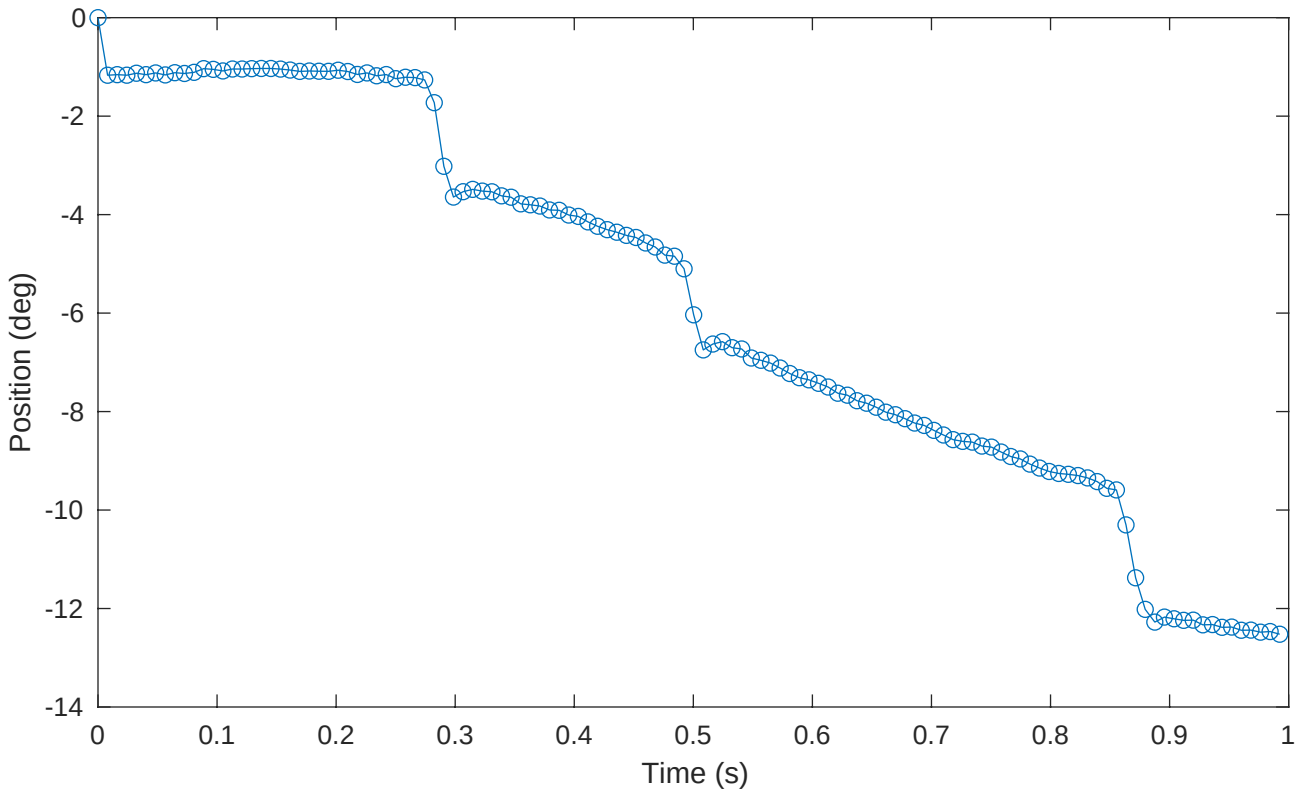

Filtered Position/Velocity: Trial 383 (External)
Position (deg)
Velocity (deg/s)
Time (s)
0
-2
-4
-6
-8
-10
-12
50
0
-50
-100
-150
-200
-250
-300
0
0.1
0.2
0.3
0.4
0.5
0.6
0.7
0.8
0.9
1
Externally Filtered Position
Externally Filtered Velocity

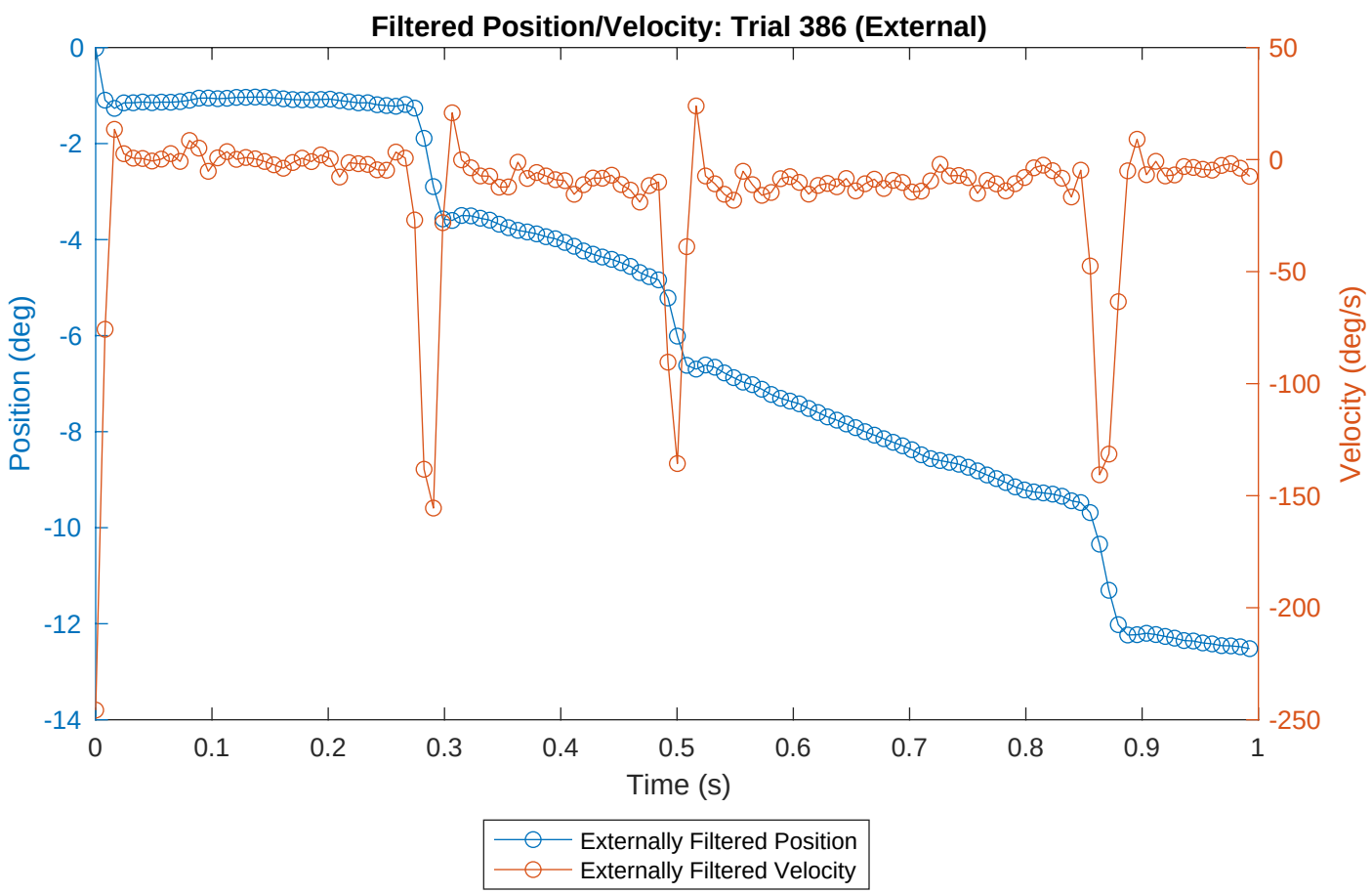

Position (deg)
Time (s)
0
-2
-4
-6
-8
-10
-12
-14
0
0.1
0.2
0.3
0.4
0.5
0.6
0.7
0.8
0.9
1

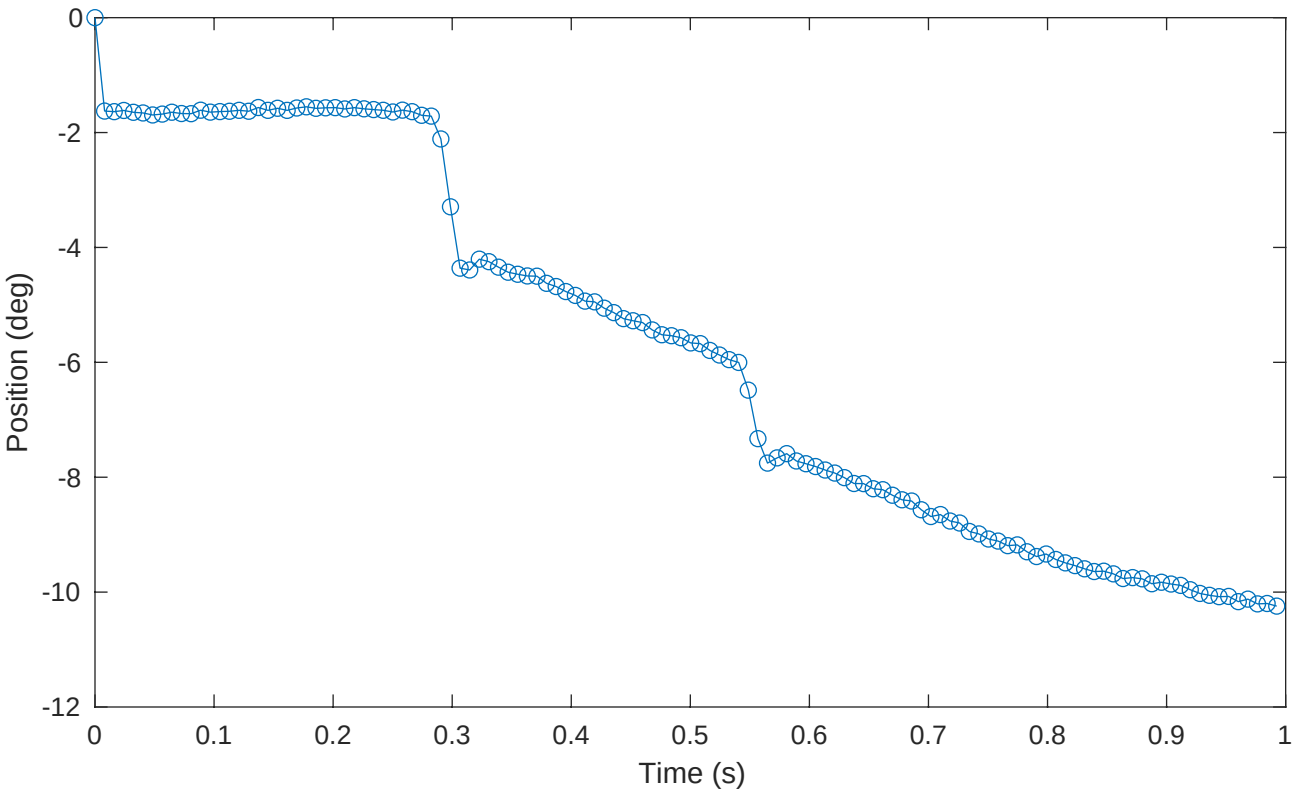

Filtered Position/Velocity: Trial 384 (External)
Position (deg)
Velocity (deg/s)
Time (s)
0
-2
-4
-6
-8
-10
-12
-14
50
0
-50
-100
-150
-200
-250
-300
-350
0
0.1
0.2
0.3
0.4
0.5
0.6
0.7
0.8
0.9
1
Externally Filtered Position
Externally Filtered Velocity

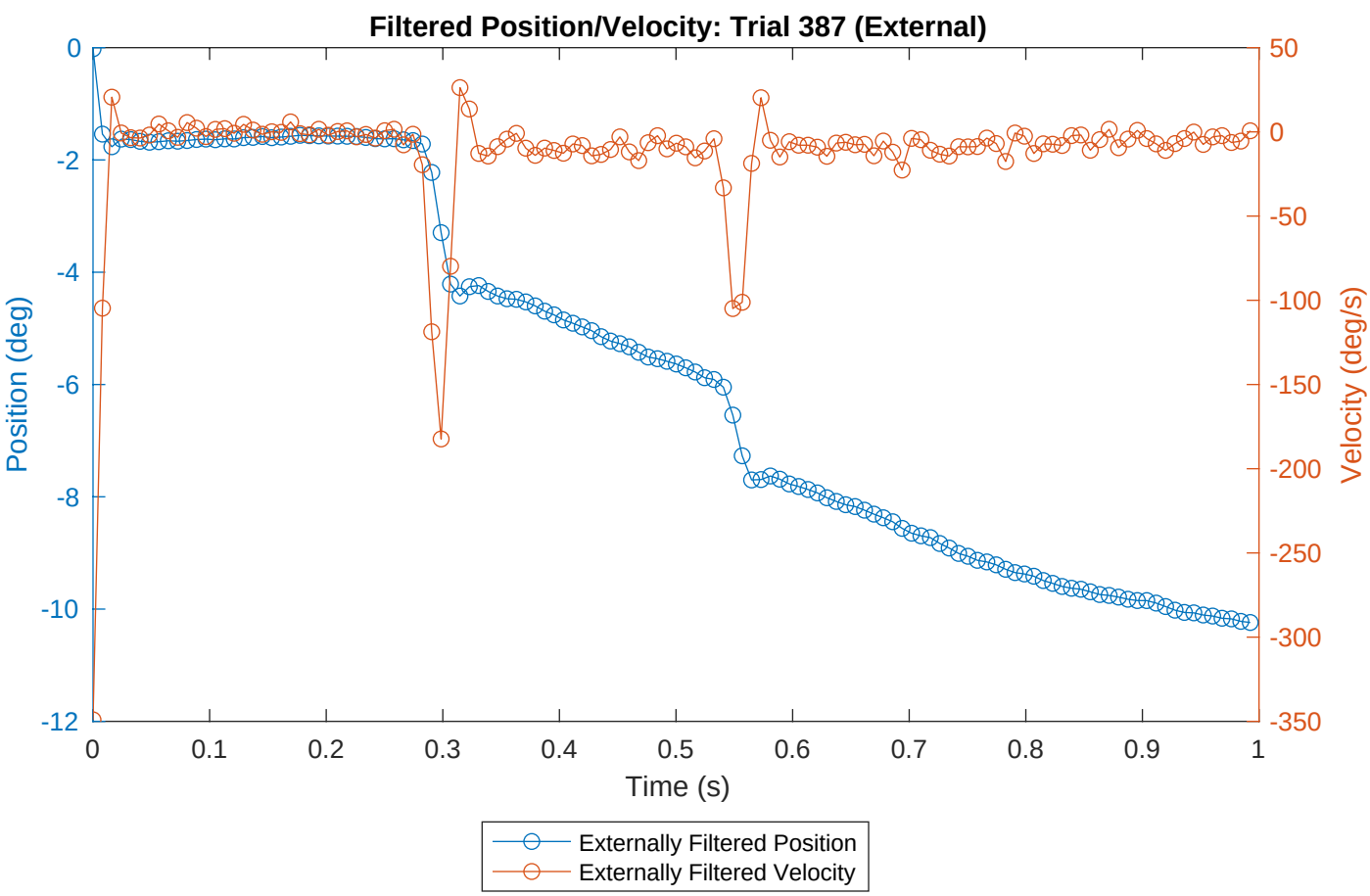

Position (deg)
Time (s)
0
-2
-4
-6
-8
-10
-12
0
0.1
0.2
0.3
0.4
0.5
0.6
0.7
0.8
0.9
1

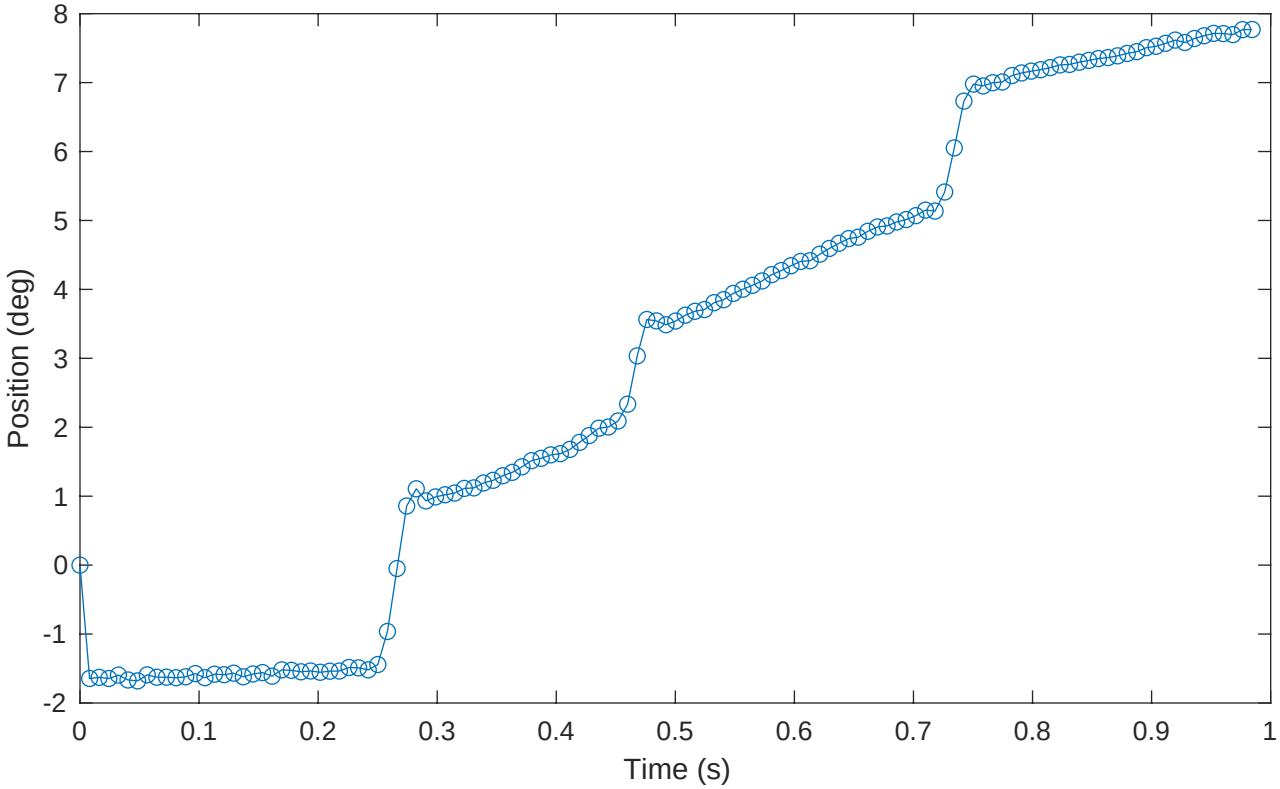

Filtered Position/Velocity: Trial 385 (External)
Position (deg)
Velocity (deg/s)
Time (s)
0
-2
-4
-6
-8
-10
-12
50
0
-50
-100
-150
-200
-250
-300
-350
0
0.1
0.2
0.3
0.4
0.5
0.6
0.7
0.8
0.9
1
Externally Filtered Position
Externally Filtered Velocity

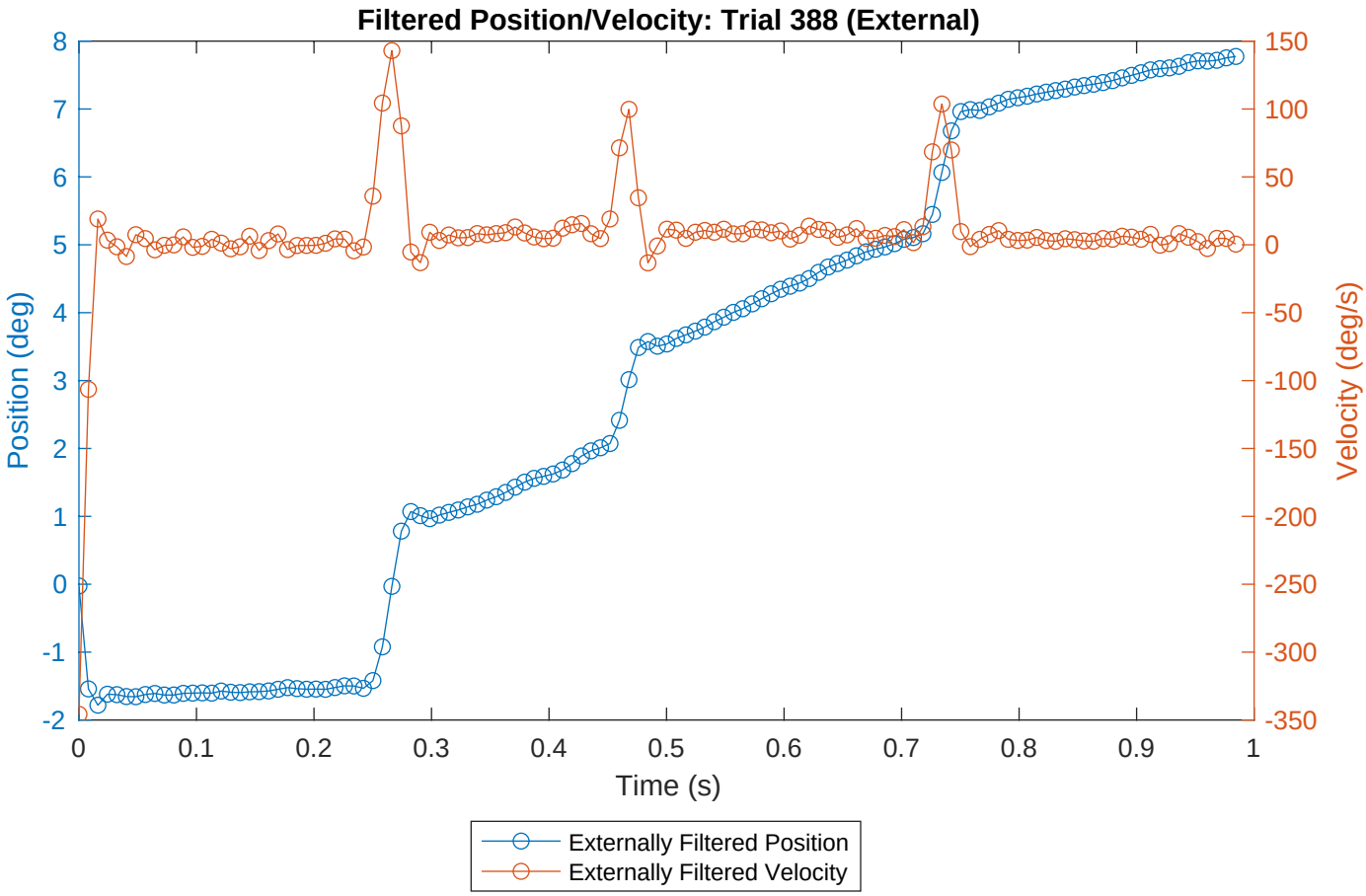

Position (deg)
Time (s)
0
-2
-4
-6
-8
-10
-12
-14
0
0.1
0.2
0.3
0.4
0.5
0.6
0.7
0.8
0.9
1

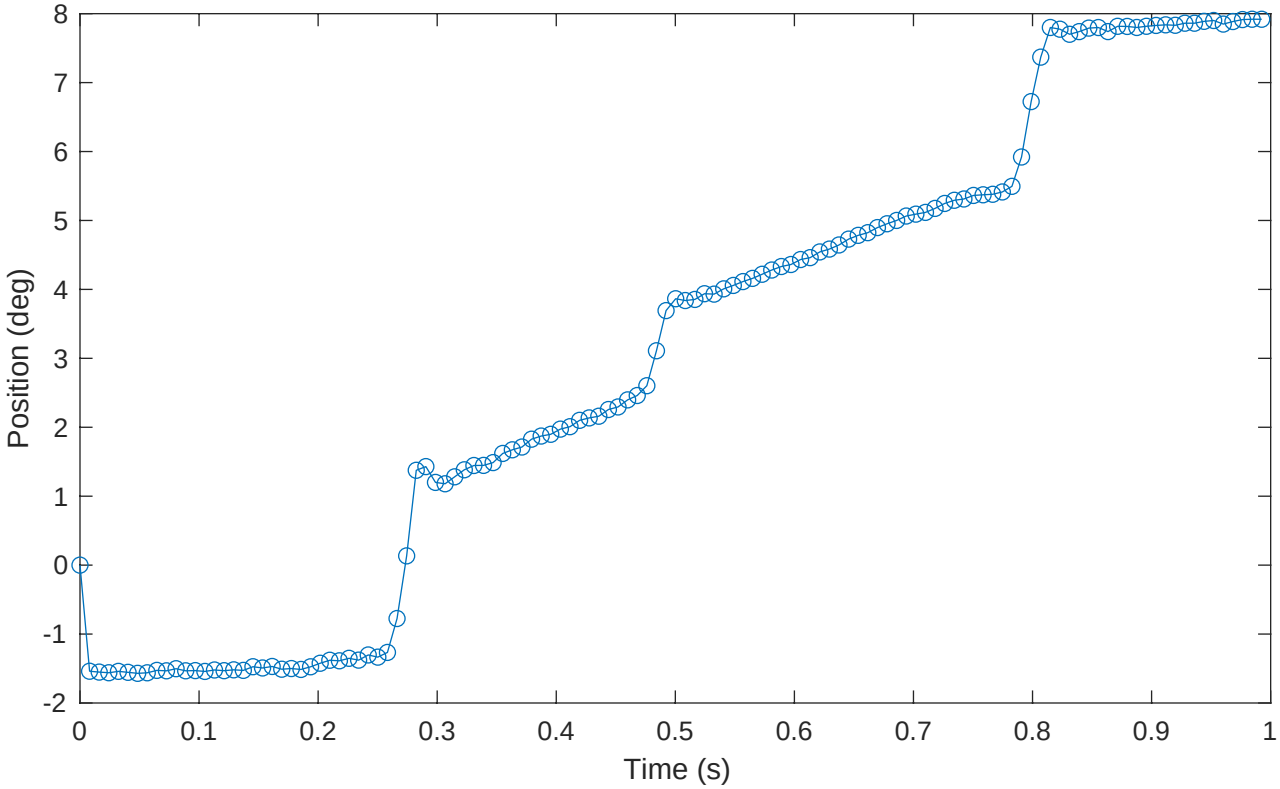

Filtered Position/Velocity: Trial 386 (External)
Position (deg)
Velocity (deg/s)
Time (s)
0
-2
-4
-6
-8
-10
-12
-14
50
0
-50
-100
-150
-200
-250
0
0.1
0.2
0.3
0.4
0.5
0.6
0.7
0.8
0.9
1
Externally Filtered Position
Externally Filtered Velocity

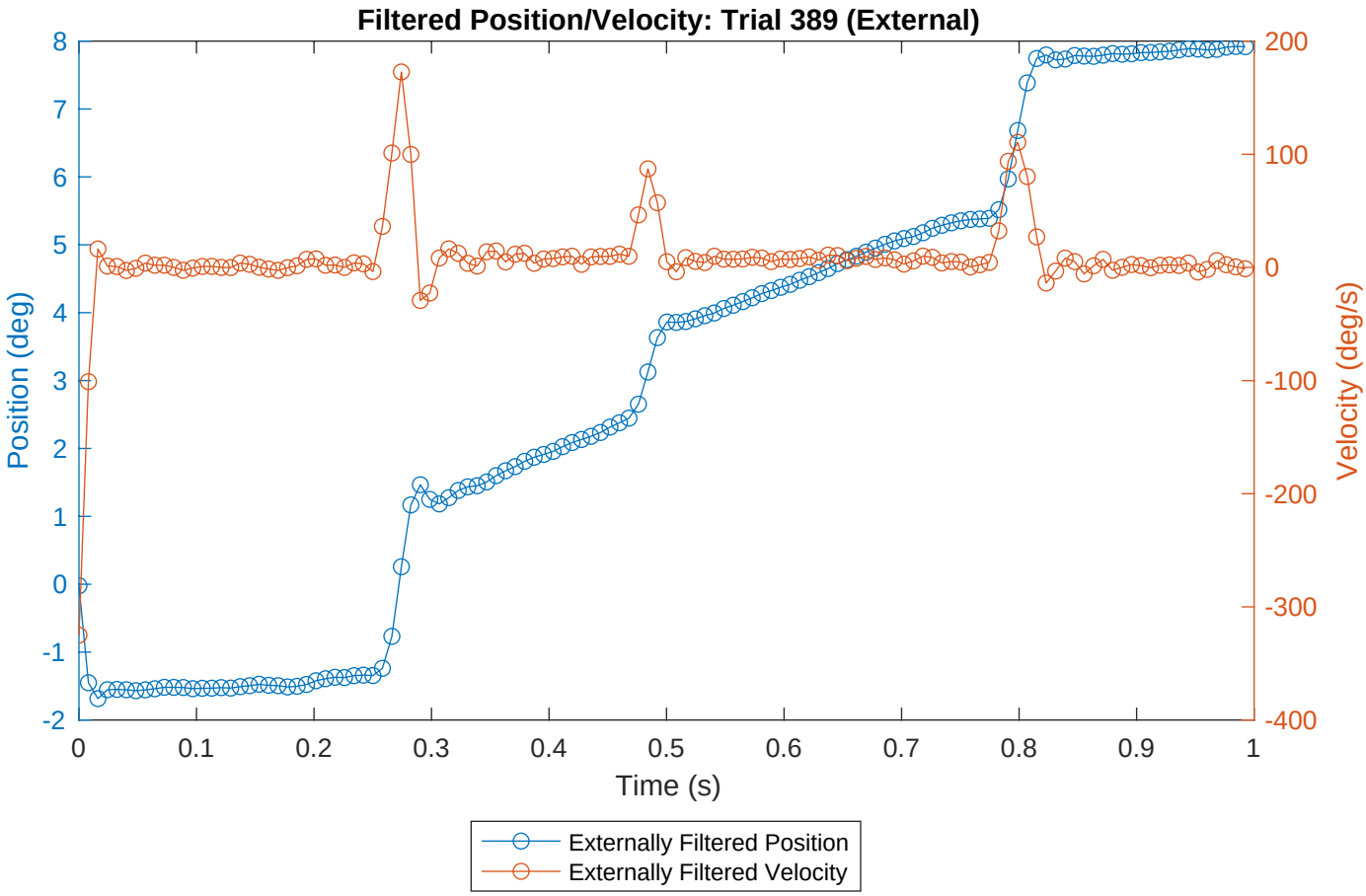

Position (deg)
Time (s)
0
-2
-4
-6
-8
-10
-12
0
0.1
0.2
0.3
0.4
0.5
0.6
0.7
0.8
0.9
1

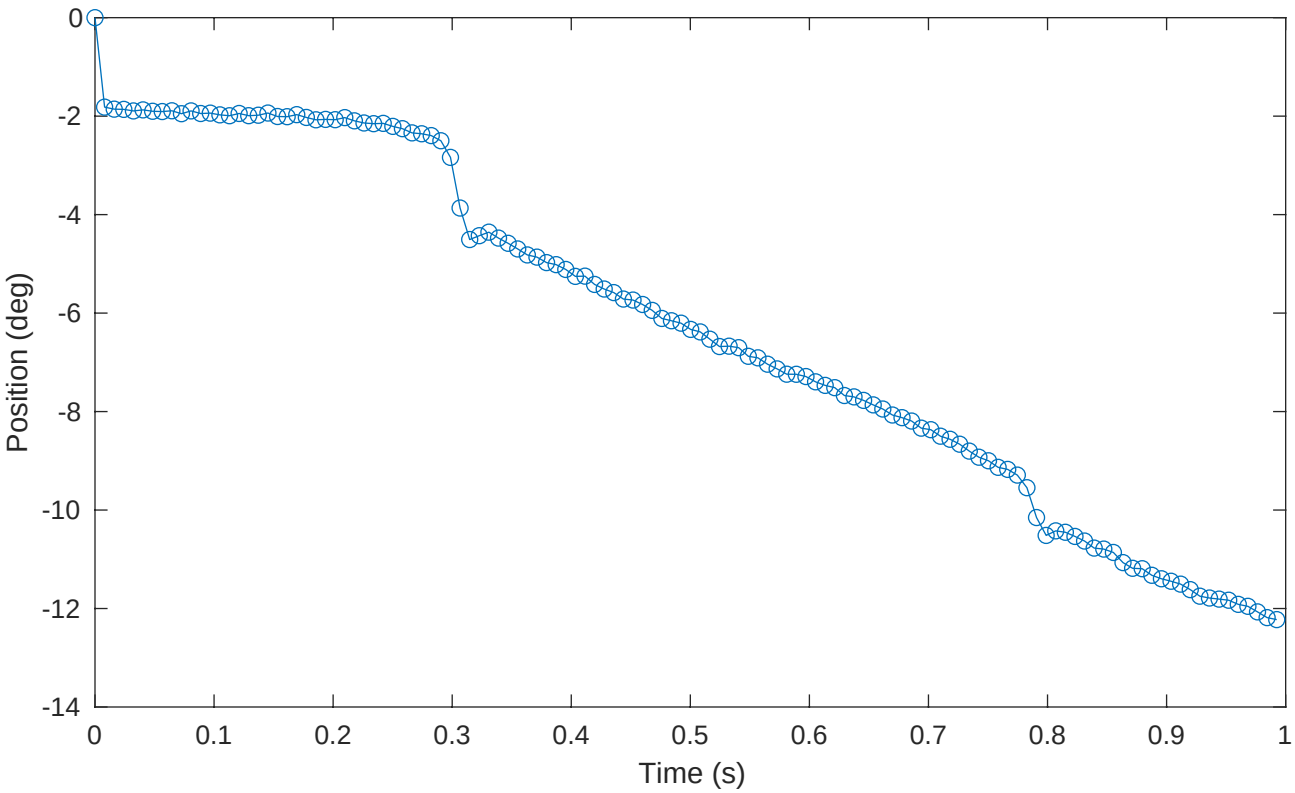

Filtered Position/Velocity: Trial 387 (External)
Position (deg)
Velocity (deg/s)
Time (s)
0
-2
-4
-6
-8
-10
-12
50
0
-50
-100
-150
-200
-250
-300
-350
0
0.1
0.2
0.3
0.4
0.5
0.6
0.7
0.8
0.9
1
Externally Filtered Position
Externally Filtered Velocity

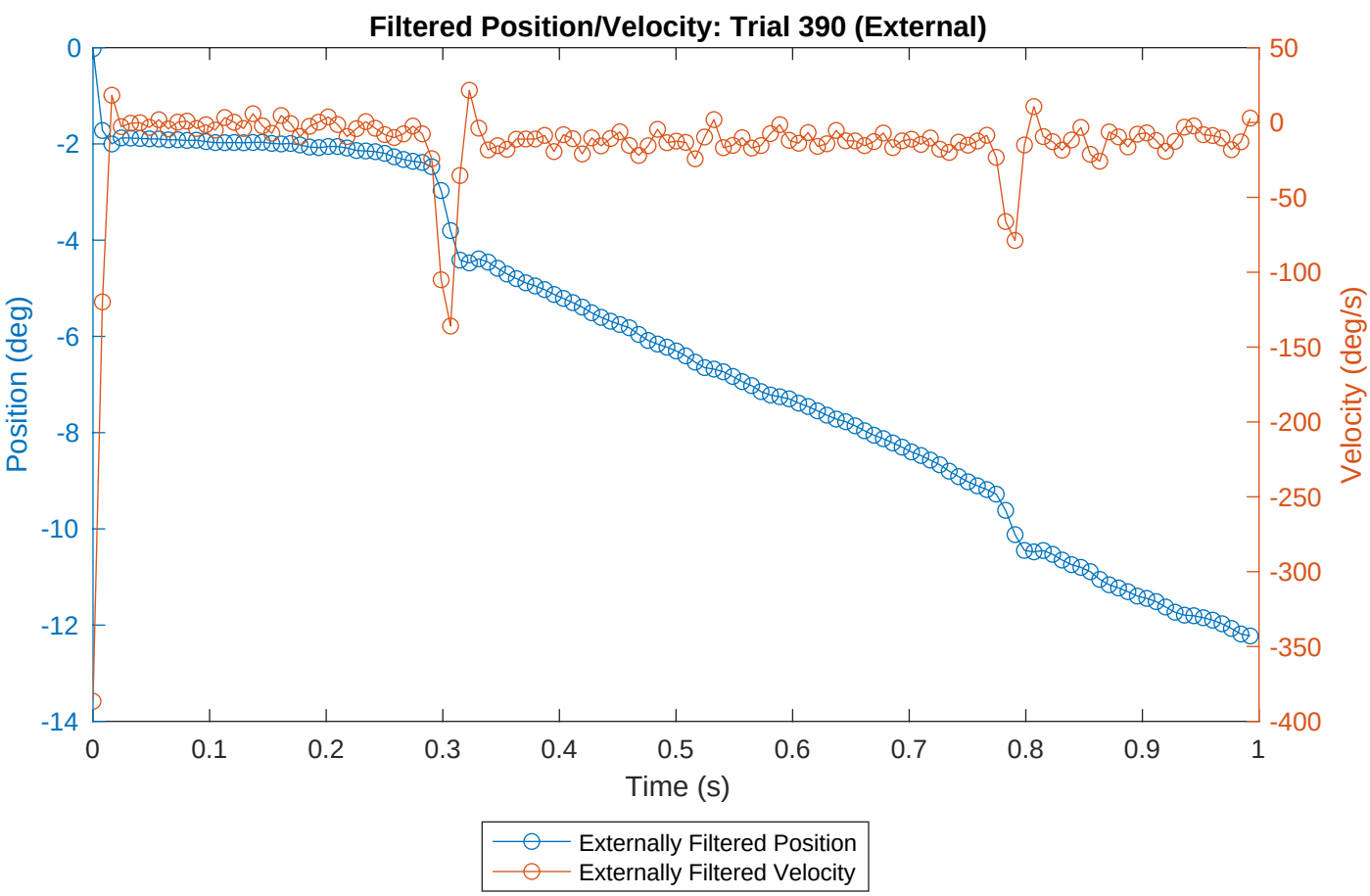

Position (deg)
Time (s)

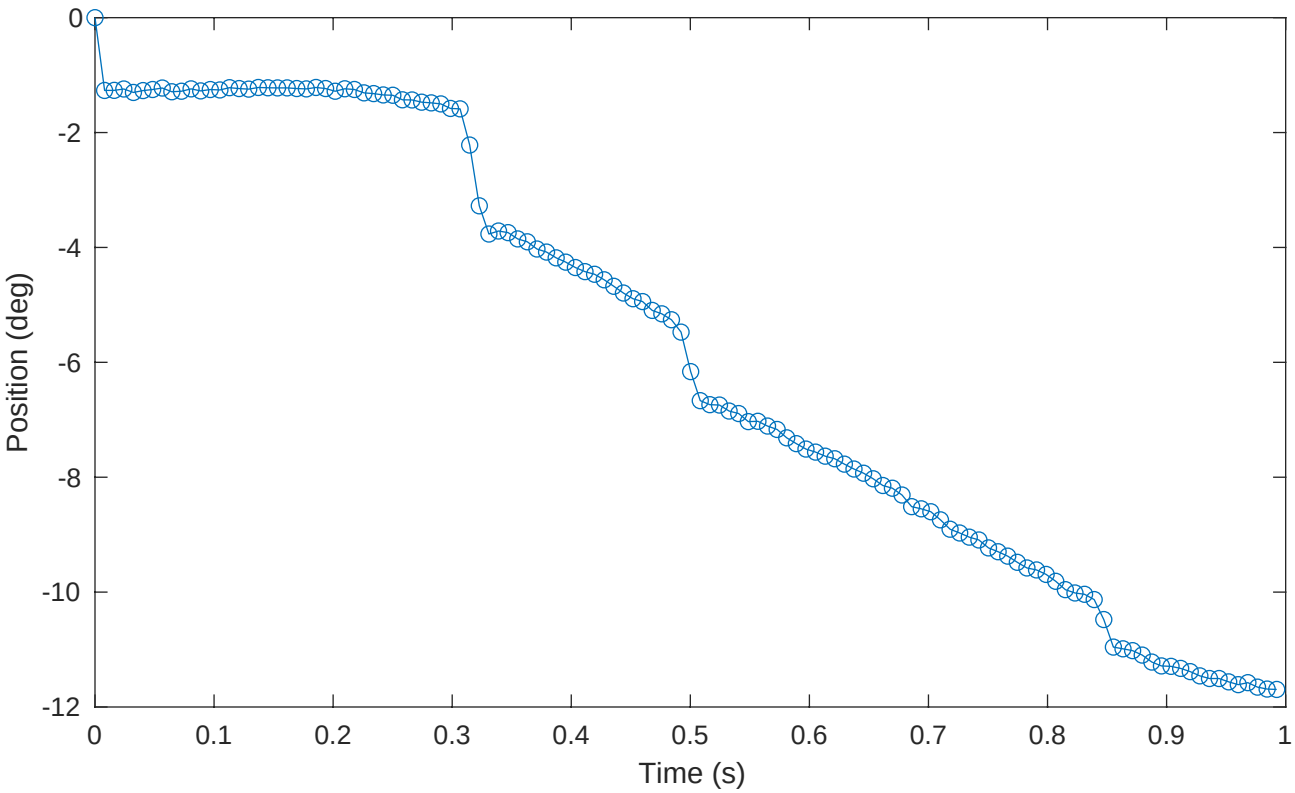

Filtered Position/Velocity: Trial 388 (External)
Position (deg)
Velocity (deg/s)
Time (s)
Externally Filtered Position
Externally Filtered Velocity

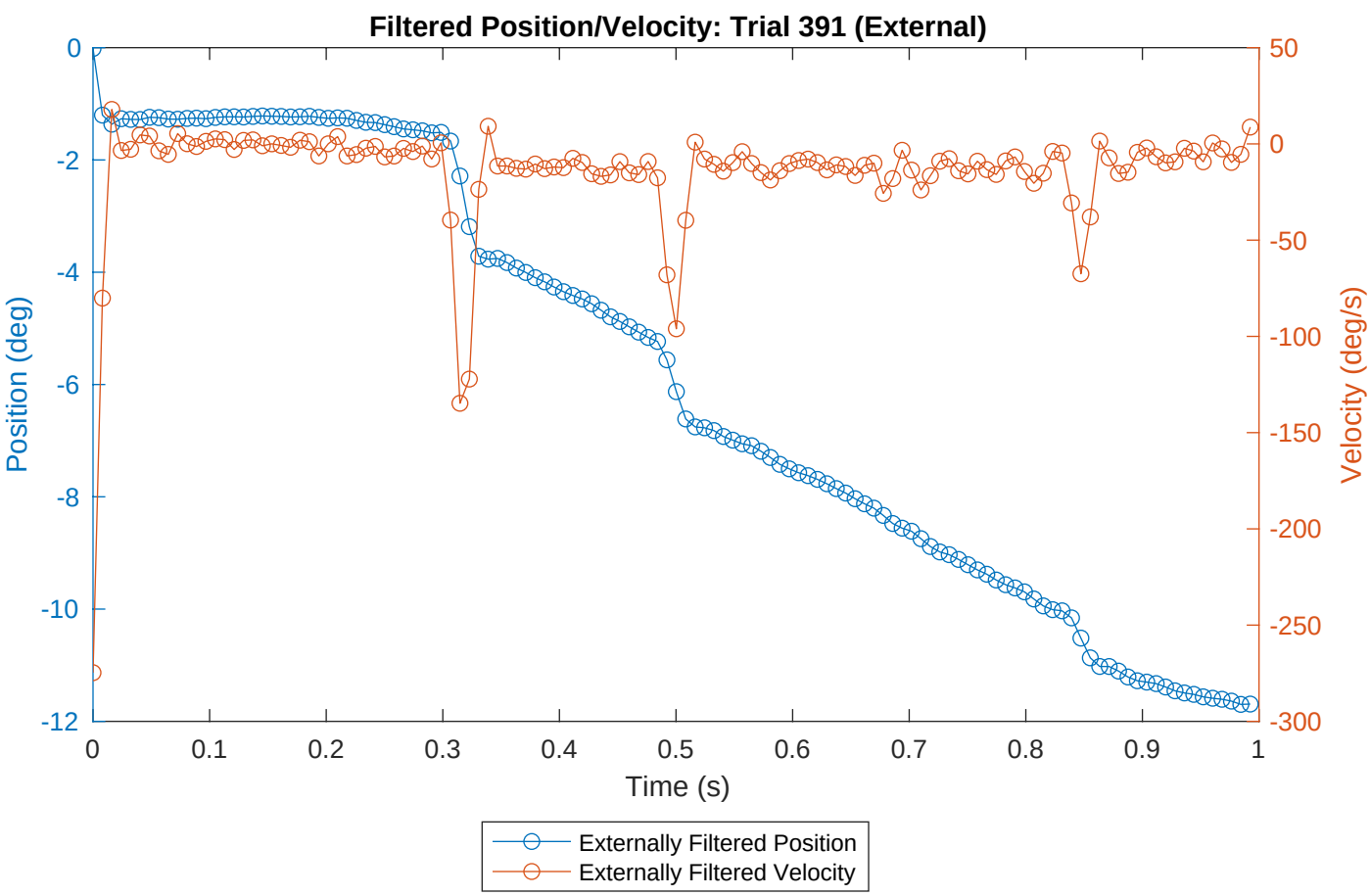

Position (deg)
Time (s)

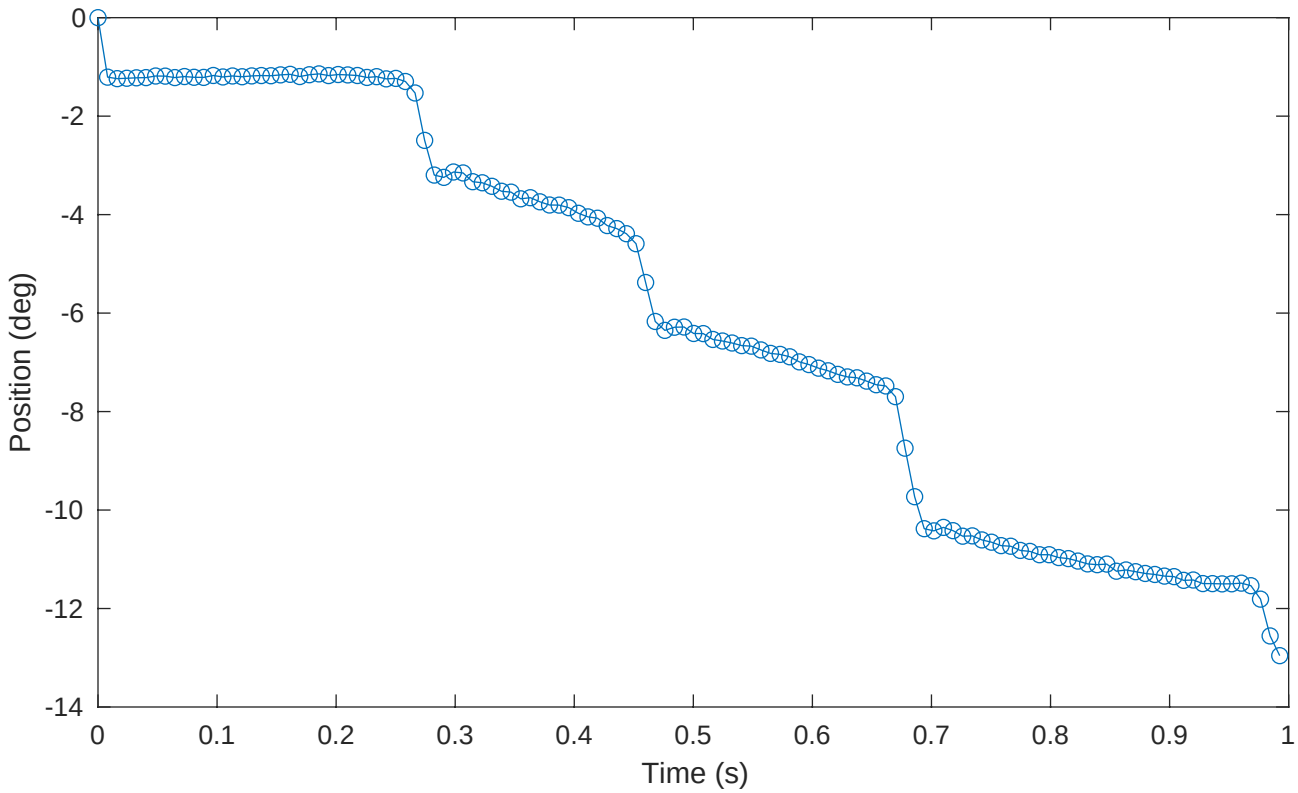

Filtered Position/Velocity: Trial 389 (External)
Position (deg)
Velocity (deg/s)
Time (s)
Externally Filtered Position
Externally Filtered Velocity

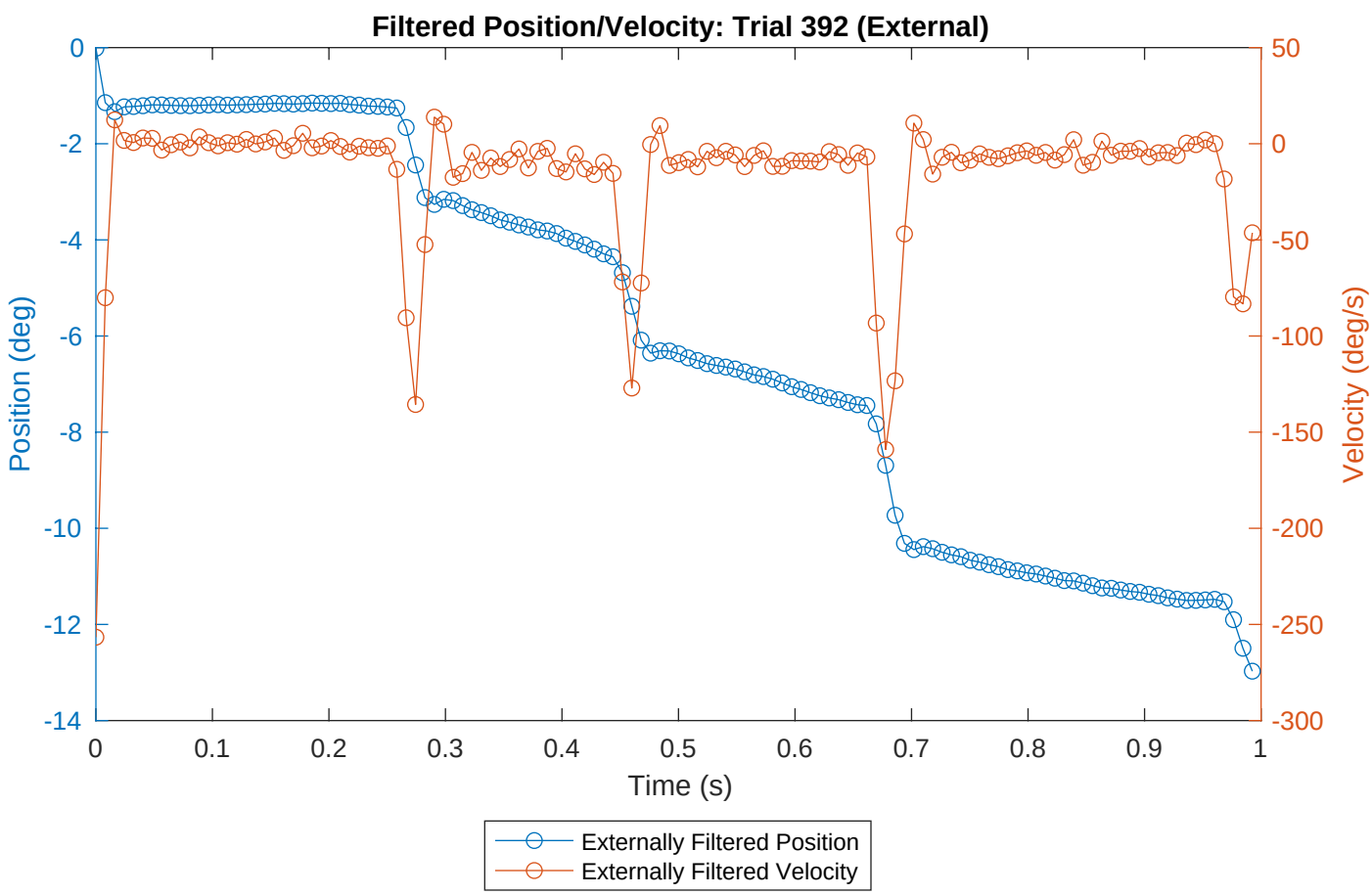

Position (deg)
Time (s)
0
-2
-4
-6
-8
-10
-12
-14
0
0.1
0.2
0.3
0.4
0.5
0.6
0.7
0.8
0.9
1

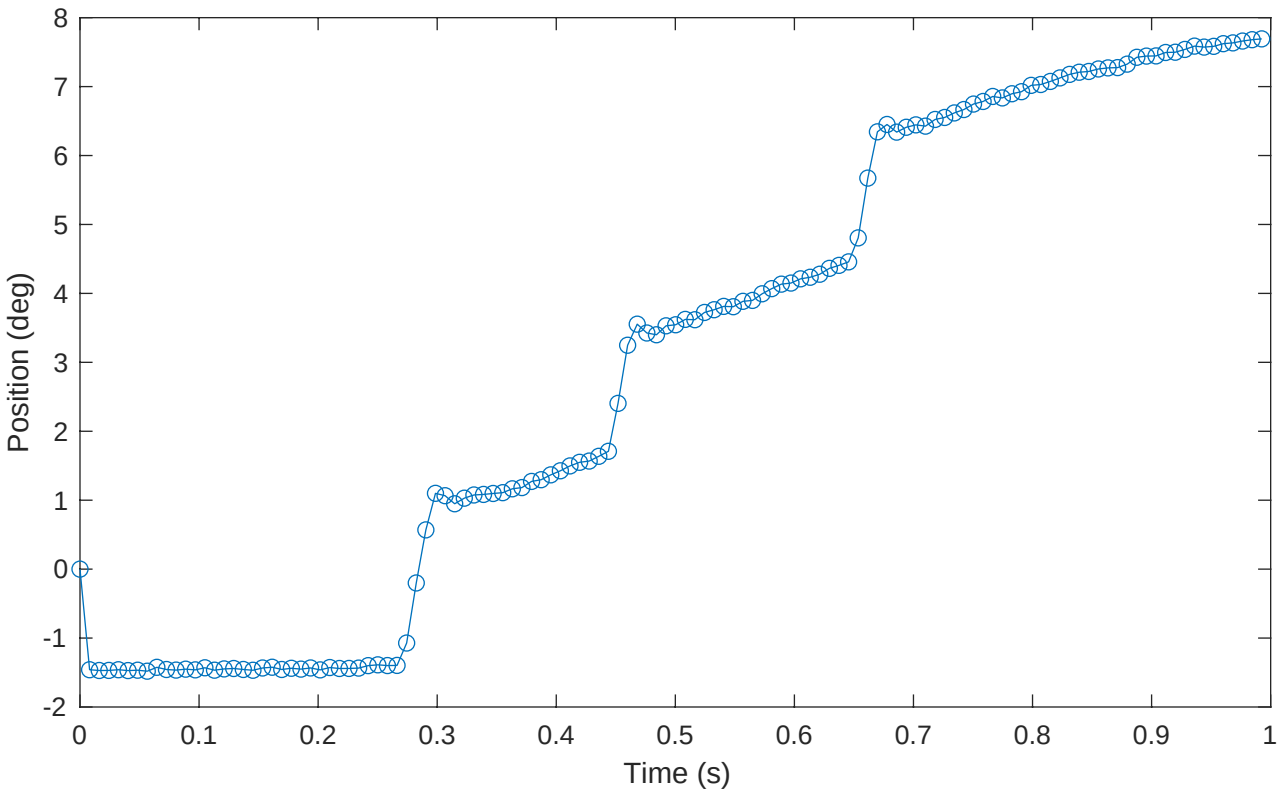

Filtered Position/Velocity: Trial 390 (External)
Position (deg)
Velocity (deg/s)
Time (s)
0
-2
-4
-6
-8
-10
-12
-14
50
0
-50
-100
-150
-200
-250
-300
-350
-400
0
0.1
0.2
0.3
0.4
0.5
0.6
0.7
0.8
0.9
1
Externally Filtered Position
Externally Filtered Velocity

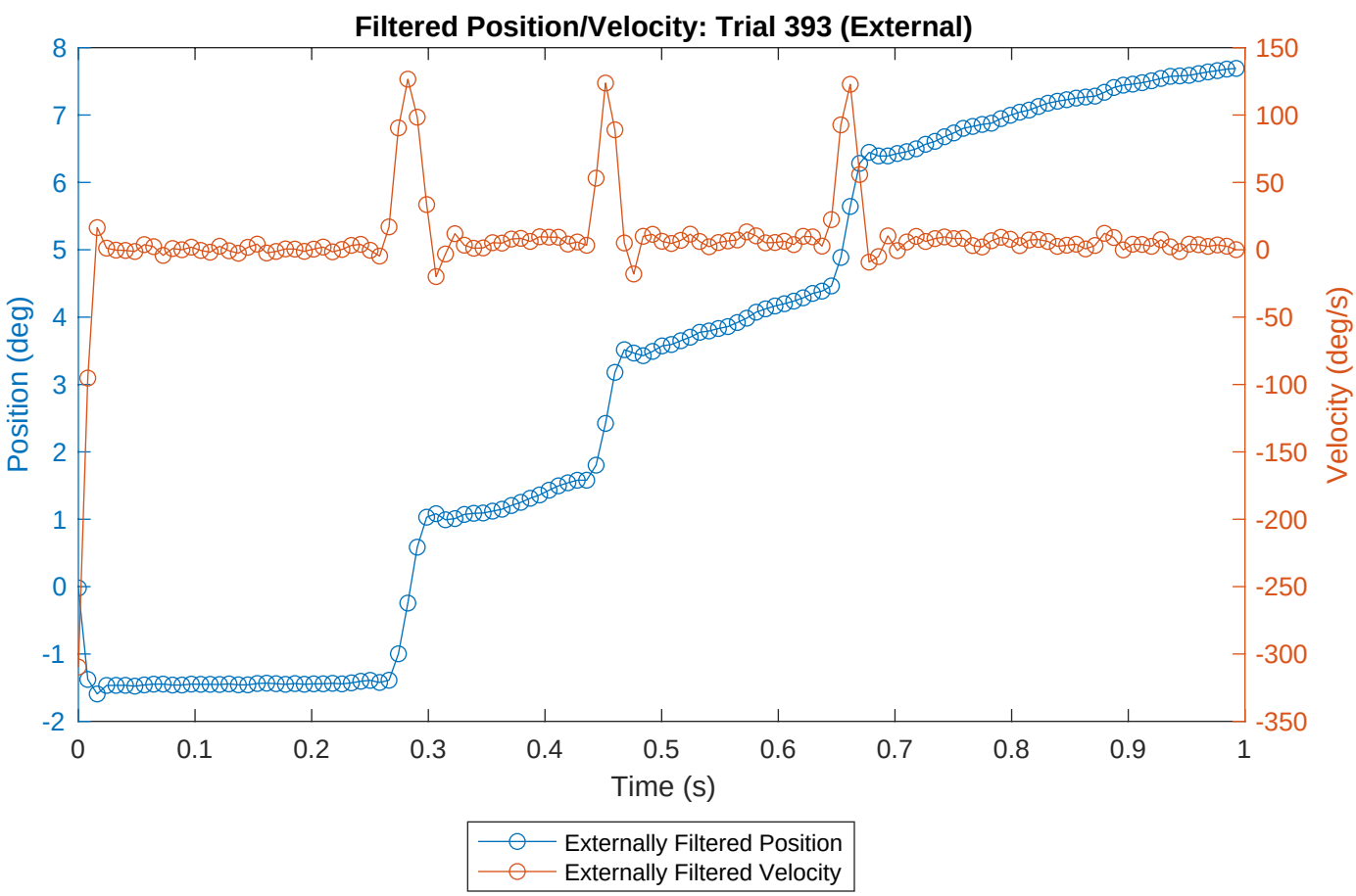

0
-2
-4
-6
-8
-10
-12
Position (deg)
0
0.1
0.2
0.3
0.4
0.5
0.6
0.7
0.8
0.9
1
Time (s)

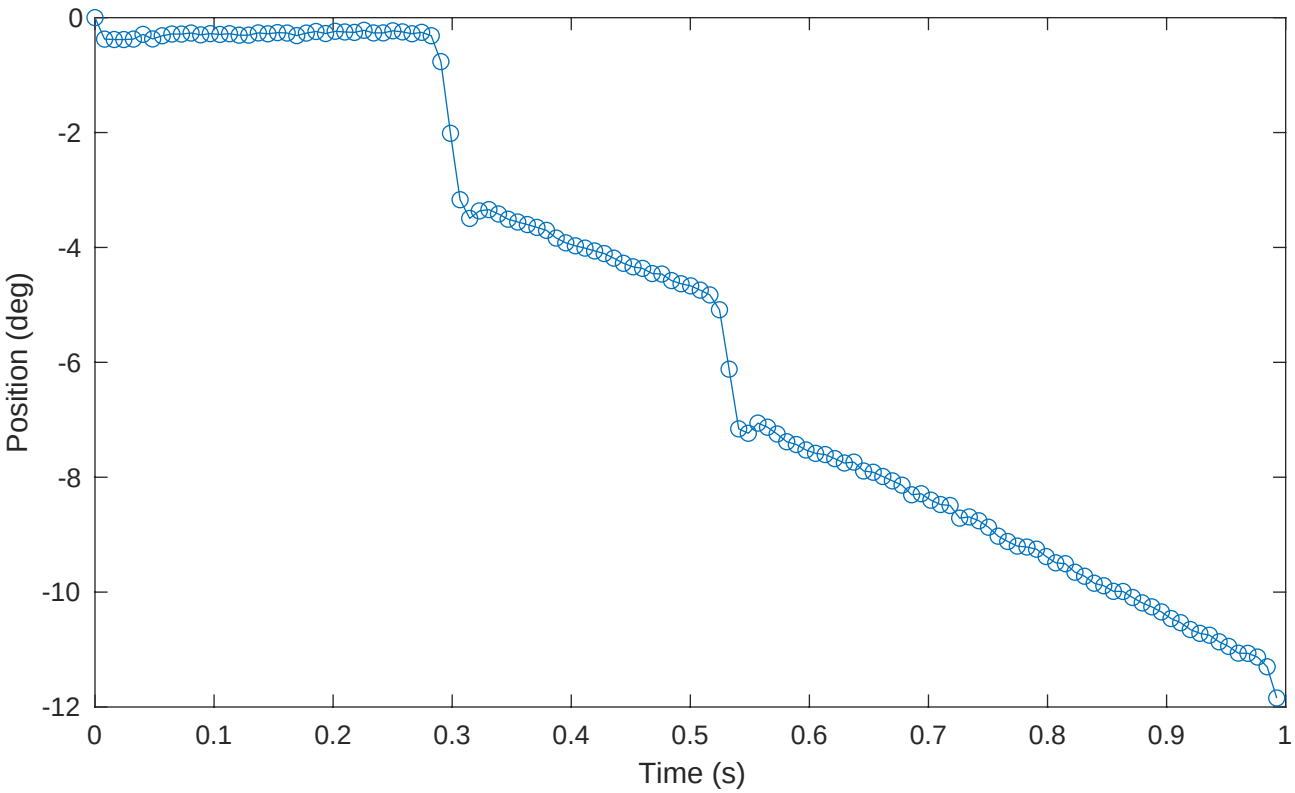

Filtered Position/Velocity: Trial 391 (External)
0
-2
-4
-6
-8
-10
-12
Position (deg)
50
0
-50
-100
-150
-200
-250
-300
Velocity (deg/s)
0
0.1
0.2
0.3
0.4
0.5
0.6
0.7
0.8
0.9
1
Time (s)
Externally Filtered Position
Externally Filtered Velocity

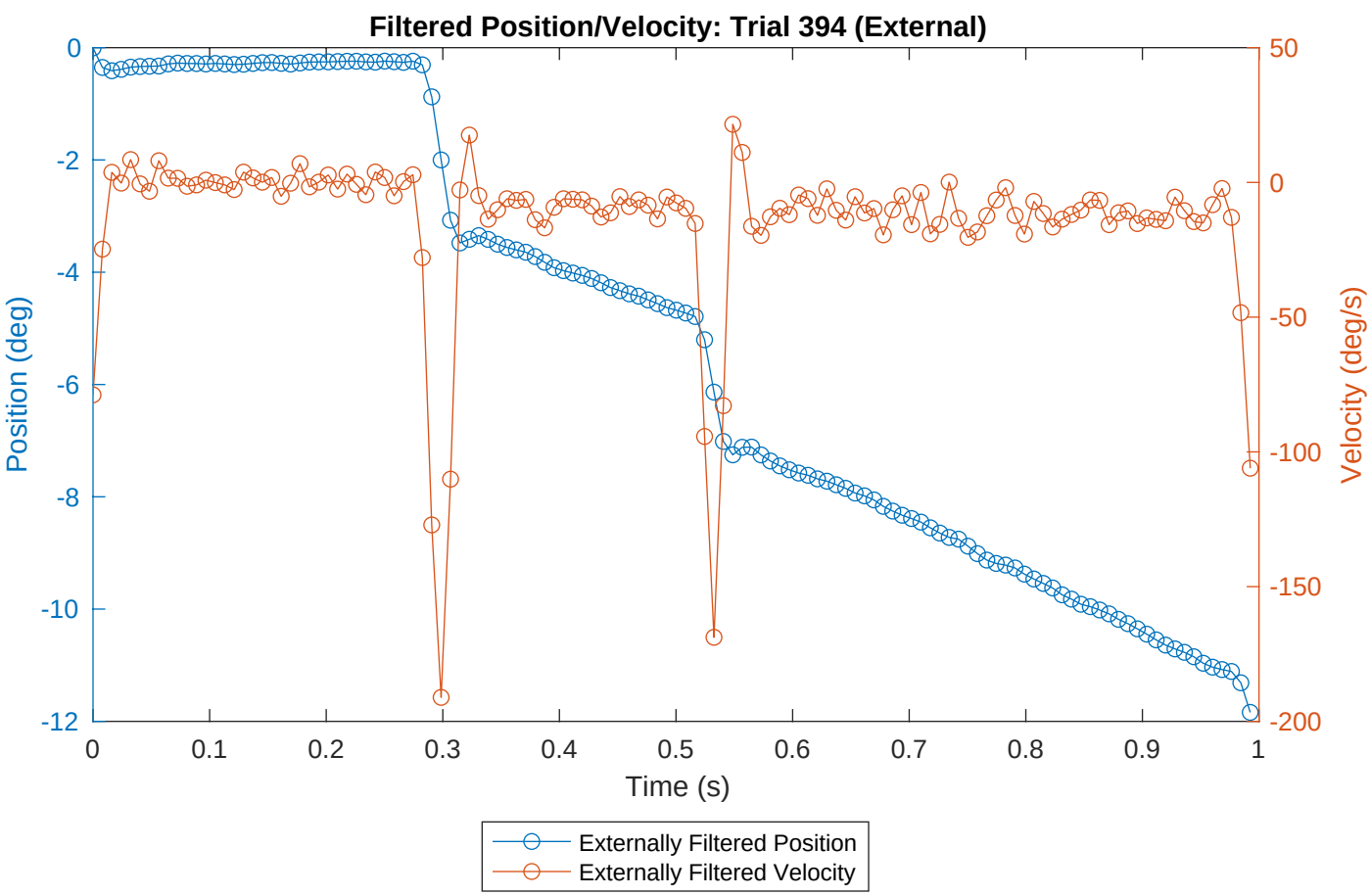

0
-2
-4
-6
-8
-10
-12
-14
Position (deg)
0
0.1
0.2
0.3
0.4
0.5
0.6
0.7
0.8
0.9
1
Time (s)

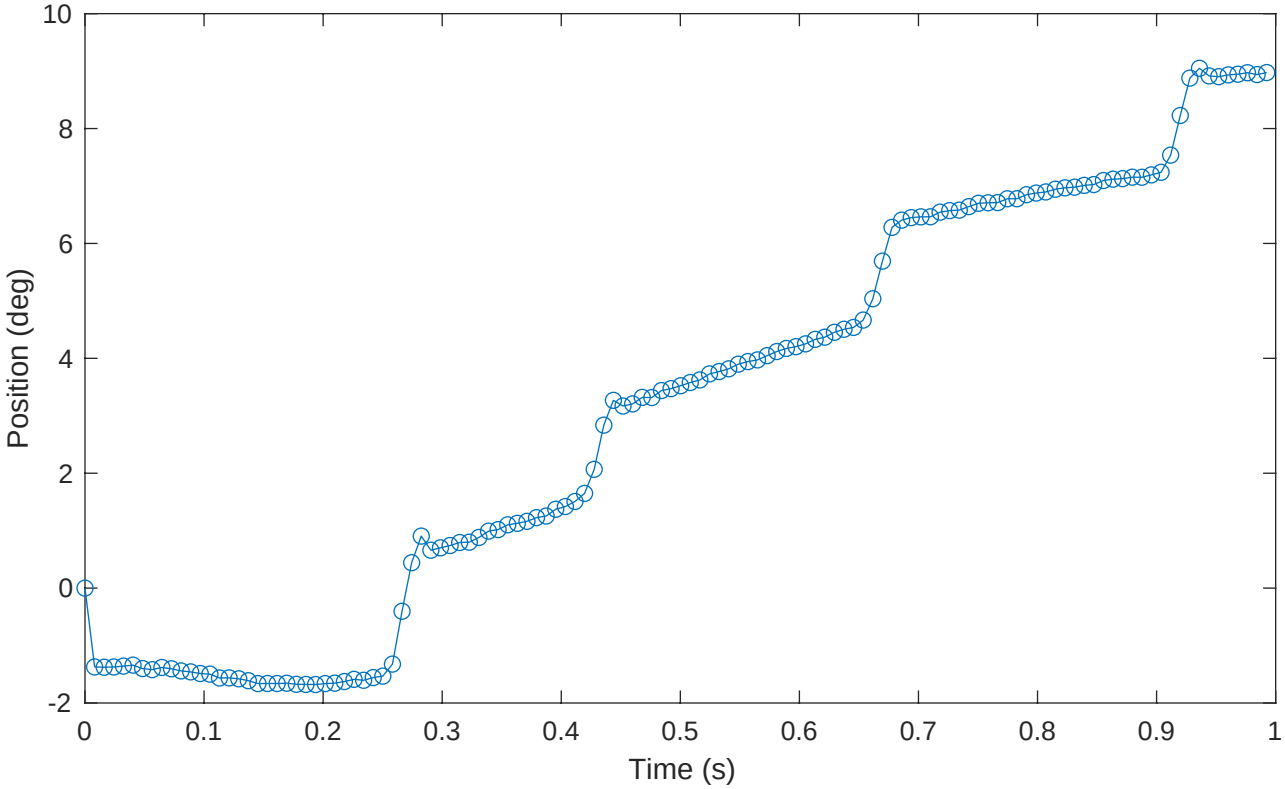

Filtered Position/Velocity: Trial 392 (External)
0
-2
-4
-6
-8
-10
-12
-14
Position (deg)
50
0
-50
-100
-150
-200
-250
-300
Velocity (deg/s)
0
0.1
0.2
0.3
0.4
0.5
0.6
0.7
0.8
0.9
1
Time (s)
Externally Filtered Position
Externally Filtered Velocity

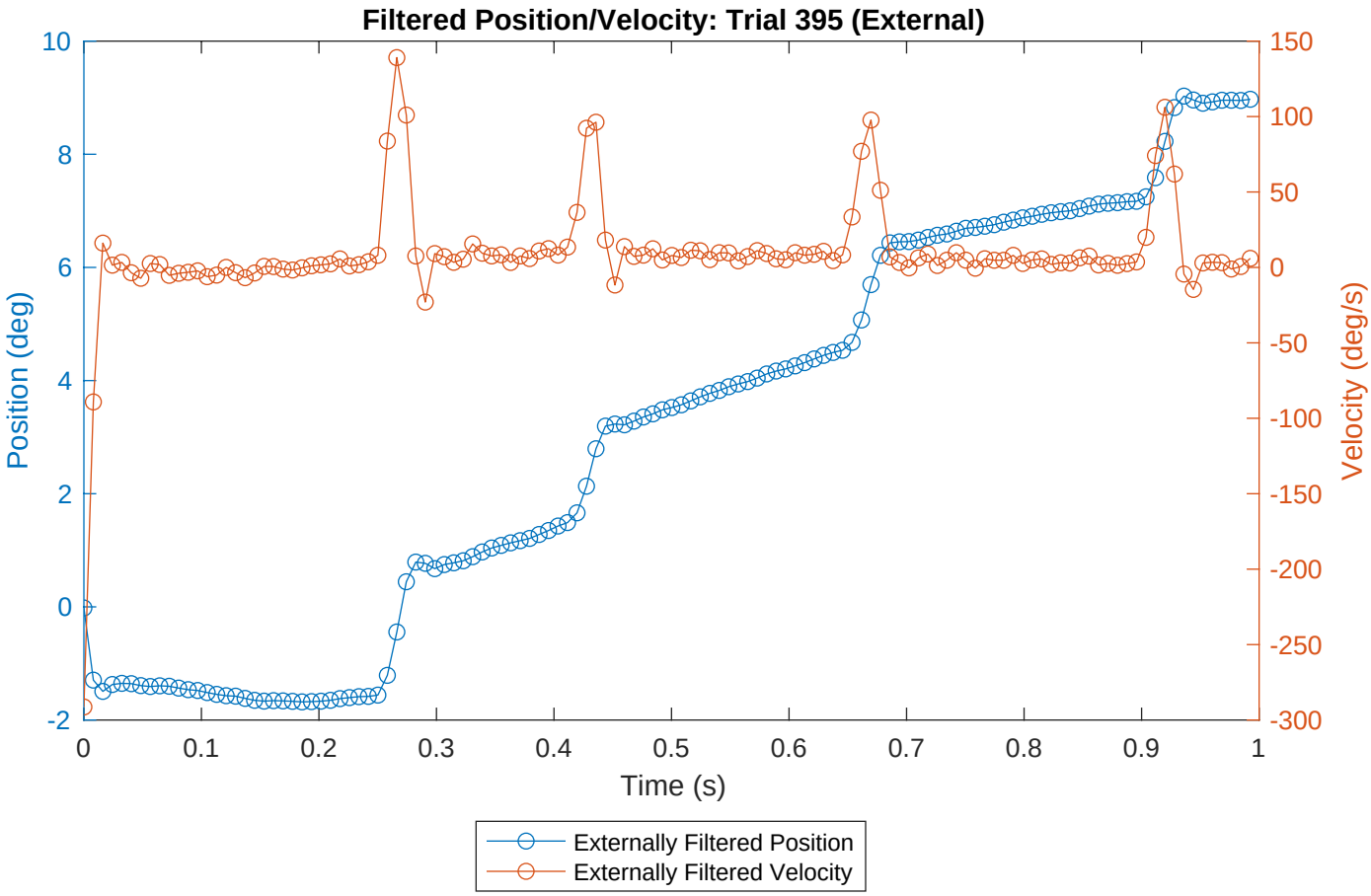

Position (deg)
Time (s)

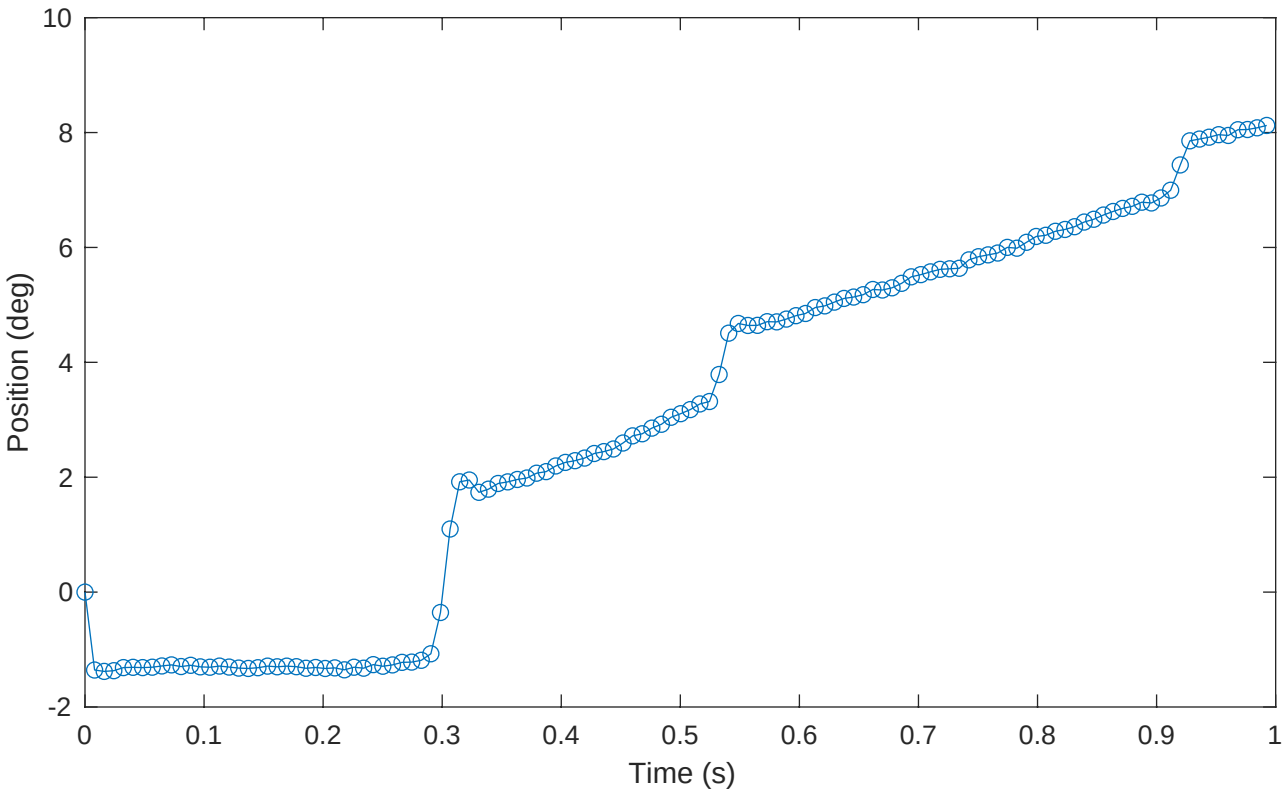

Filtered Position/Velocity: Trial 393 (External)
Position (deg)
Velocity (deg/s)
Time (s)
Externally Filtered Position
Externally Filtered Velocity

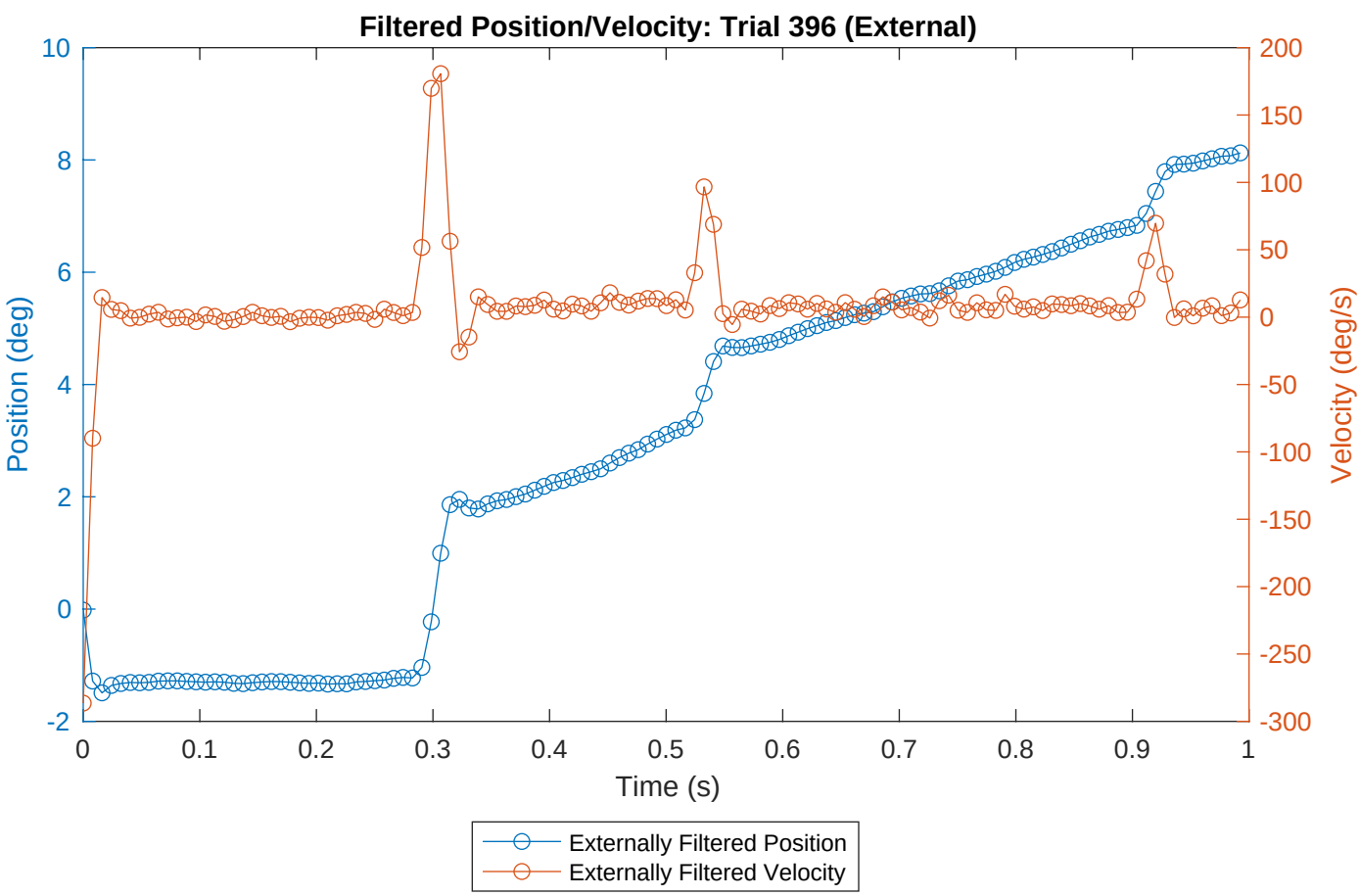

Position (deg)
Time (s)
0
-2
-4
-6
-8
-10
-12
0
0.1
0.2
0.3
0.4
0.5
0.6
0.7
0.8
0.9
1

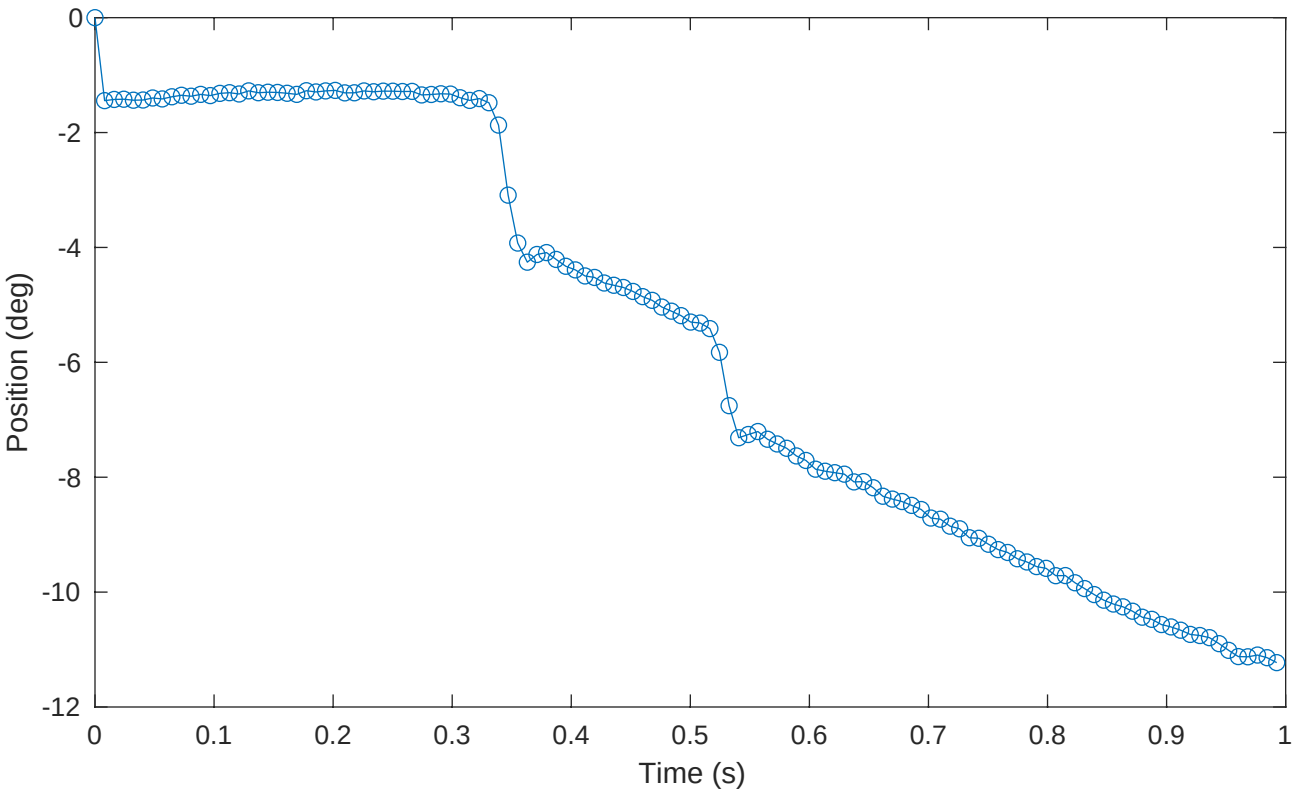

Filtered Position/Velocity: Trial 394 (External)
Position (deg)
Velocity (deg/s)
Time (s)
0
-2
-4
-6
-8
-10
-12
50
0
-50
-100
-150
-200
0
0.1
0.2
0.3
0.4
0.5
0.6
0.7
0.8
0.9
1
Externally Filtered Position
Externally Filtered Velocity

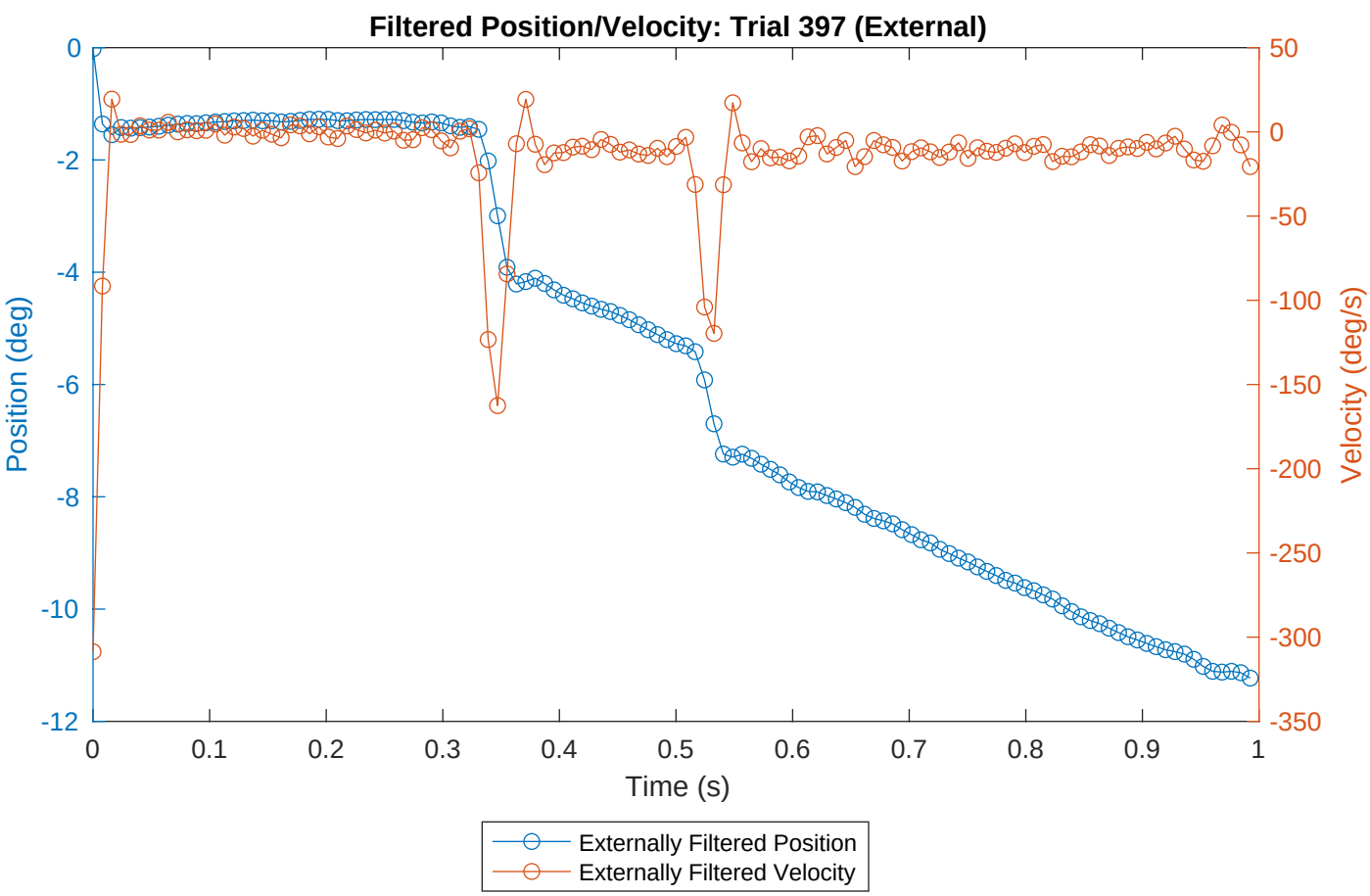

Position (deg)
Time (s)

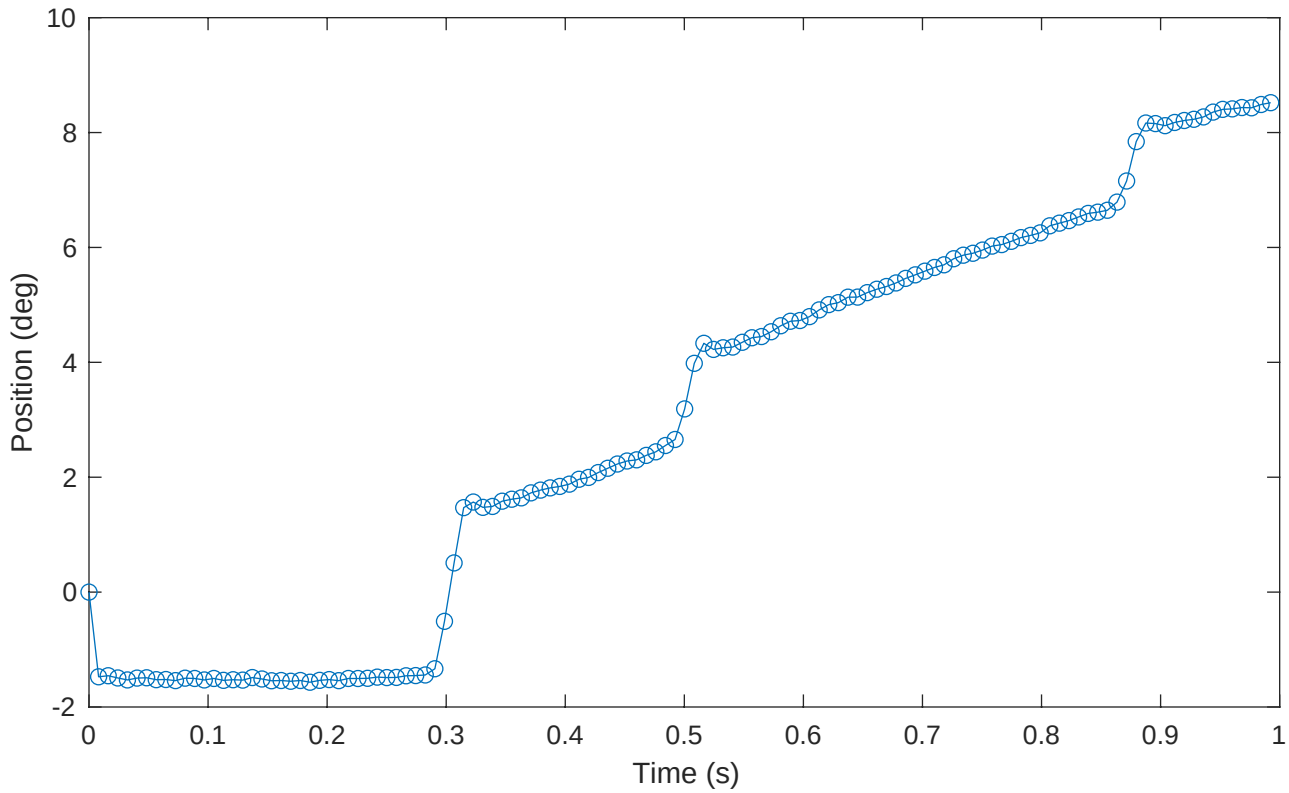

Filtered Position/Velocity: Trial 395 (External)
Position (deg)
Velocity (deg/s)
Time (s)
Externally Filtered Position
Externally Filtered Velocity

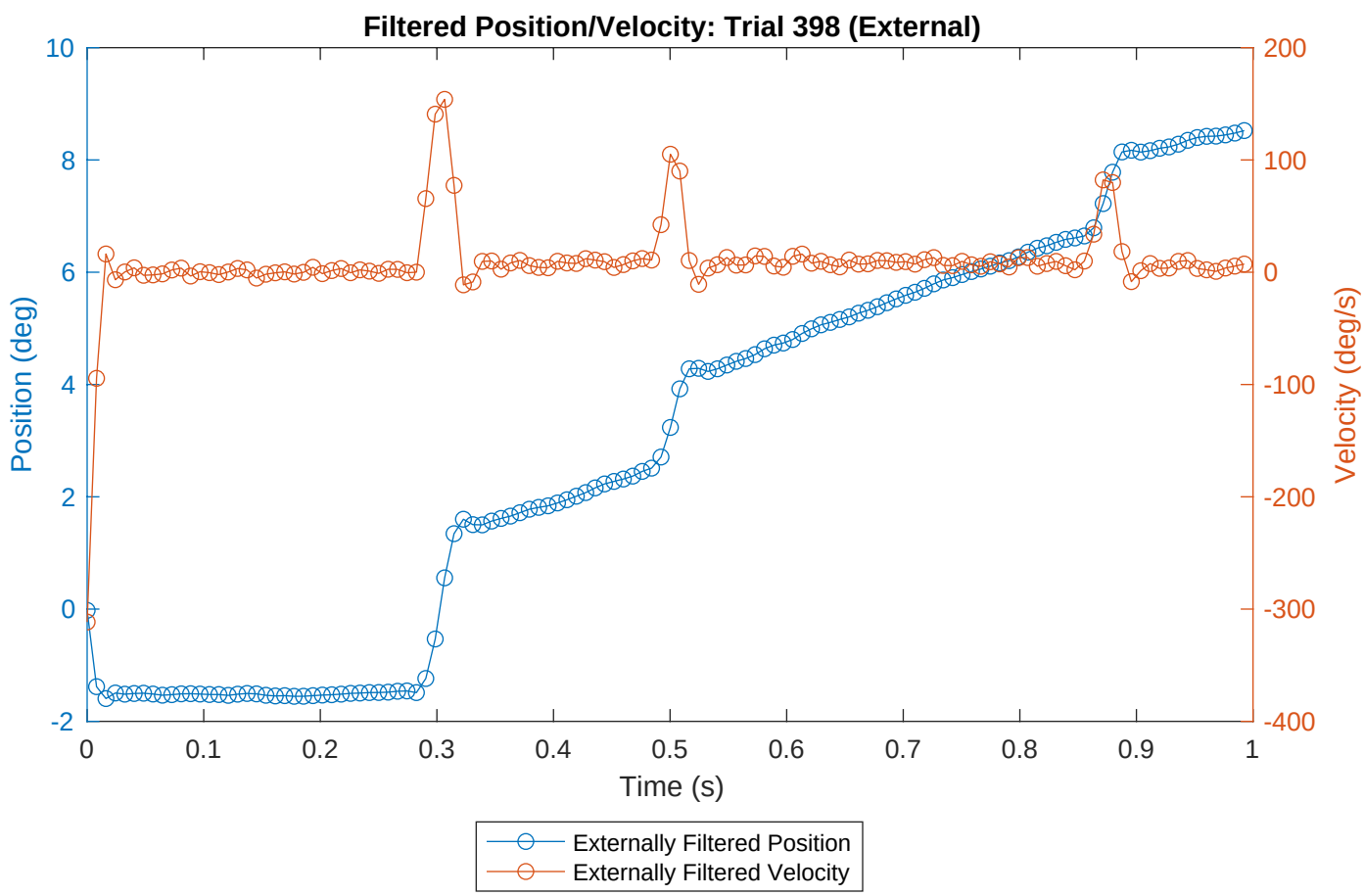

Position (deg)
Time (s)

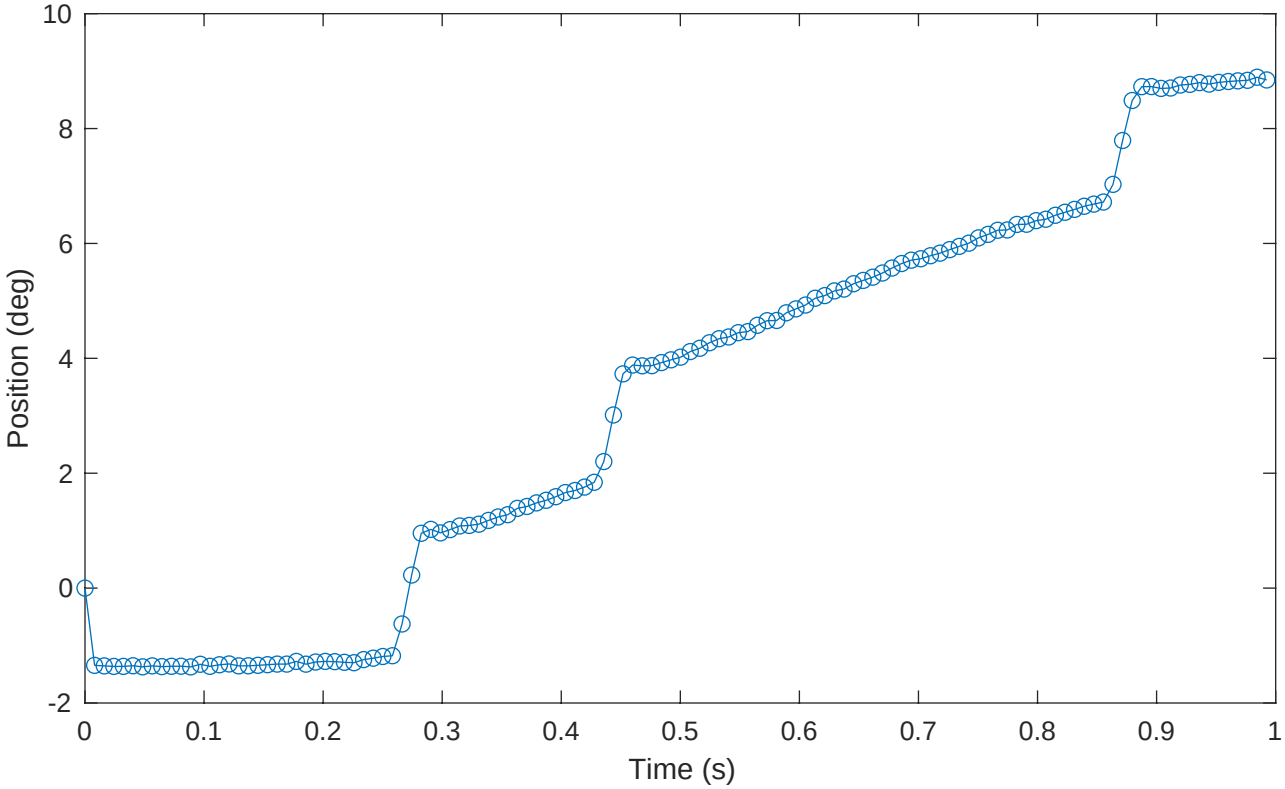

Filtered Position/Velocity: Trial 396 (External)
Position (deg)
Velocity (deg/s)
Time (s)
Externally Filtered Position
Externally Filtered Velocity

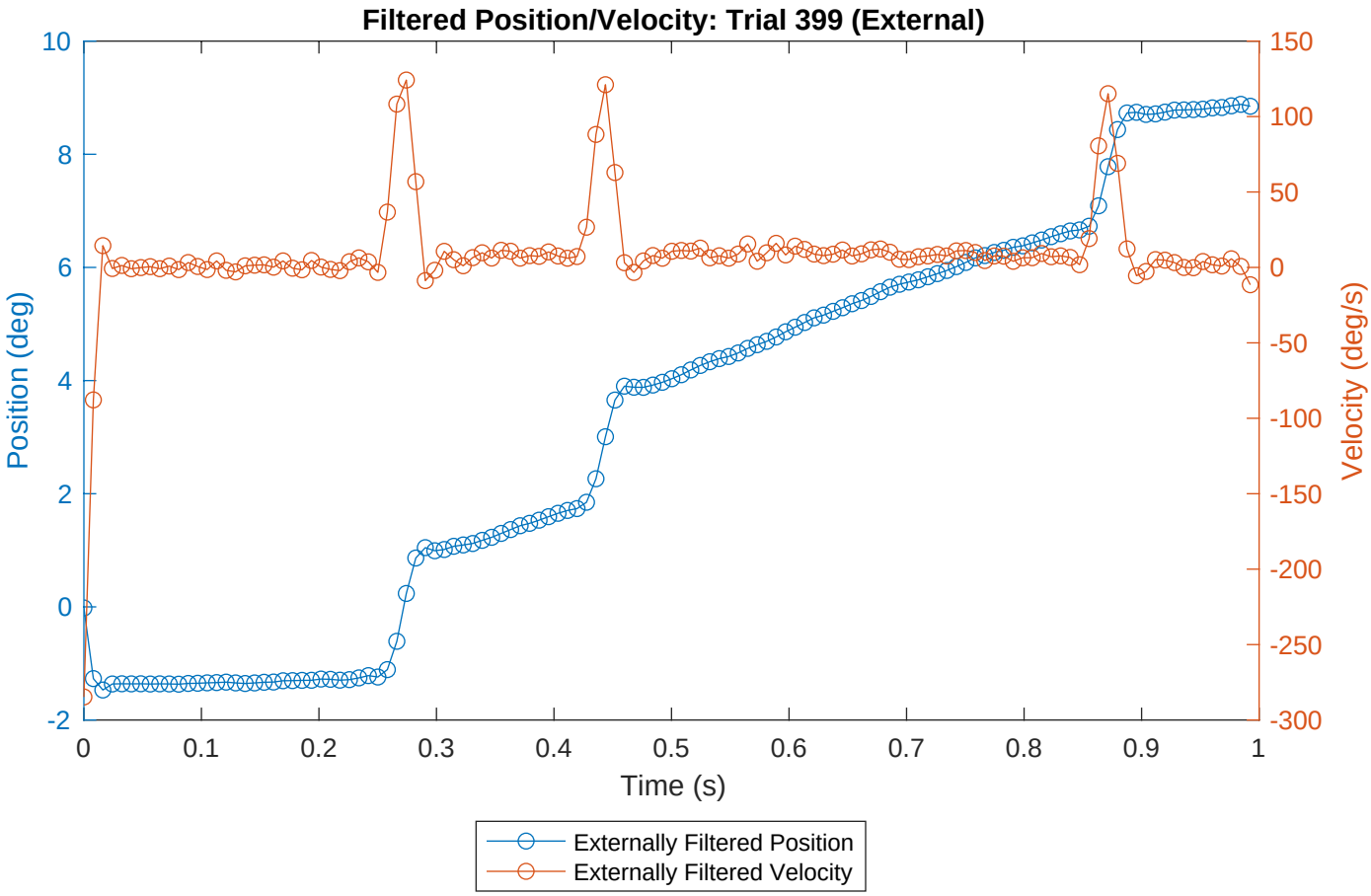

Position (deg)
Time (s)
0
-2
-4
-6
-8
-10
-12
0
0.1
0.2
0.3
0.4
0.5
0.6
0.7
0.8
0.9
1

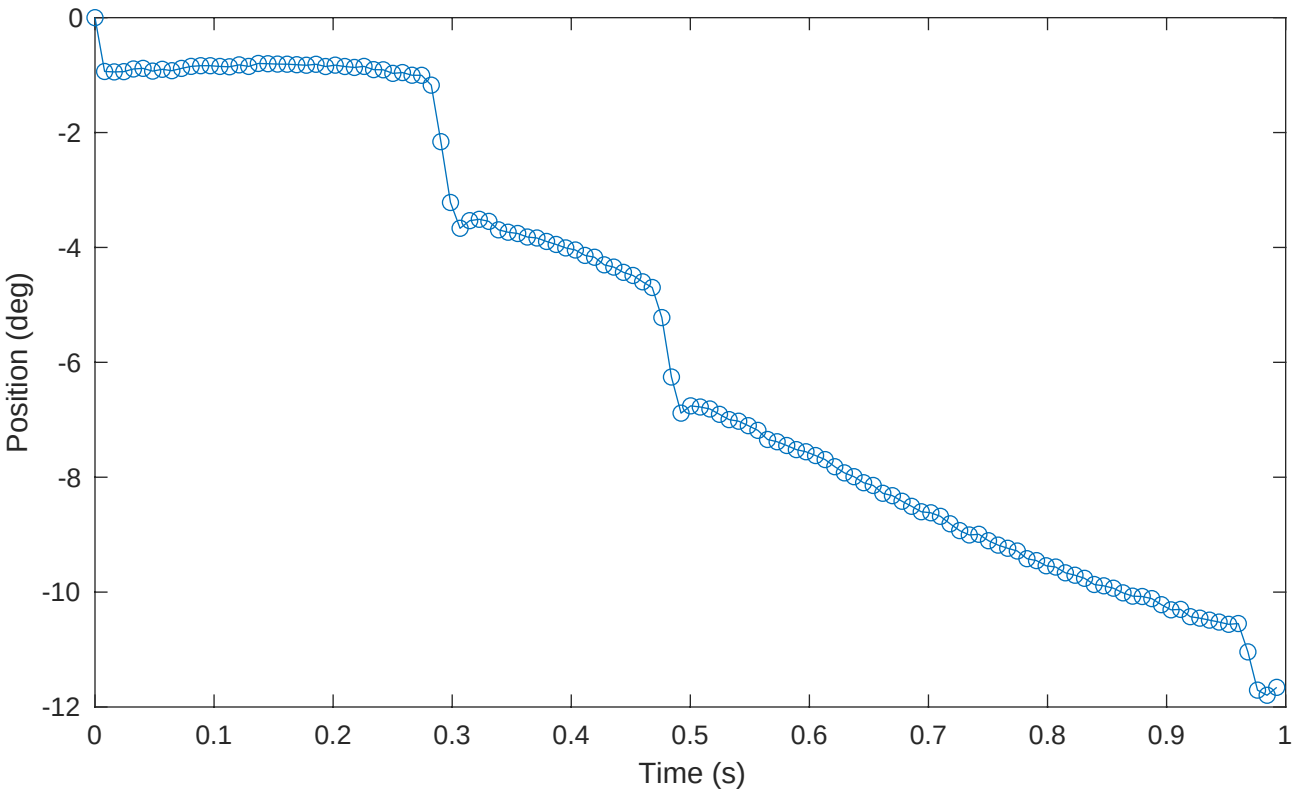

Filtered Position/Velocity: Trial 397 (External)
Position (deg)
Velocity (deg/s)
Time (s)
0
-2
-4
-6
-8
-10
-12
50
0
-50
-100
-150
-200
-250
-300
-350
0
0.1
0.2
0.3
0.4
0.5
0.6
0.7
0.8
0.9
1
Externally Filtered Position
Externally Filtered Velocity

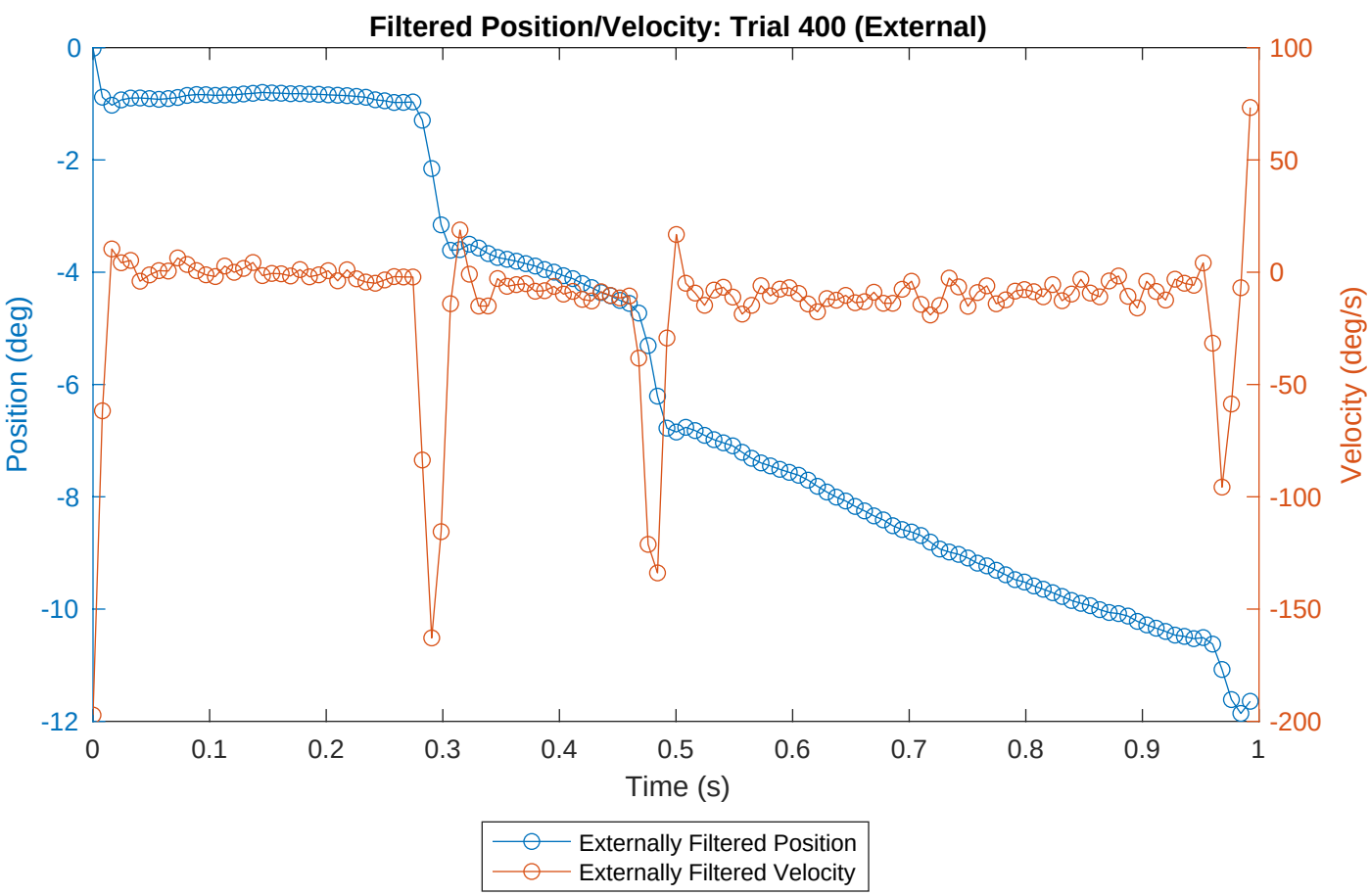

Position (deg)
Time (s)

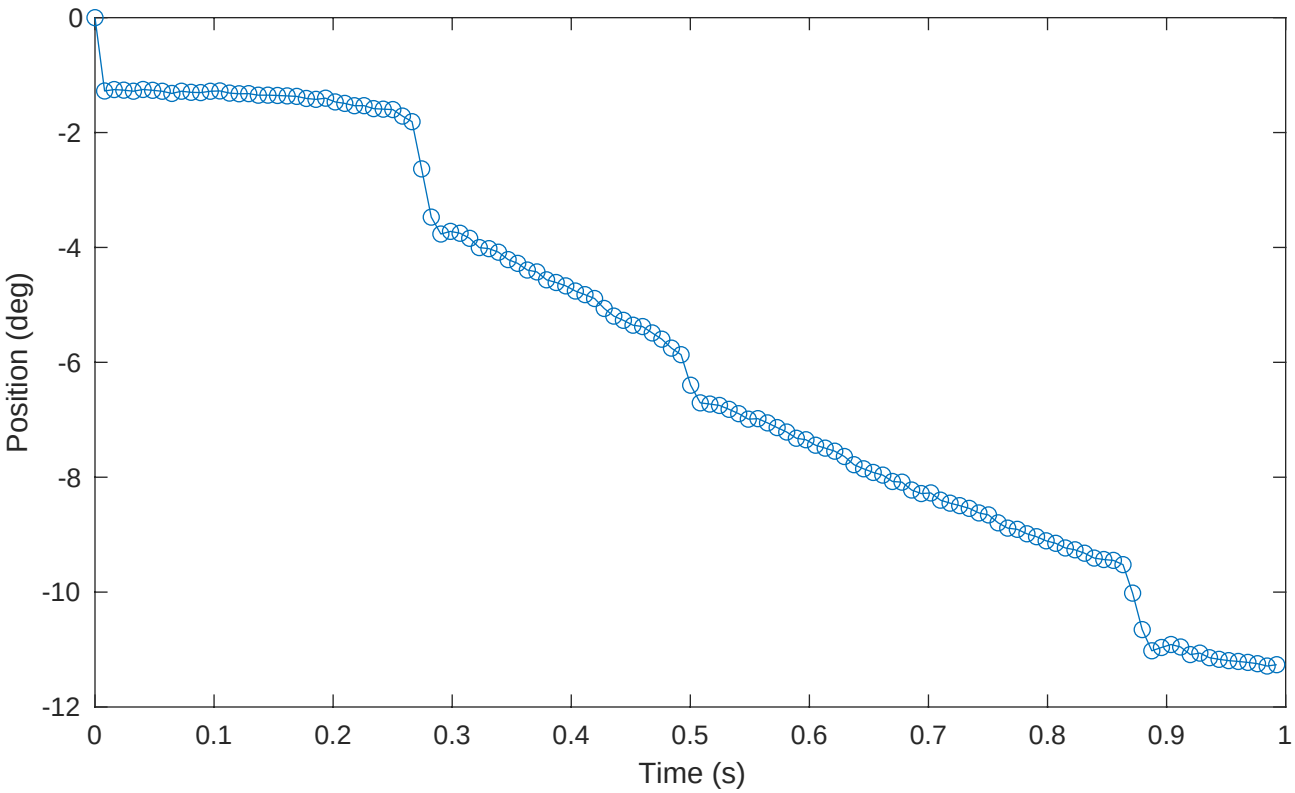

Filtered Position/Velocity: Trial 398 (External)
Position (deg)
Velocity (deg/s)
Time (s)
Externally Filtered Position
Externally Filtered Velocity

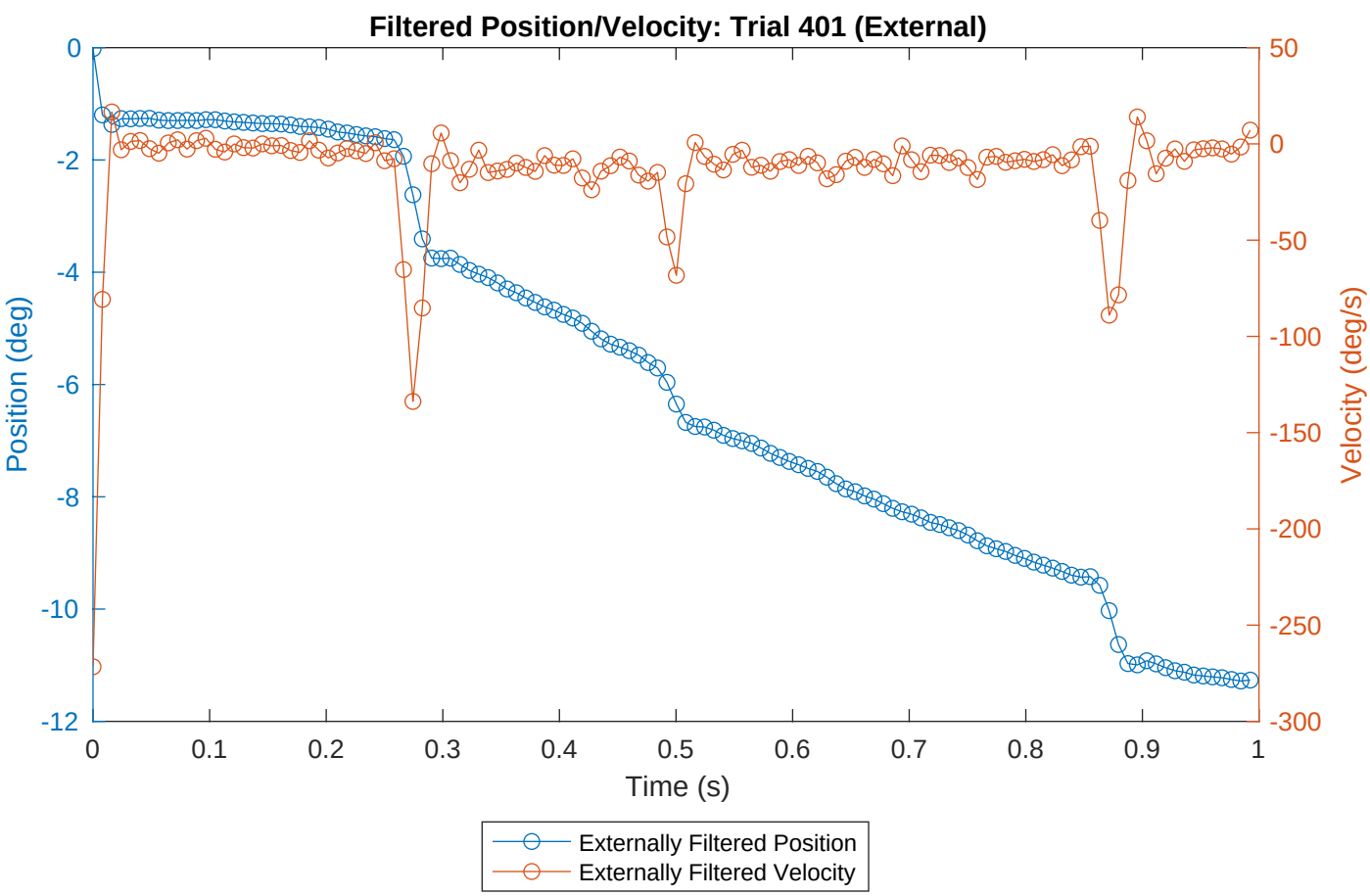

Position (deg)
Time (s)

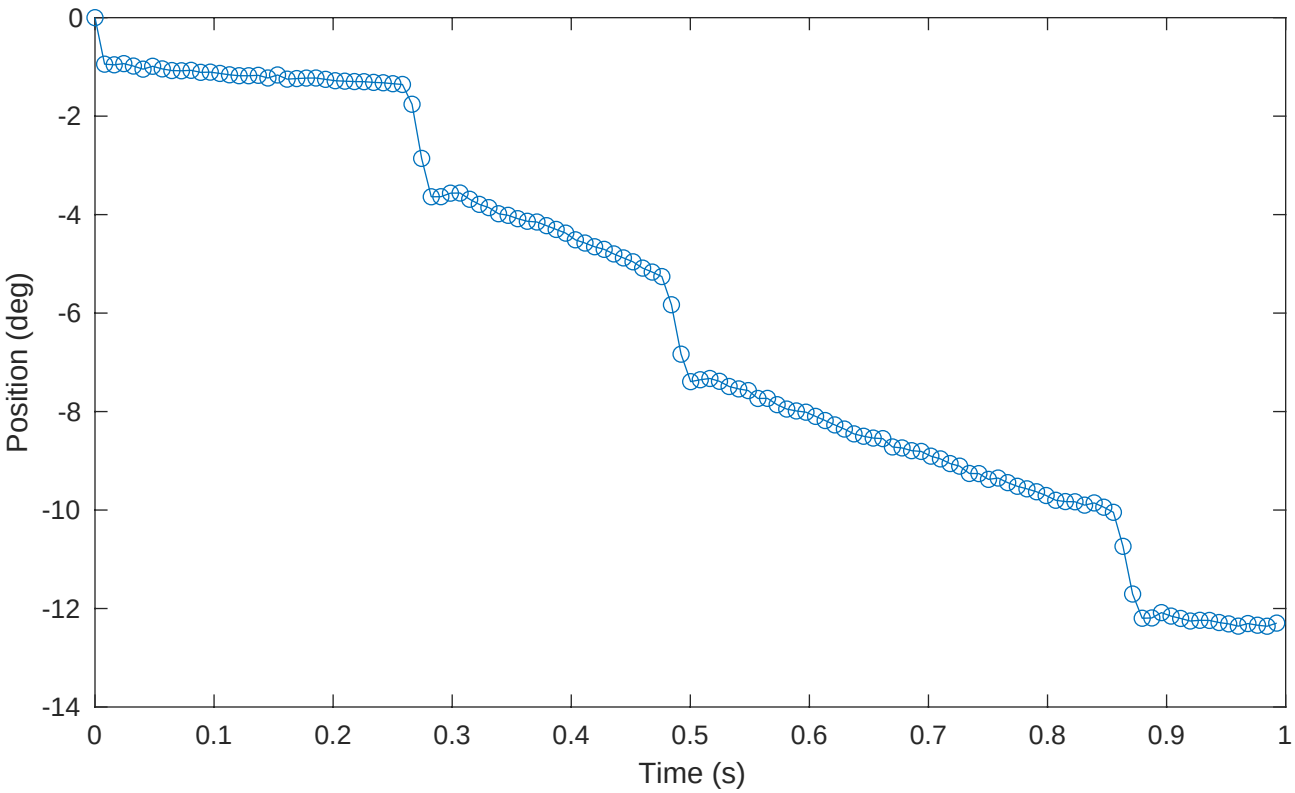

Filtered Position/Velocity: Trial 399 (External)
Position (deg)
Velocity (deg/s)
Time (s)
Externally Filtered Position
Externally Filtered Velocity

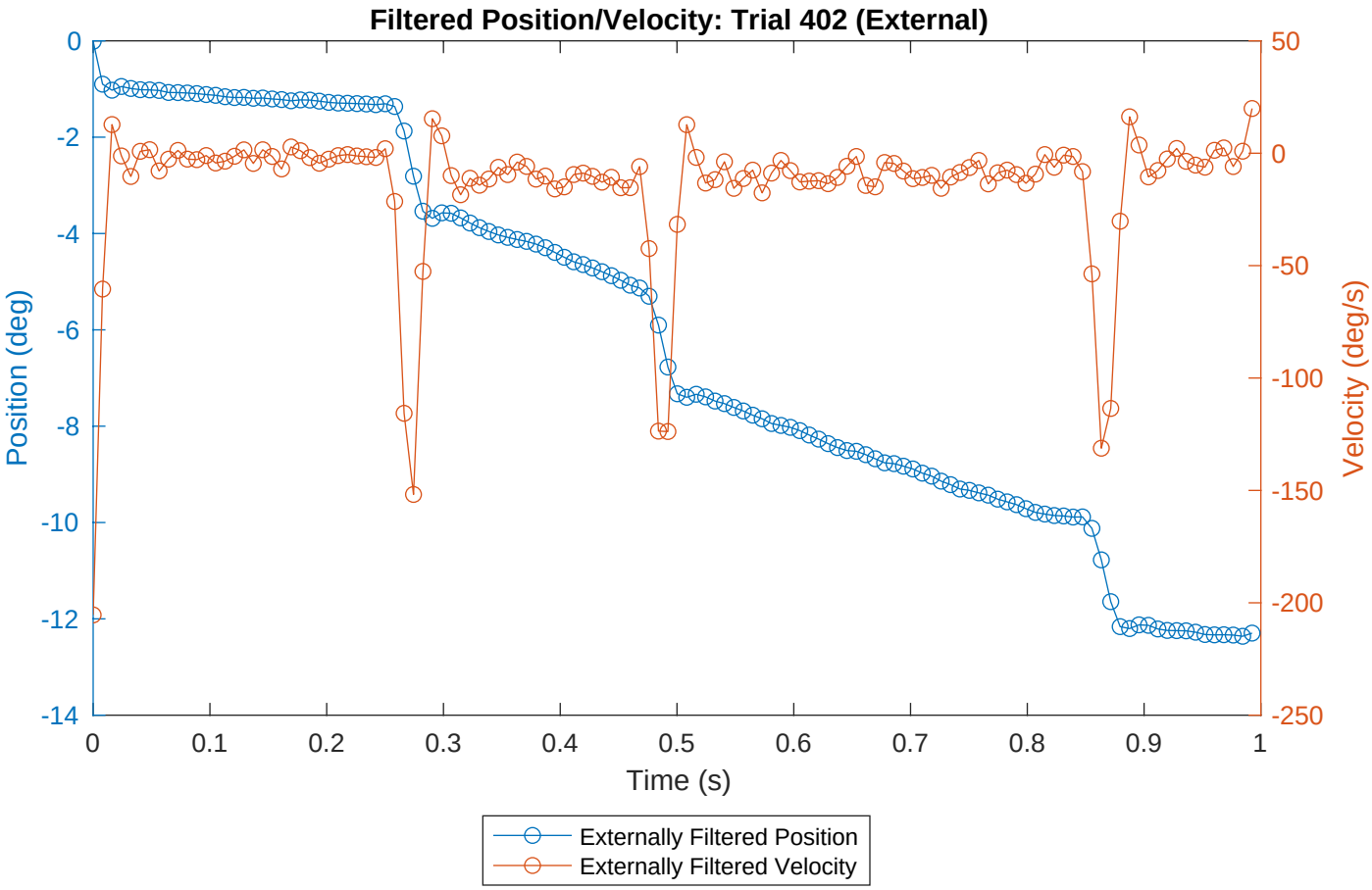

0
-2
-4
-6
-8
-10
-12
Position (deg)
0
0.1
0.2
0.3
0.4
0.5
0.6
0.7
0.8
0.9
1
Time (s)

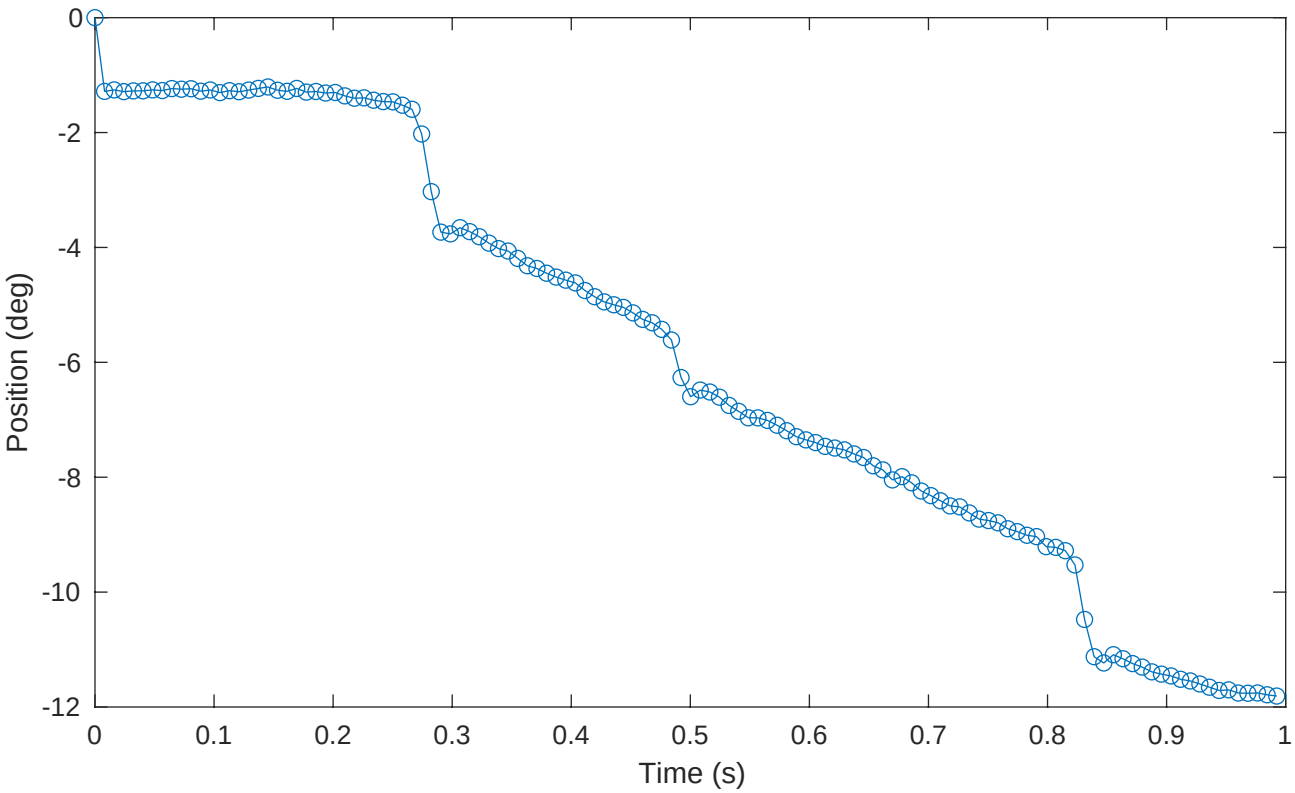

Filtered Position/Velocity: Trial 400 (External)
0
-2
-4
-6
-8
-10
-12
Position (deg)
100
50
0
-50
-100
-150
-200
Velocity (deg/s)
0
0.1
0.2
0.3
0.4
0.5
0.6
0.7
0.8
0.9
1
Time (s)
Externally Filtered Position
Externally Filtered Velocity

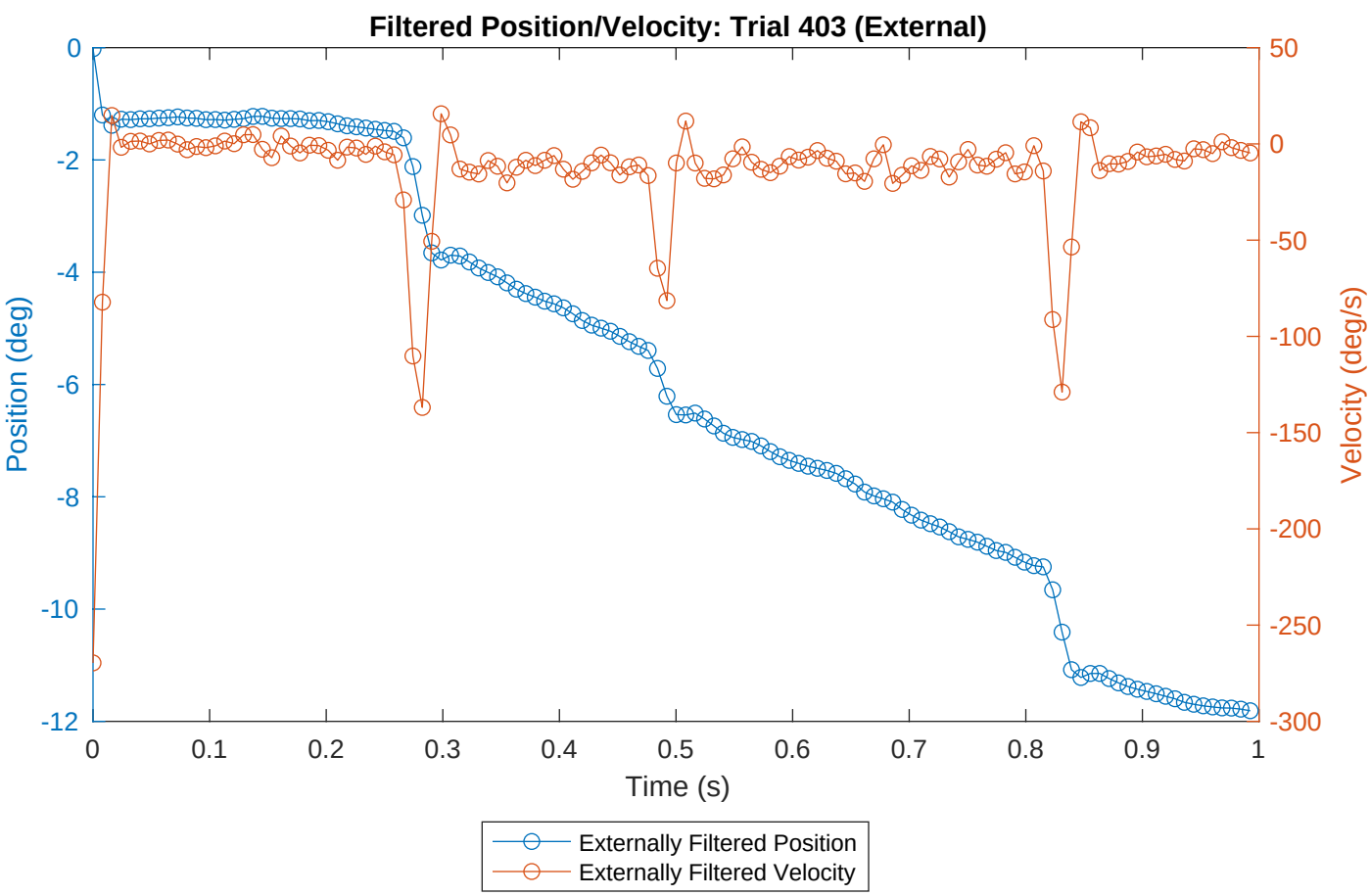

0
-2
-4
-6
-8
-10
-12
Position (deg)
0
0.1
0.2
0.3
0.4
0.5
0.6
0.7
0.8
0.9
1
Time (s)

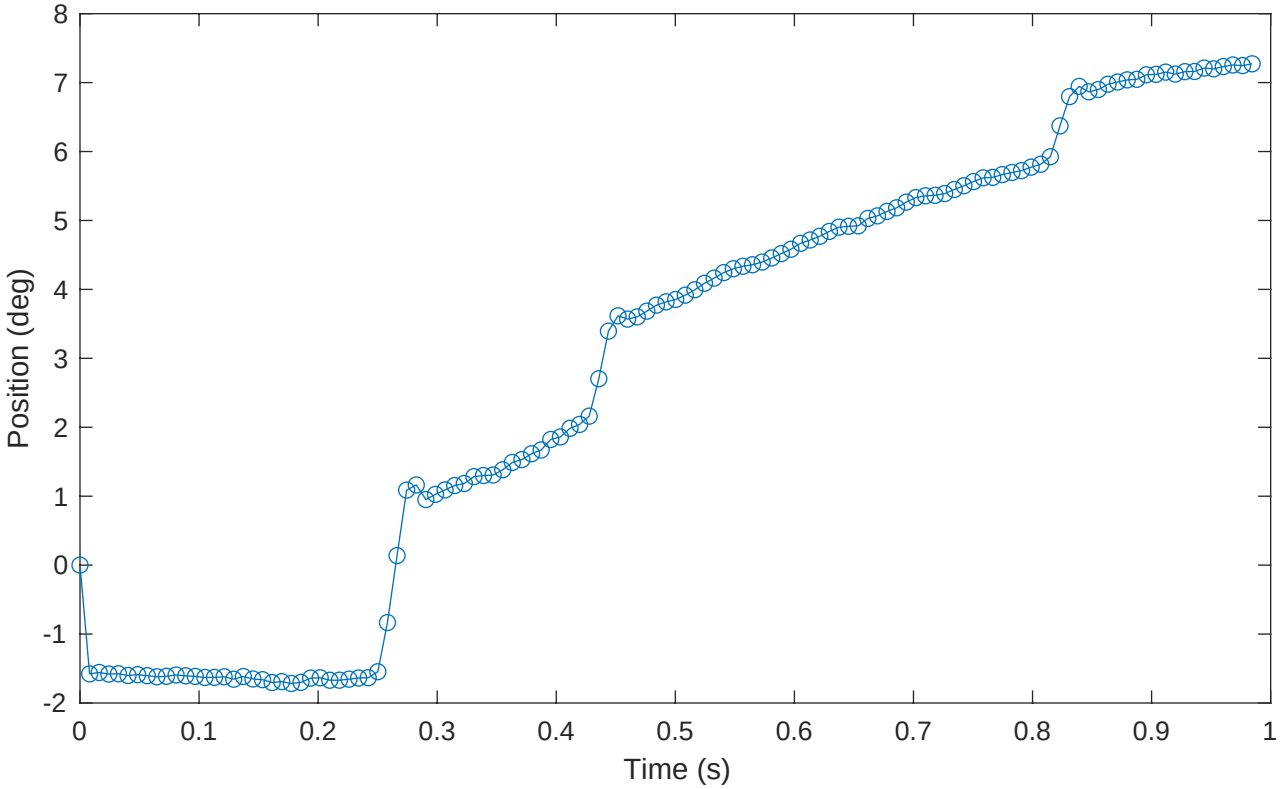

Filtered Position/Velocity: Trial 401 (External)
0
-2
-4
-6
-8
-10
-12
Position (deg)
50
0
-50
-100
-150
-200
-250
-300
Velocity (deg/s)
0
0.1
0.2
0.3
0.4
0.5
0.6
0.7
0.8
0.9
1
Time (s)
Externally Filtered Position
Externally Filtered Velocity

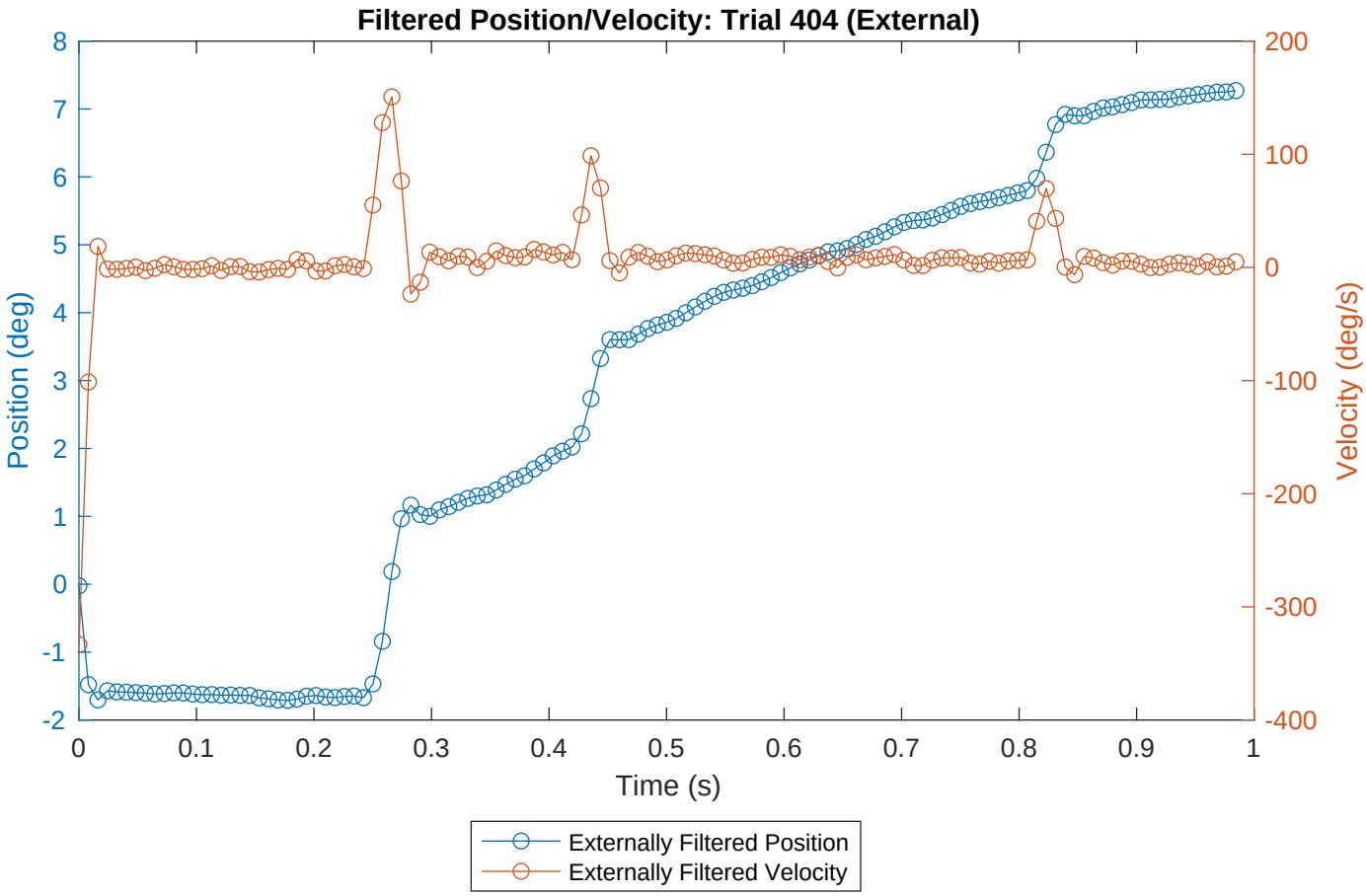

Position (deg)
Time (s)
0
-2
-4
-6
-8
-10
-12
-14
0
0.1
0.2
0.3
0.4
0.5
0.6
0.7
0.8
0.9
1

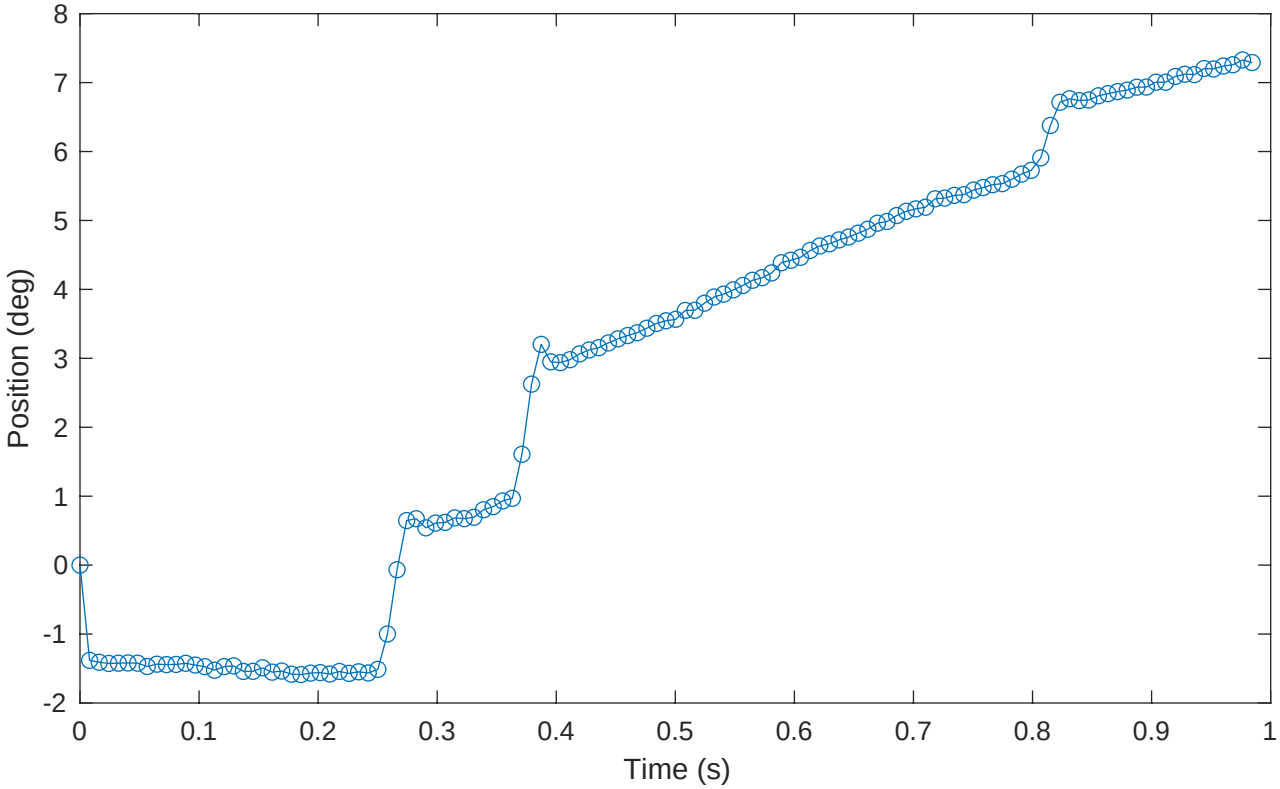

Filtered Position/Velocity: Trial 402 (External)
Position (deg)
Velocity (deg/s)
Time (s)
0
-2
-4
-6
-8
-10
-12
-14
50
0
-50
-100
-150
-200
-250
0
0.1
0.2
0.3
0.4
0.5
0.6
0.7
0.8
0.9
1
Externally Filtered Position
Externally Filtered Velocity

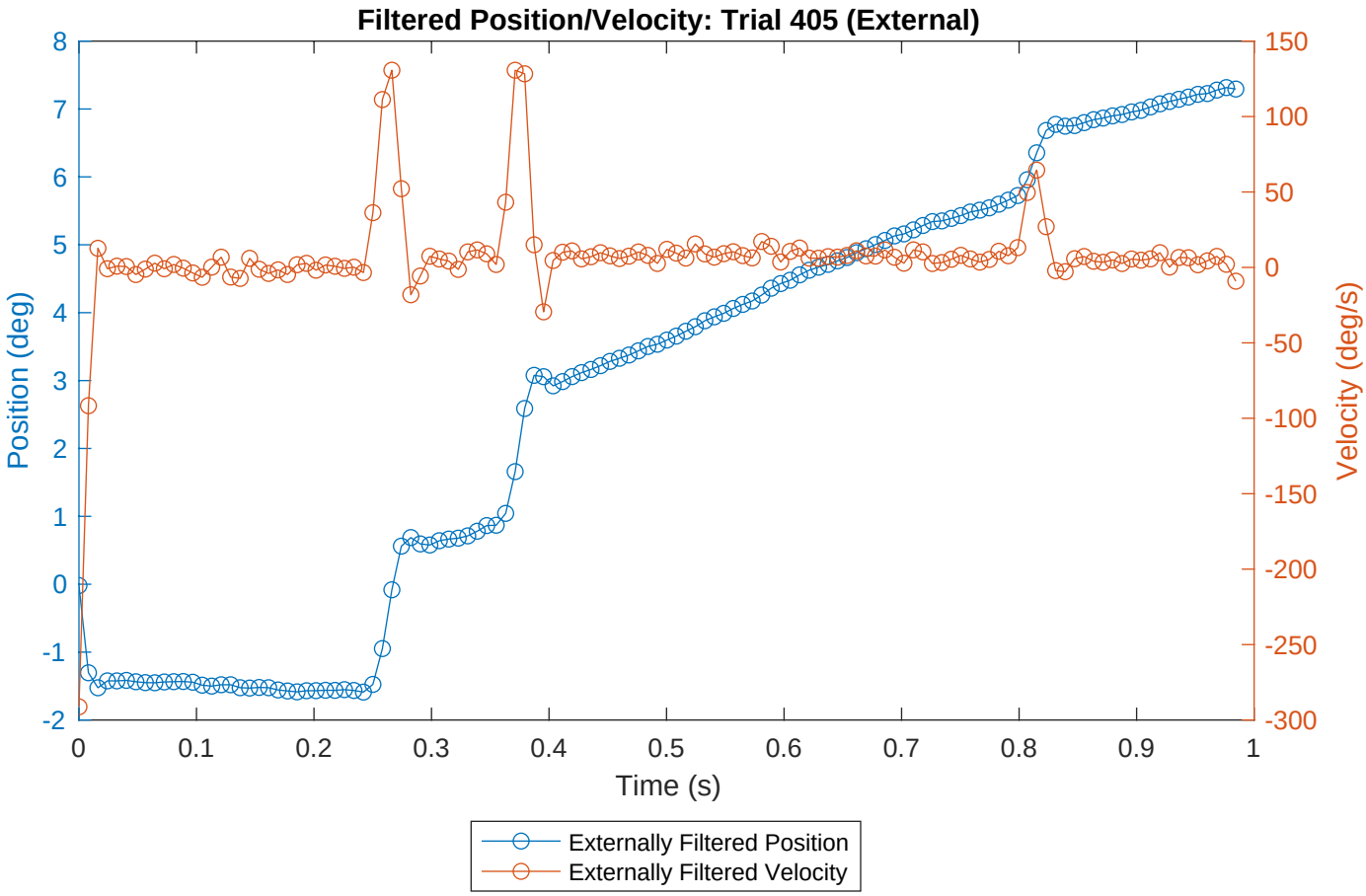

0
-2
-4
-6
-8
-10
-12
Position (deg)
0
0.1
0.2
0.3
0.4
0.5
0.6
0.7
0.8
0.9
1
Time (s)

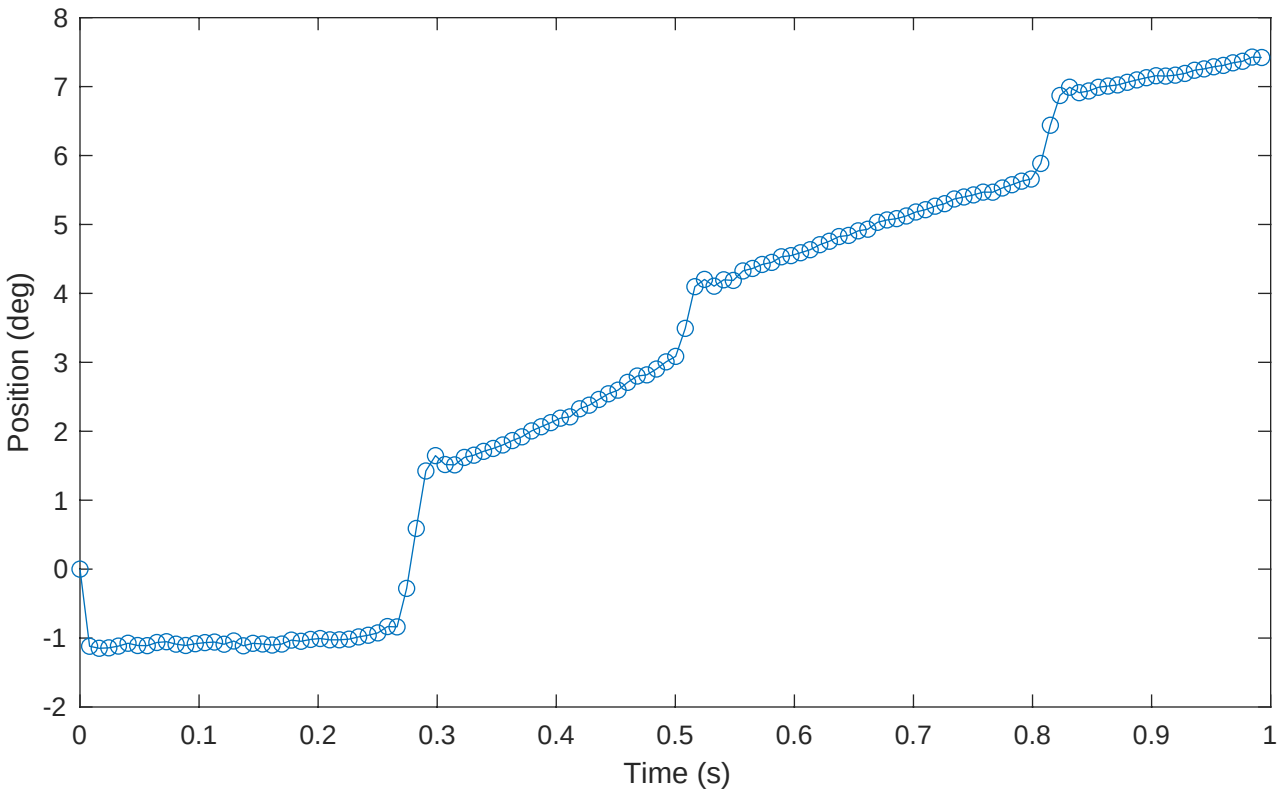

Filtered Position/Velocity: Trial 403 (External)
0
-2
-4
-6
-8
-10
-12
Position (deg)
50
0
-50
-100
-150
-200
-250
-300
Velocity (deg/s)
0
0.1
0.2
0.3
0.4
0.5
0.6
0.7
0.8
0.9
1
Time (s)
Externally Filtered Position
Externally Filtered Velocity

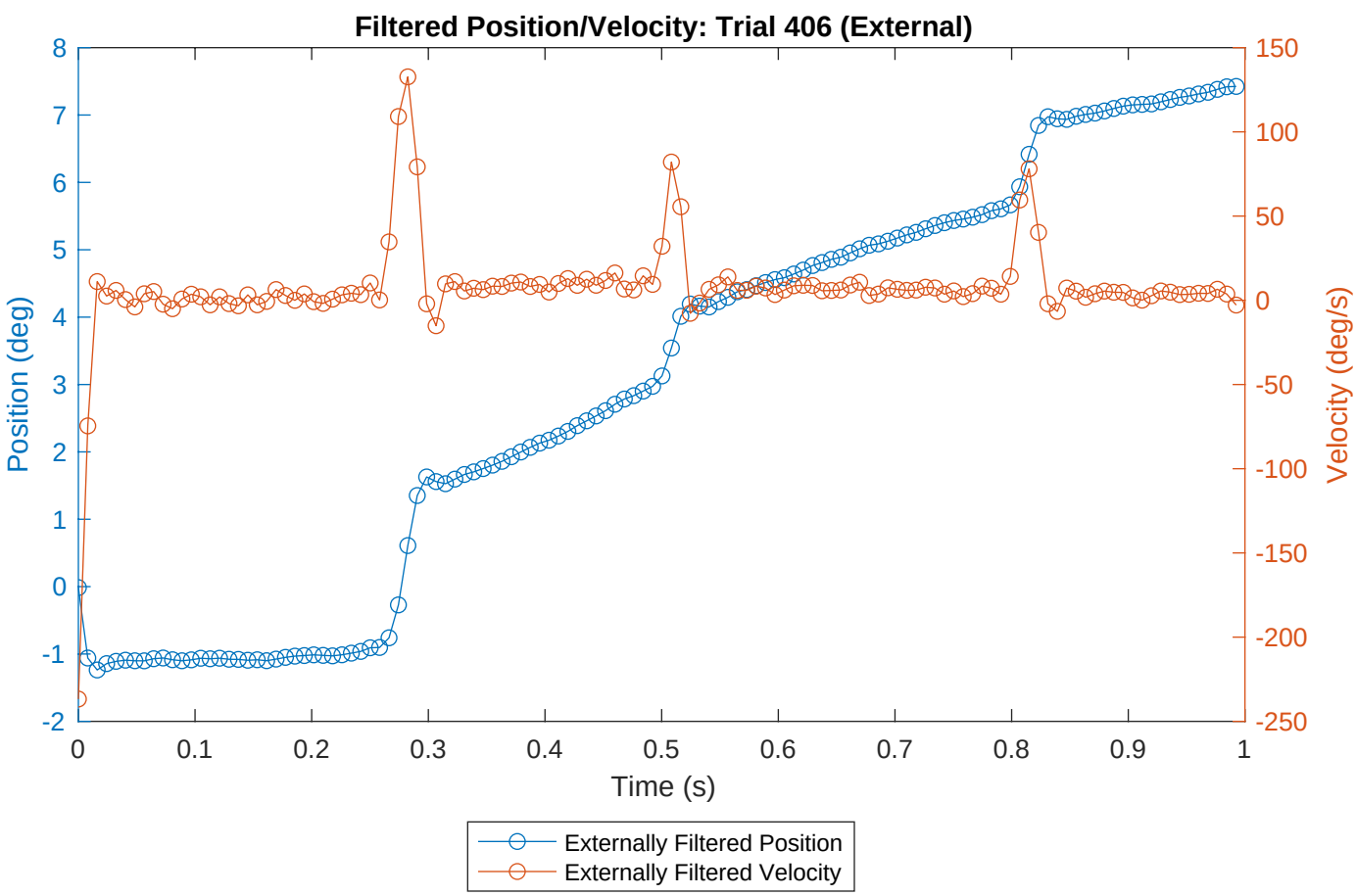

Position (deg)
Time (s)

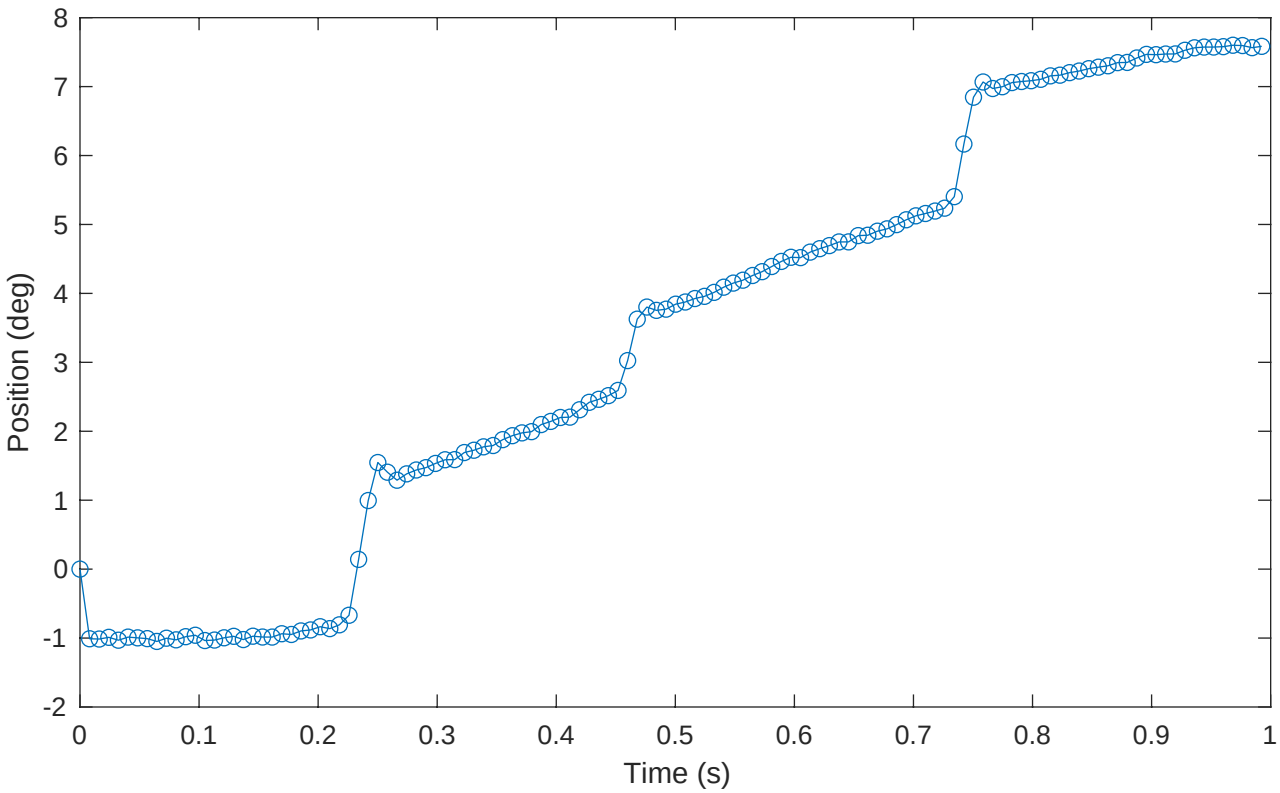

Filtered Position/Velocity: Trial 404 (External)
Position (deg)
Velocity (deg/s)
Time (s)
Externally Filtered Position
Externally Filtered Velocity

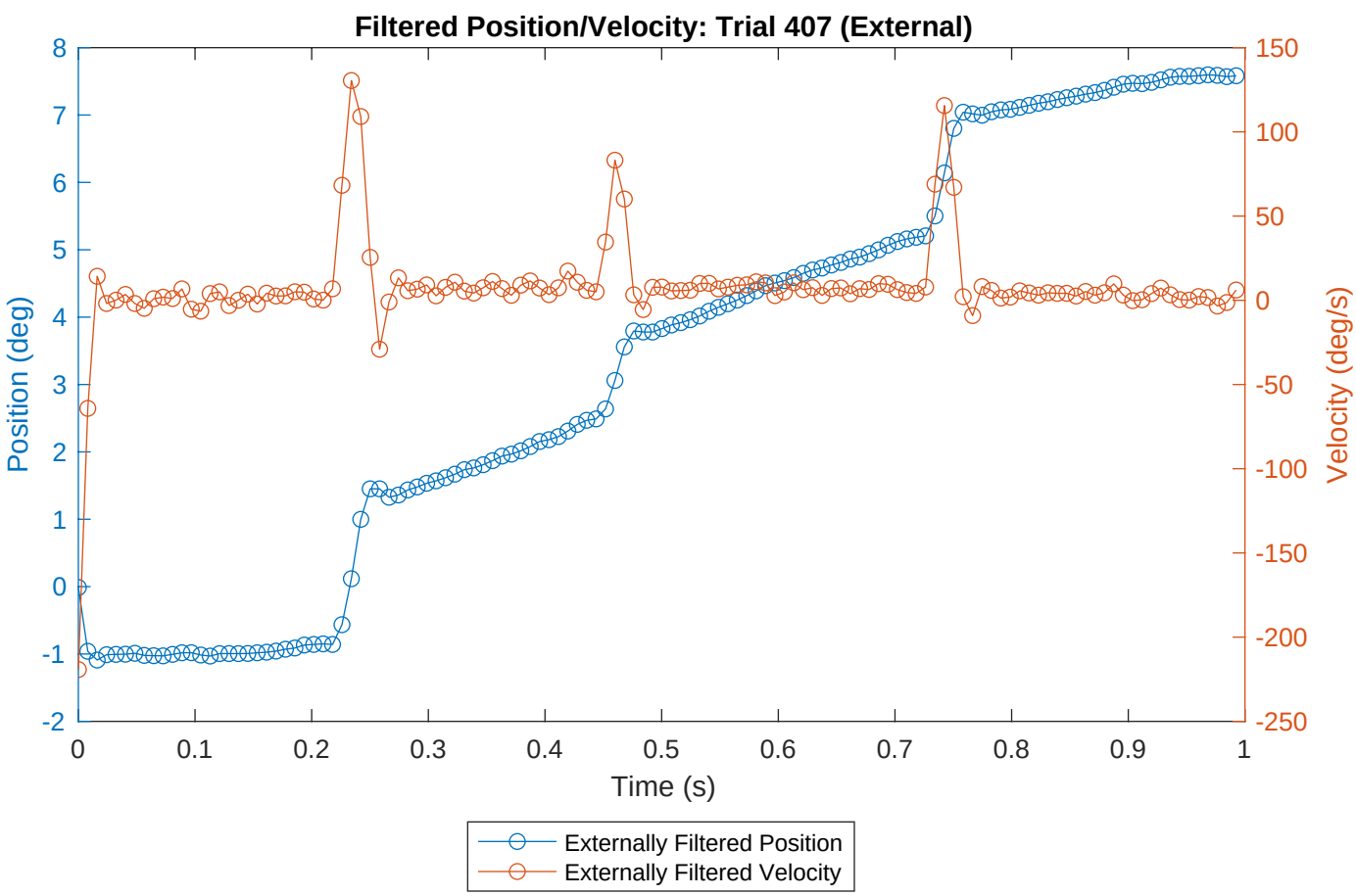

Position (deg)
Time (s)

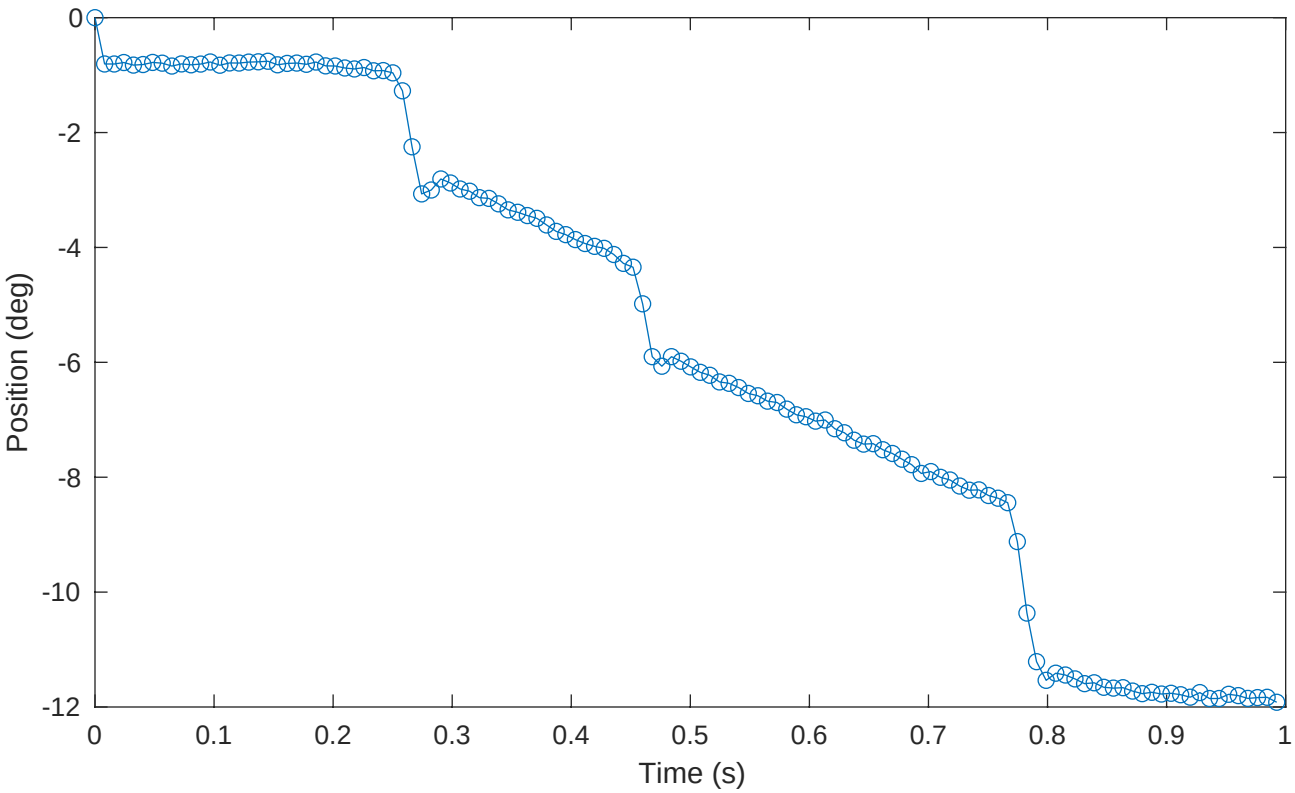

Filtered Position/Velocity: Trial 405 (External)
Position (deg)
Velocity (deg/s)
Time (s)
Externally Filtered Position
Externally Filtered Velocity

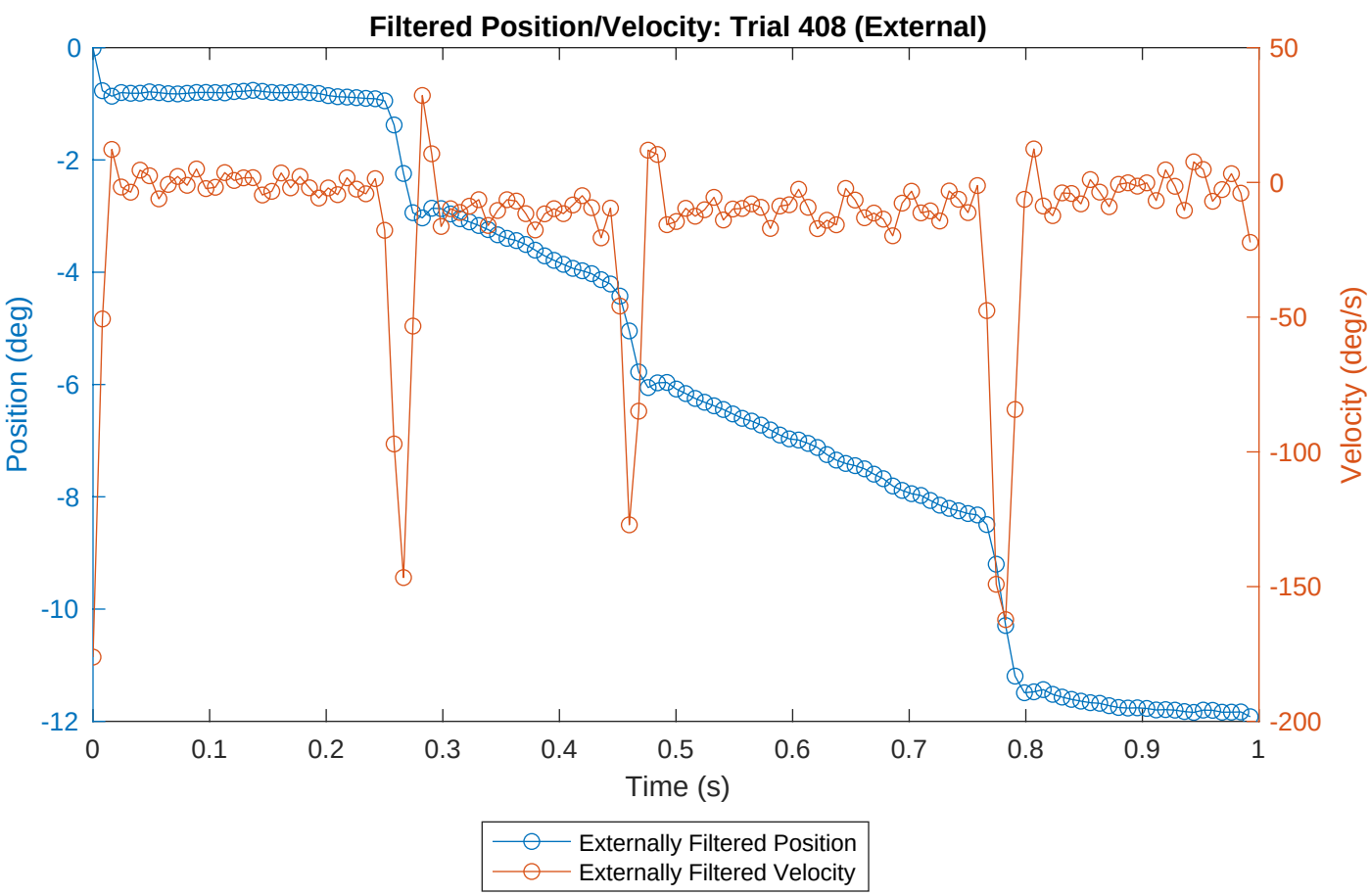

Position (deg)
Time (s)

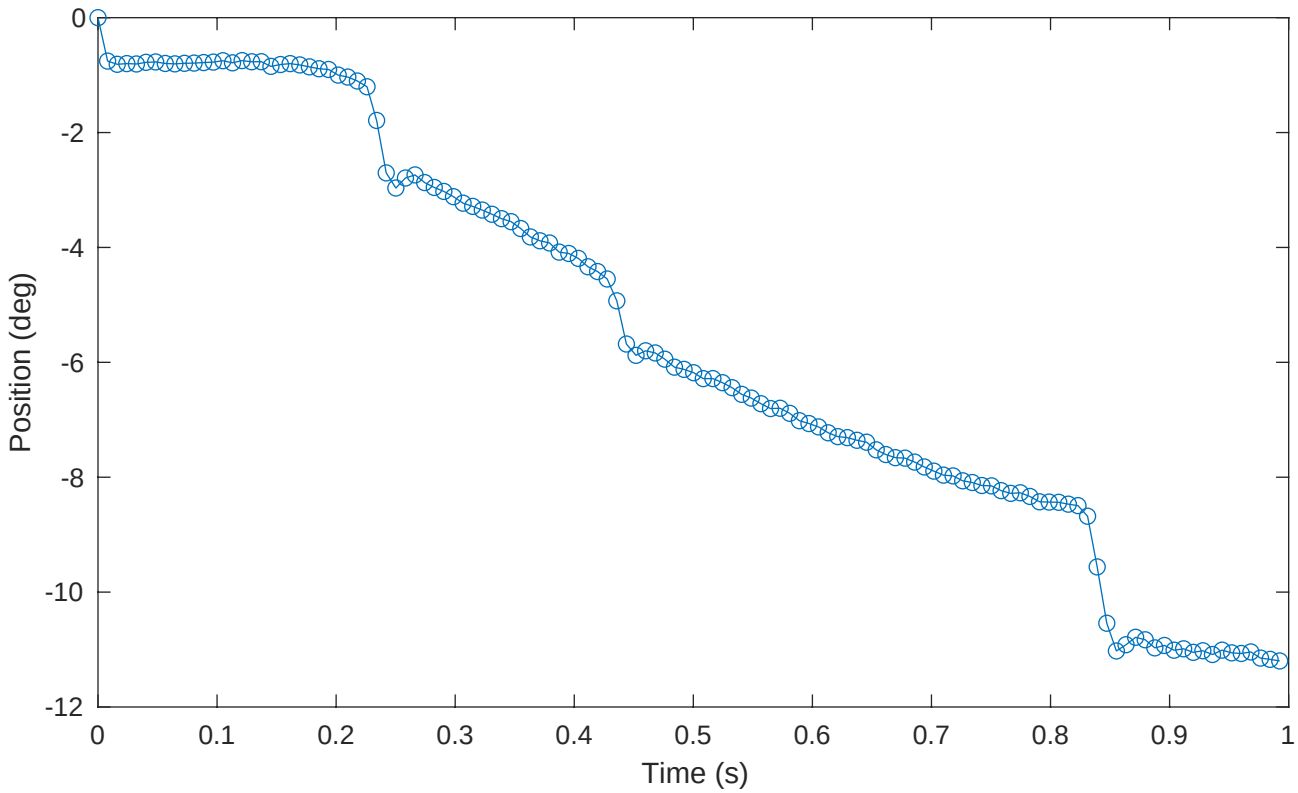

Filtered Position/Velocity: Trial 406 (External)
Position (deg)
Velocity (deg/s)
Time (s)
Externally Filtered Position
Externally Filtered Velocity

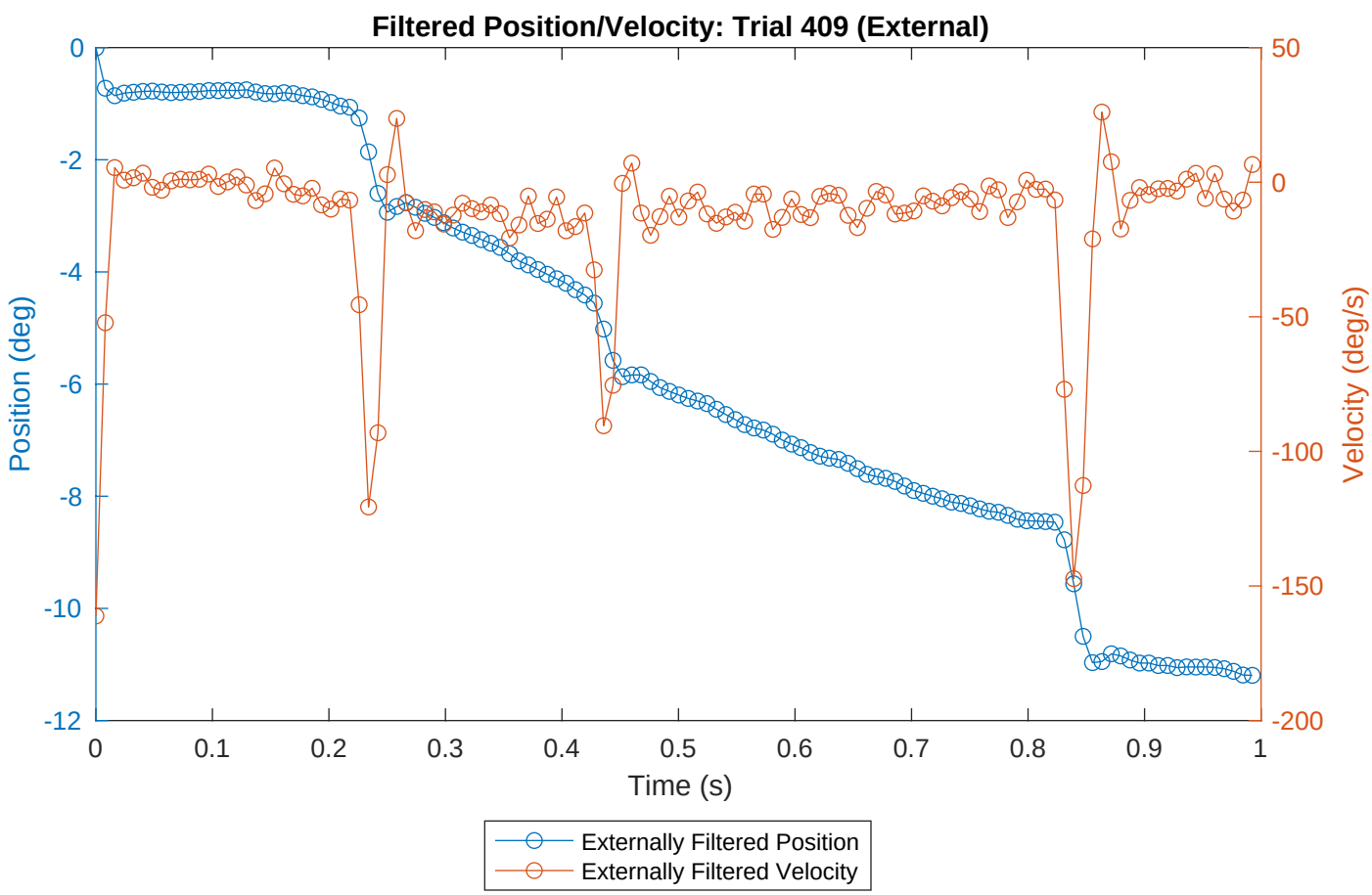

Position (deg)
Time (s)

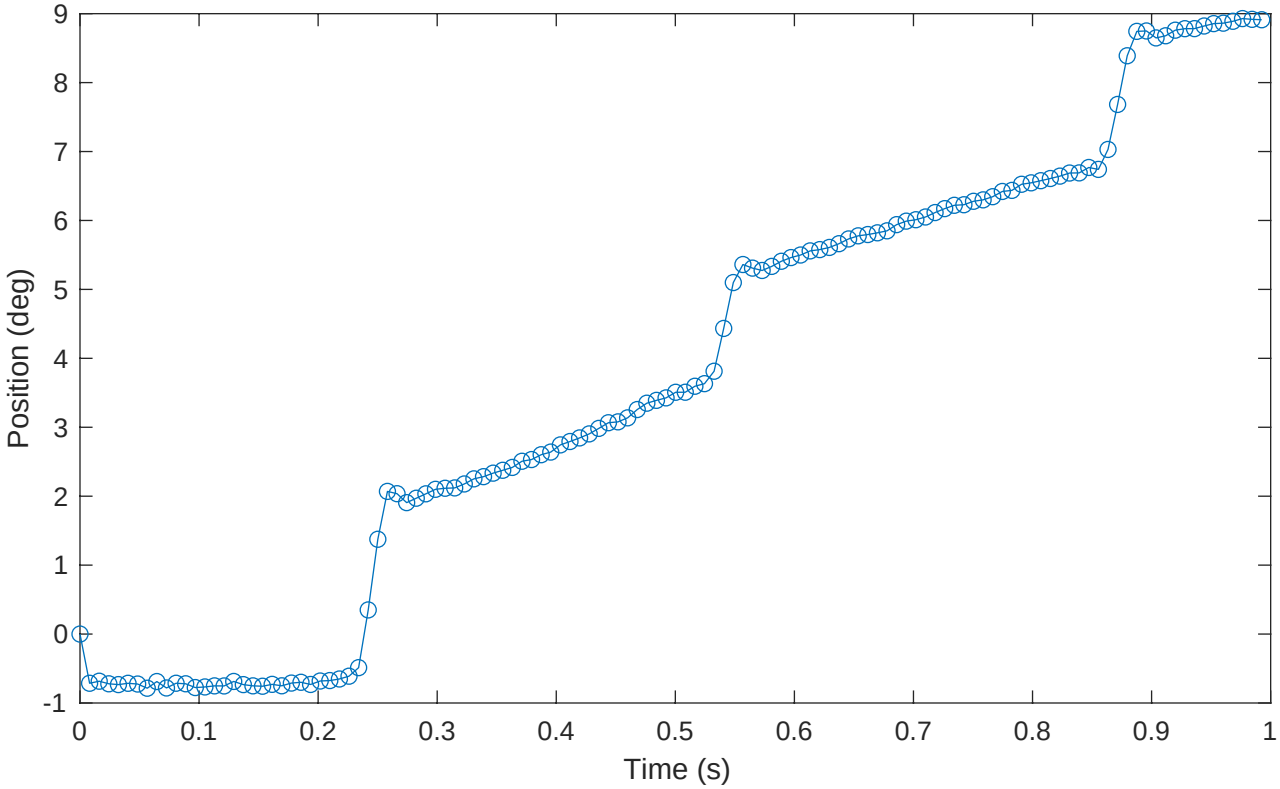

Filtered Position/Velocity: Trial 407 (External)
Position (deg)
Velocity (deg/s)
Time (s)
Externally Filtered Position
Externally Filtered Velocity

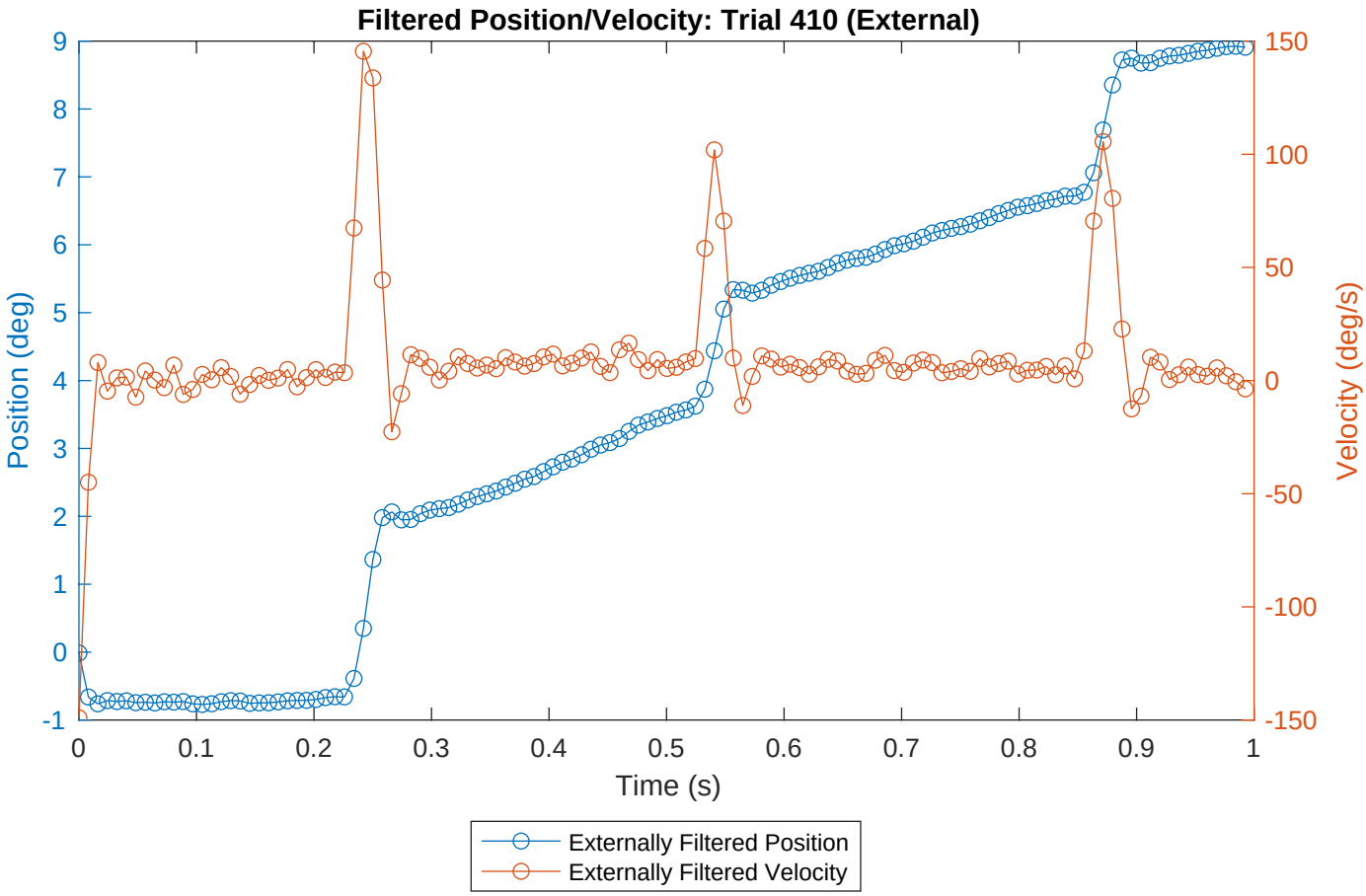

Position (deg)
Time (s)
0
-2
-4
-6
-8
-10
-12
0
0.1
0.2
0.3
0.4
0.5
0.6
0.7
0.8
0.9
1

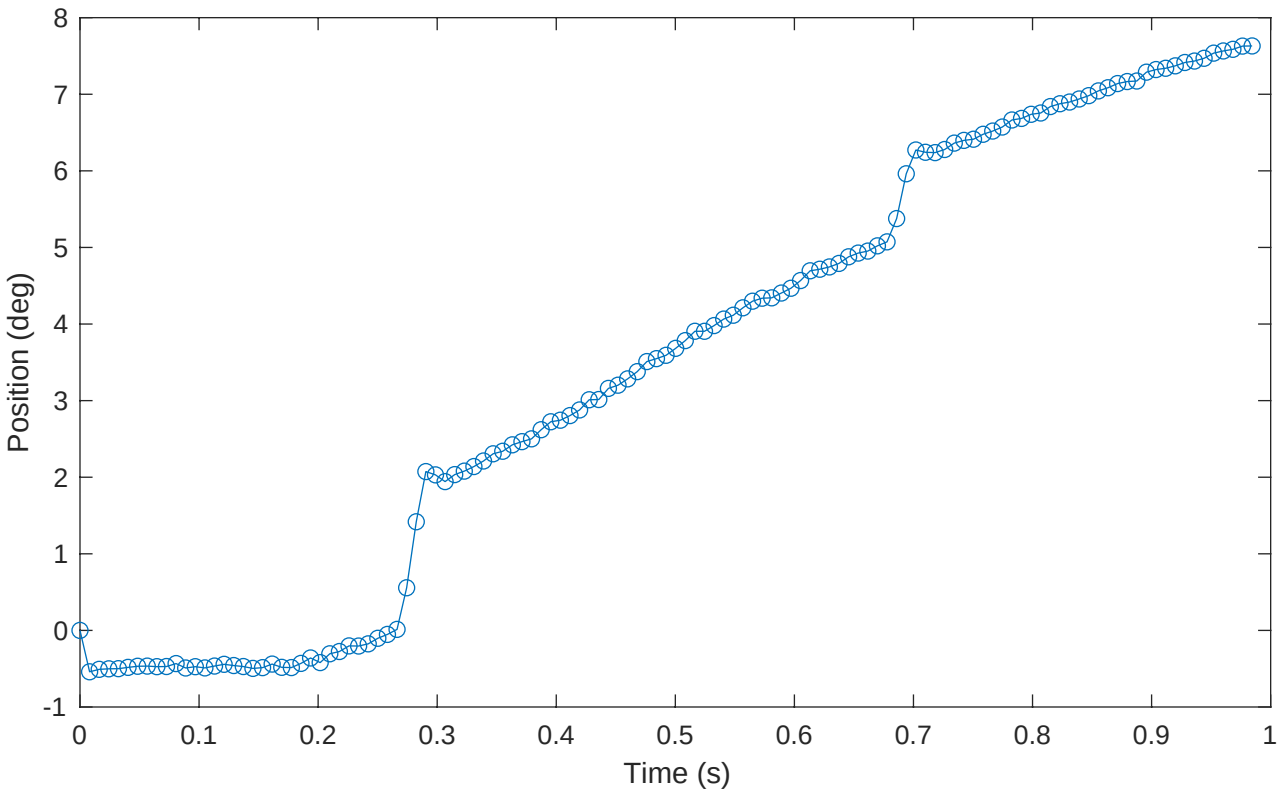

Filtered Position/Velocity: Trial 408 (External)
Position (deg)
Velocity (deg/s)
Time (s)
0
-2
-4
-6
-8
-10
-12
50
0
-50
-100
-150
-200
0
0.1
0.2
0.3
0.4
0.5
0.6
0.7
0.8
0.9
1
Externally Filtered Position
Externally Filtered Velocity

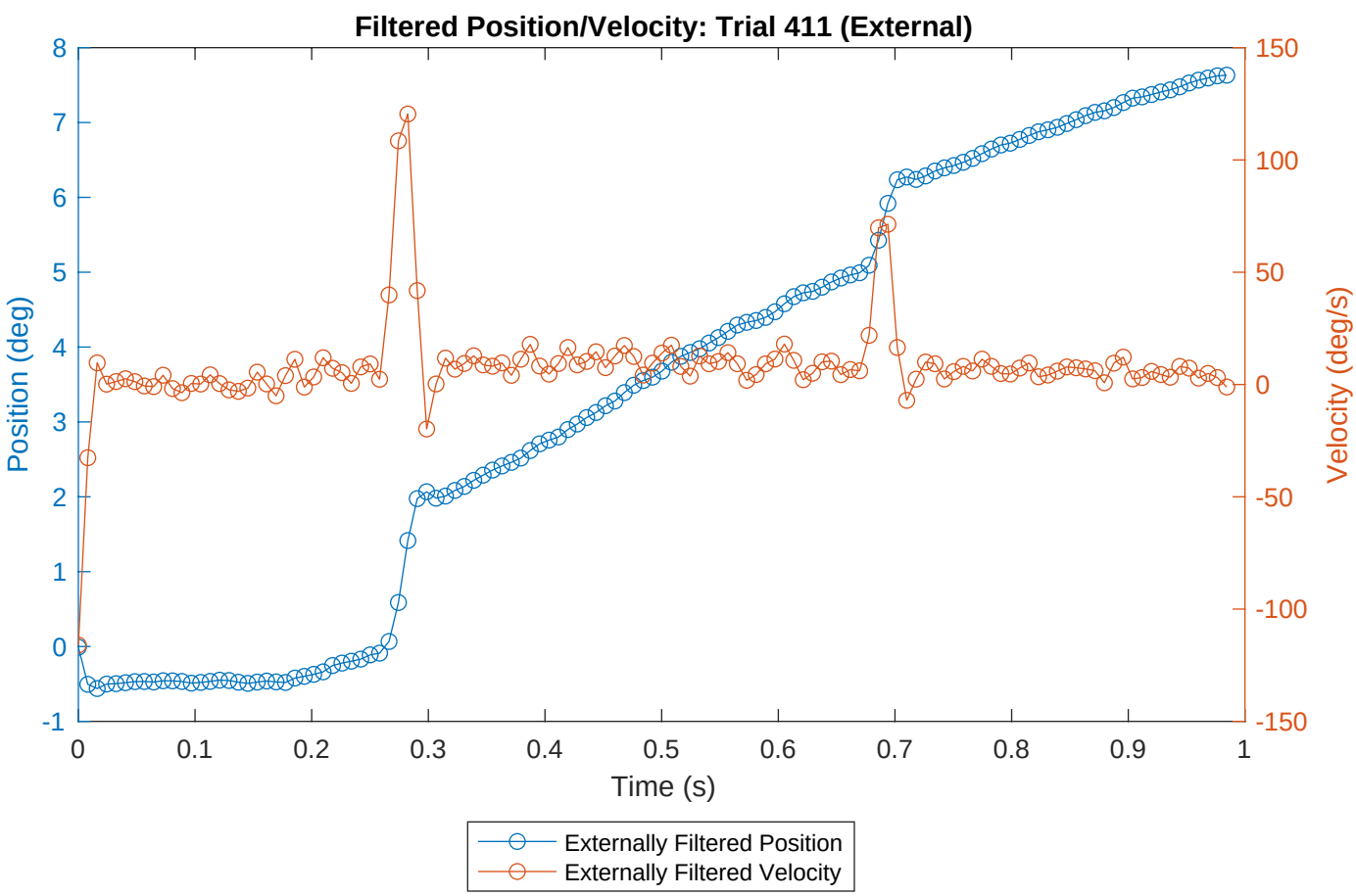

Position (deg)
Time (s)
0
-2
-4
-6
-8
-10
-12
0
0.1
0.2
0.3
0.4
0.5
0.6
0.7
0.8
0.9
1

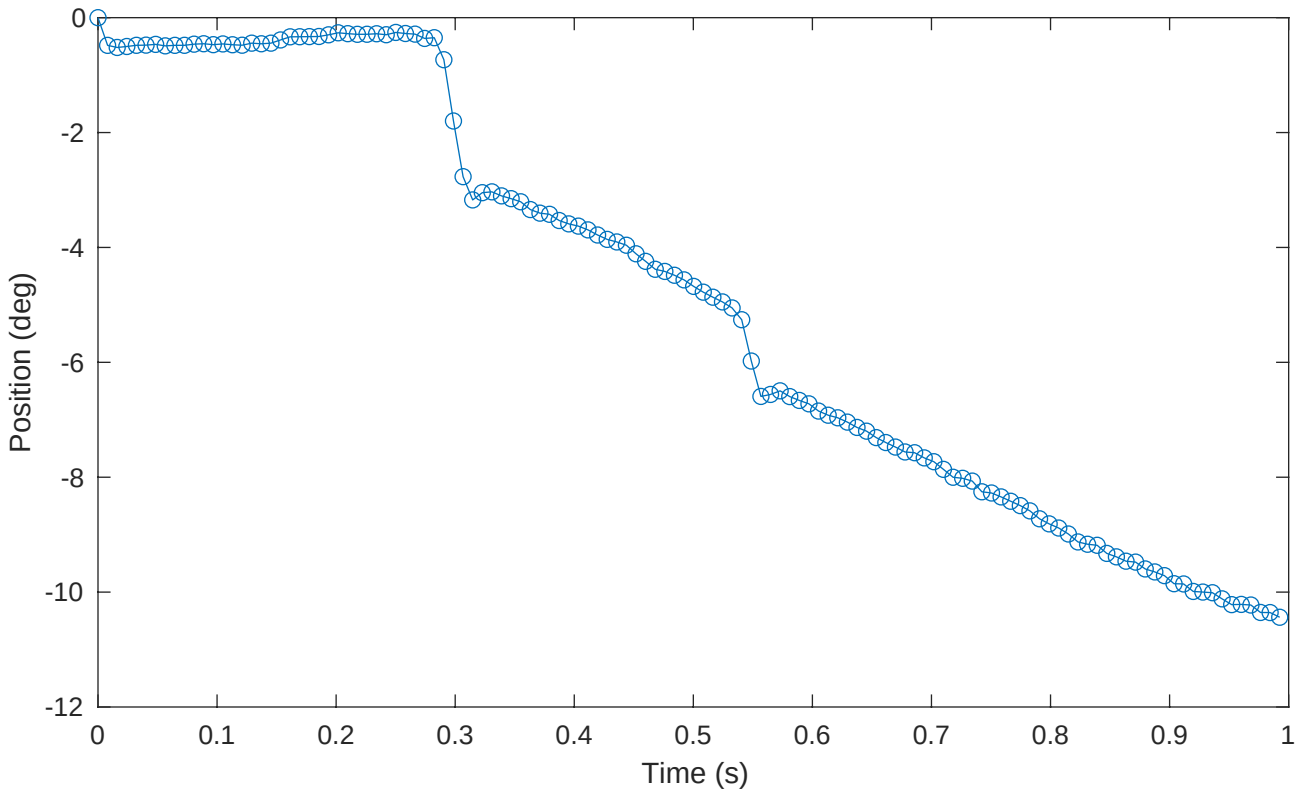

Filtered Position/Velocity: Trial 409 (External)
Position (deg)
Velocity (deg/s)
Time (s)
0
-2
-4
-6
-8
-10
-12
50
0
-50
-100
-150
-200
0
0.1
0.2
0.3
0.4
0.5
0.6
0.7
0.8
0.9
1
Externally Filtered Position
Externally Filtered Velocity

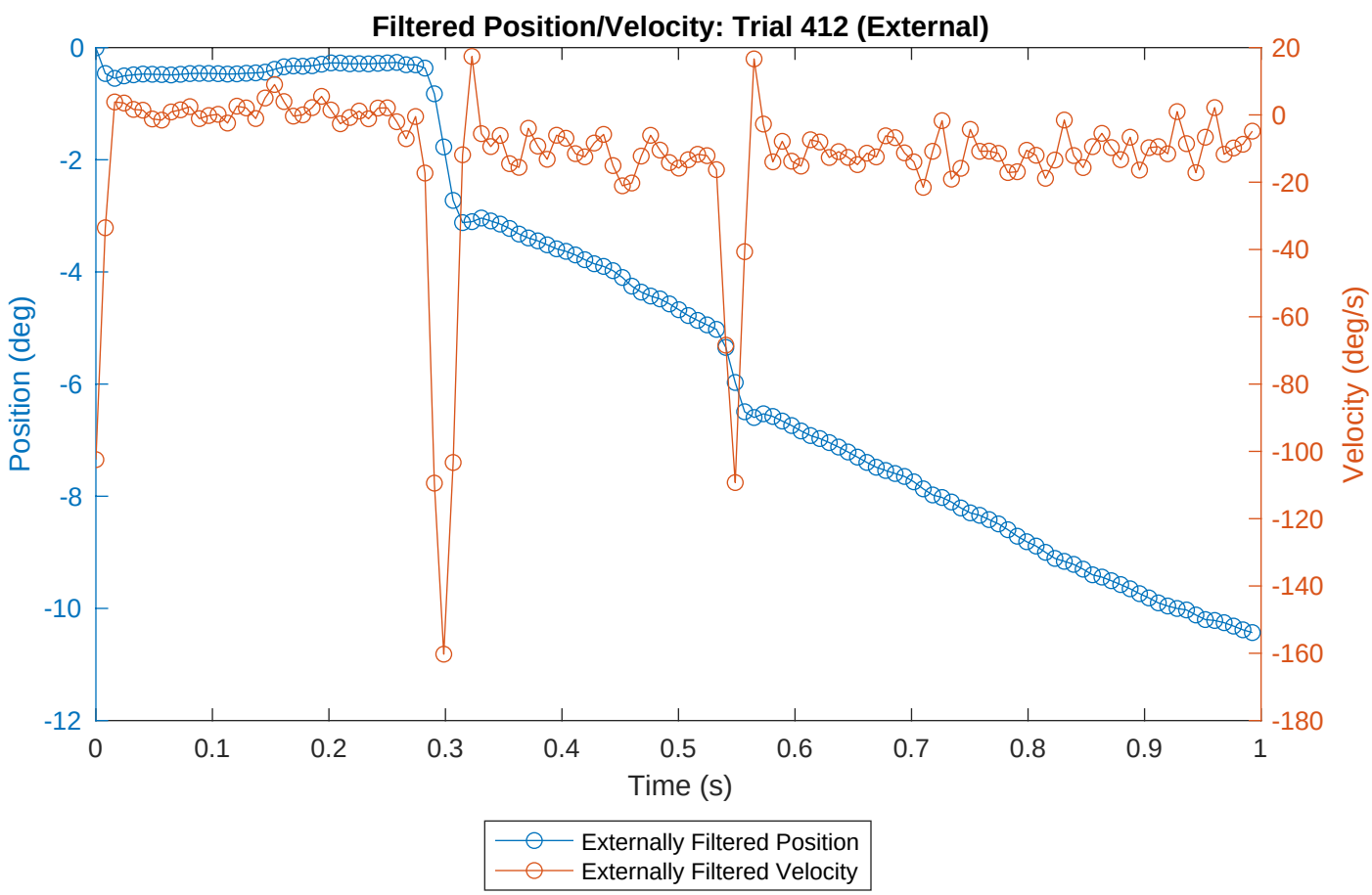

Position (deg)
Time (s)

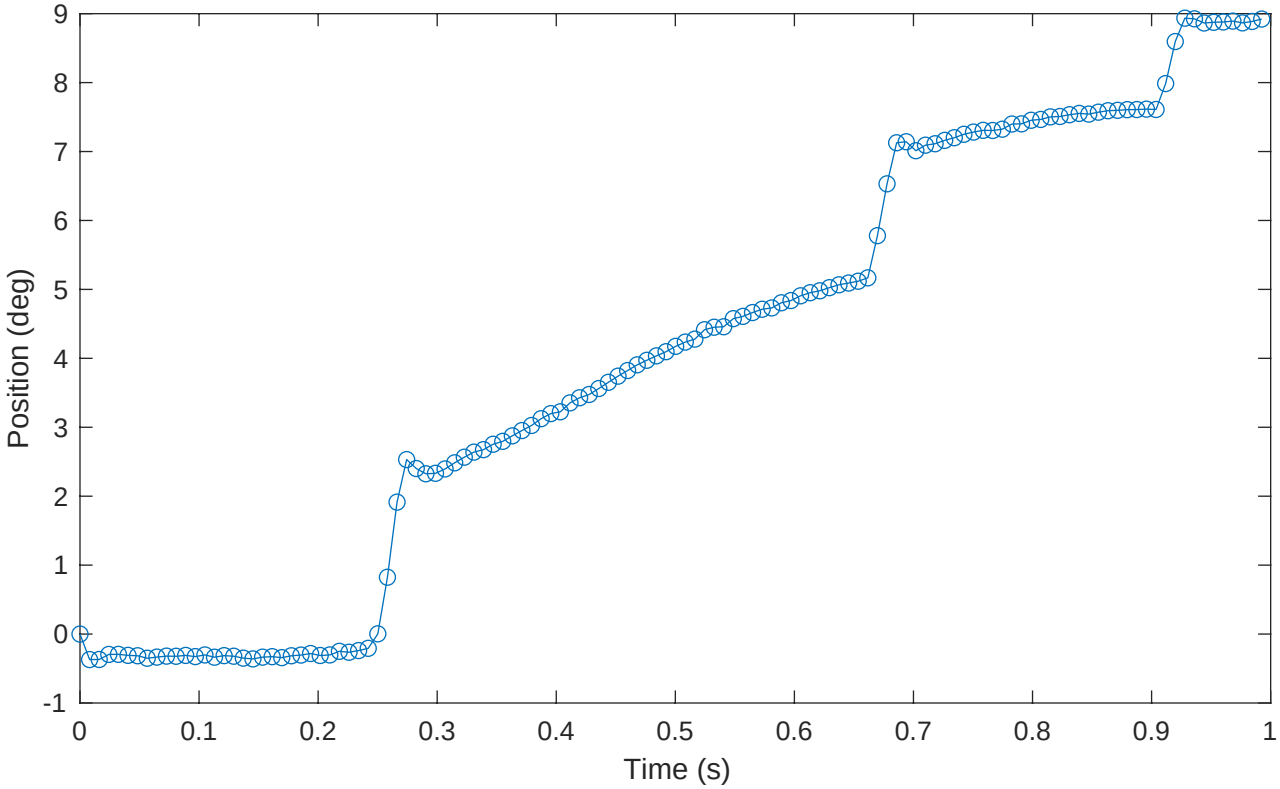

Filtered Position/Velocity: Trial 410 (External)
Position (deg)
Velocity (deg/s)
Time (s)
Externally Filtered Position
Externally Filtered Velocity

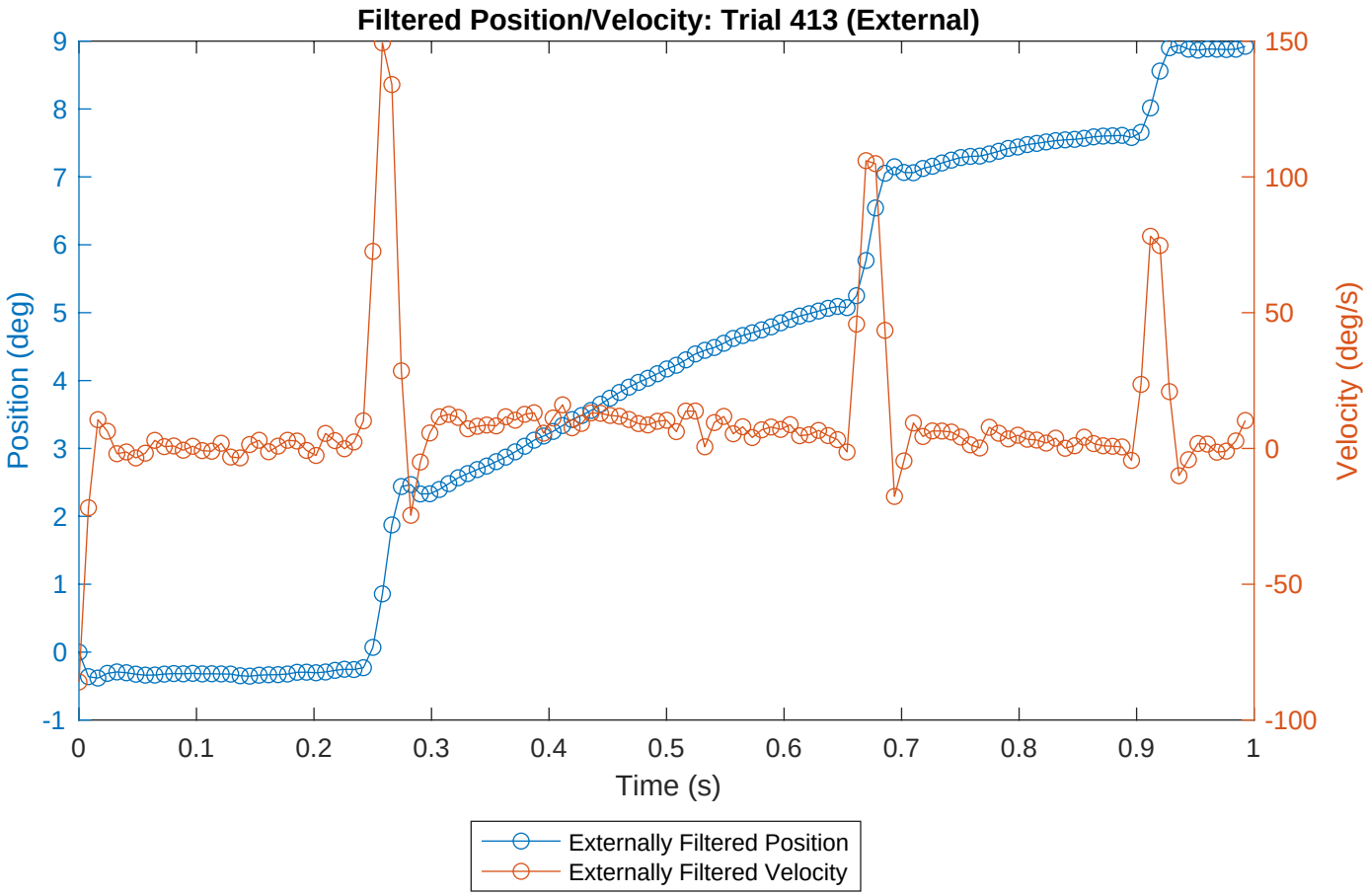

Position (deg)
Time (s)

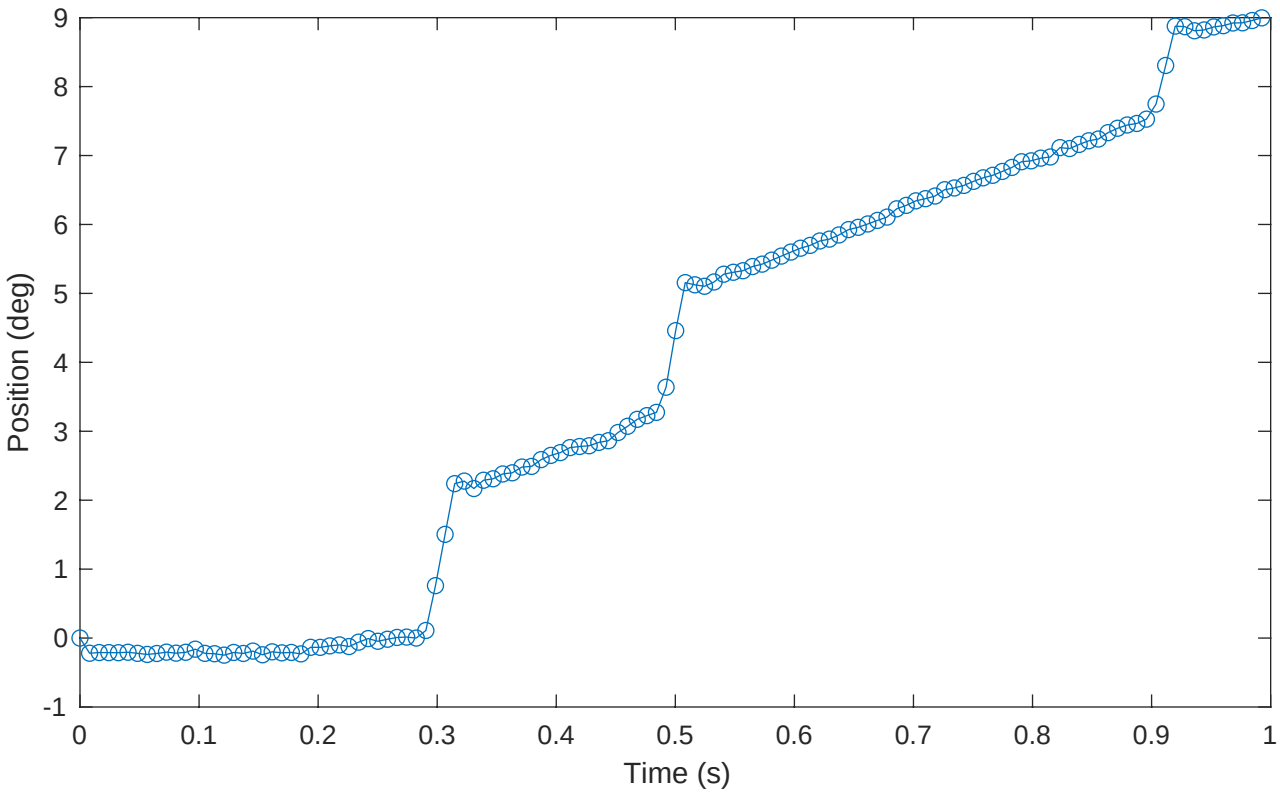

Filtered Position/Velocity: Trial 411 (External)
Position (deg)
Velocity (deg/s)
Time (s)
Externally Filtered Position
Externally Filtered Velocity

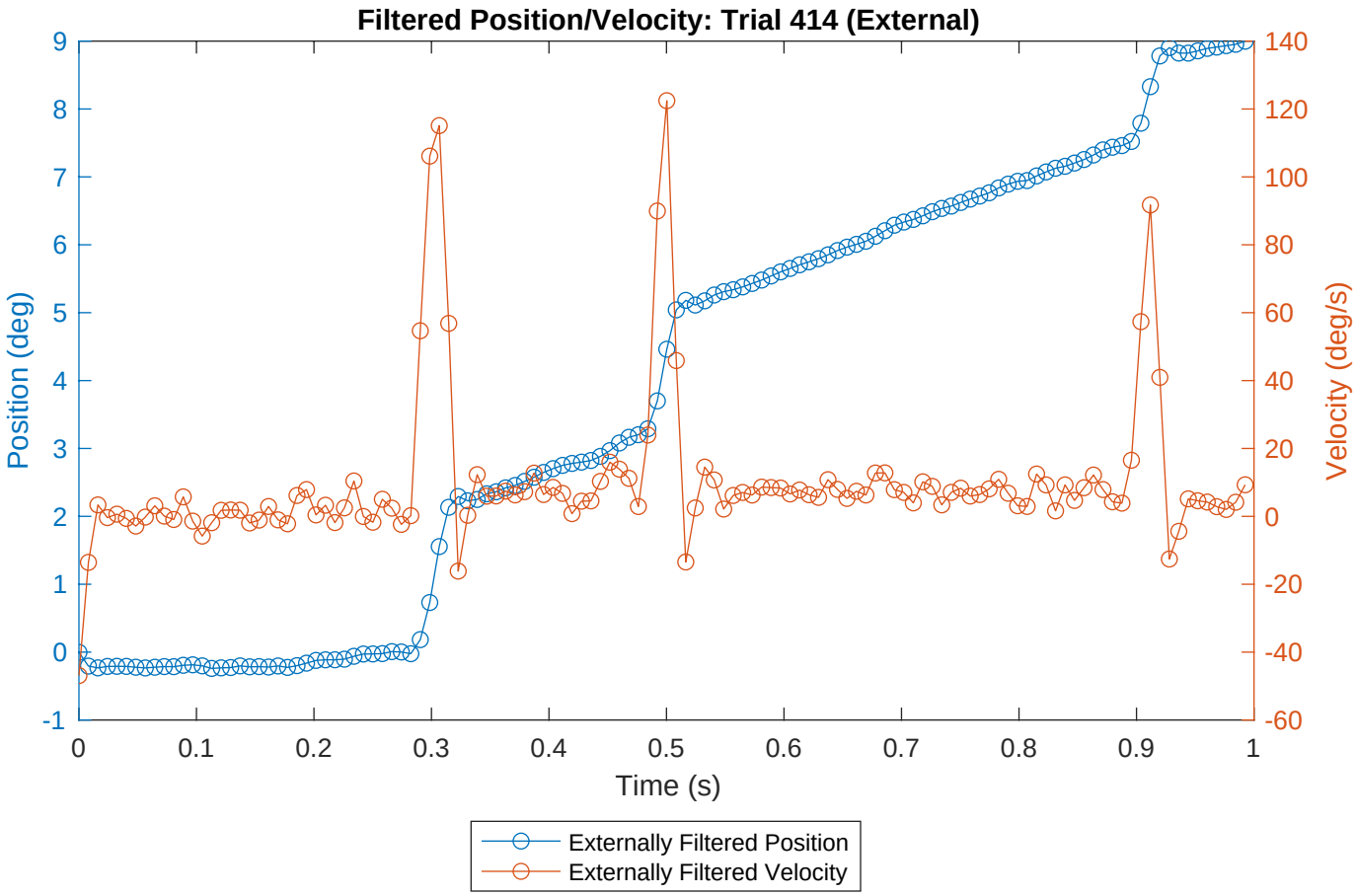

Position (deg)
Time (s)
0
-2
-4
-6
-8
-10
-12
0
0.1
0.2
0.3
0.4
0.5
0.6
0.7
0.8
0.9
1

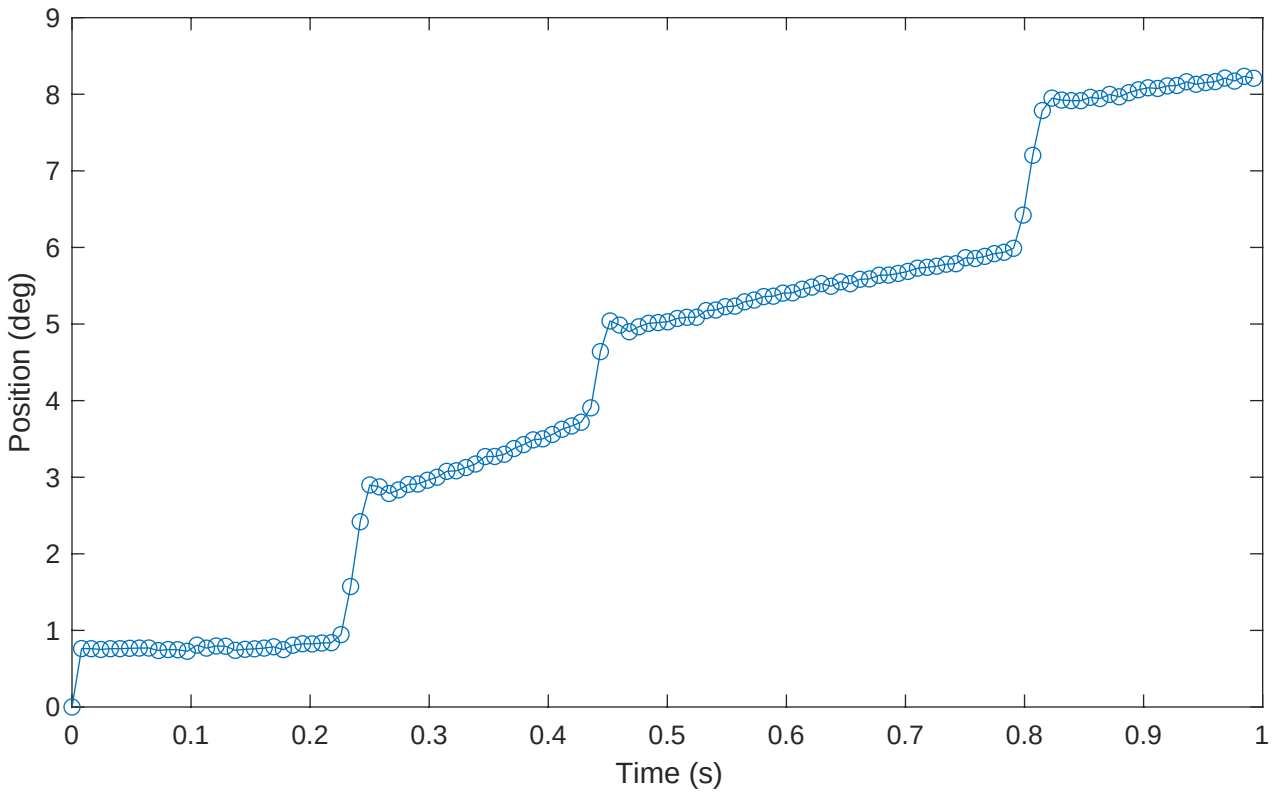

Filtered Position/Velocity: Trial 412 (External)
Position (deg)
Velocity (deg/s)
Time (s)
0
-2
-4
-6
-8
-10
-12
20
0
-20
-40
-60
-80
-100
-120
-140
-160
-180
0
0.1
0.2
0.3
0.4
0.5
0.6
0.7
0.8
0.9
1
Externally Filtered Position
Externally Filtered Velocity

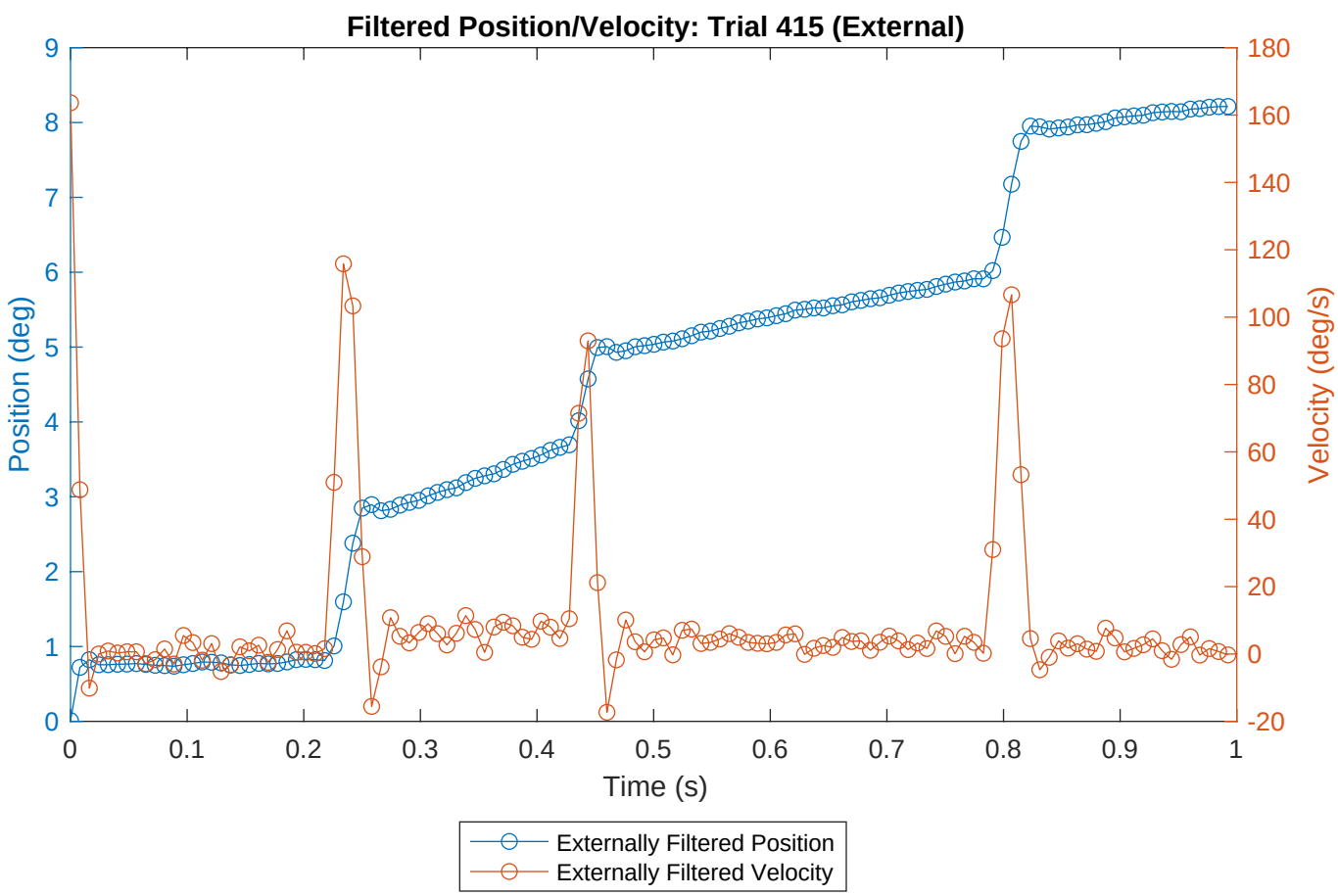

Position (deg)
Time (s)

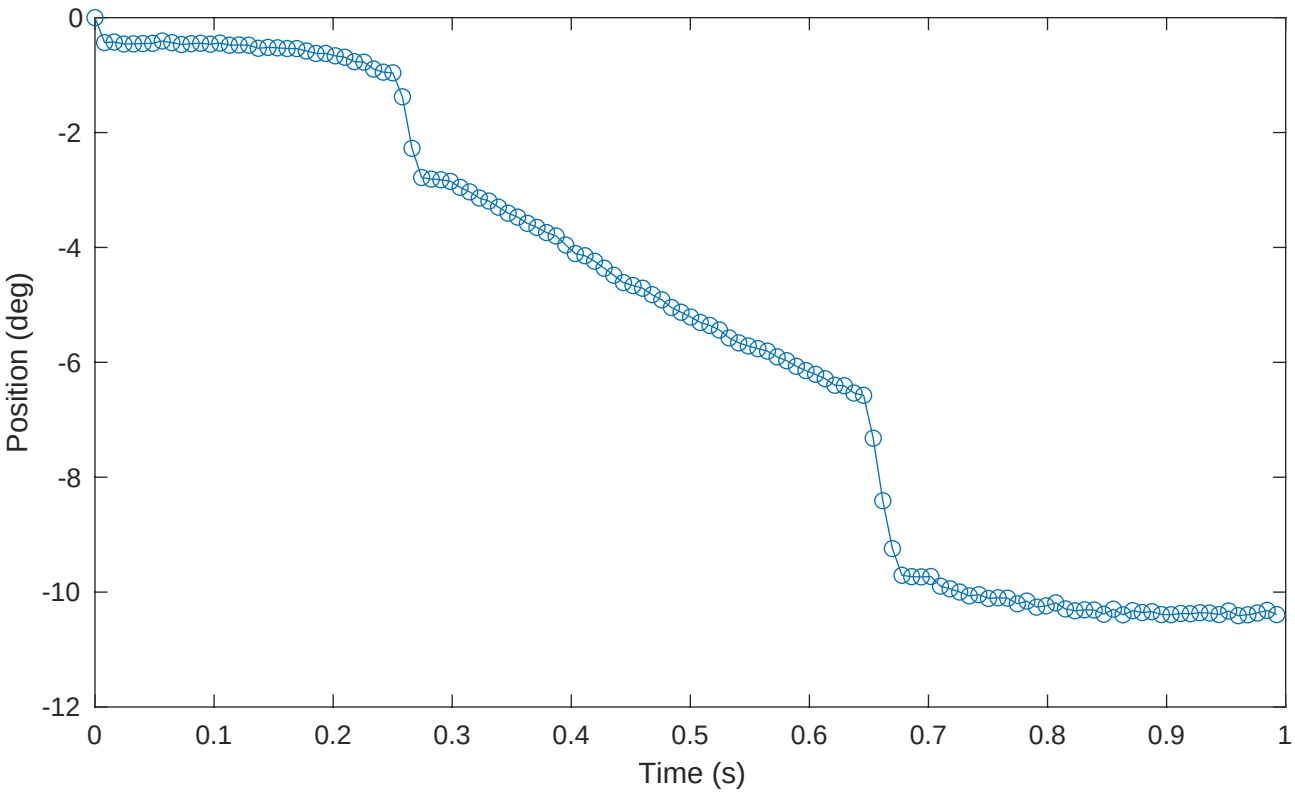

Filtered Position/Velocity: Trial 413 (External)
Position (deg)
Velocity (deg/s)
Time (s)
Externally Filtered Position
Externally Filtered Velocity

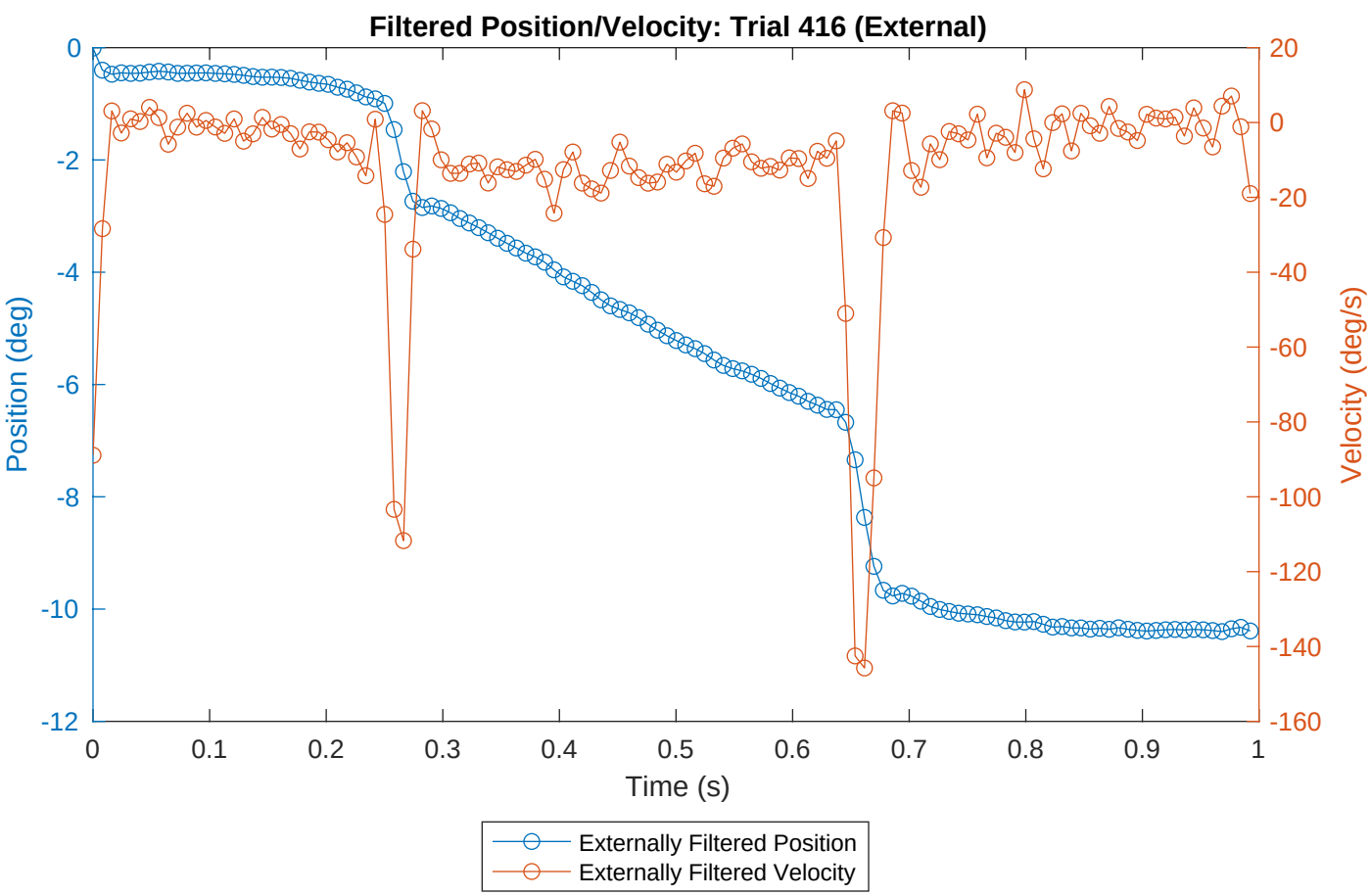

Position (deg)
Time (s)

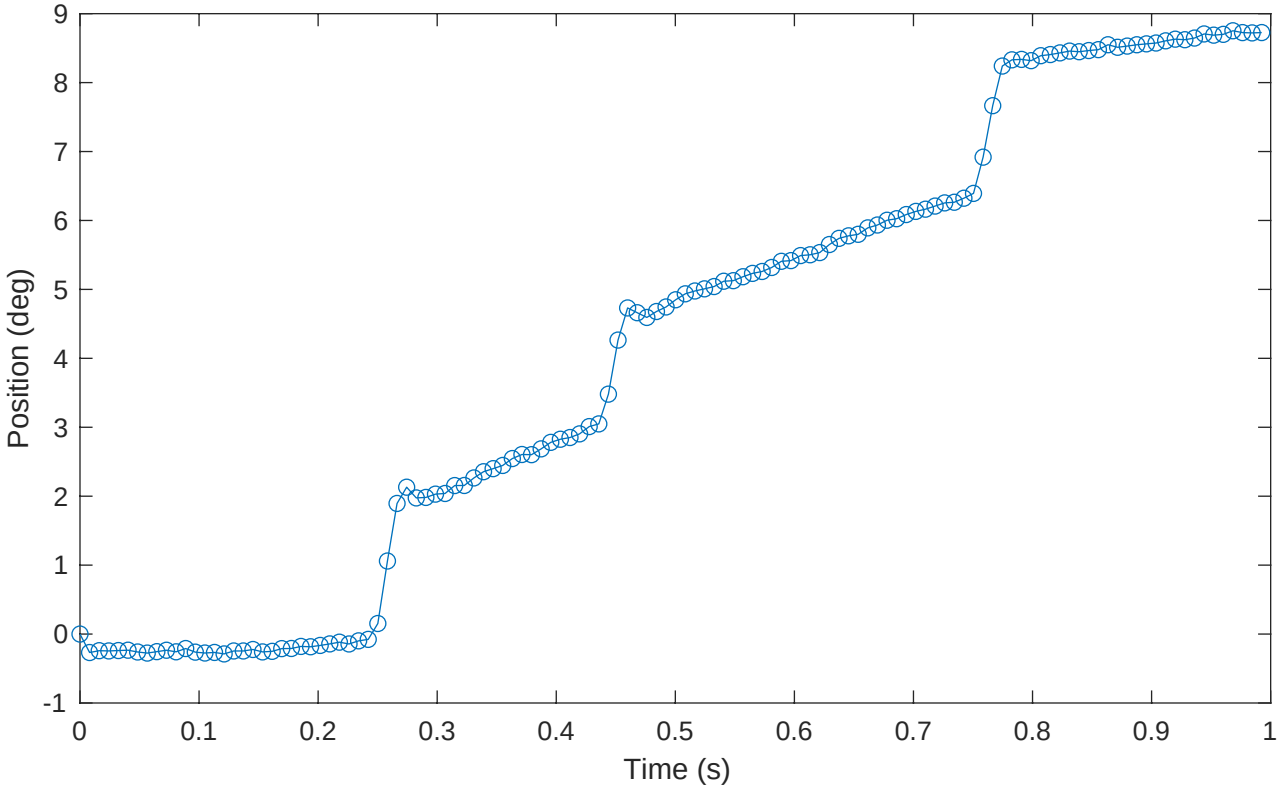

Filtered Position/Velocity: Trial 414 (External)
Position (deg)
Velocity (deg/s)
Time (s)
Externally Filtered Position
Externally Filtered Velocity

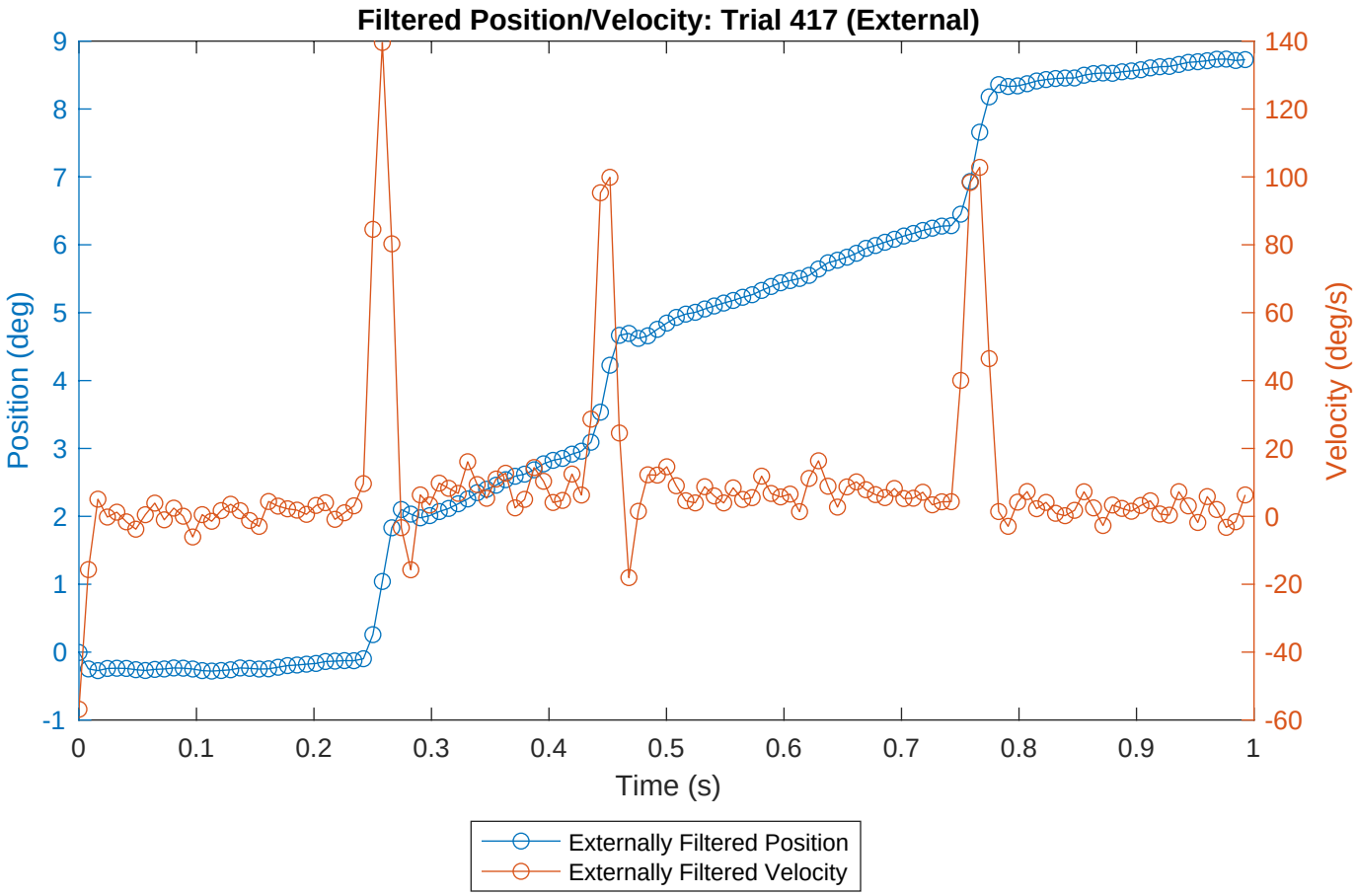

Position (deg)
Time (s)
0
1
2
3
4
5
6
7
8
9
0
0.1
0.2
0.3
0.4
0.5
0.6
0.7
0.8
0.9
1


Filtered Position/Velocity: Trial 415 (External)
Position (deg)
Velocity (deg/s)
Time (s)
Externally Filtered Position
Externally Filtered Velocity


Position (deg)
Time (s)
0
-2
-4
-6
-8
-10
-12
0
0.1
0.2
0.3
0.4
0.5
0.6
0.7
0.8
0.9
1


Filtered Position/Velocity: Trial 416 (External)
Position (deg)
Velocity (deg/s)
Time (s)
0
-2
-4
-6
-8
-10
-12
20
0
-20
-40
-60
-80
-100
-120
-140
-160
0
0.1
0.2
0.3
0.4
0.5
0.6
0.7
0.8
0.9
1
Externally Filtered Position
Externally Filtered Velocity


Position (deg)
Time (s)


Filtered Position/Velocity: Trial 417 (External)
Position (deg)
Velocity (deg/s)
Time (s)
Externally Filtered Position
Externally Filtered Velocity