

Path Following Test - Annex A

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In this Document we show the output trajectories of the vehicles in the "Path Following Test", with their lateral deviation from the target path.

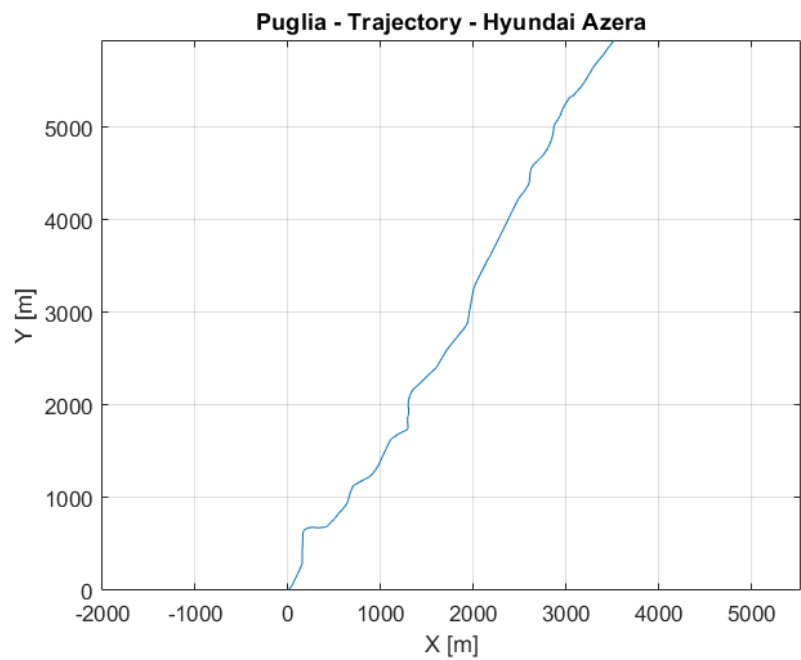
We take into account 13 scenarios, each simulated with 5 different vehicles at constant speed.

Scenario	Speed [km/h]	Distance [m]
Puglia	40	7240
Switzerland	15	2142
Straight Slow	10	1000
Tilted Straight Slow	10	1414
Campania	30	7027
Straight Fast	100	1000
Tilted Straight Fast	100	1414
1000m radius Curve Slow	20	4712
100m radius Curve Slow	10	471
1000m radius Curve Fast	100	4712
100m radius Curve Fast	100	471
Adriatic Highway A14	100	7641
Indianapolis Speedway	100	4070

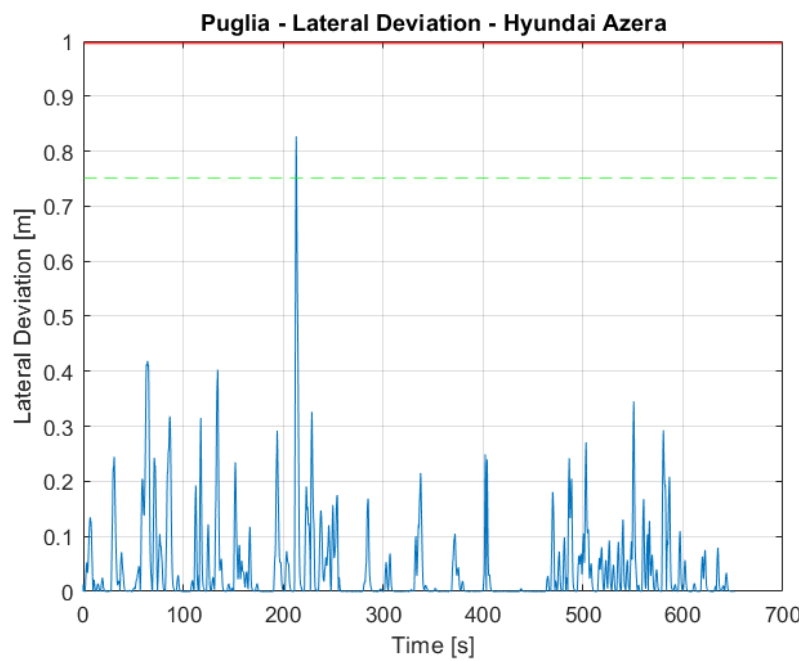
1 Hyundai Azera

1.1 Puglia

Trajectory

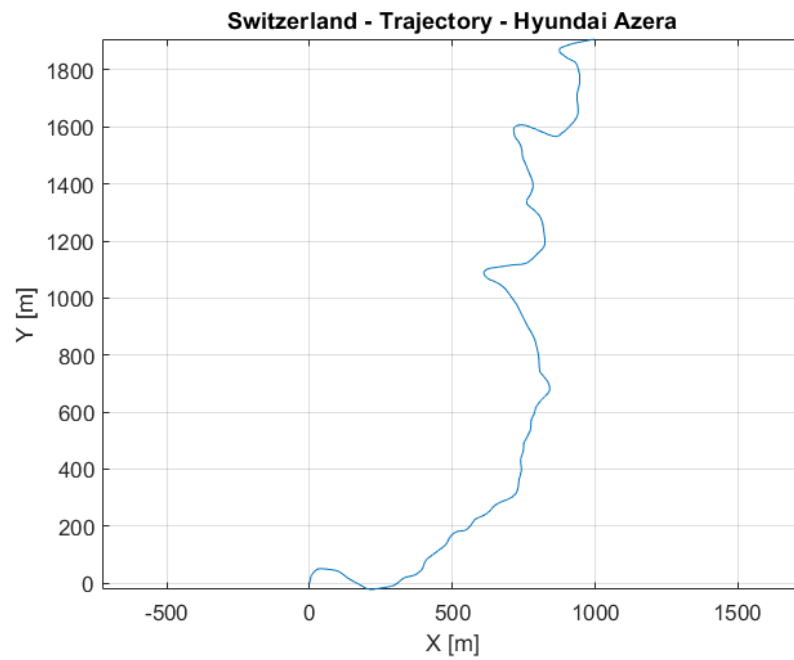


Lateral Deviation

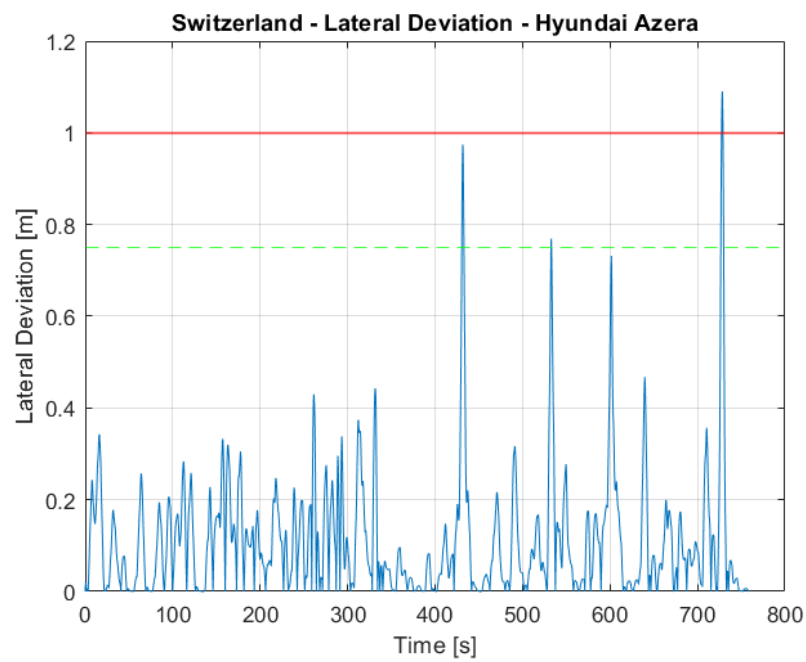


1.2 Switzerland

Trajectory

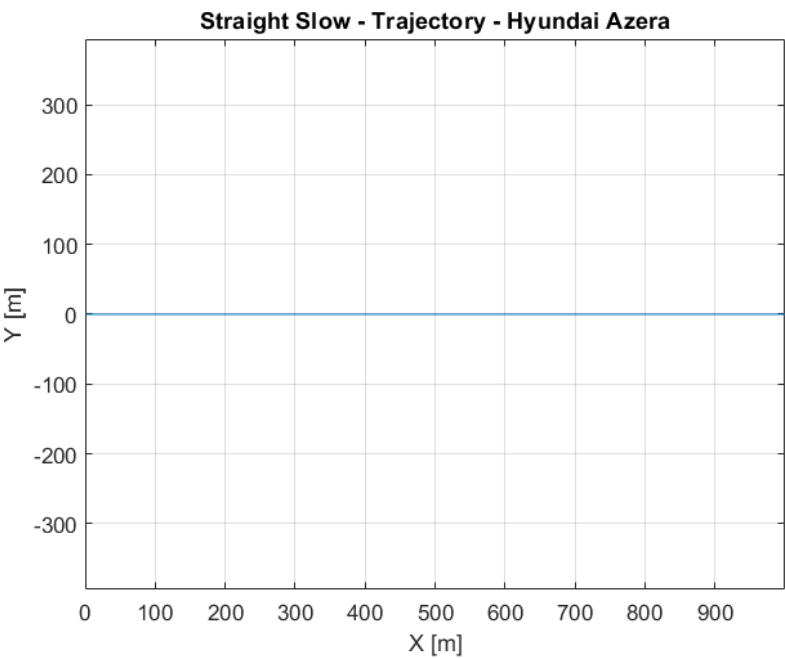


Lateral Deviation

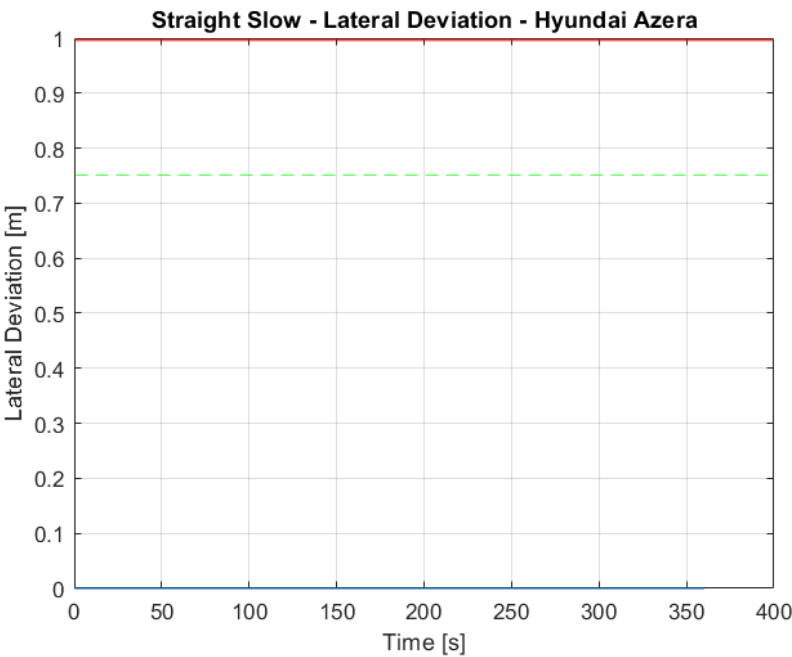


1.3 Straight Slow

Trajectory

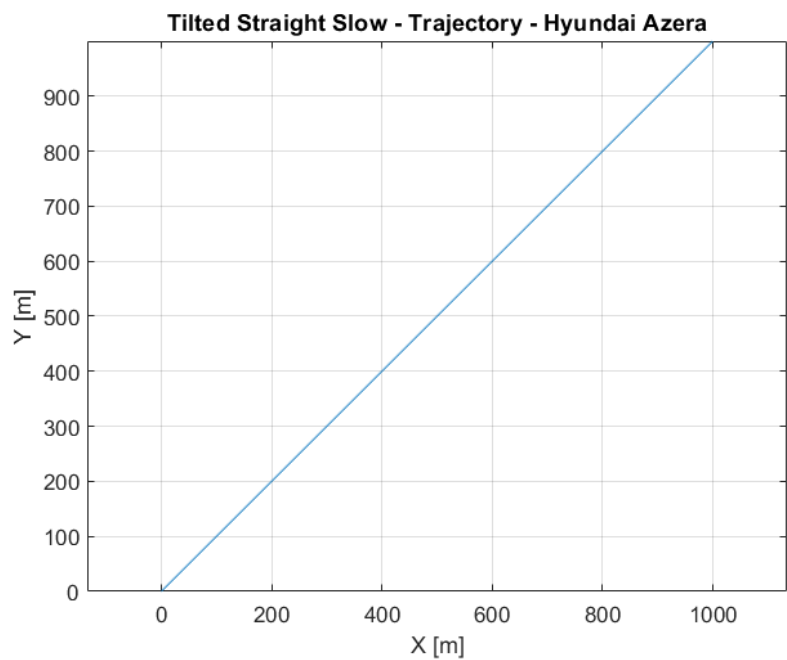


Lateral Deviation

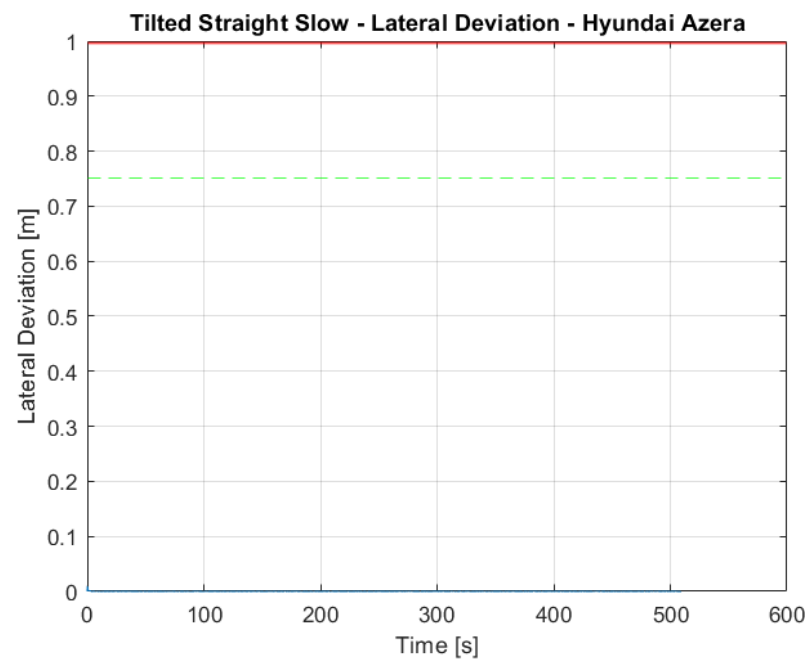


1.4 Tilted Straight Slow

Trajectory

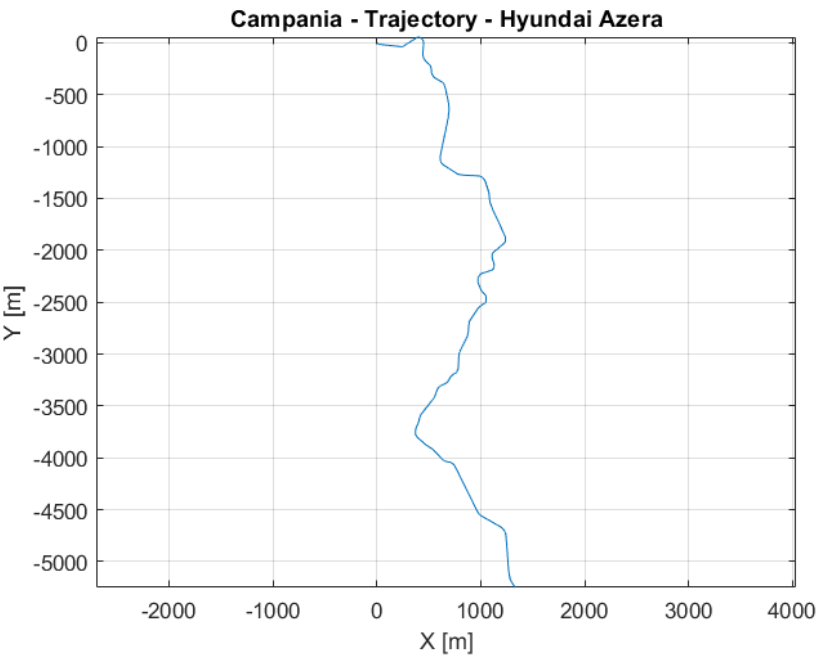


Lateral Deviation

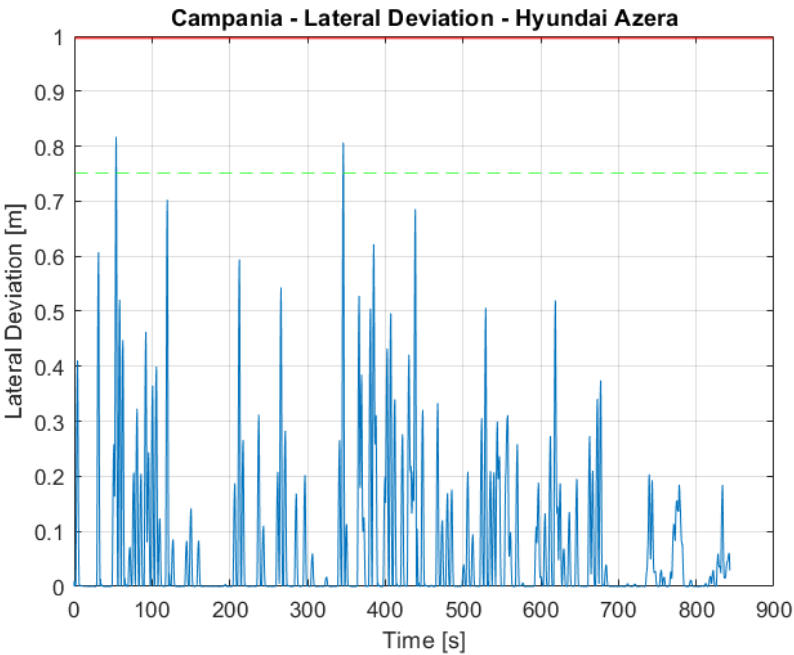


1.5 Campania

Trajectory

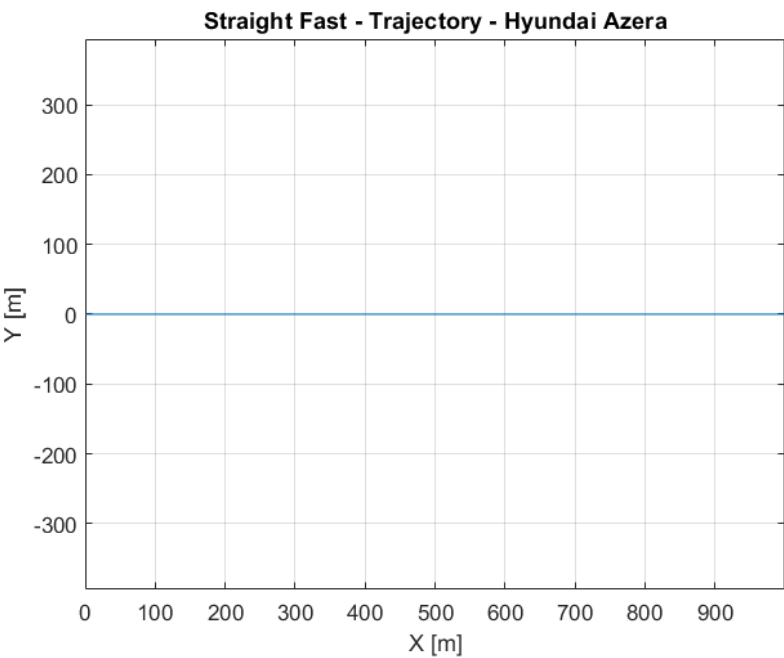


Lateral Deviation

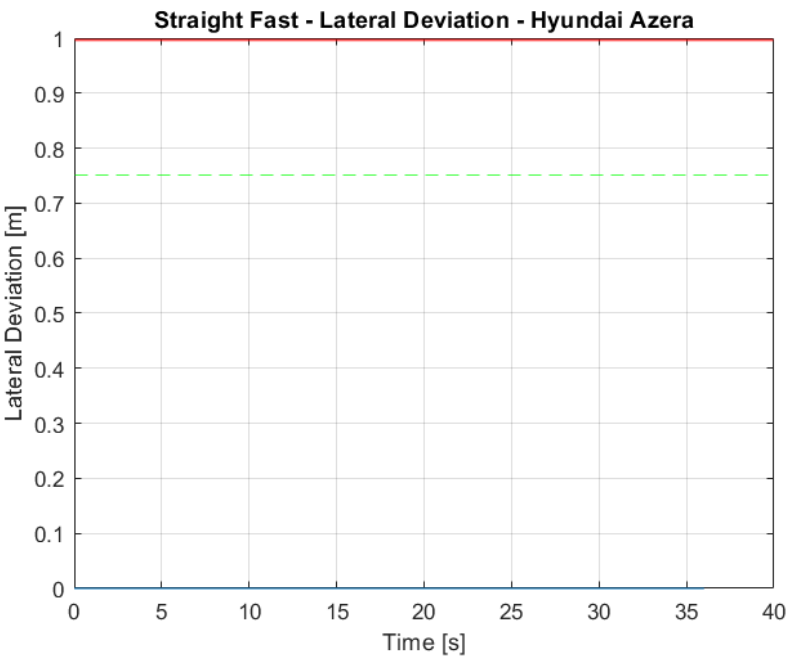


1.6 Straight Fast

Trajectory

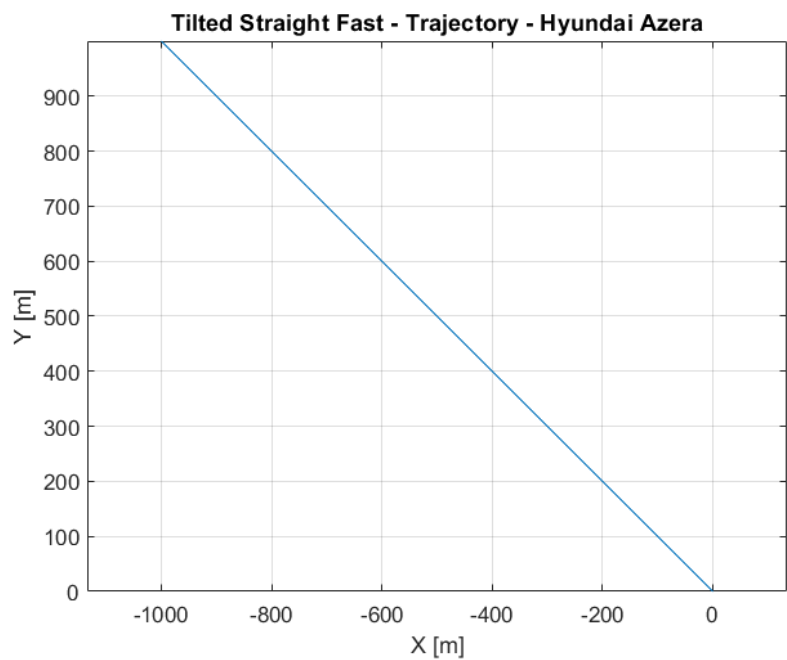


Lateral Deviation

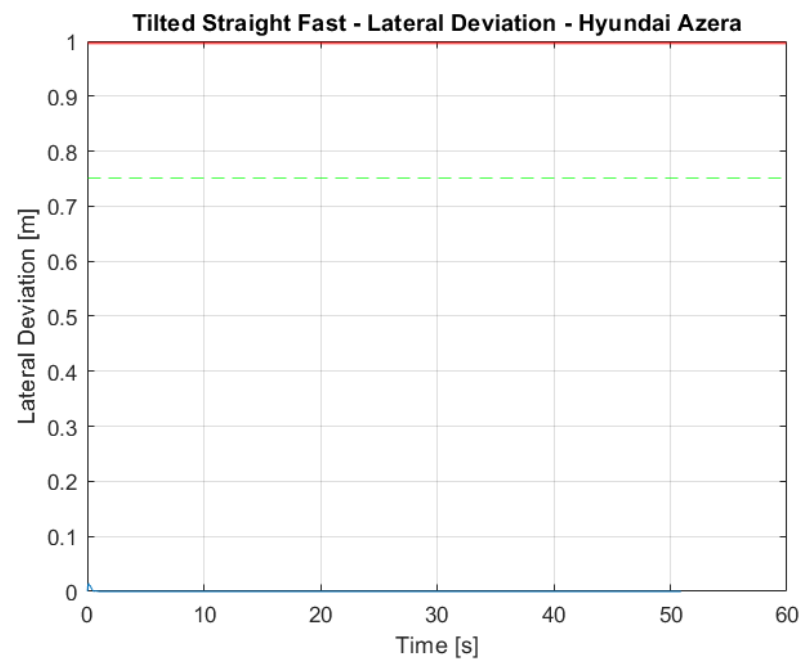


1.7 Tilted Straight Fast

Trajectory

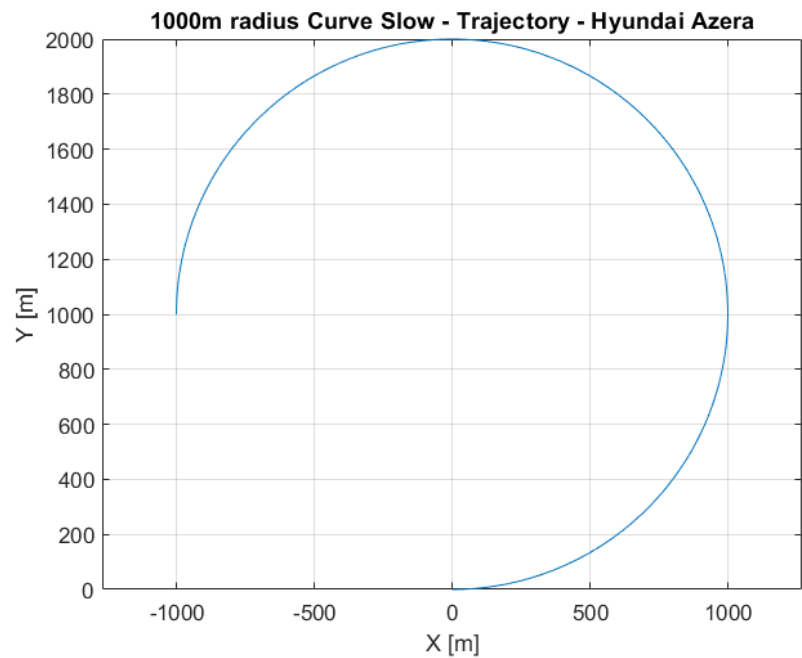


Lateral Deviation

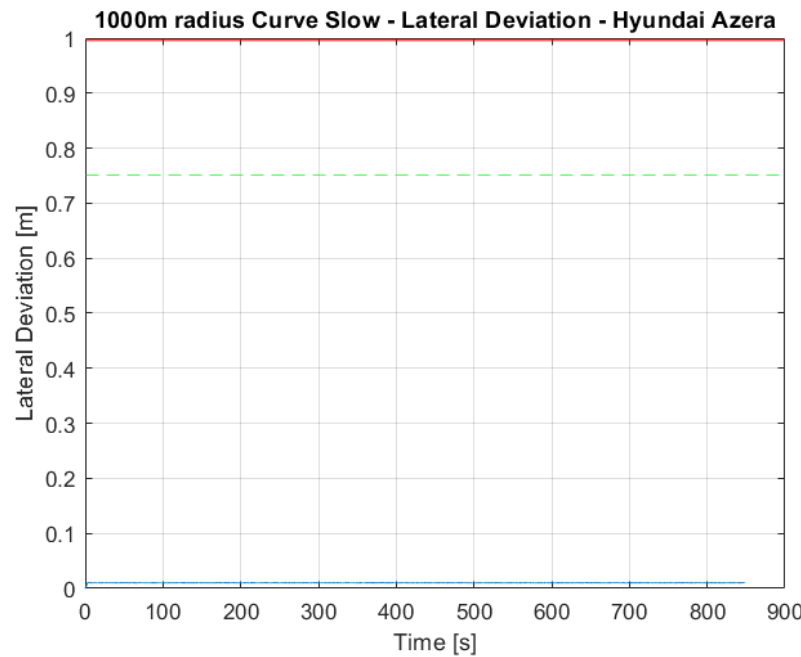


1.8 1000m radius Curve Slow

Trajectory

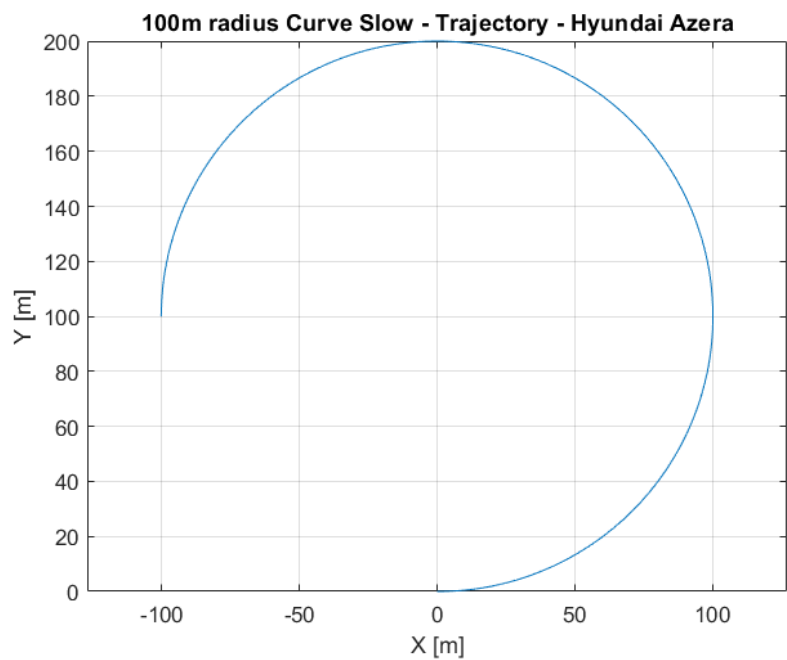


Lateral Deviation

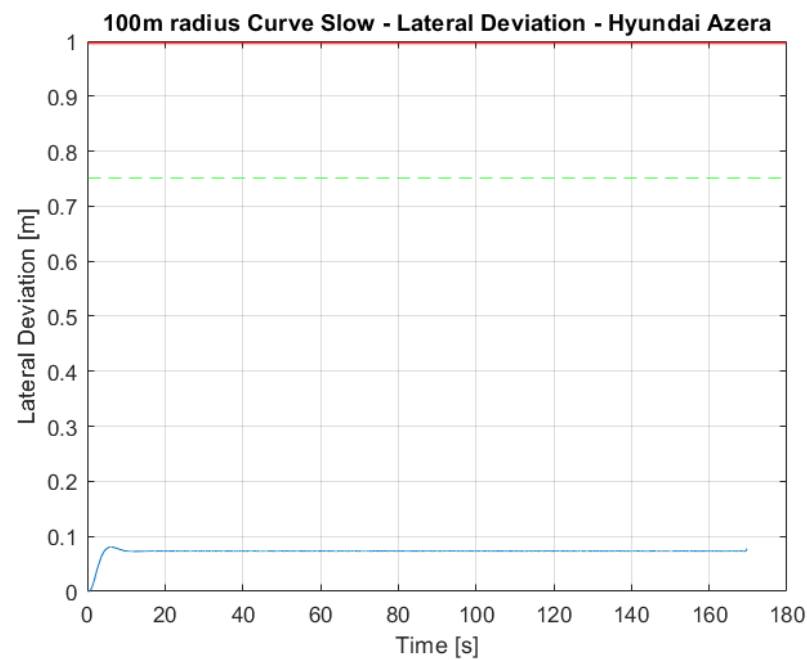


1.9 100m radius Curve Slow

Trajectory

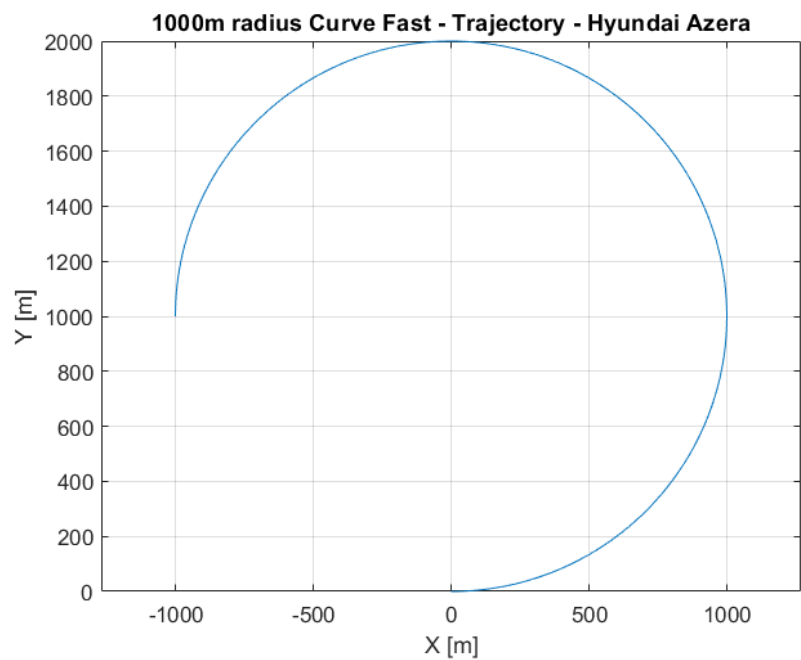


Lateral Deviation

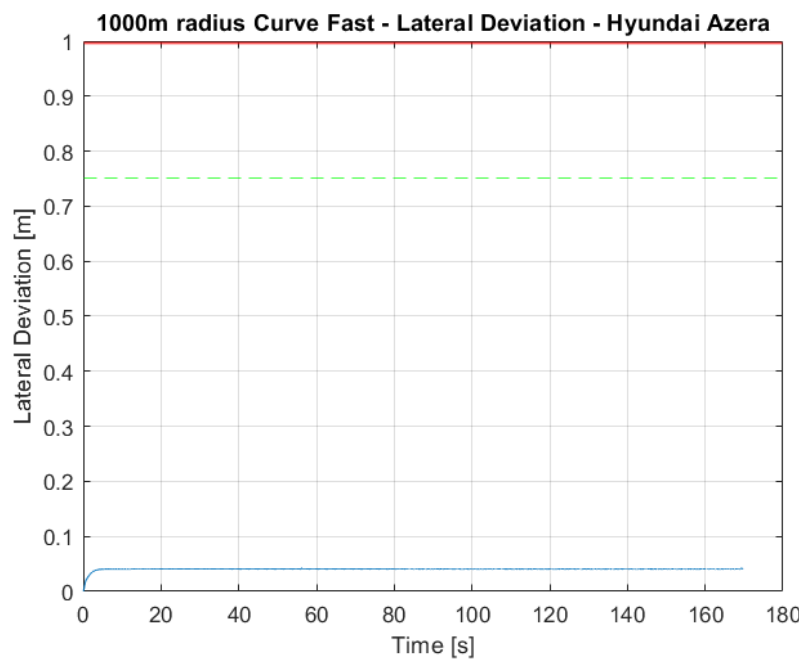


1.10 1000m radius Curve Fast

Trajectory

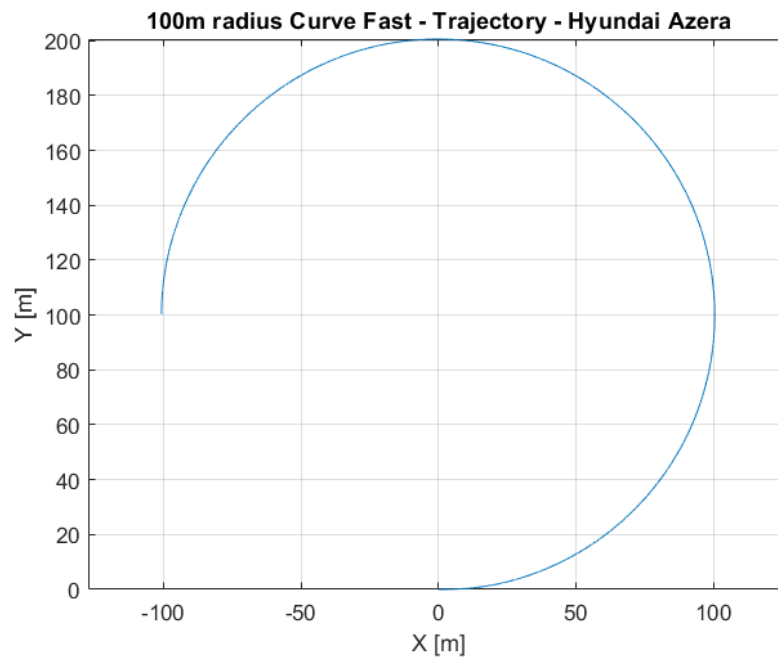


Lateral Deviation

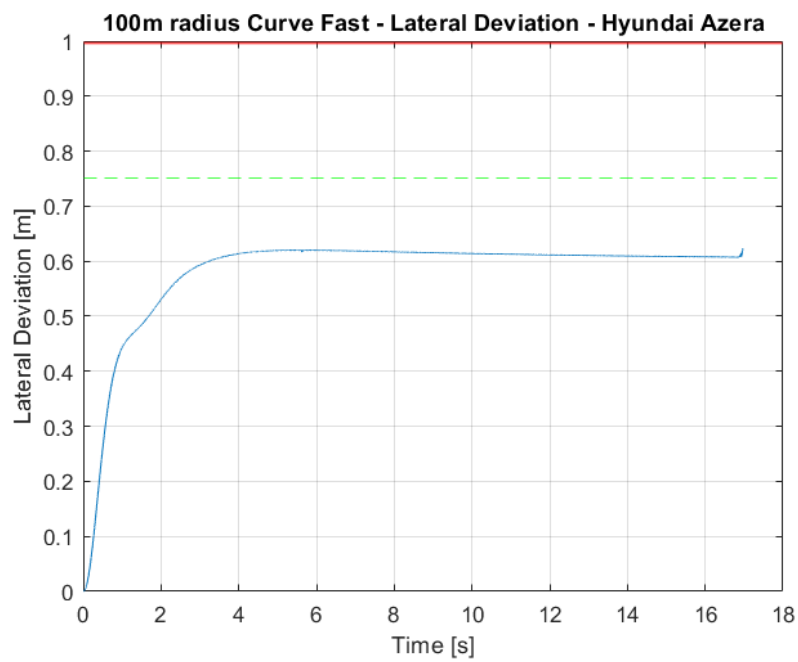


1.11 100m radius Curve Fast

Trajectory

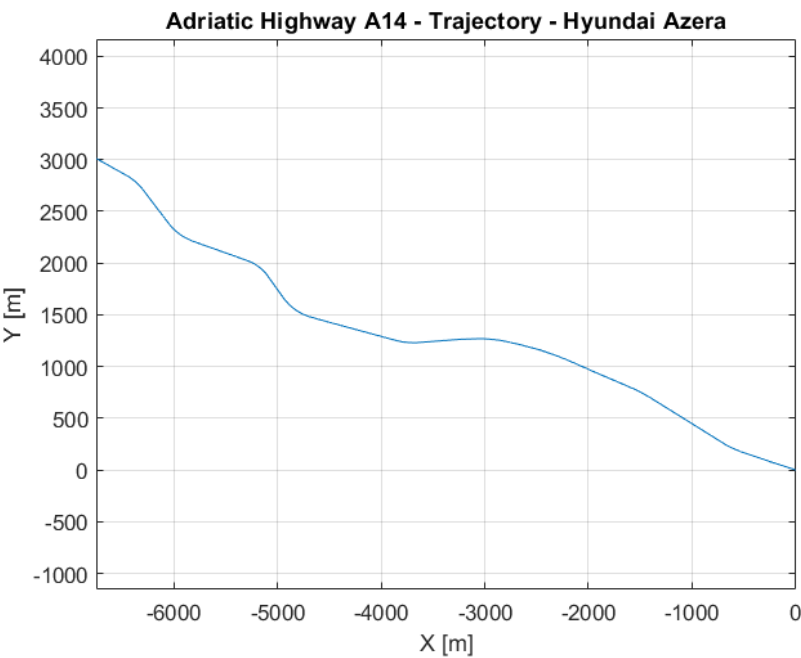


Lateral Deviation

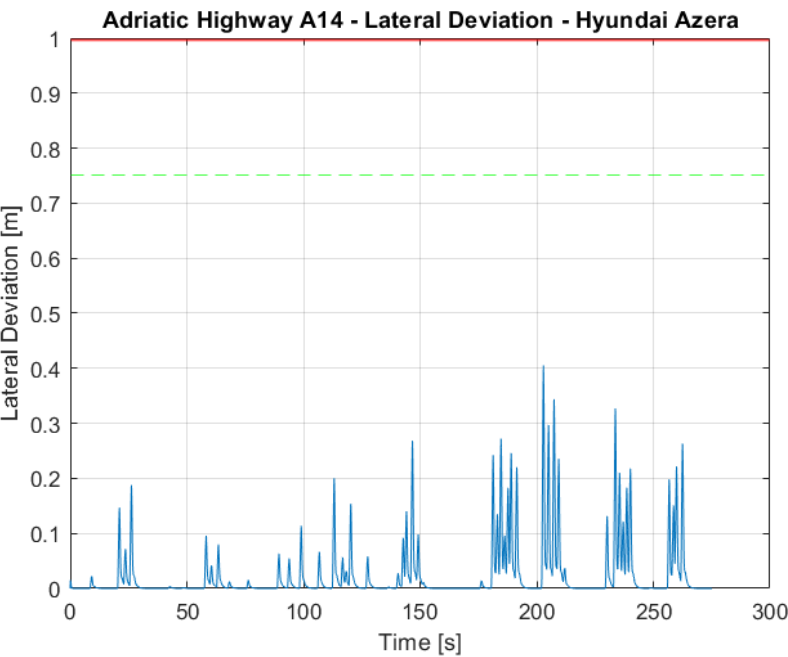


1.12 Adriatic Highway A14

Trajectory

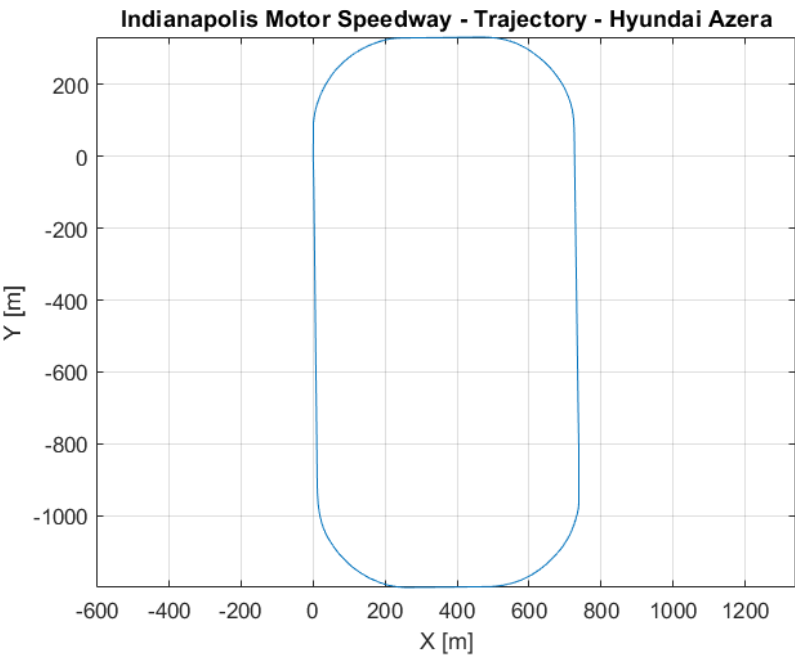


Lateral Deviation

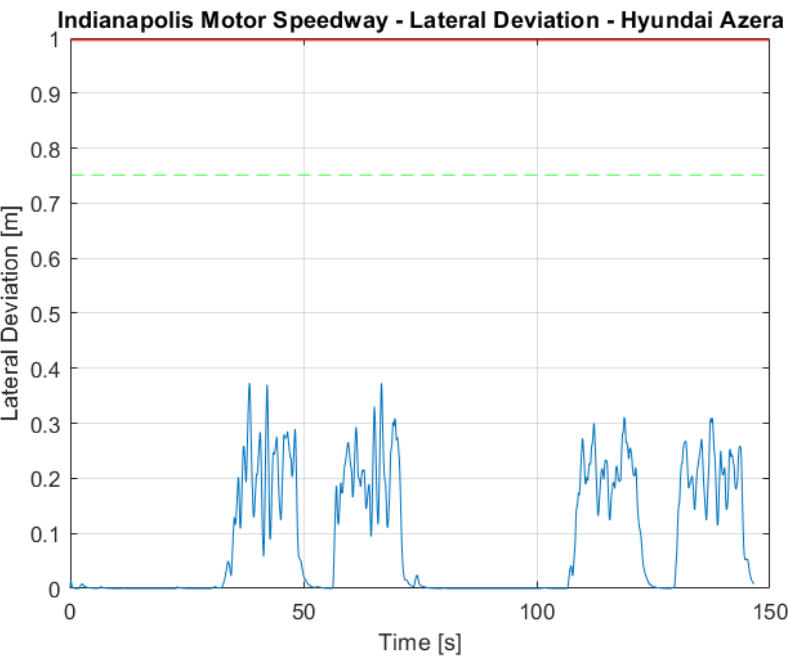


1.13 Indianapolis Motor Speedway

Trajectory



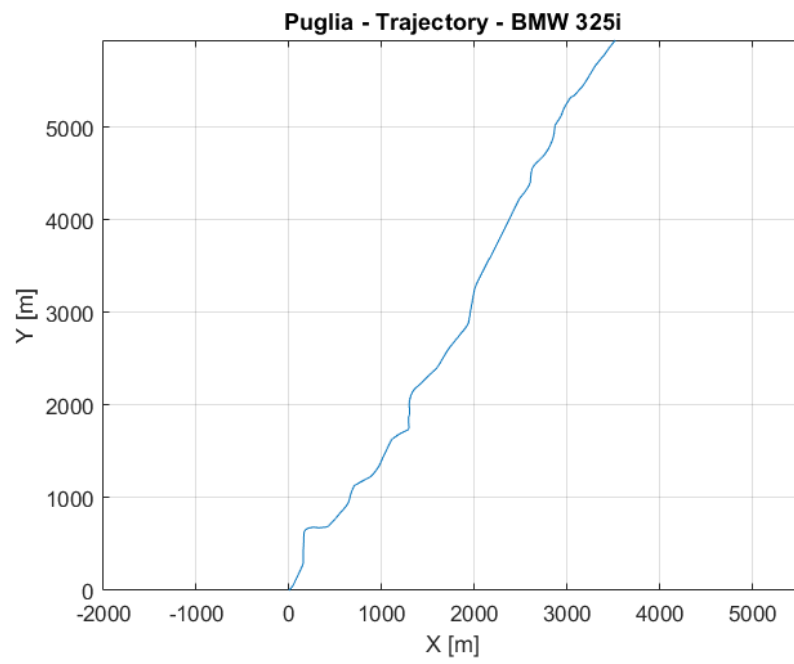
Lateral Deviation



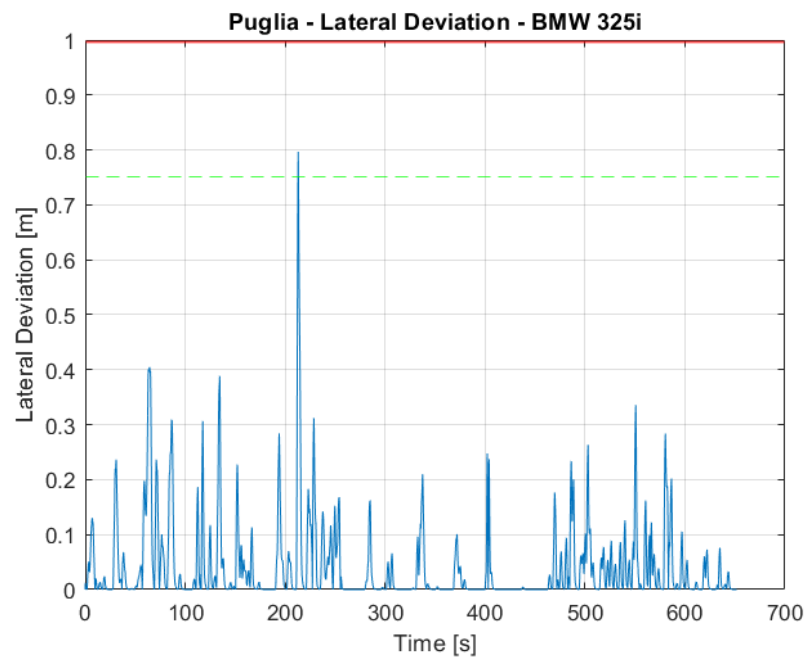
2 BMW 325i

2.1 Puglia

Trajectory

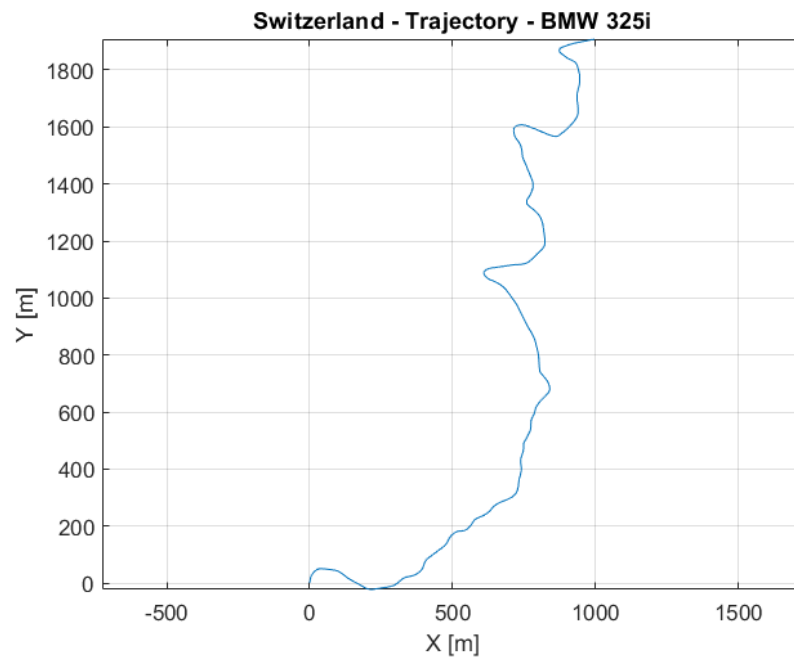


Lateral Deviation

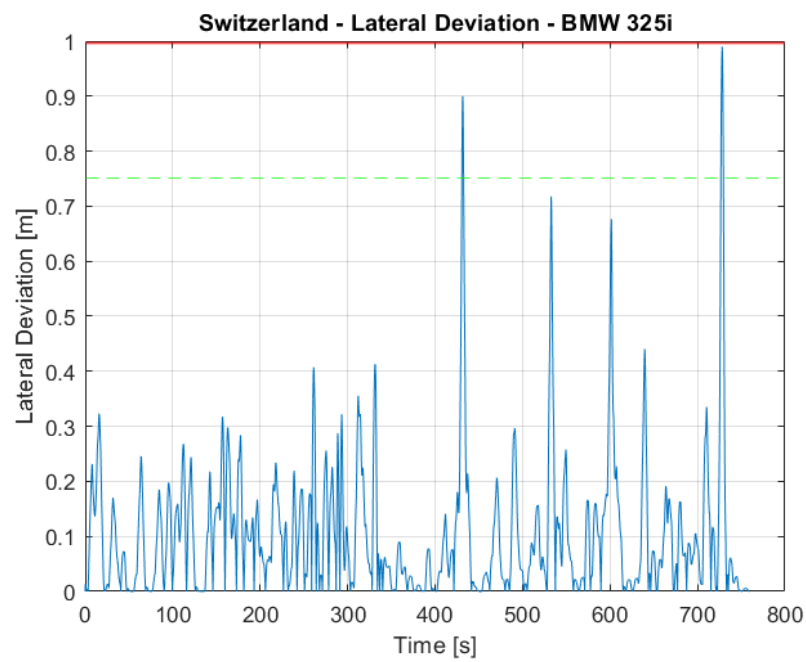


2.2 Switzerland

Trajectory

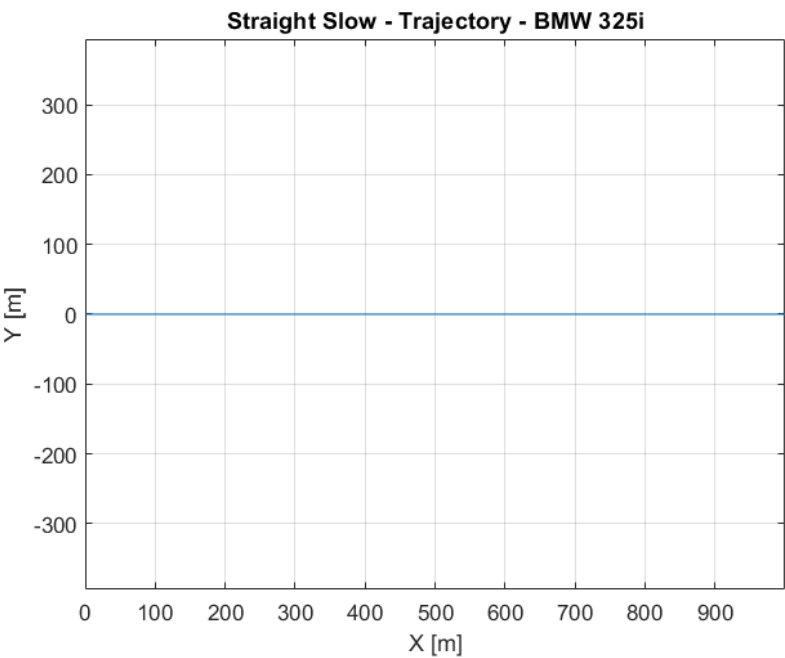


Lateral Deviation

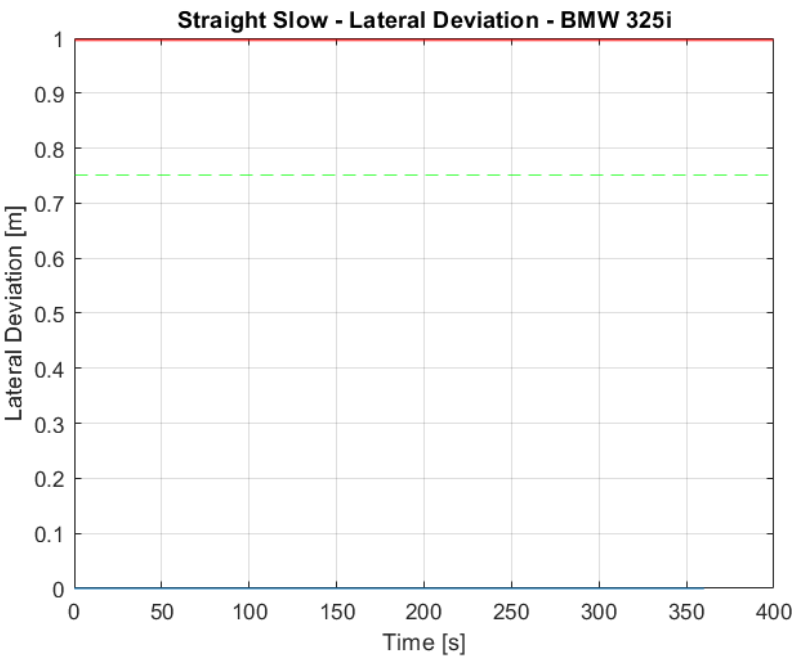


2.3 Straight Slow

Trajectory

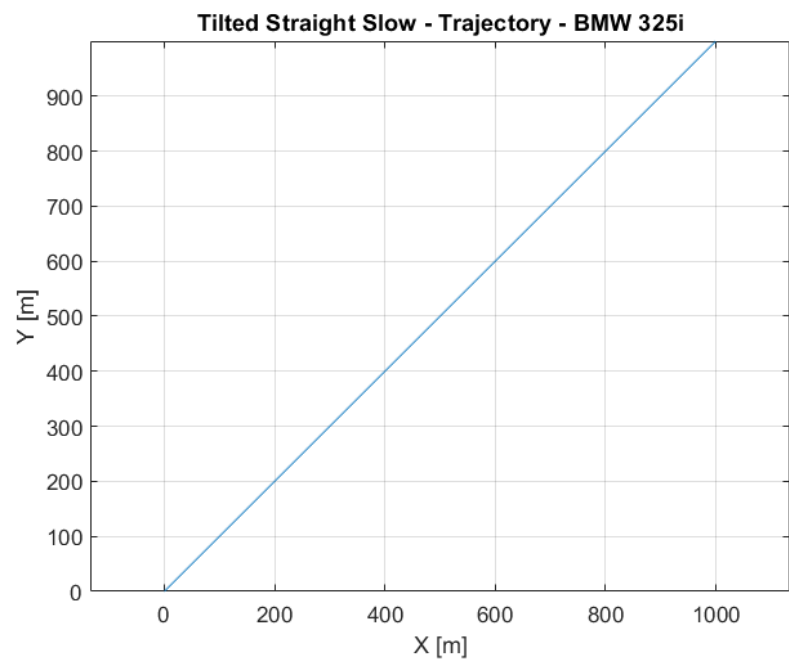


Lateral Deviation

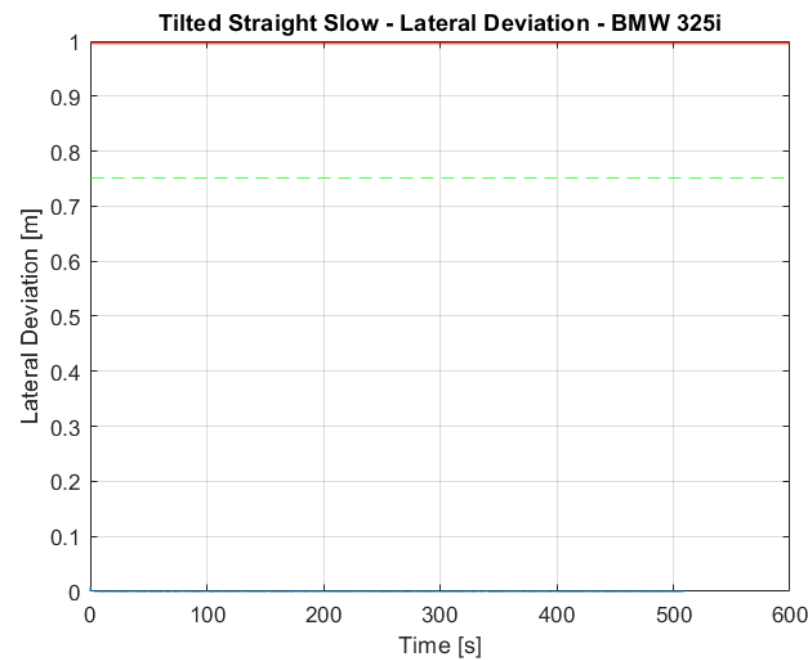


2.4 Tilted Straight Slow

Trajectory

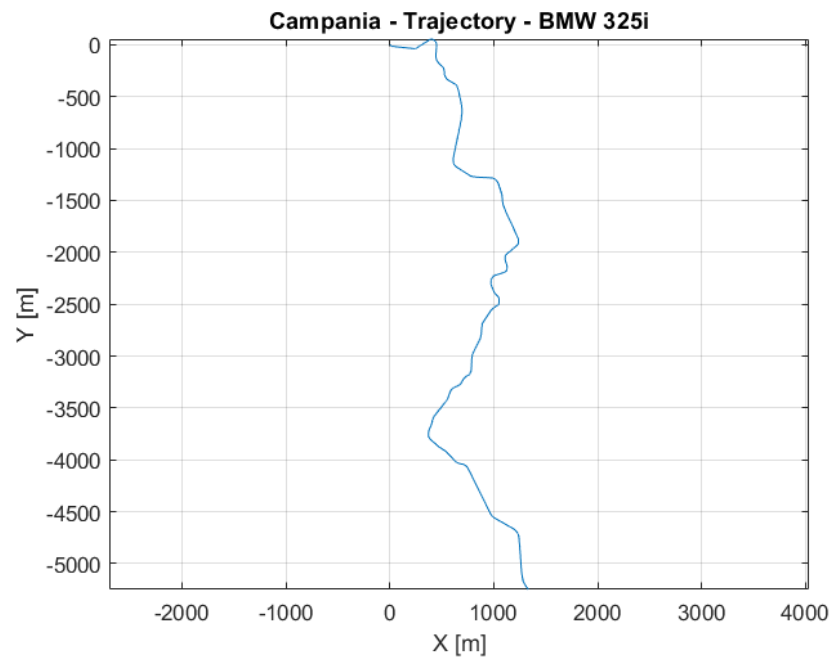


Lateral Deviation

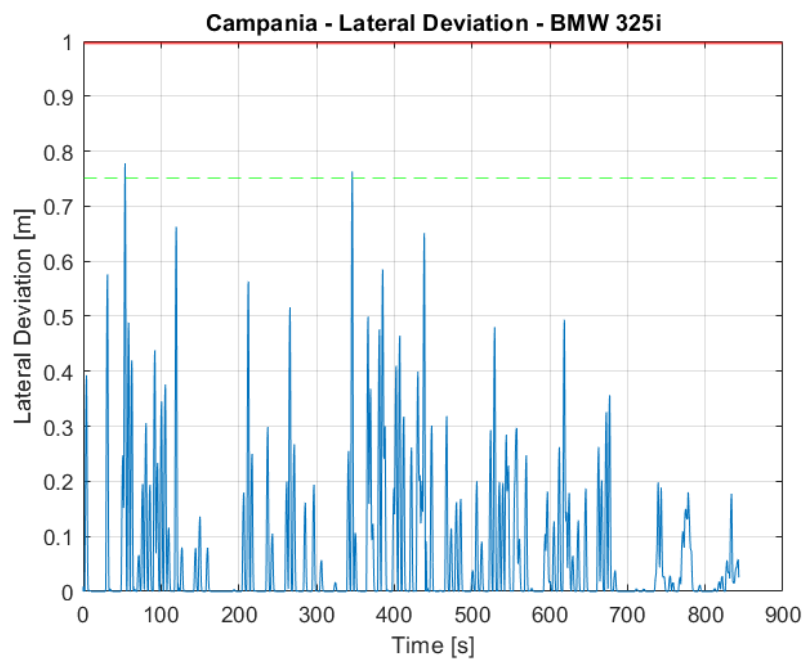


2.5 Campania

Trajectory

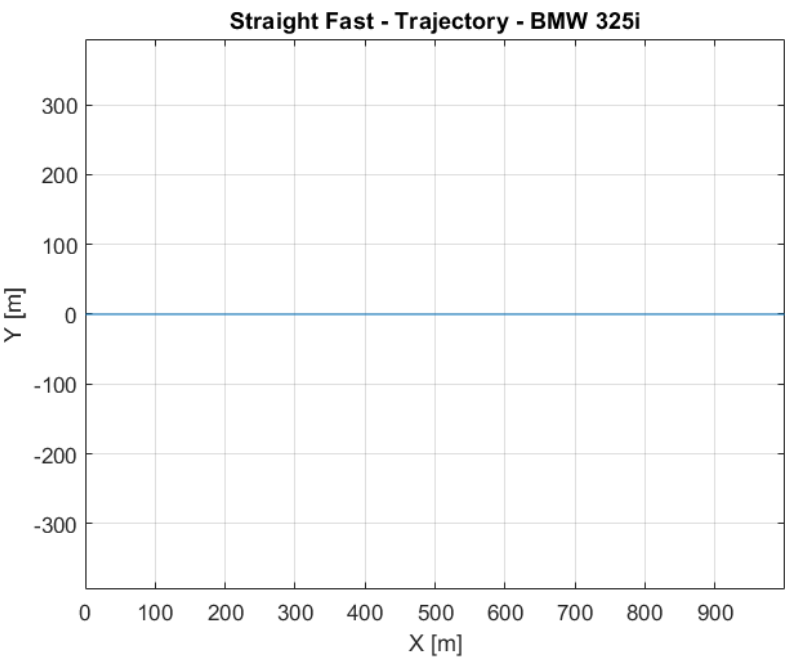


Lateral Deviation

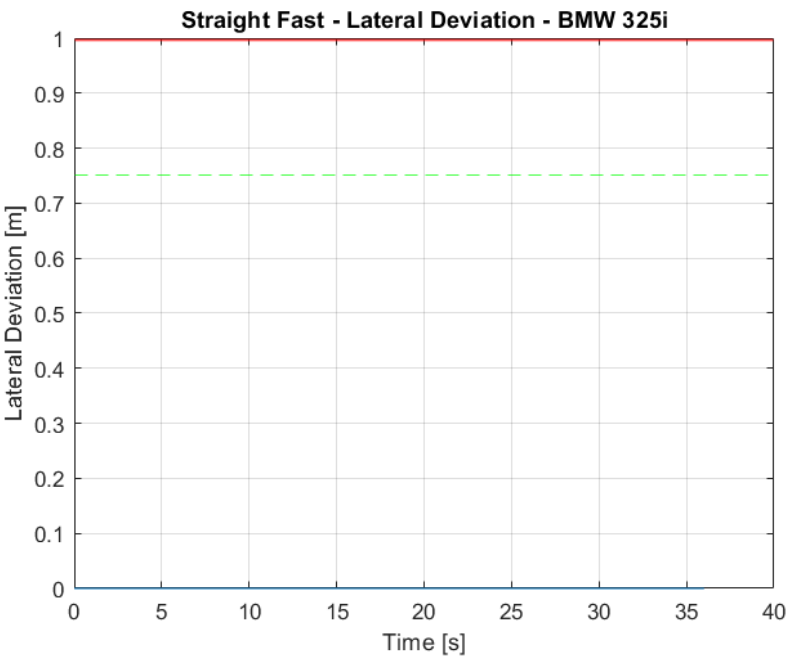


2.6 Straight Fast

Trajectory

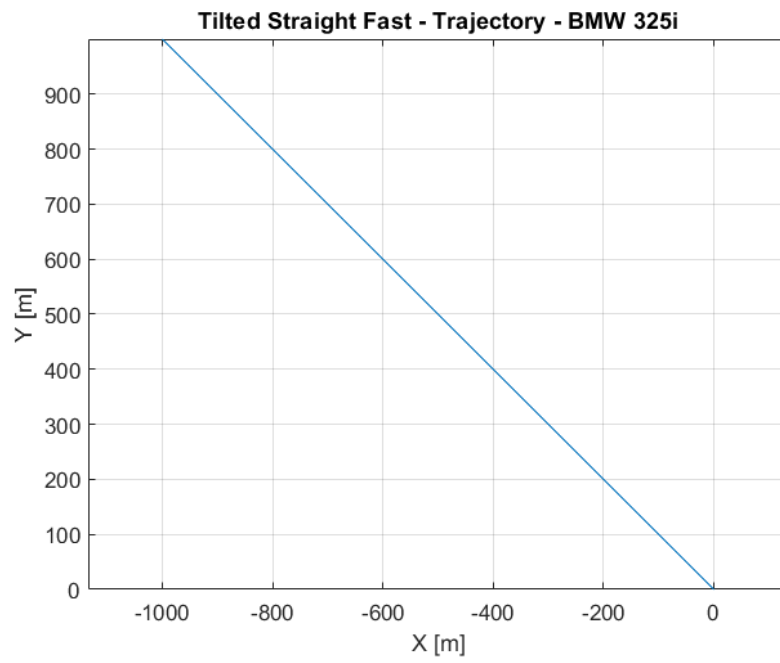


Lateral Deviation

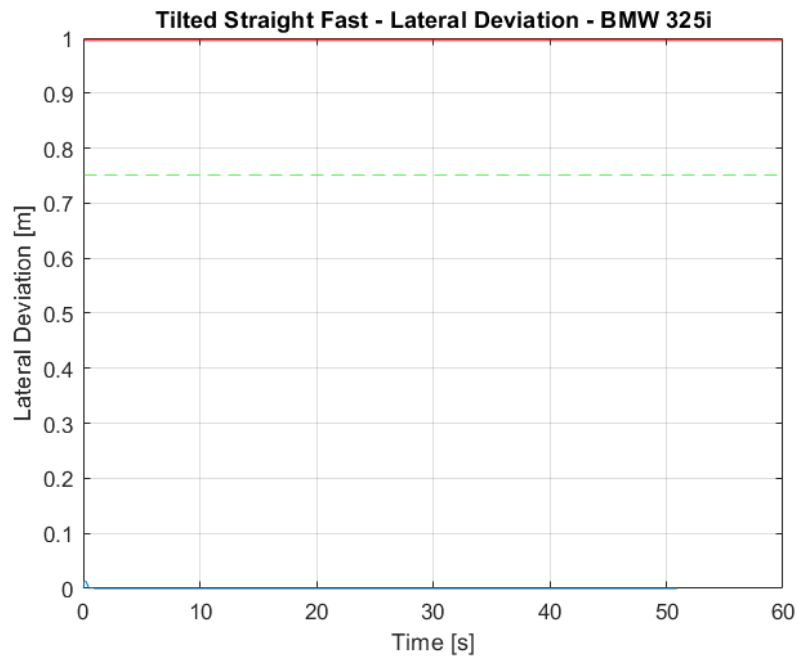


2.7 Tilted Straight Fast

Trajectory

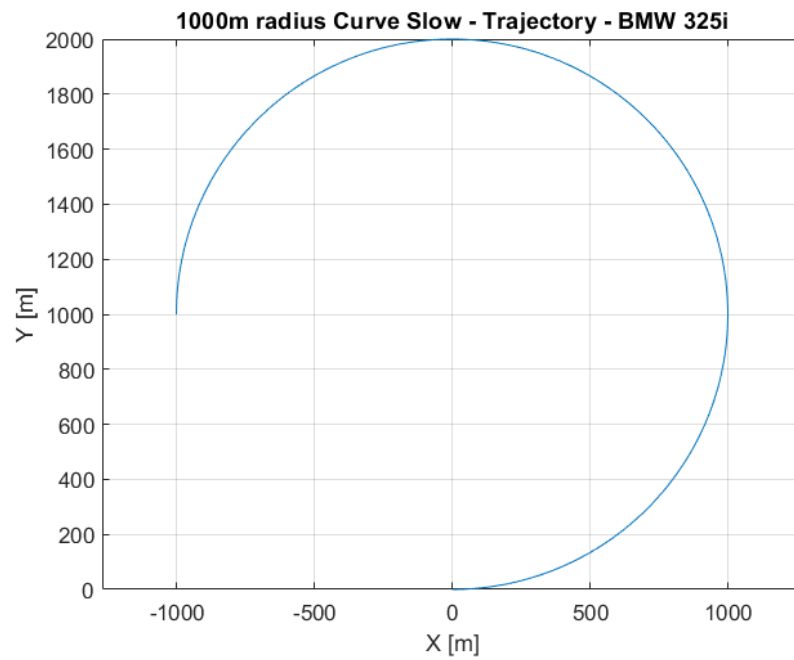


Lateral Deviation

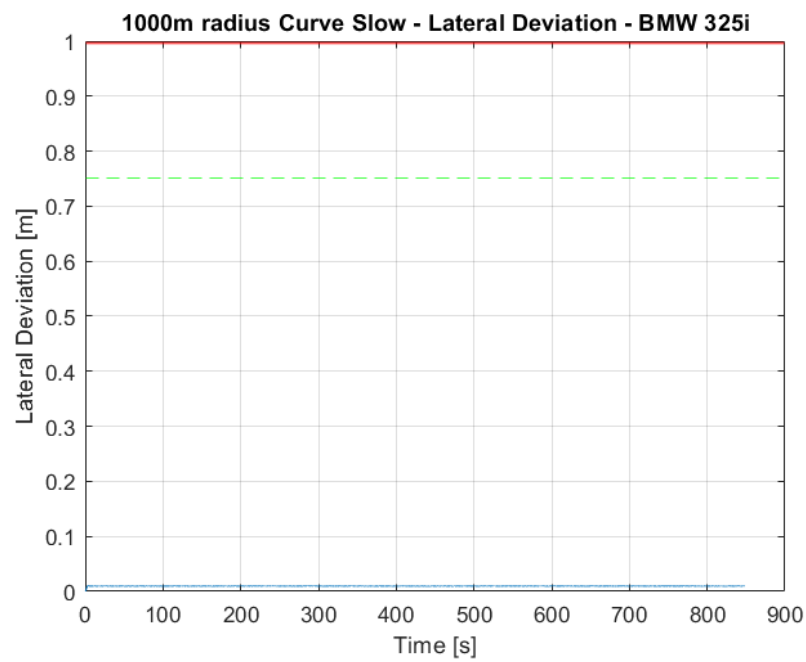


2.8 1000m radius Curve Slow

Trajectory

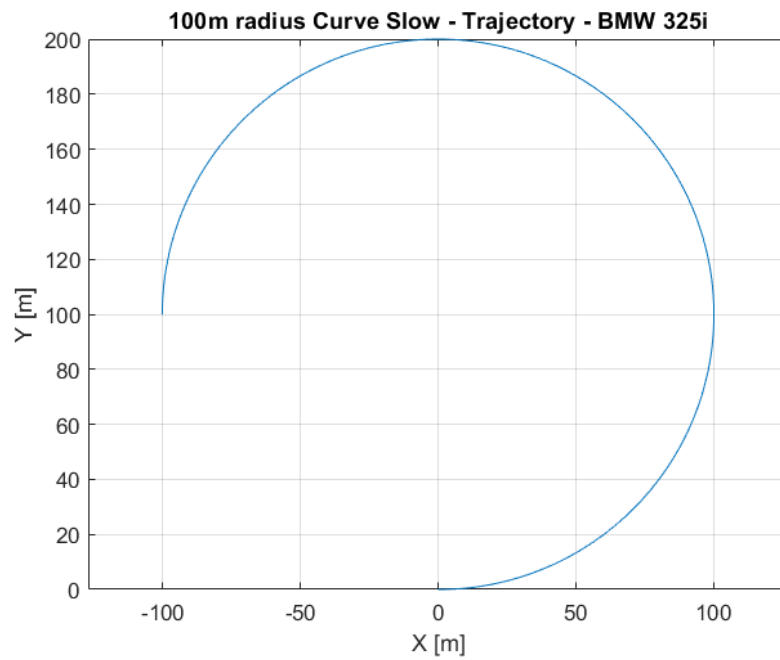


Lateral Deviation

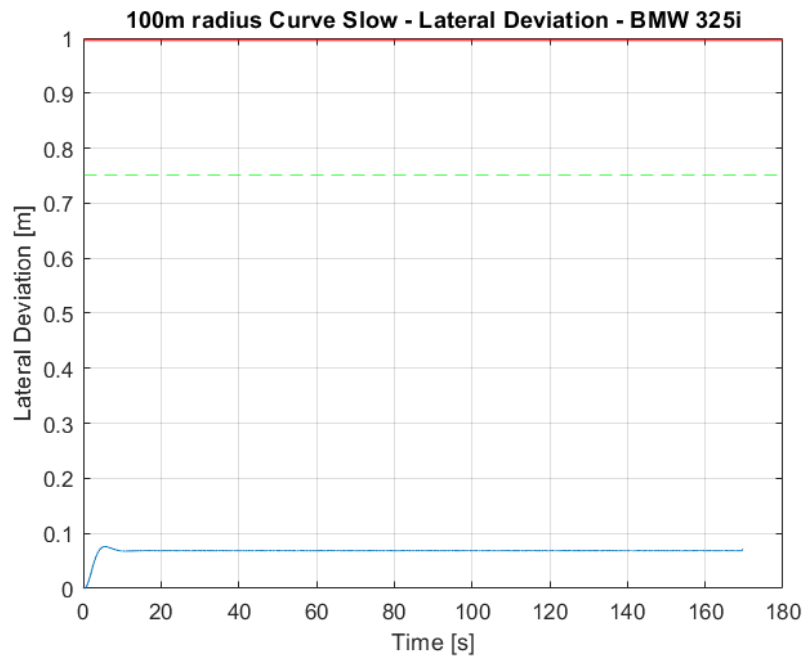


2.9 100m radius Curve Slow

Trajectory

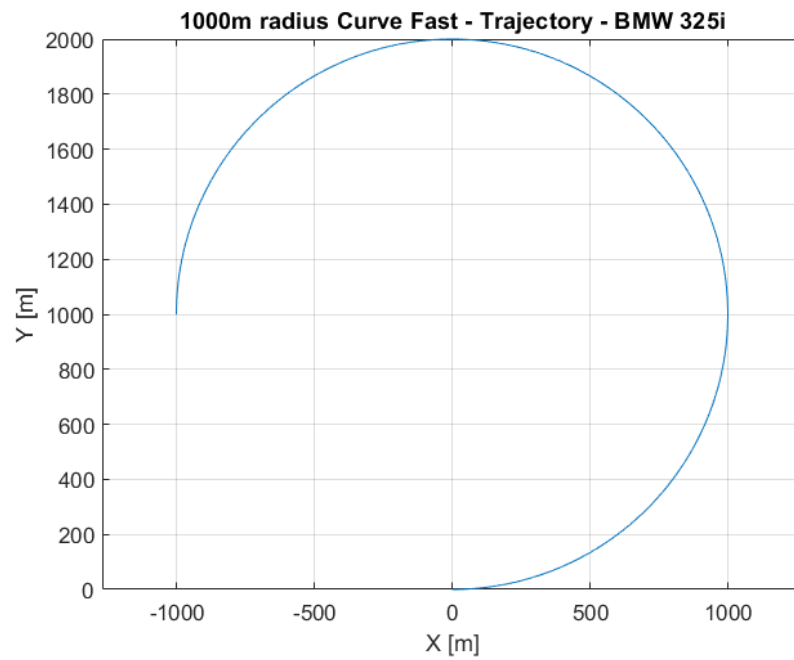


Lateral Deviation

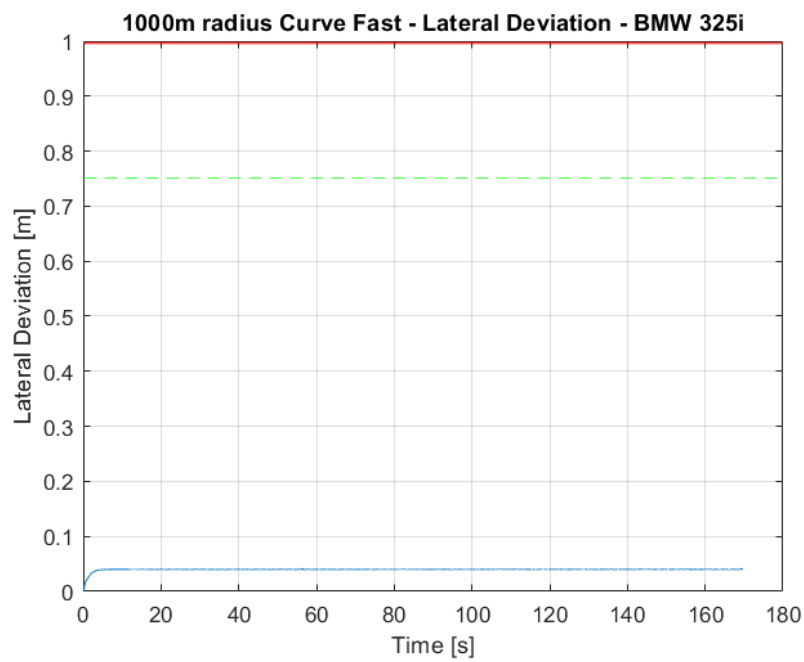


2.10 1000m radius Curve Fast

Trajectory

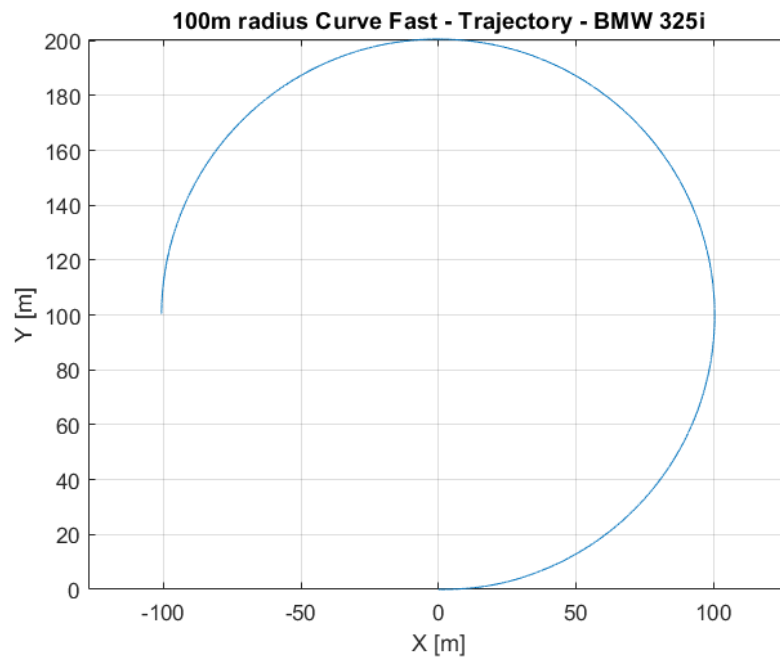


Lateral Deviation

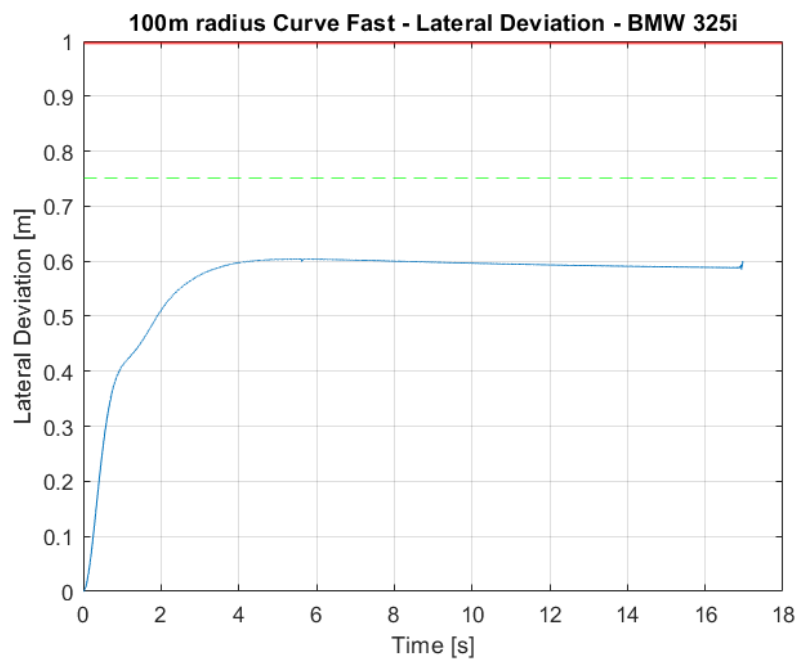


2.11 100m radius Curve Fast

Trajectory

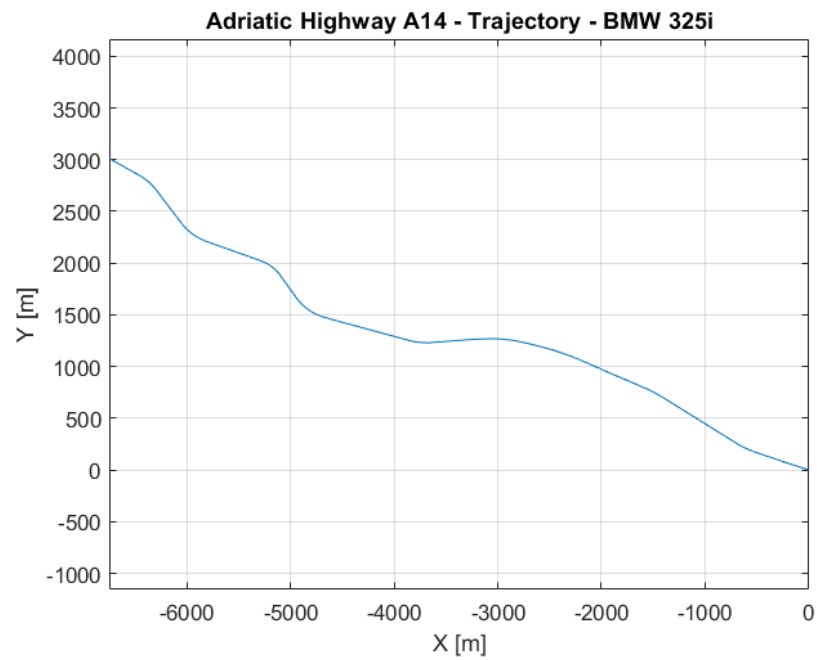


Lateral Deviation

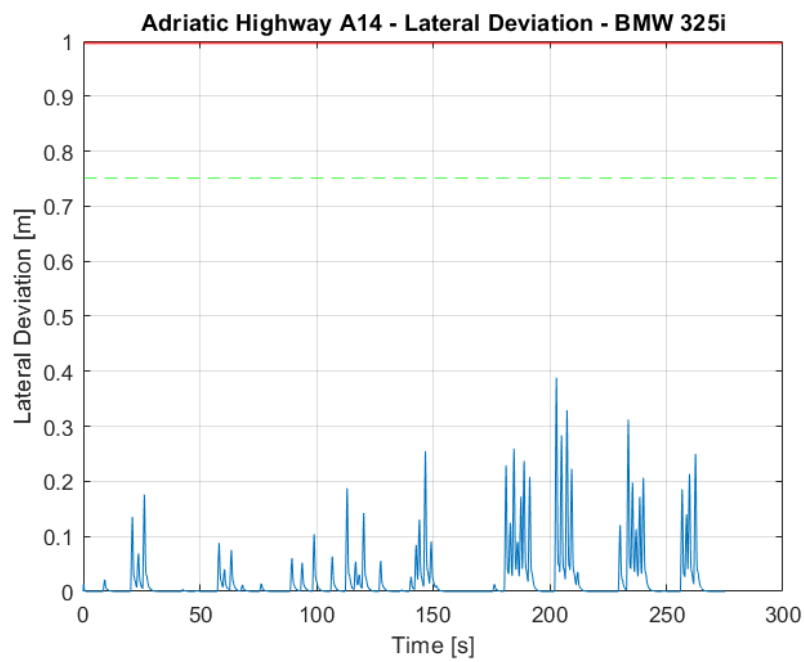


2.12 Adriatic Highway A14

Trajectory

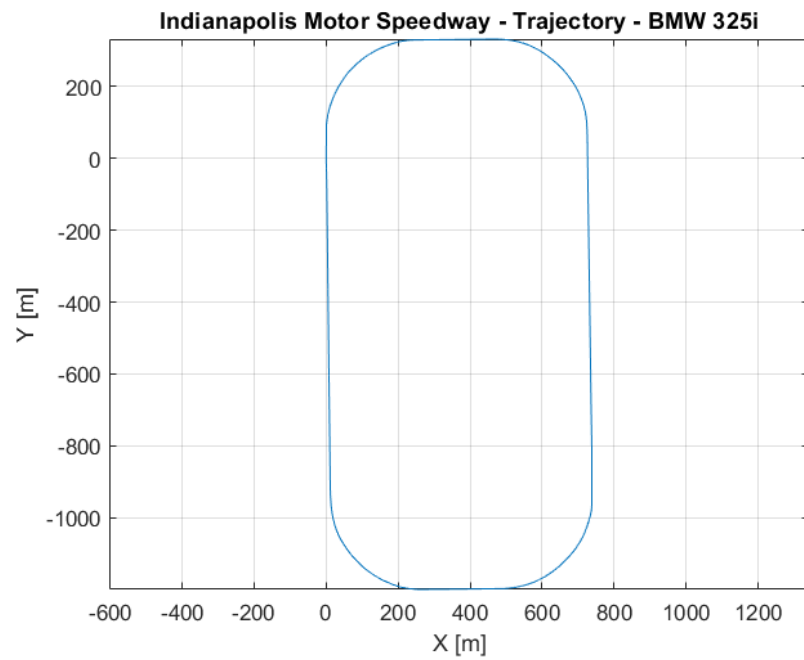


Lateral Deviation

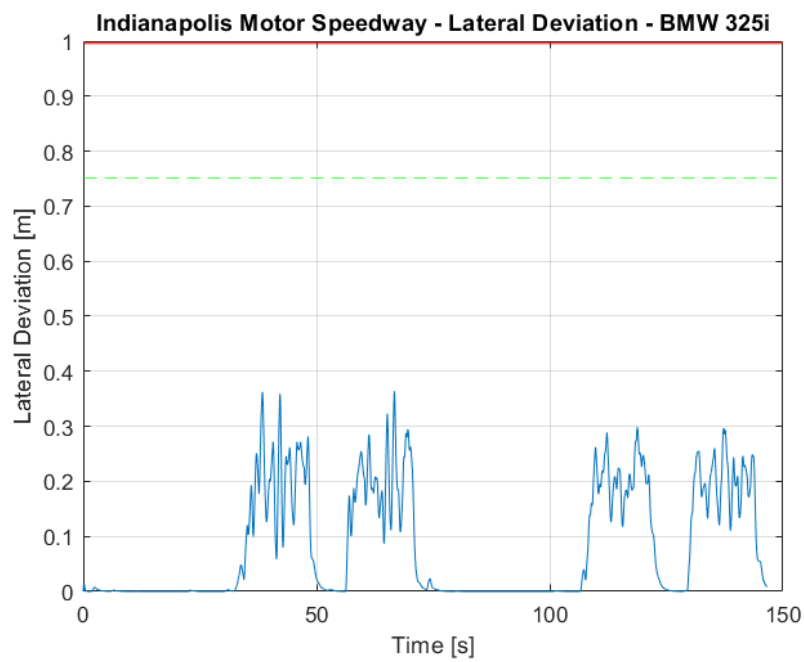


2.13 Indianapolis Motor Speedway

Trajectory



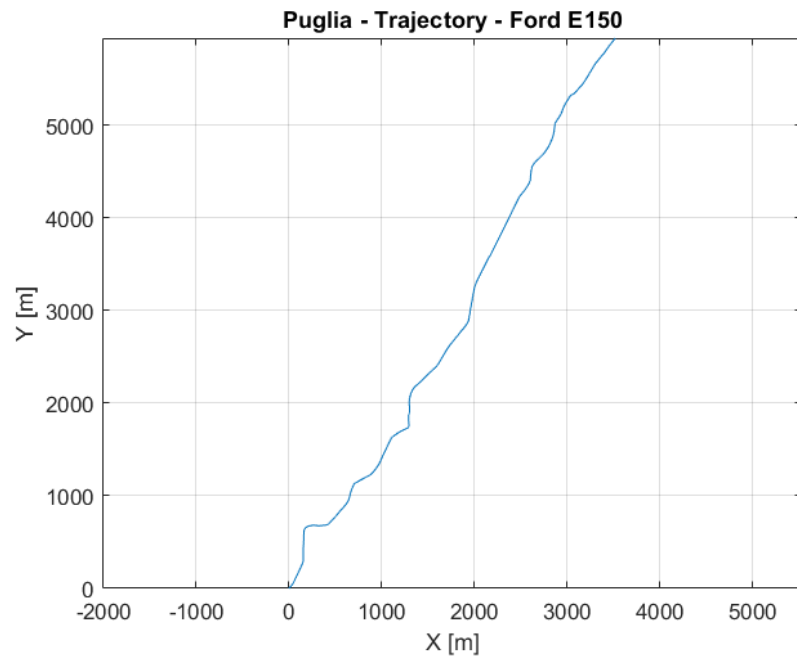
Lateral Deviation



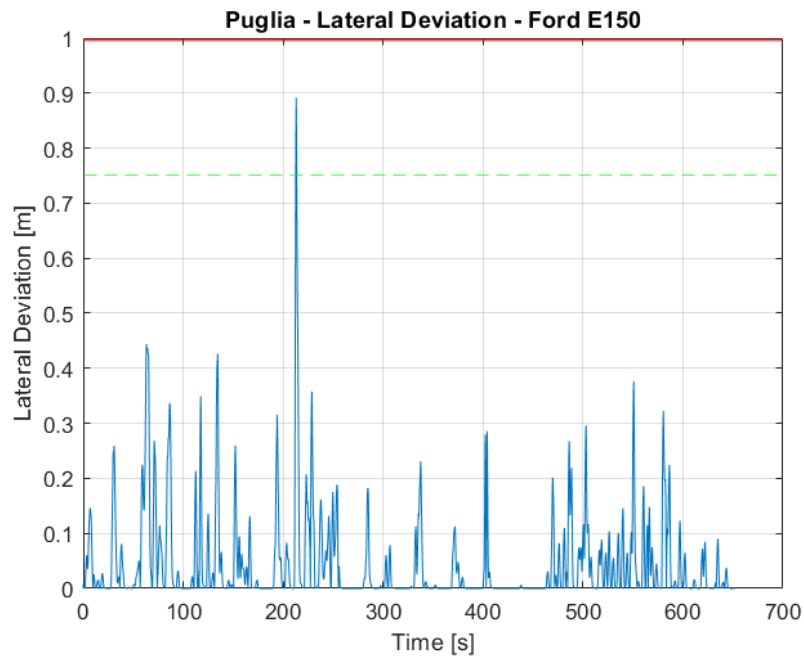
3 Ford E150

3.1 Puglia

Trajectory

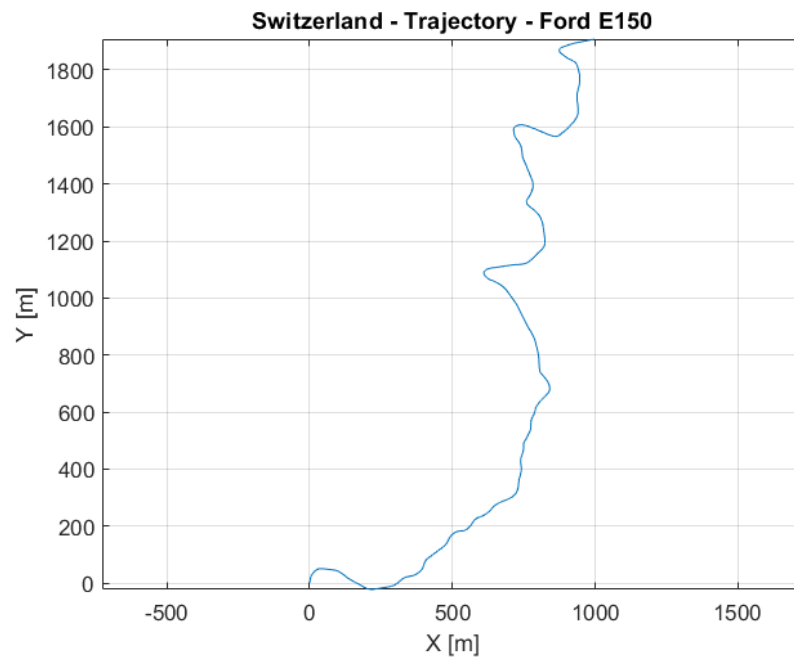


Lateral Deviation

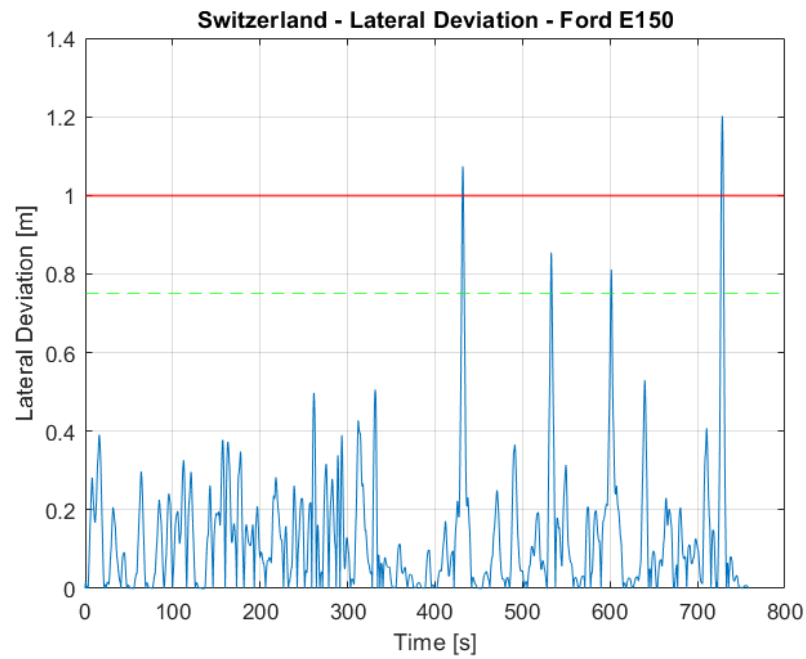


3.2 Switzerland

Trajectory

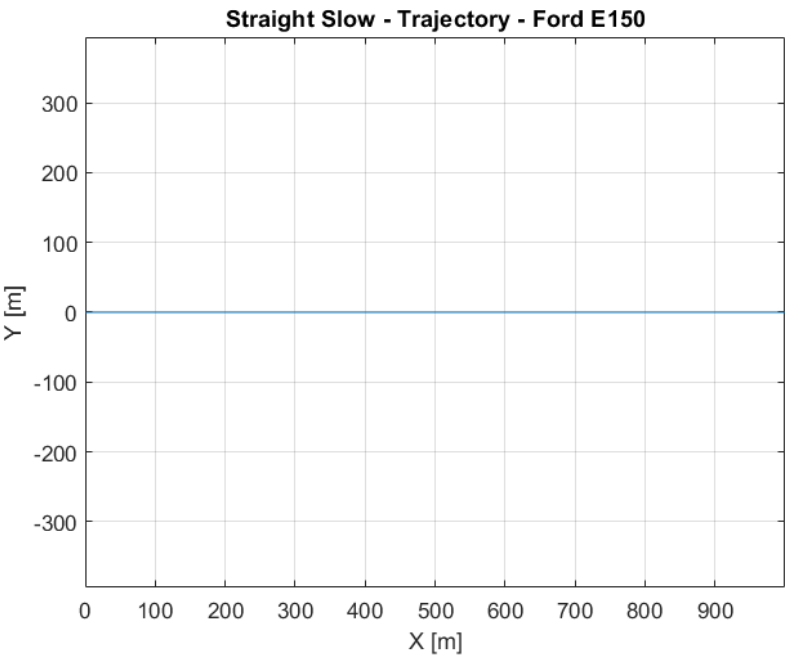


Lateral Deviation

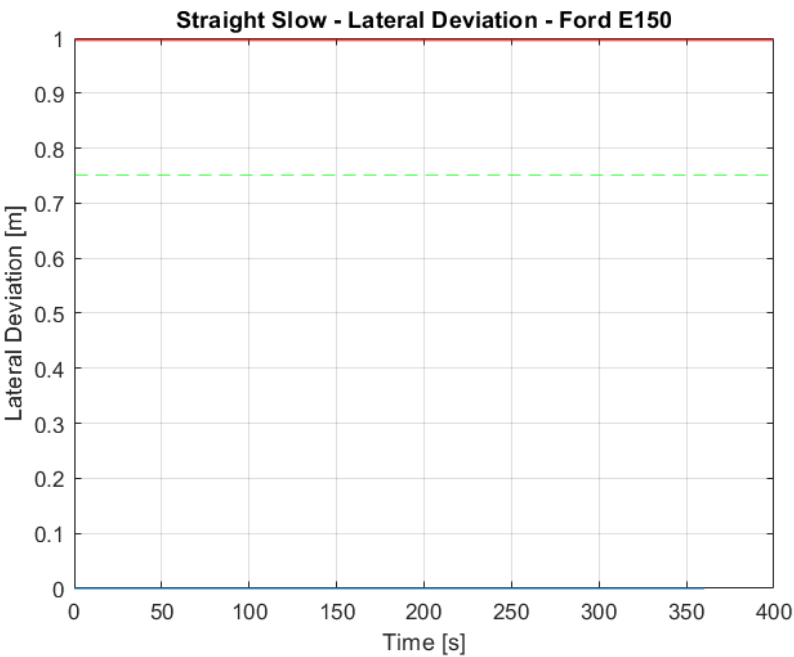


3.3 Straight Slow

Trajectory

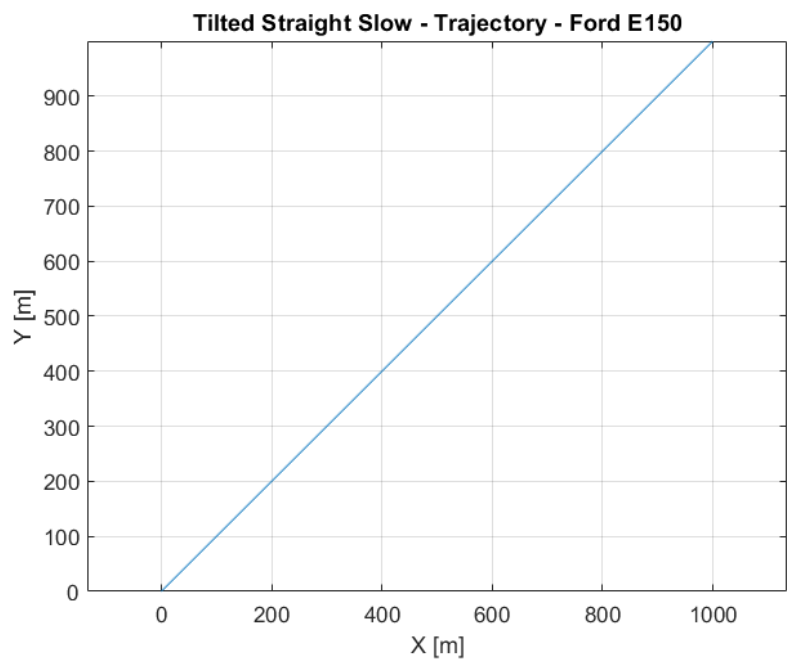


Lateral Deviation

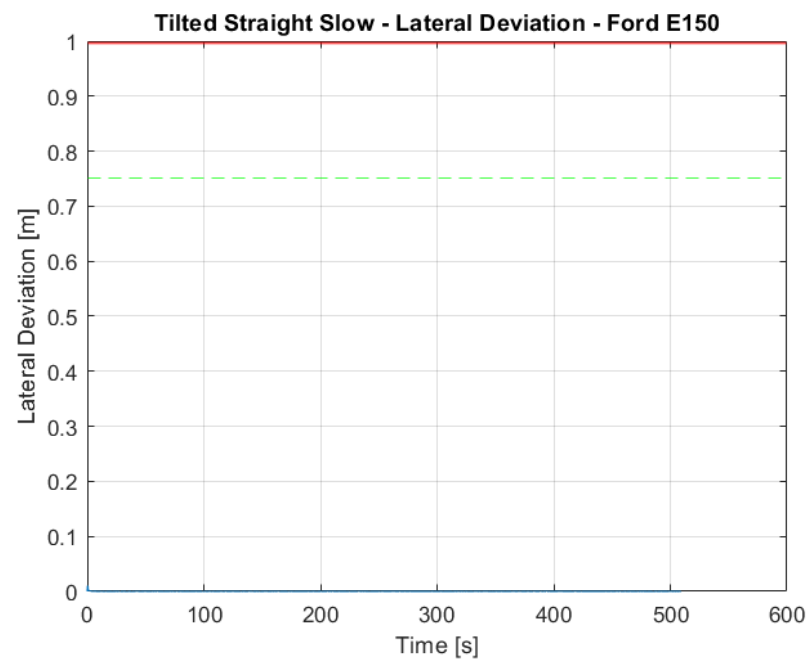


3.4 Tilted Straight Slow

Trajectory

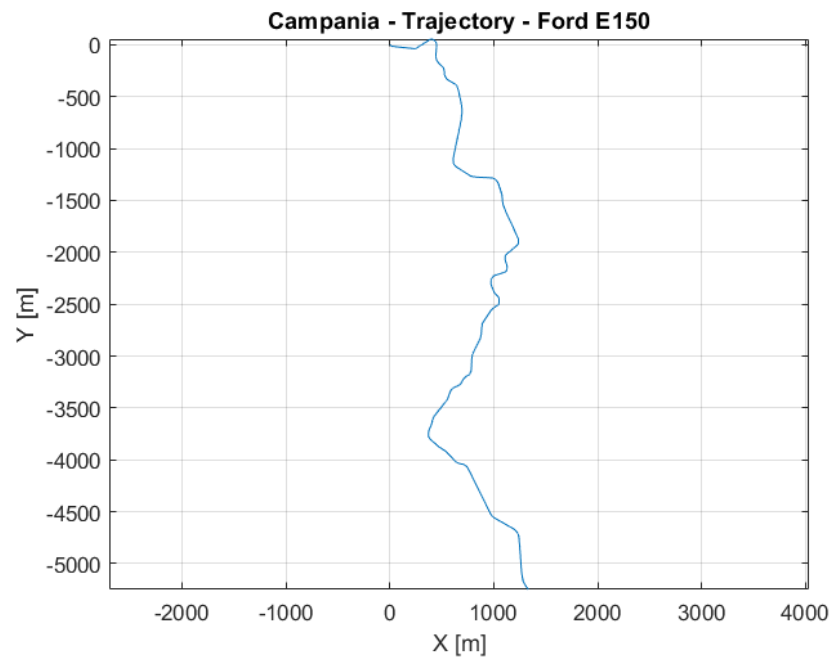


Lateral Deviation

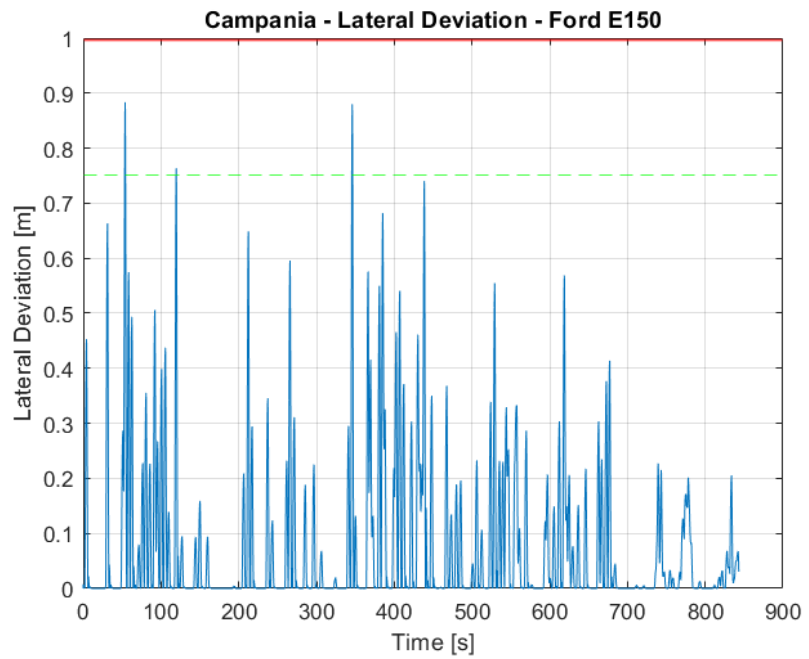


3.5 Campania

Trajectory

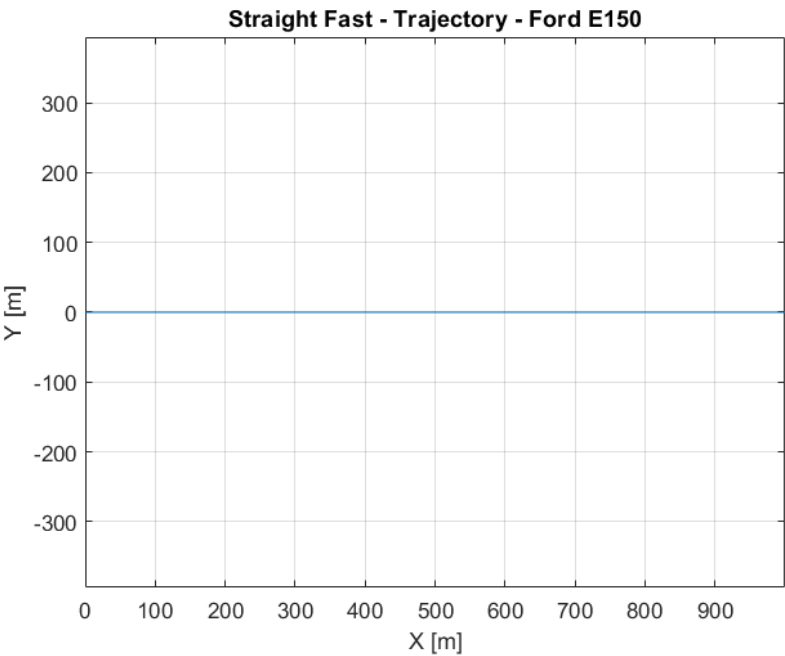


Lateral Deviation

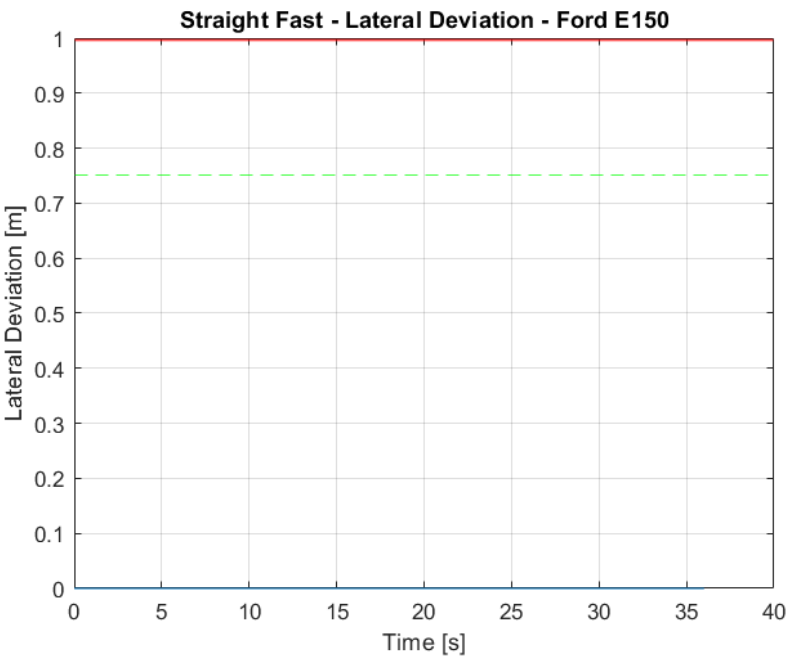


3.6 Straight Fast

Trajectory

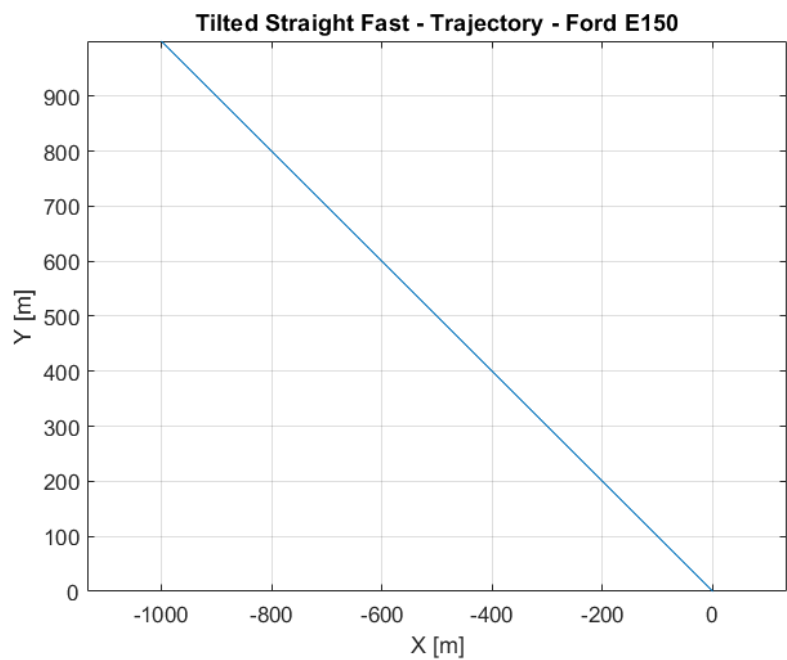


Lateral Deviation

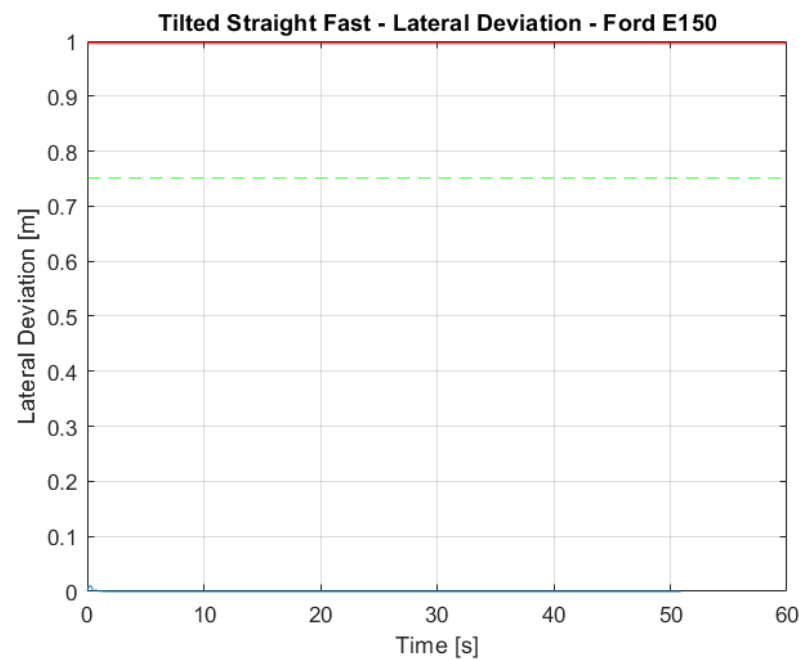


3.7 Tilted Straight Fast

Trajectory

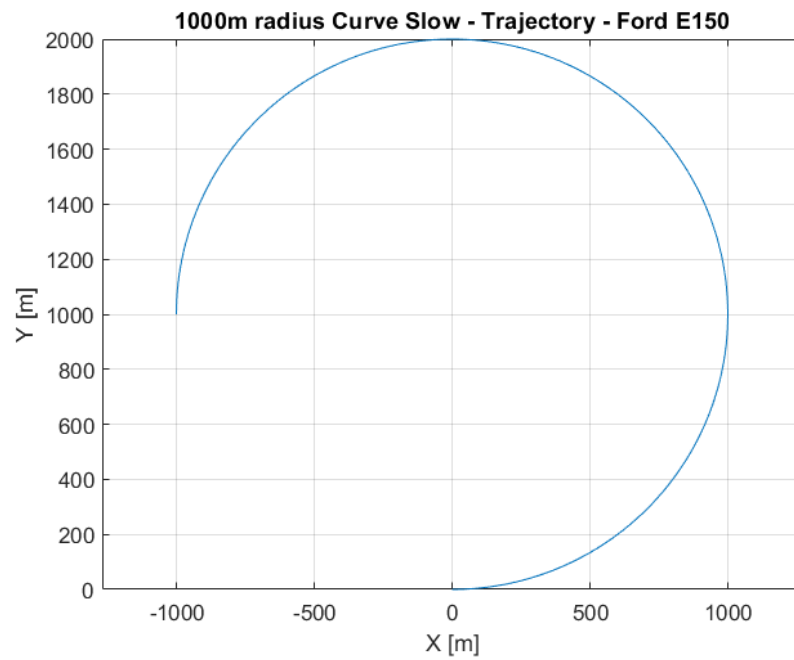


Lateral Deviation

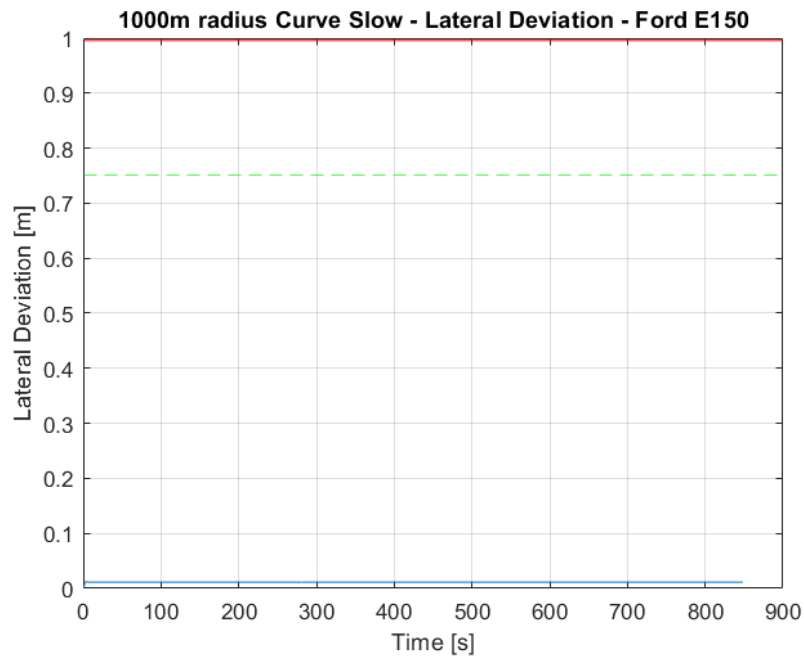


3.8 1000m radius Curve Slow

Trajectory

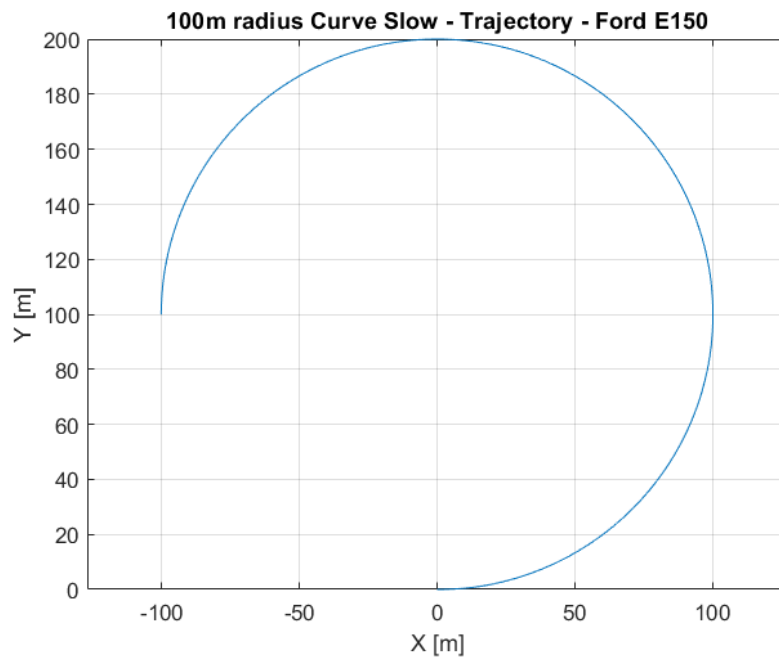


Lateral Deviation

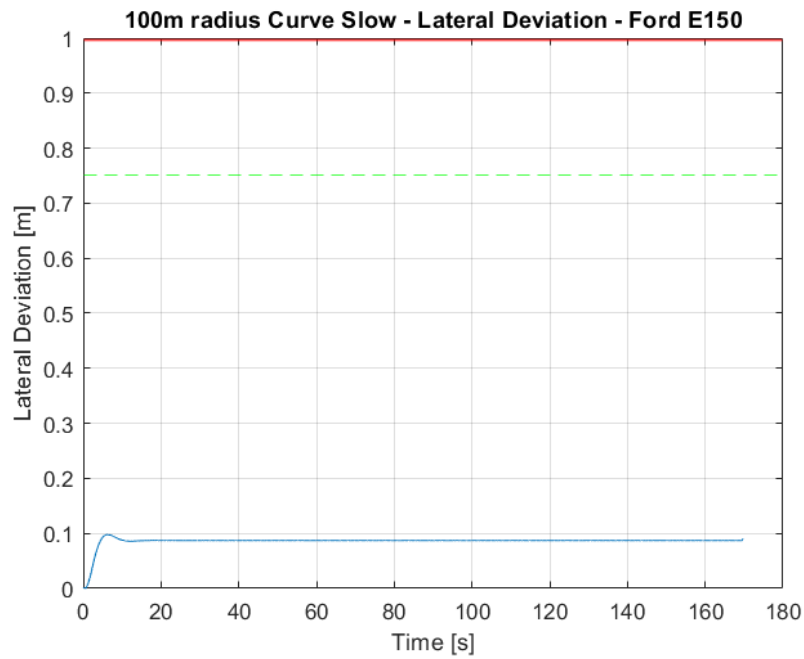


3.9 100m radius Curve Slow

Trajectory

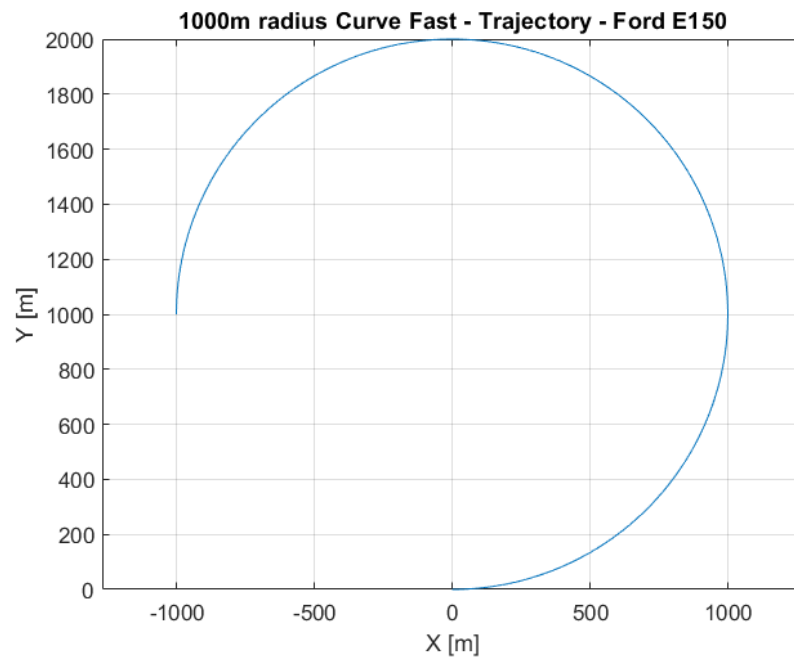


Lateral Deviation

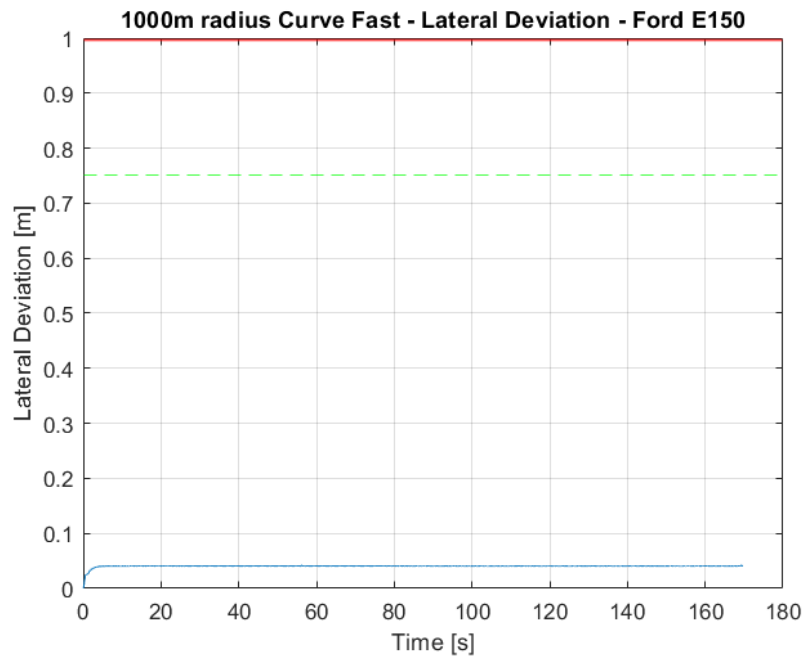


3.10 1000m radius Curve Fast

Trajectory

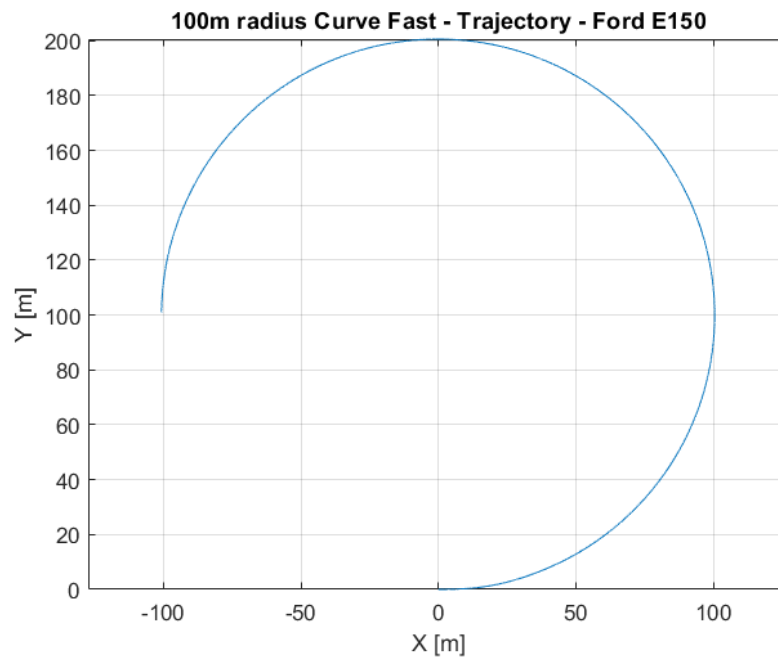


Lateral Deviation

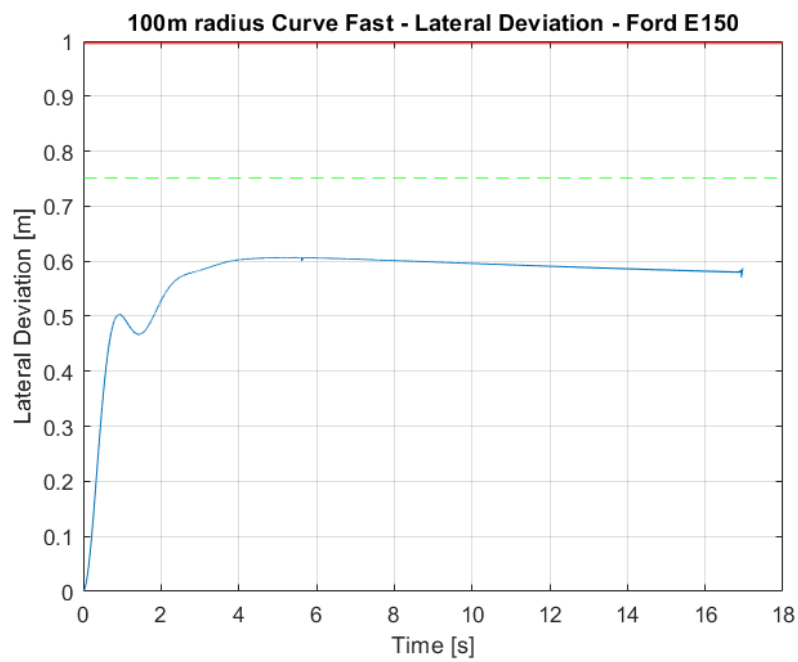


3.11 100m radius Curve Fast

Trajectory

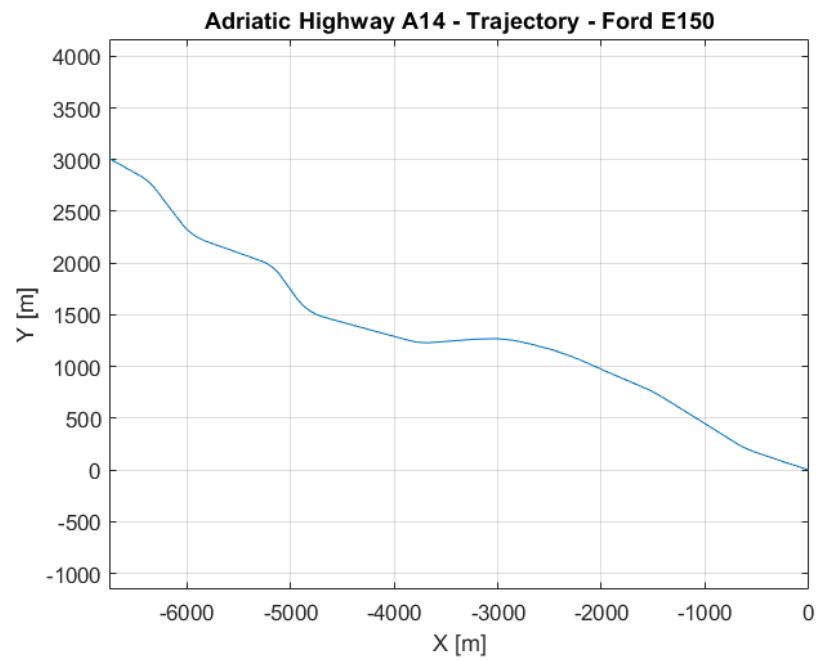


Lateral Deviation

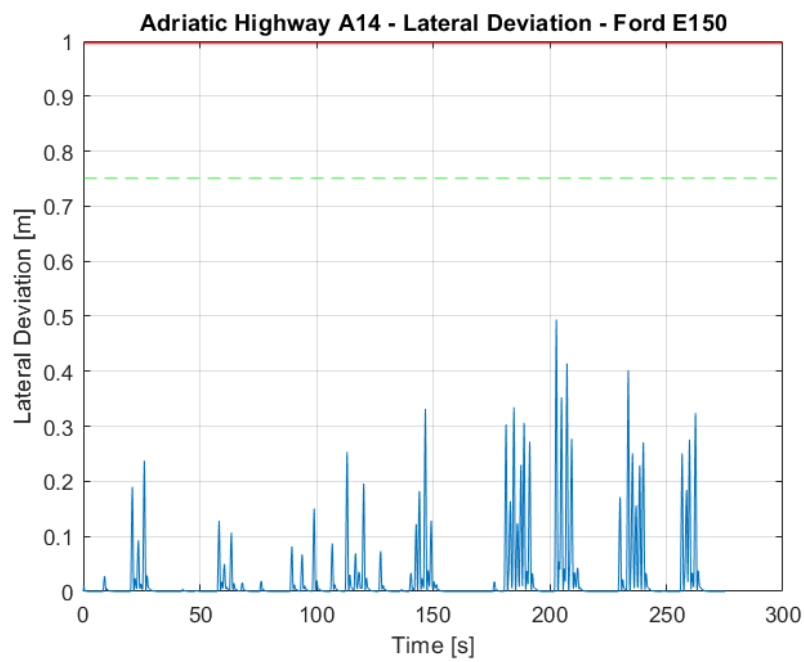


3.12 Adriatic Highway A14

Trajectory

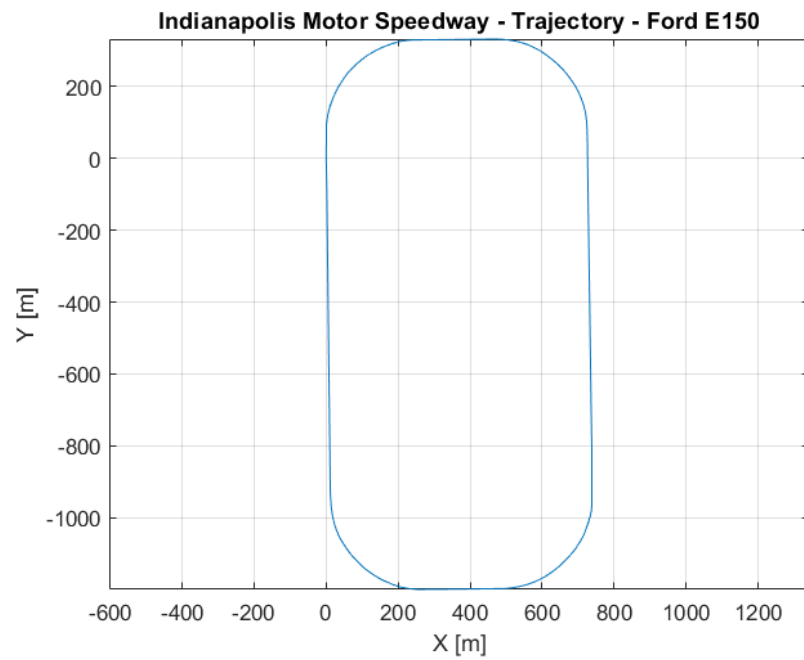


Lateral Deviation

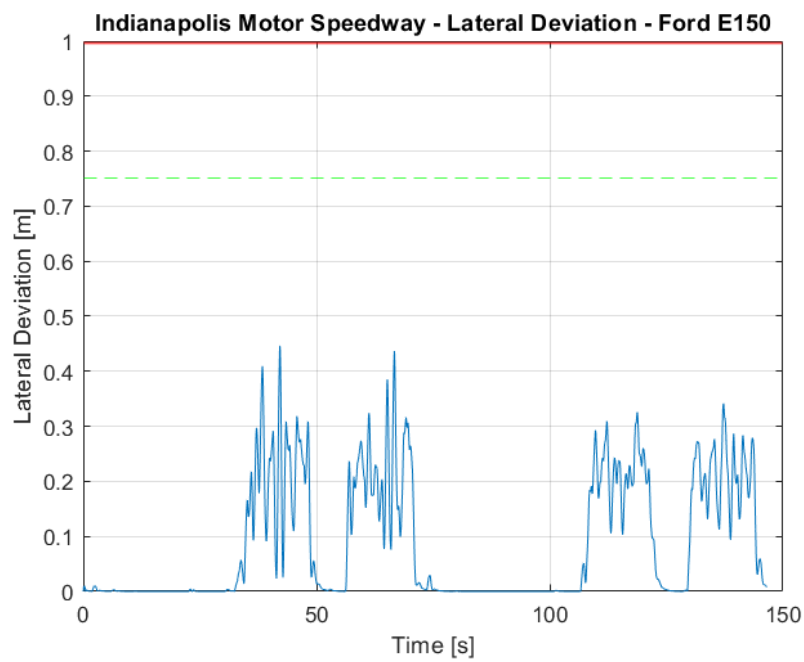


3.13 Indianapolis Motor Speedway

Trajectory



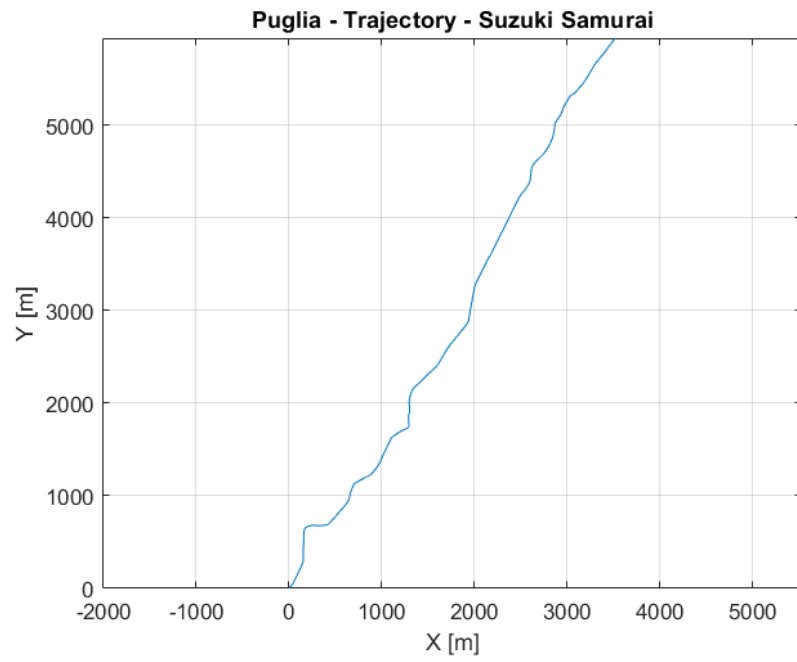
Lateral Deviation



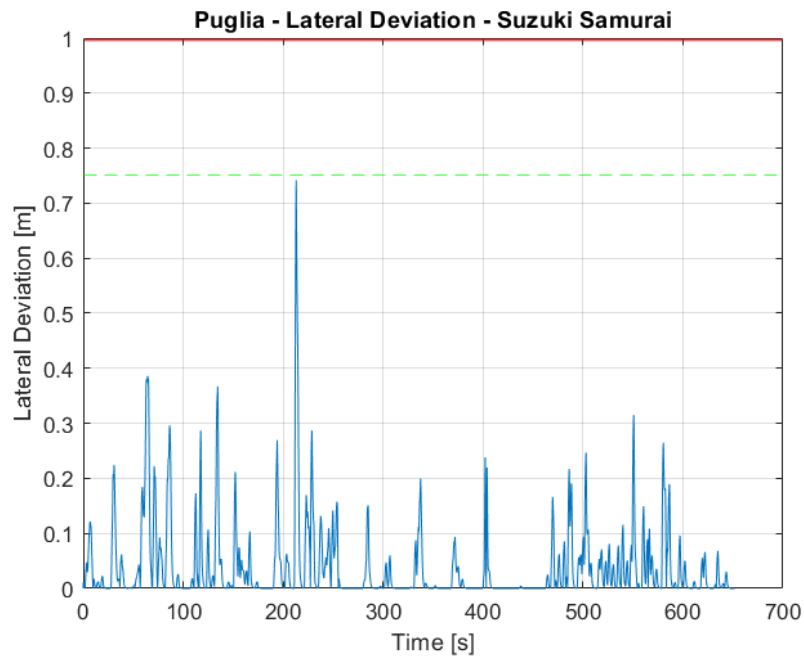
4 Suzuki Samurai

4.1 Puglia

Trajectory

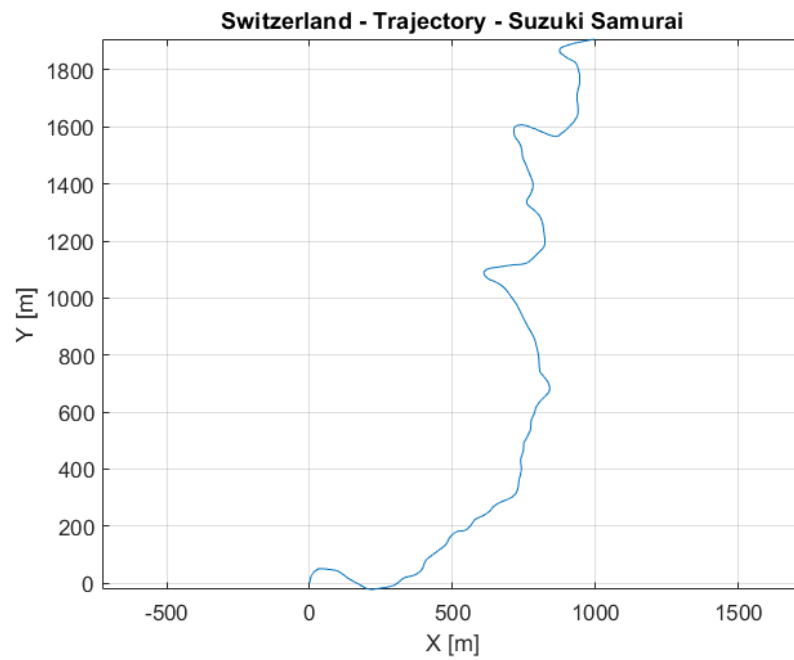


Lateral Deviation

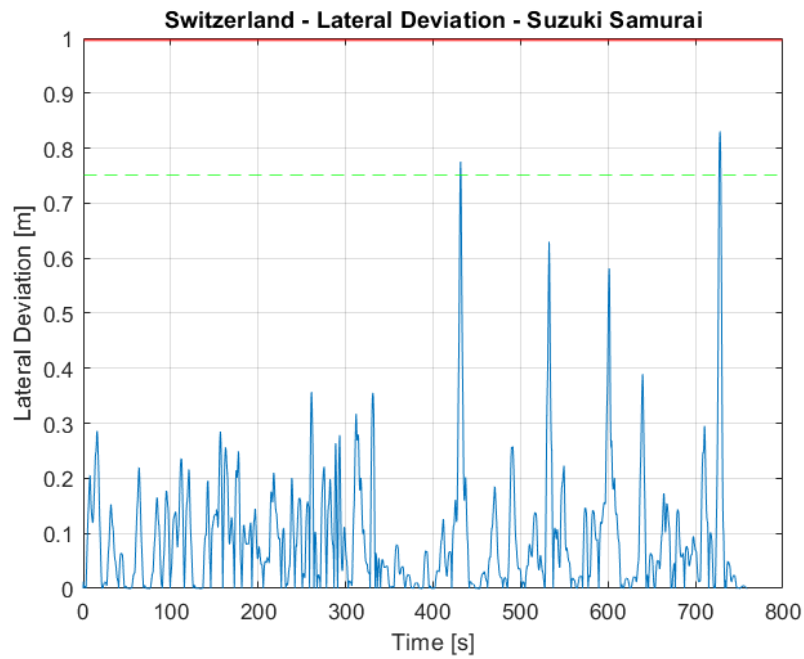


4.2 Switzerland

Trajectory

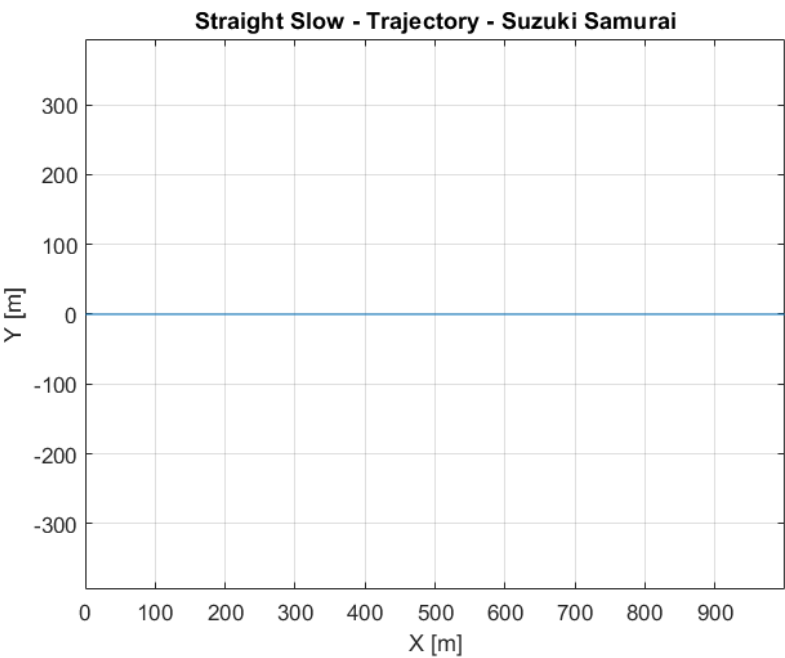


Lateral Deviation

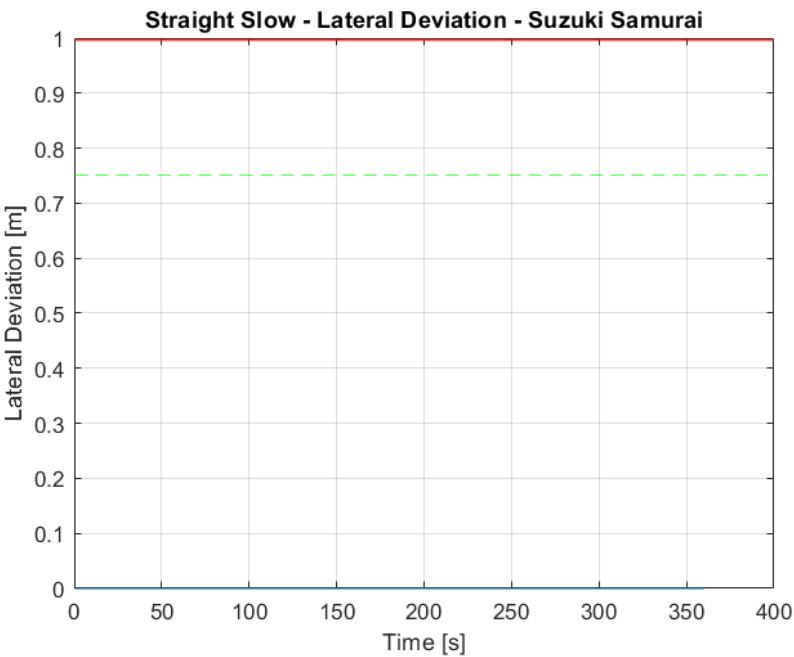


4.3 Straight Slow

Trajectory

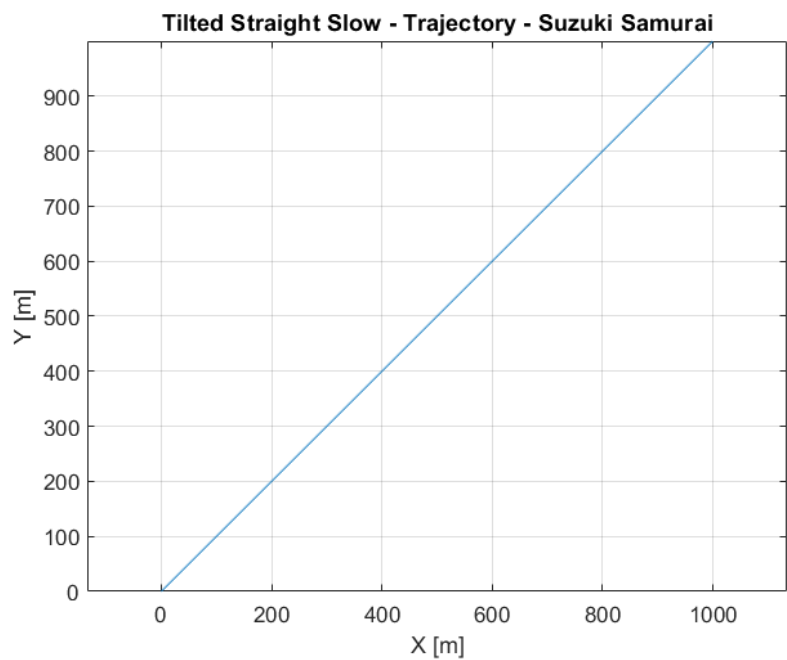


Lateral Deviation

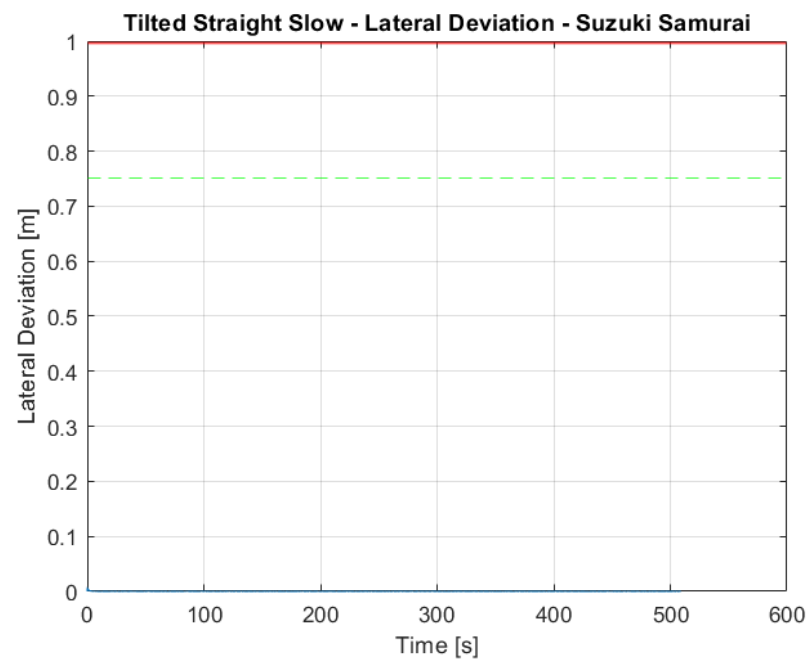


4.4 Tilted Straight Slow

Trajectory

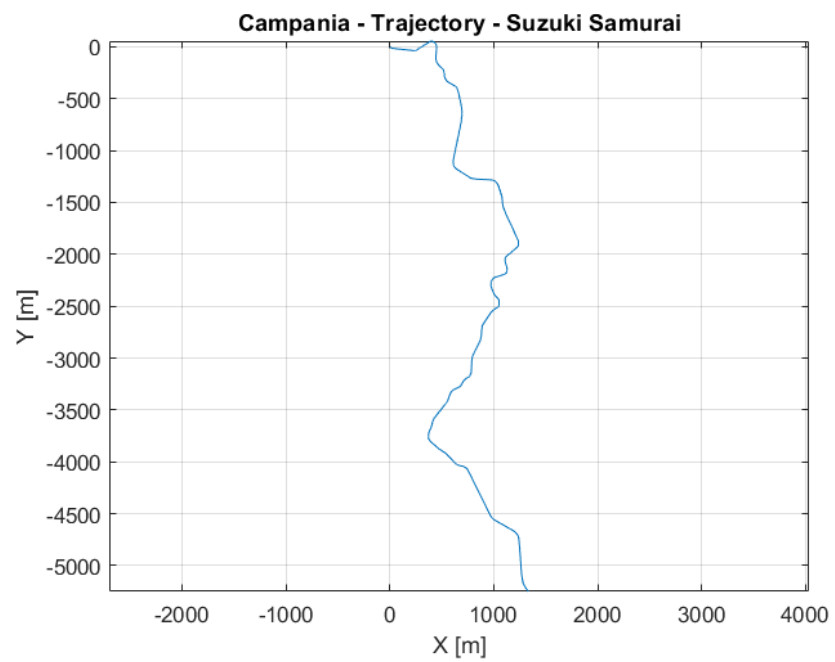


Lateral Deviation

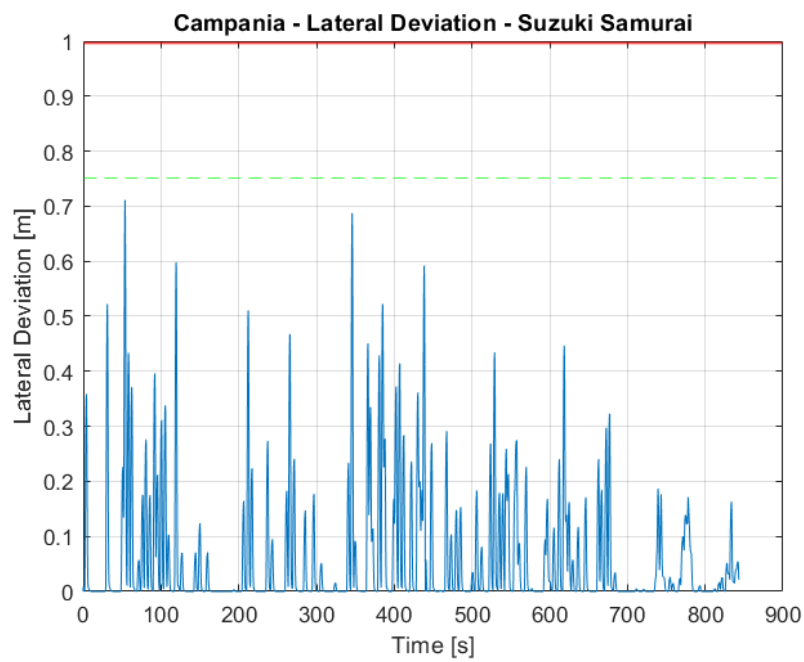


4.5 Campania

Trajectory

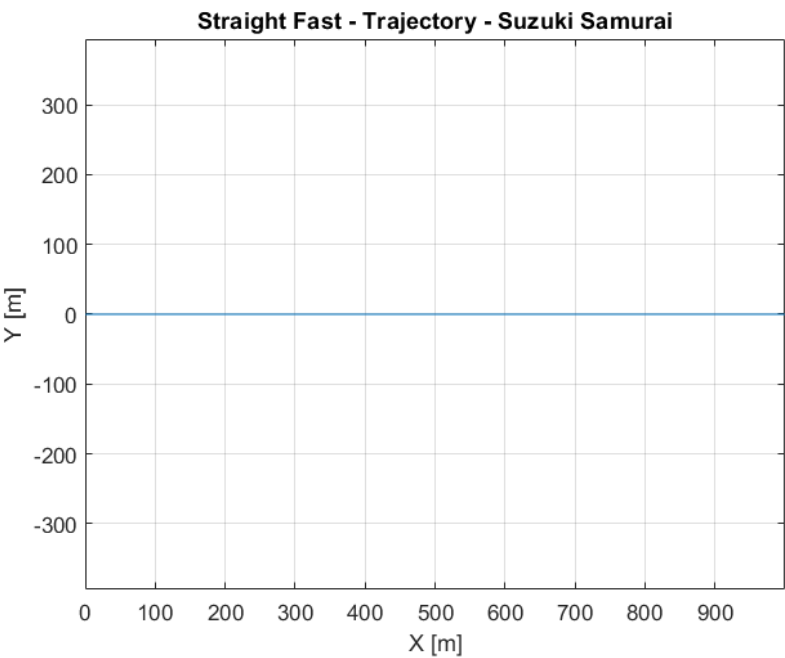


Lateral Deviation

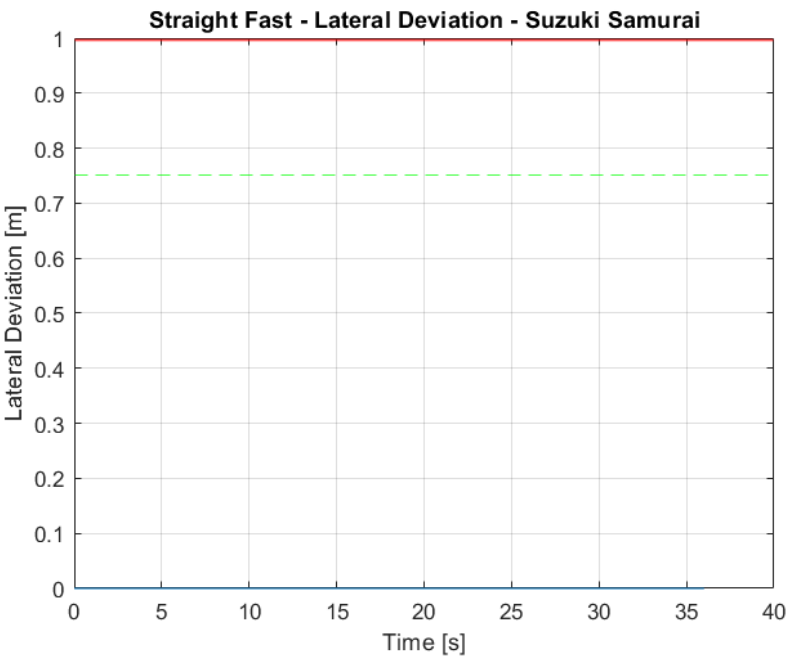


4.6 Straight Fast

Trajectory

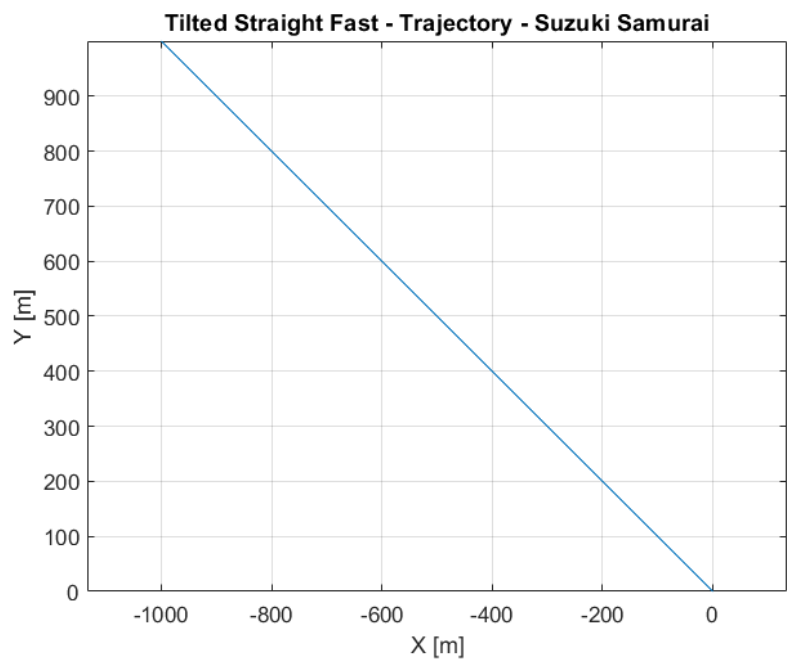


Lateral Deviation

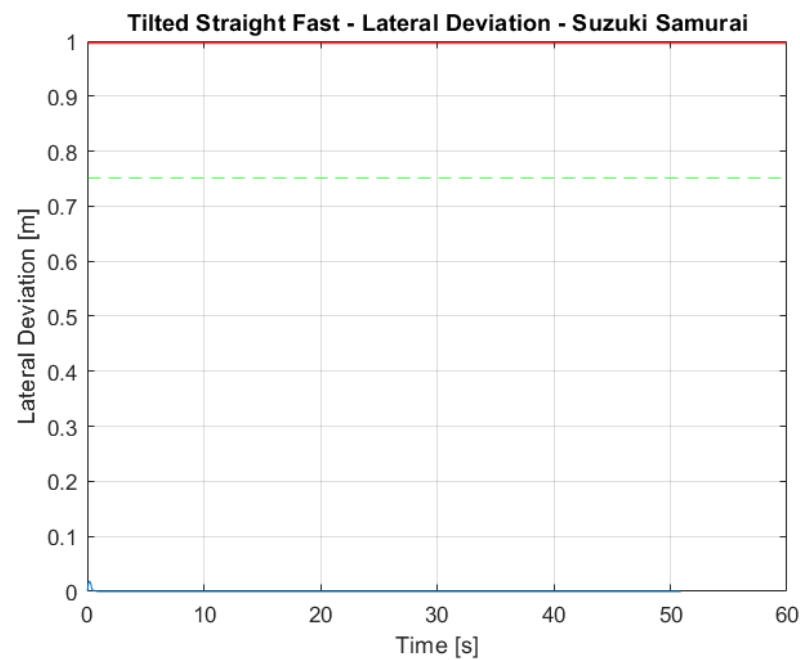


4.7 Tilted Straight Fast

Trajectory

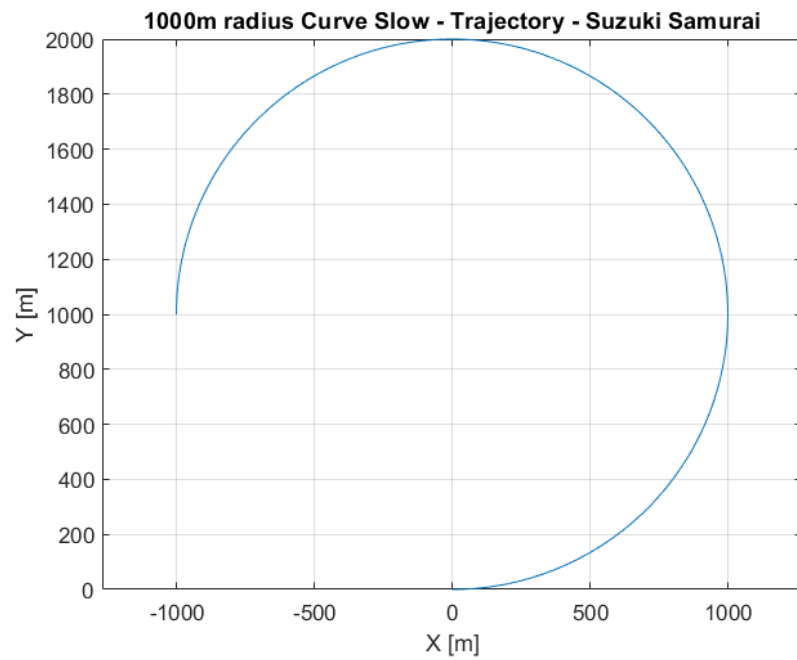


Lateral Deviation

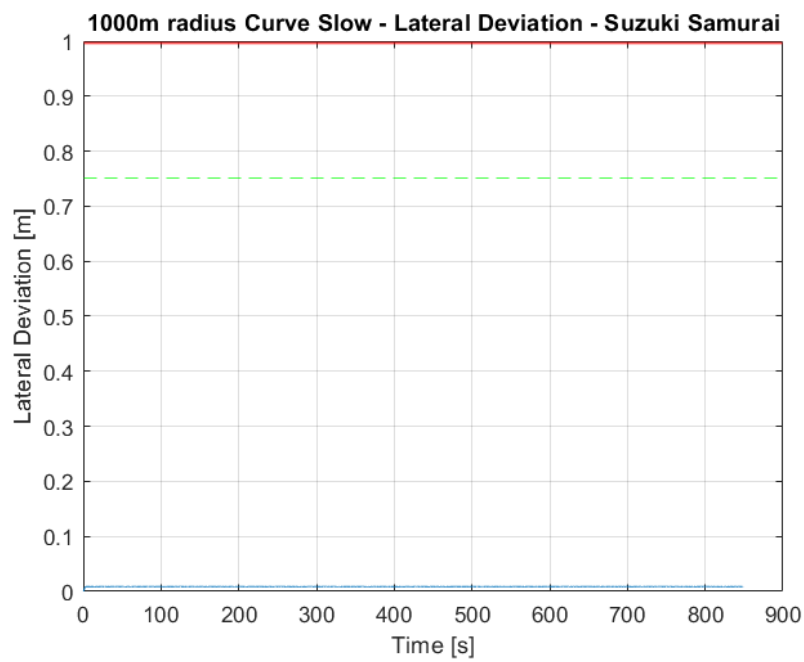


4.8 1000m radius Curve Slow

Trajectory

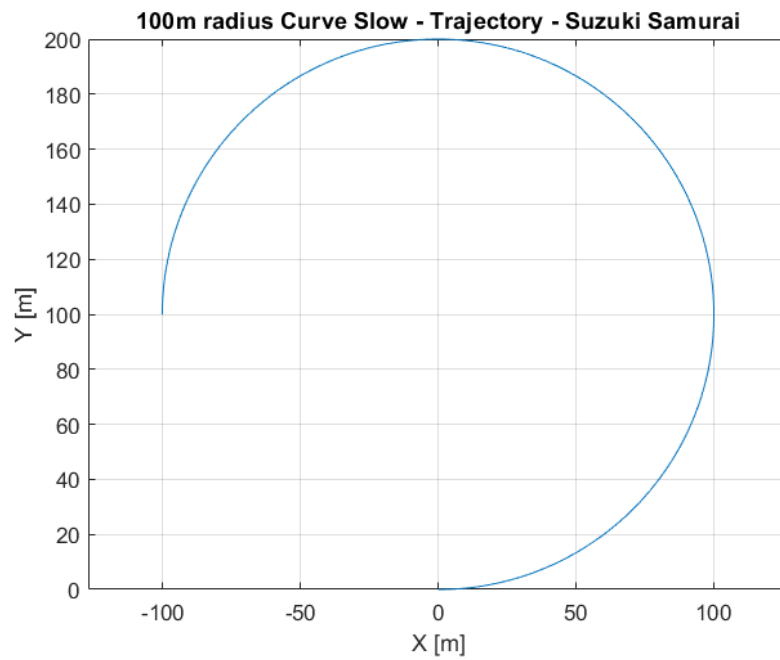


Lateral Deviation

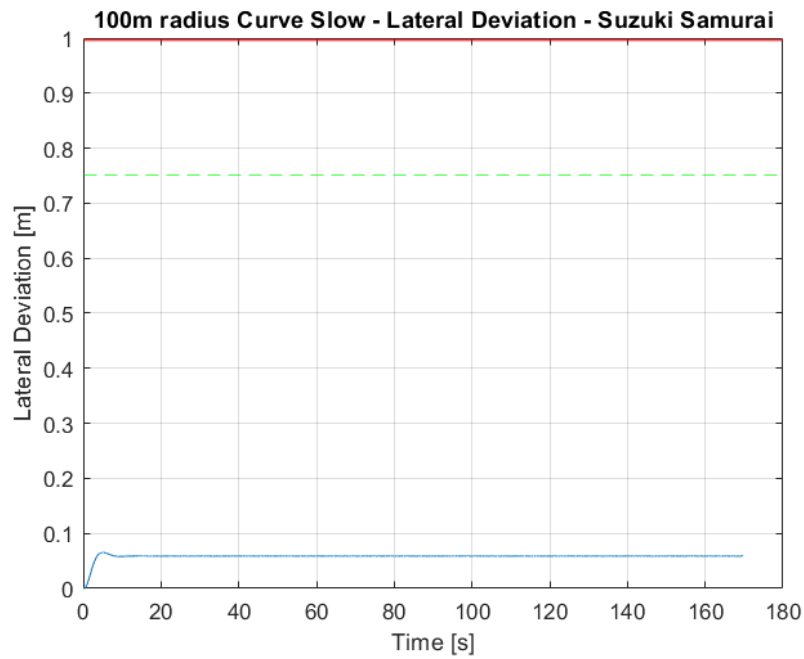


4.9 100m radius Curve Slow

Trajectory

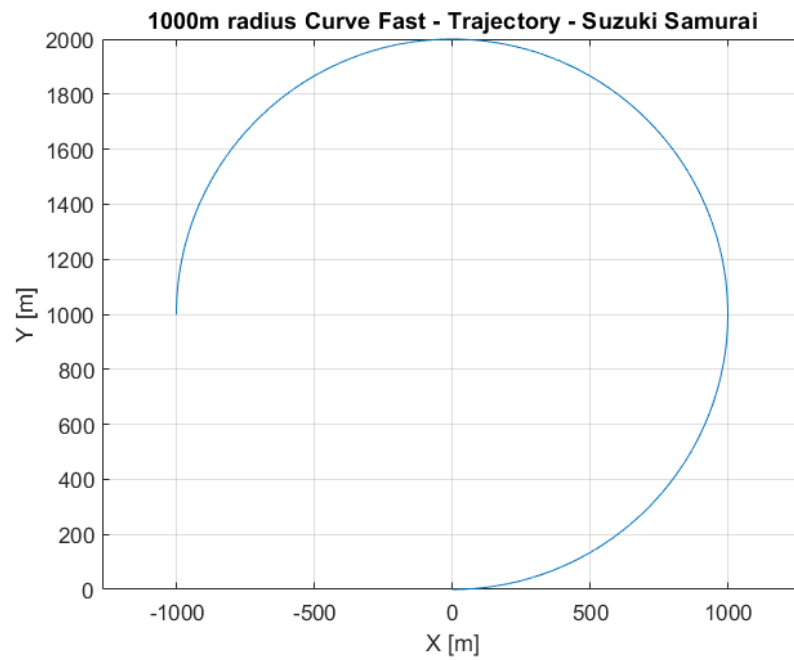


Lateral Deviation

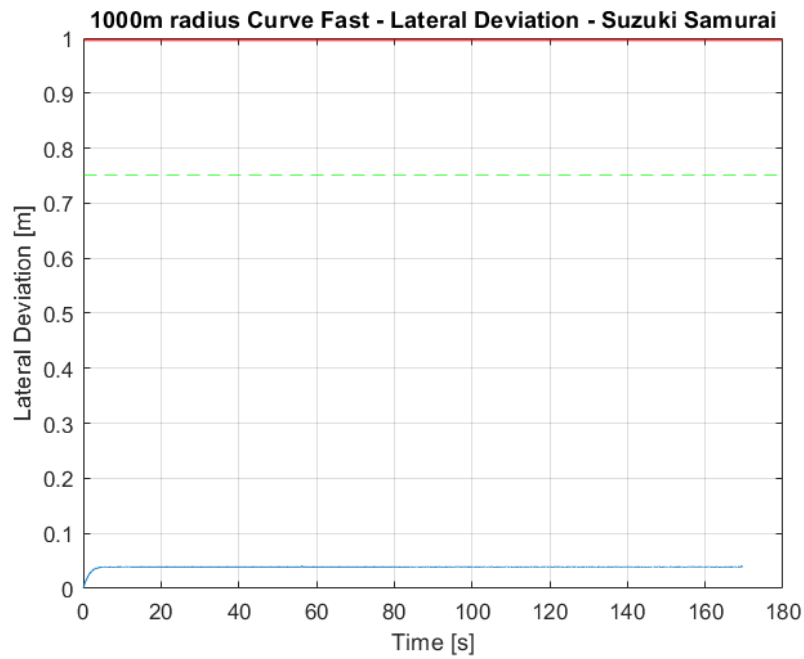


4.10 1000m radius Curve Fast

Trajectory

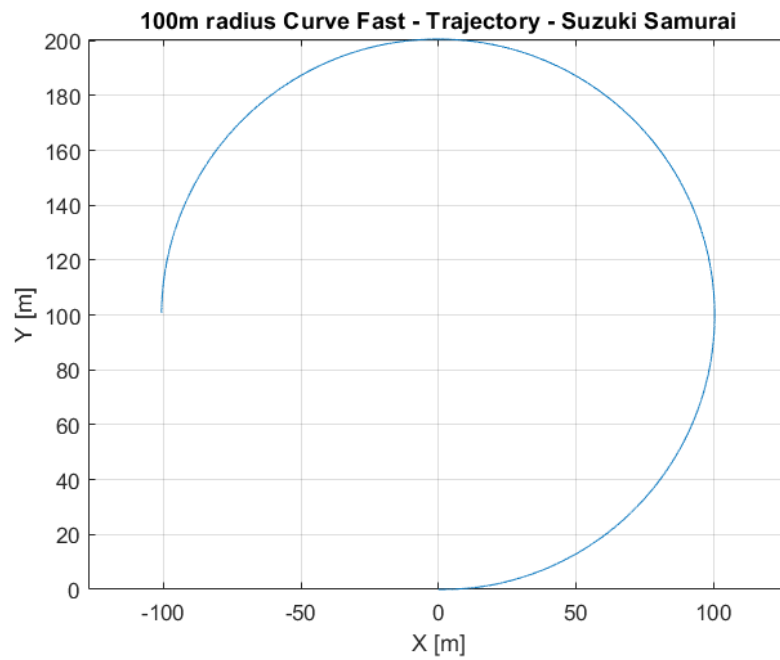


Lateral Deviation

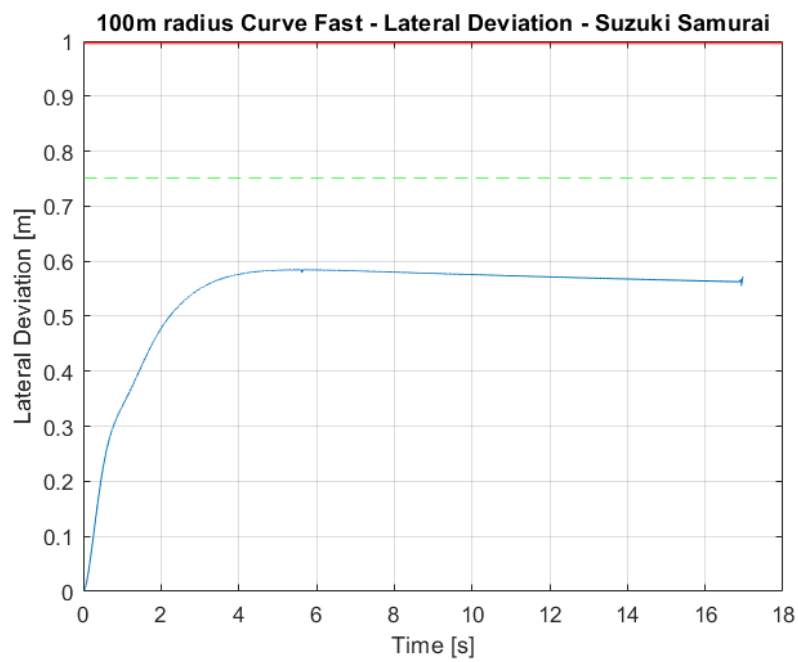


4.11 100m radius Curve Fast

Trajectory

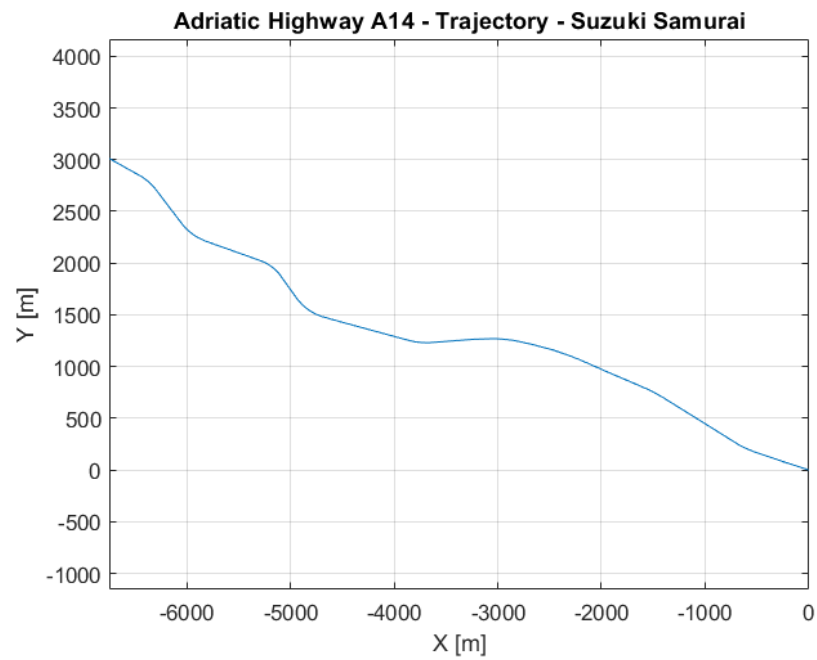


Lateral Deviation

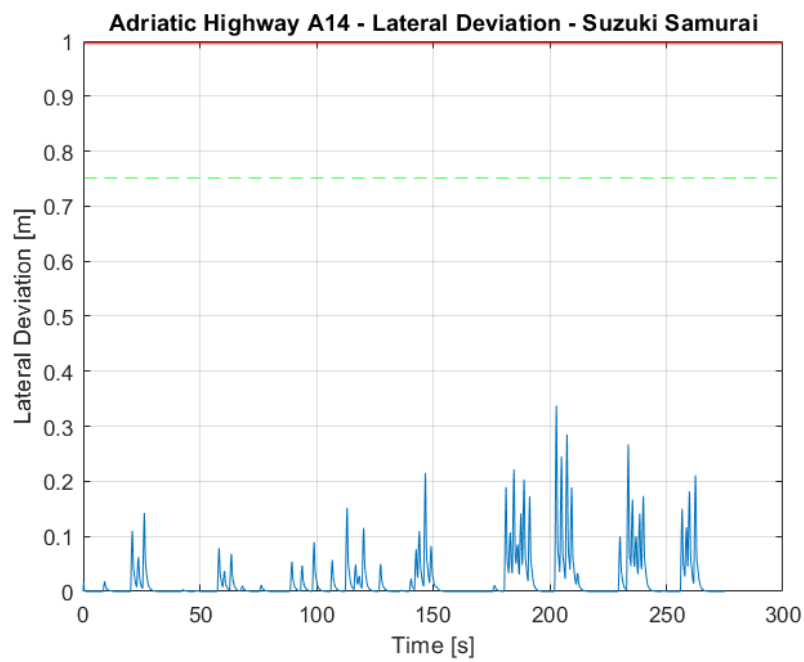


4.12 Adriatic Highway A14

Trajectory

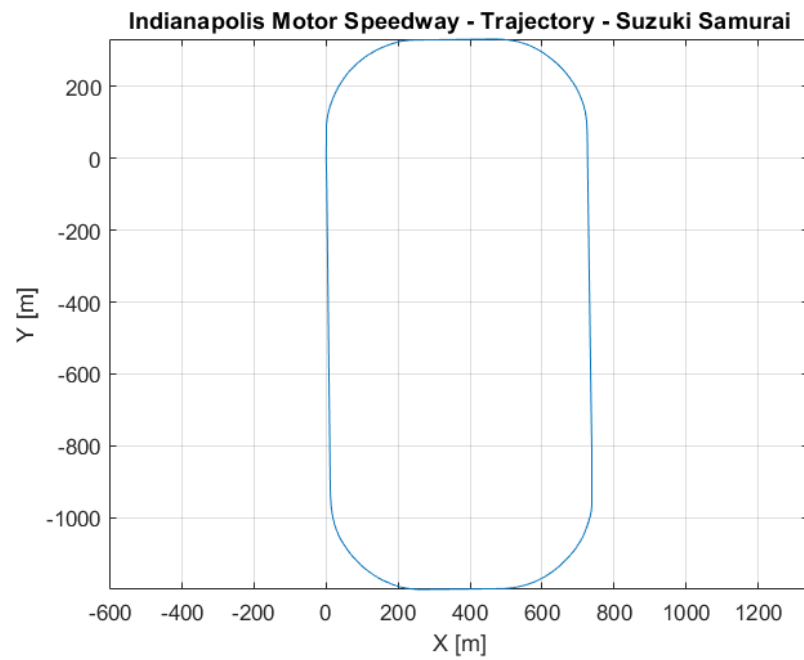


Lateral Deviation

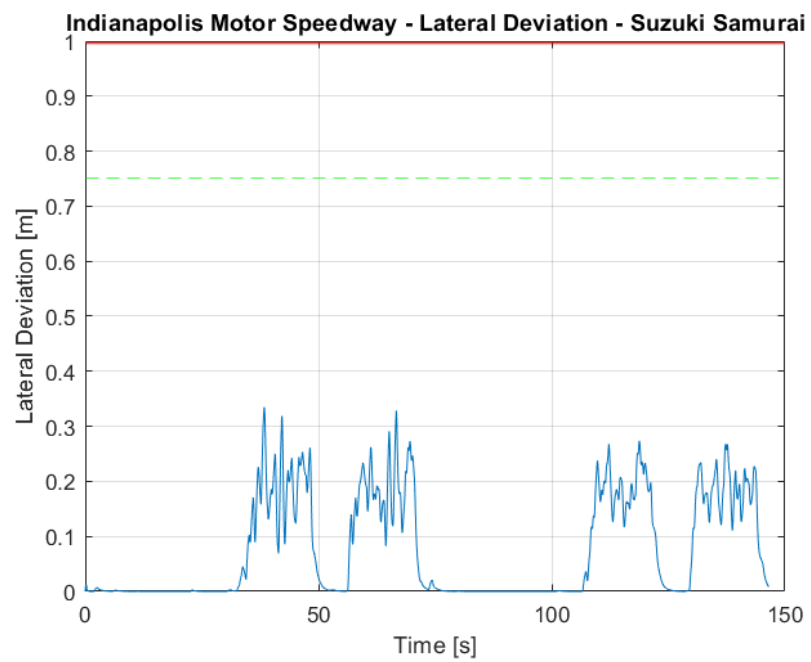


4.13 Indianapolis Motor Speedway

Trajectory



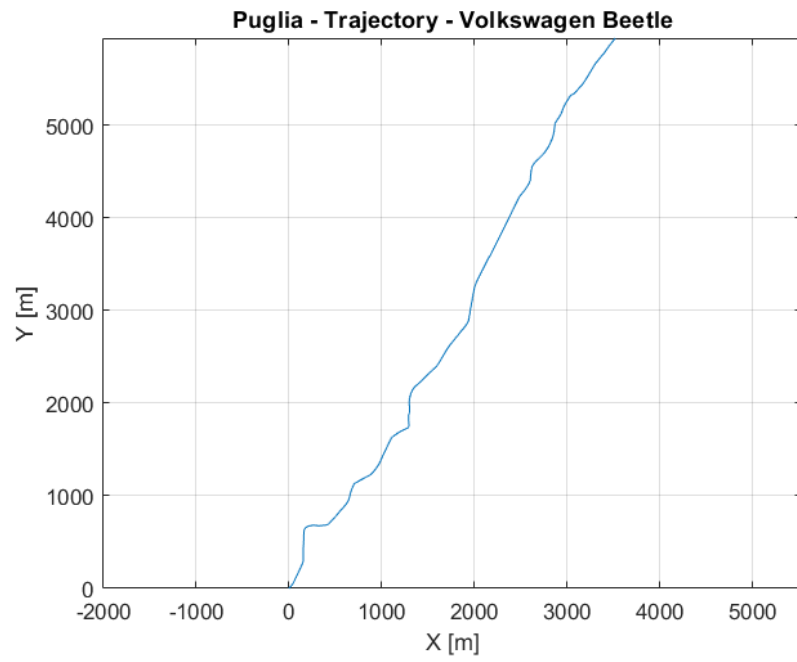
Lateral Deviation



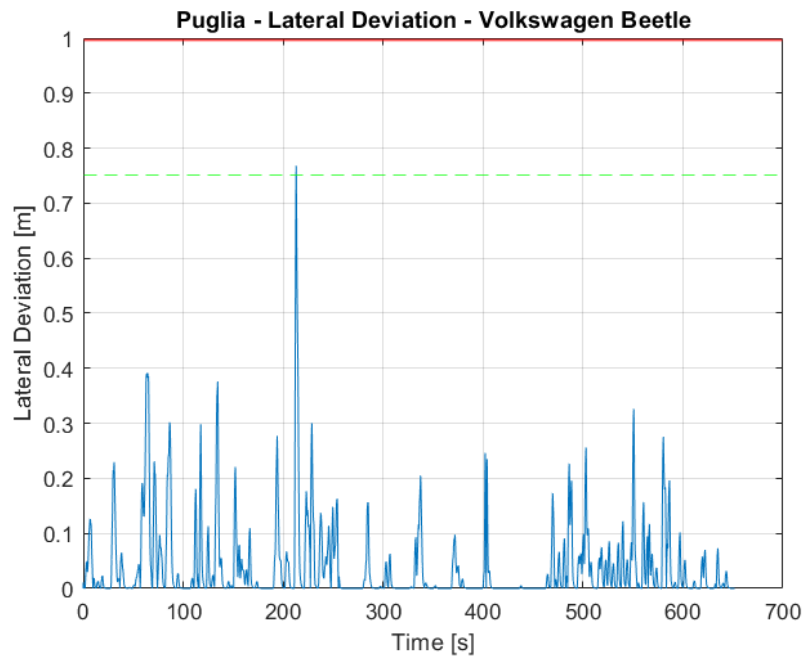
5 Volkswagen Beetle

5.1 Puglia

Trajectory

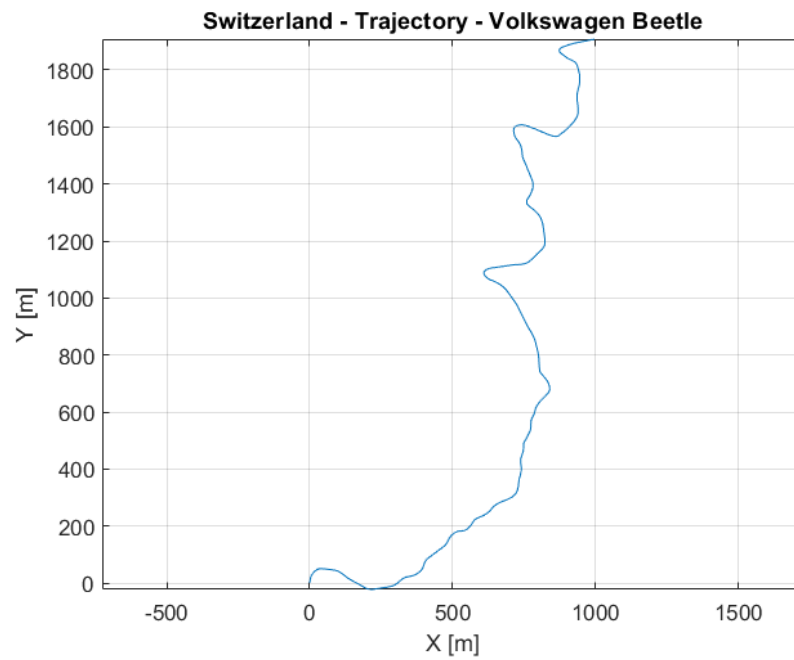


Lateral Deviation

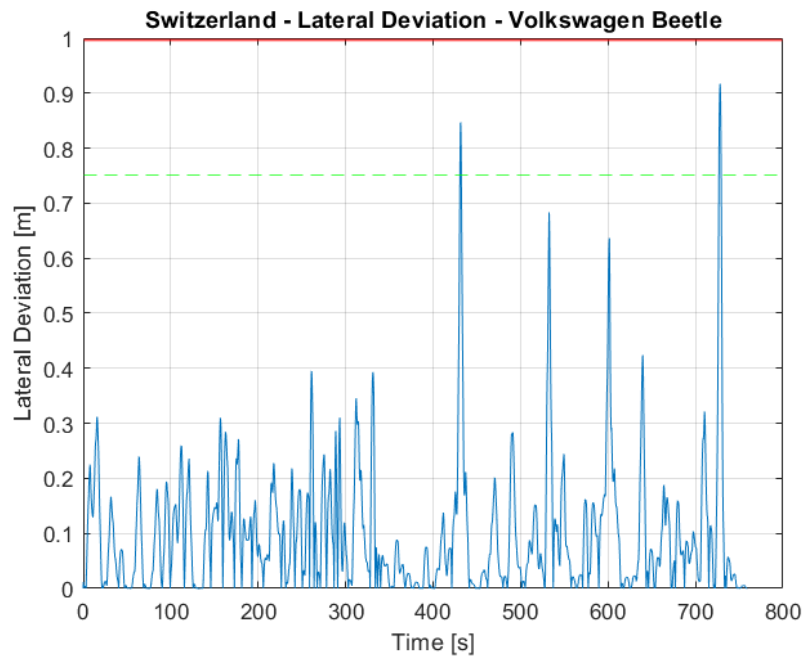


5.2 Switzerland

Trajectory

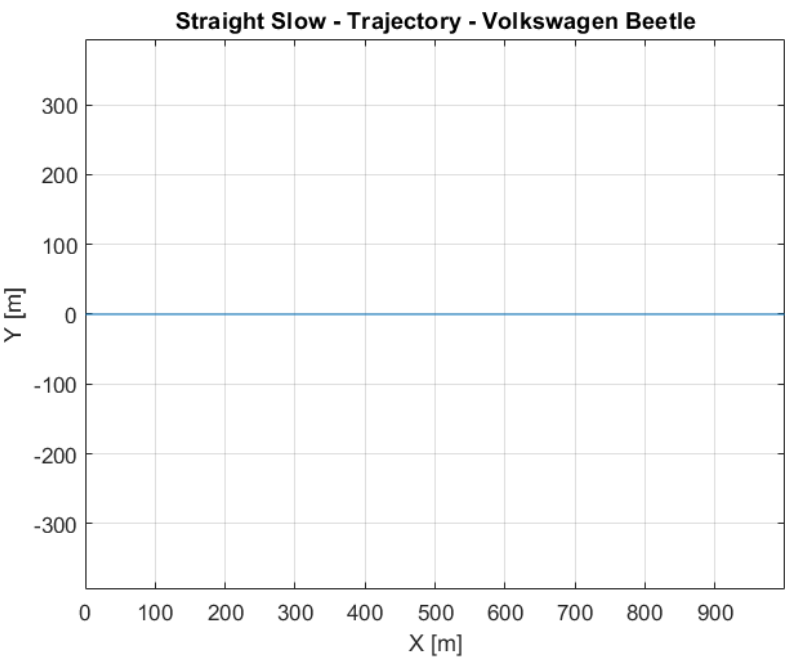


Lateral Deviation

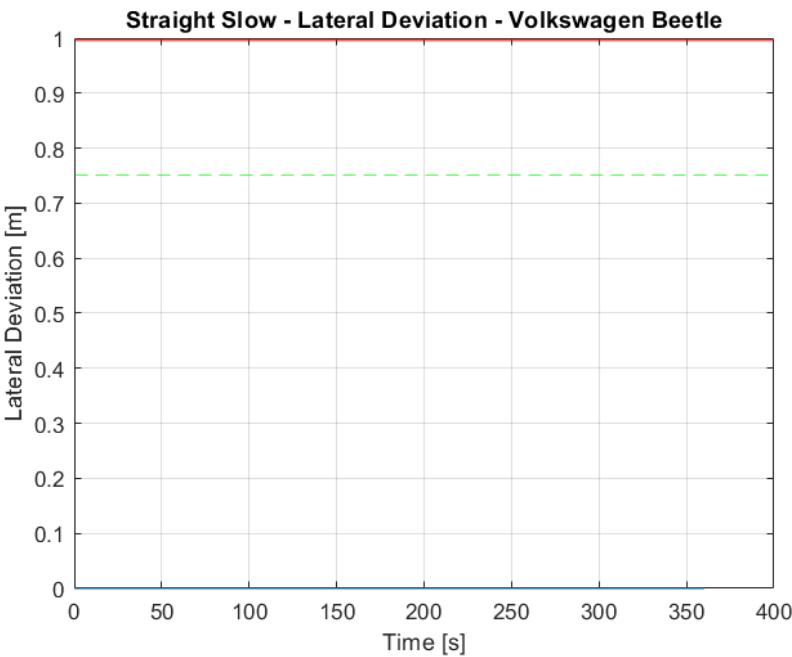


5.3 Straight Slow

Trajectory

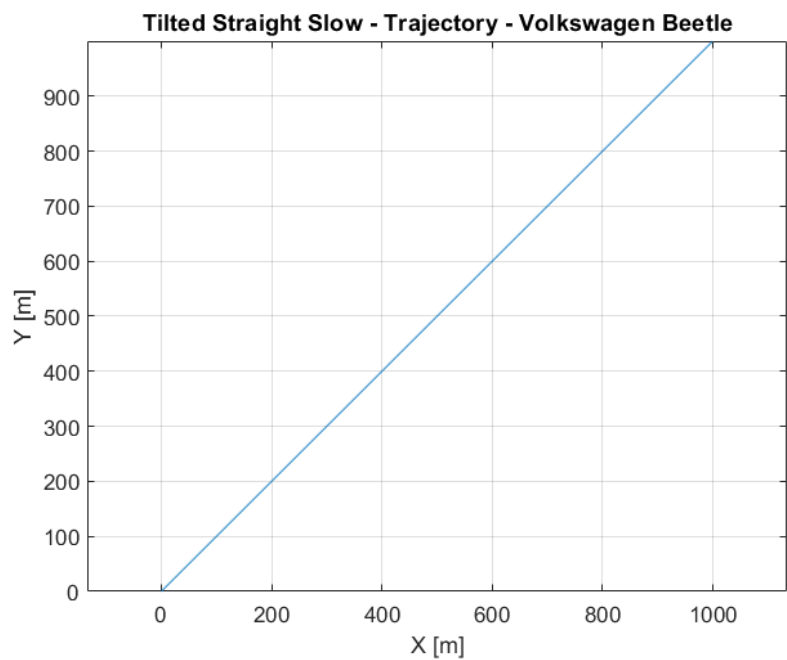


Lateral Deviation

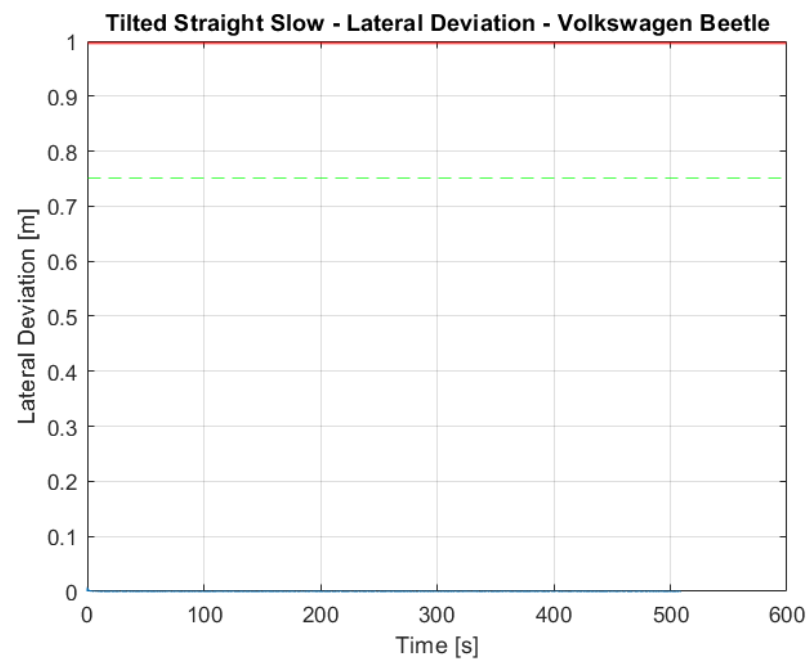


5.4 Tilted Straight Slow

Trajectory

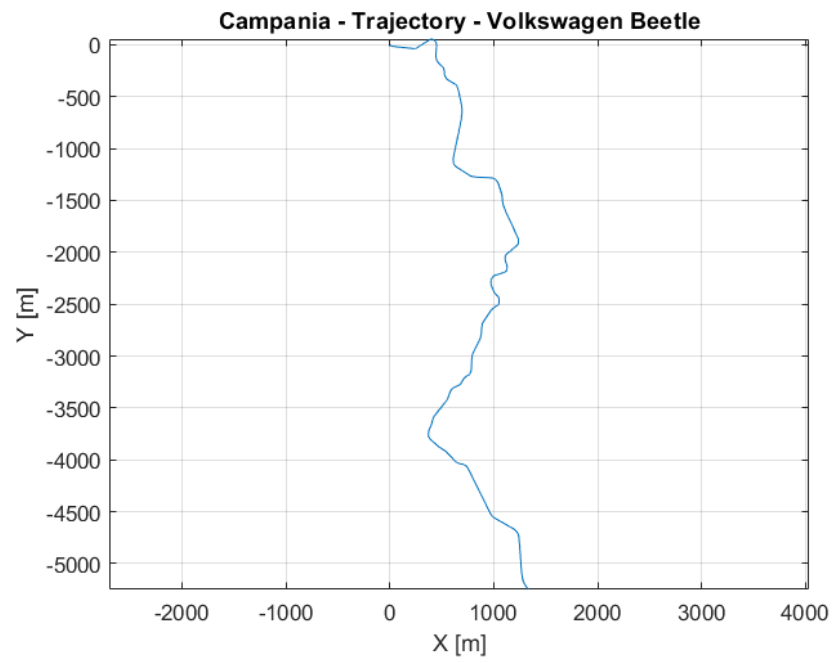


Lateral Deviation

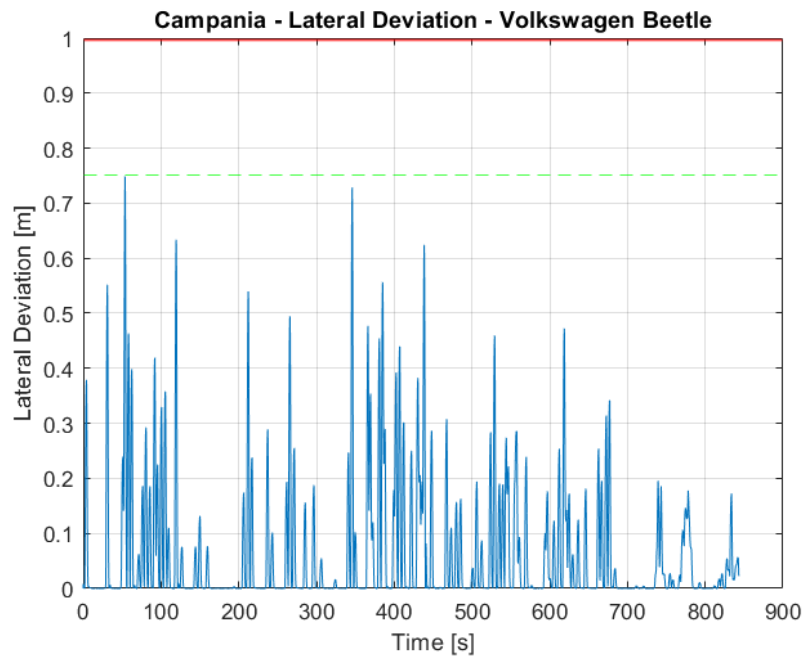


5.5 Campania

Trajectory

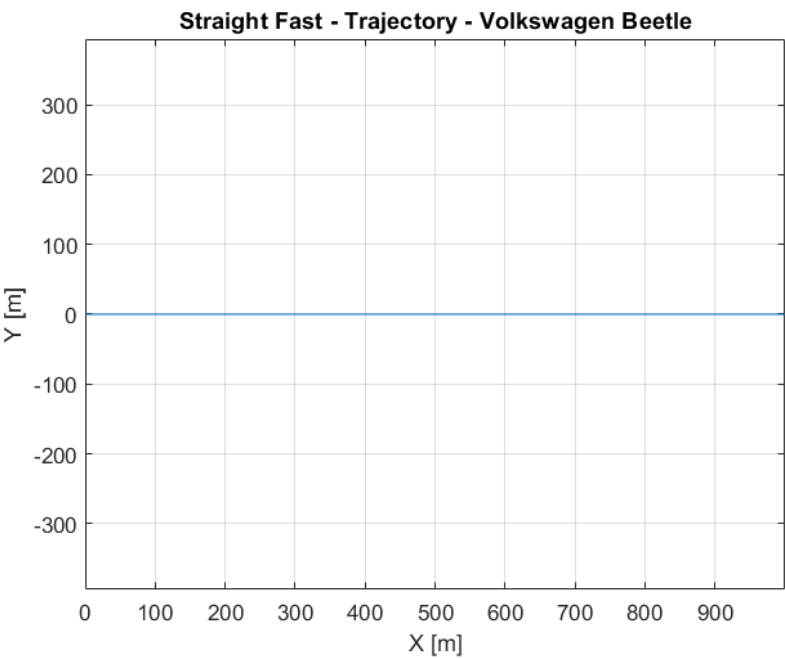


Lateral Deviation

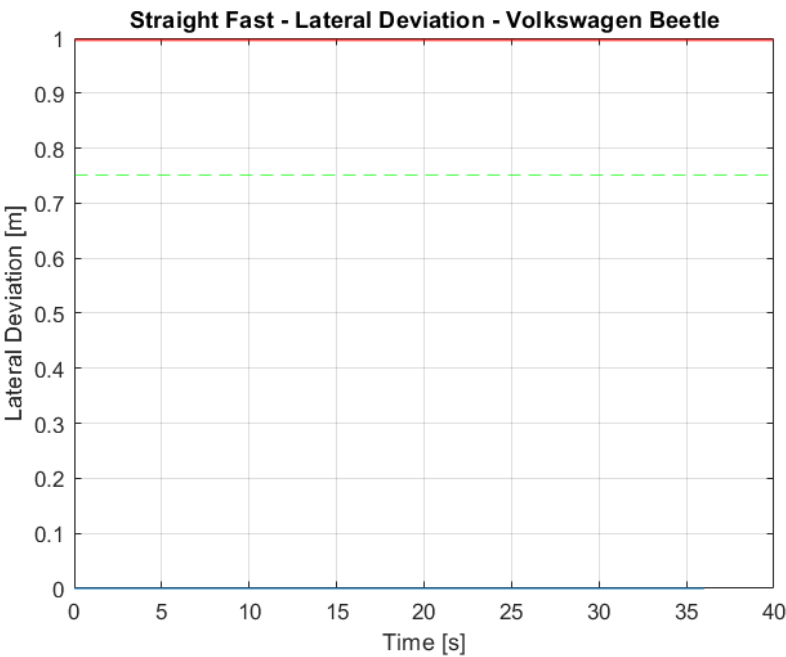


5.6 Straight Fast

Trajectory

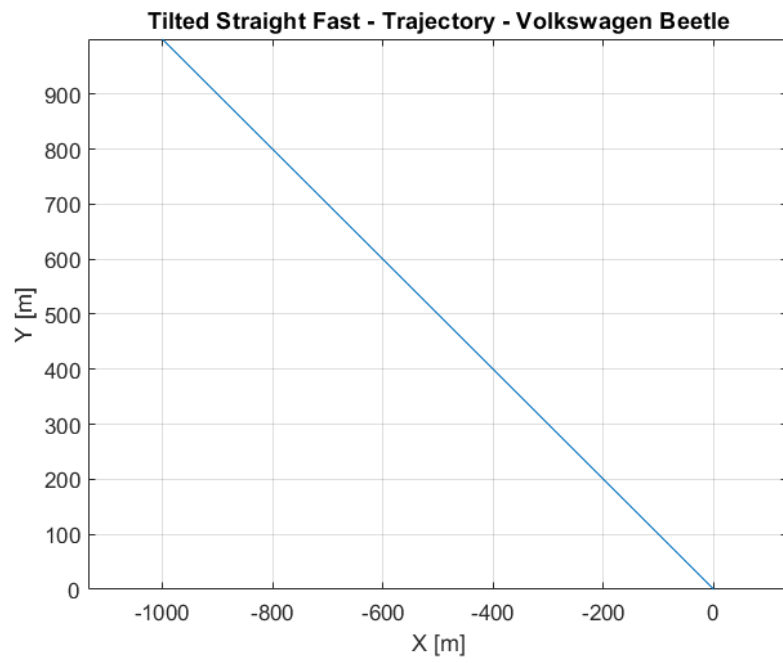


Lateral Deviation

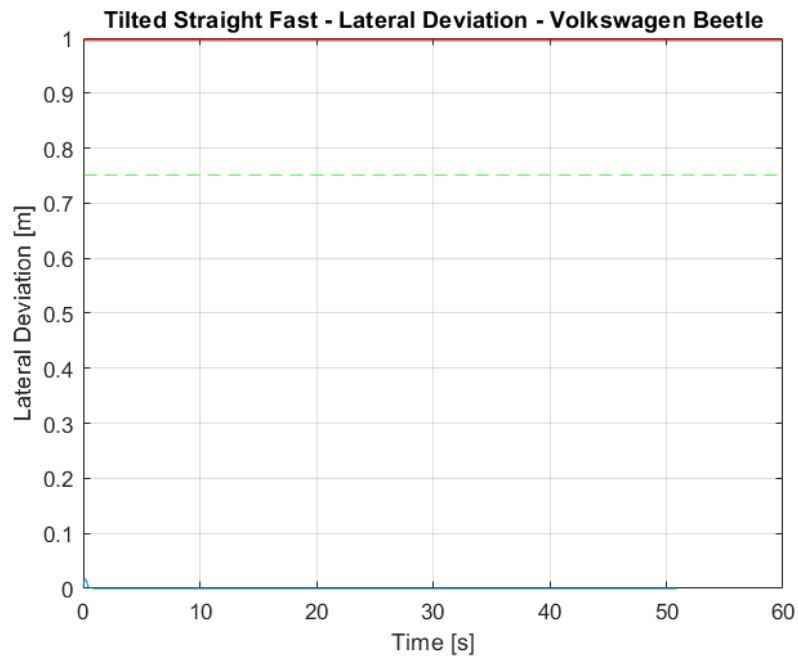


5.7 Tilted Straight Fast

Trajectory

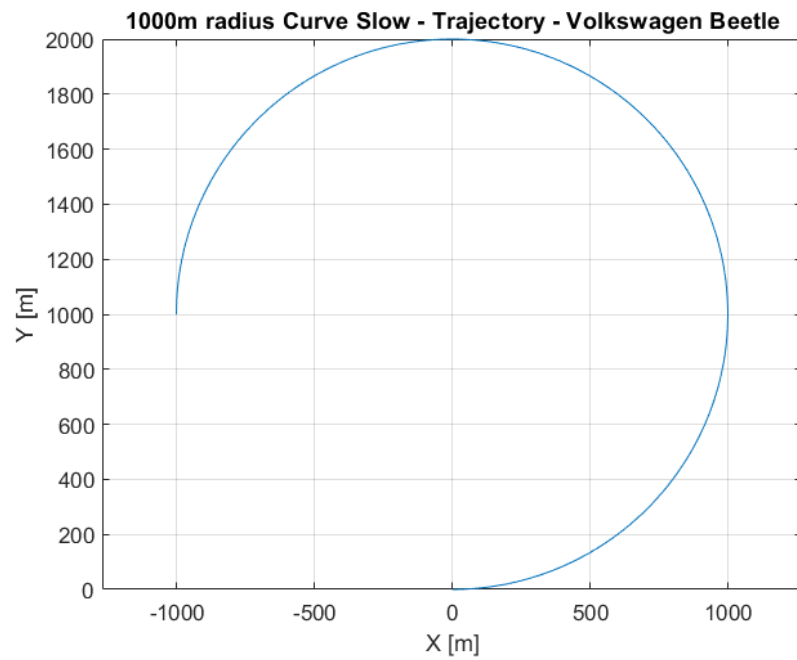


Lateral Deviation

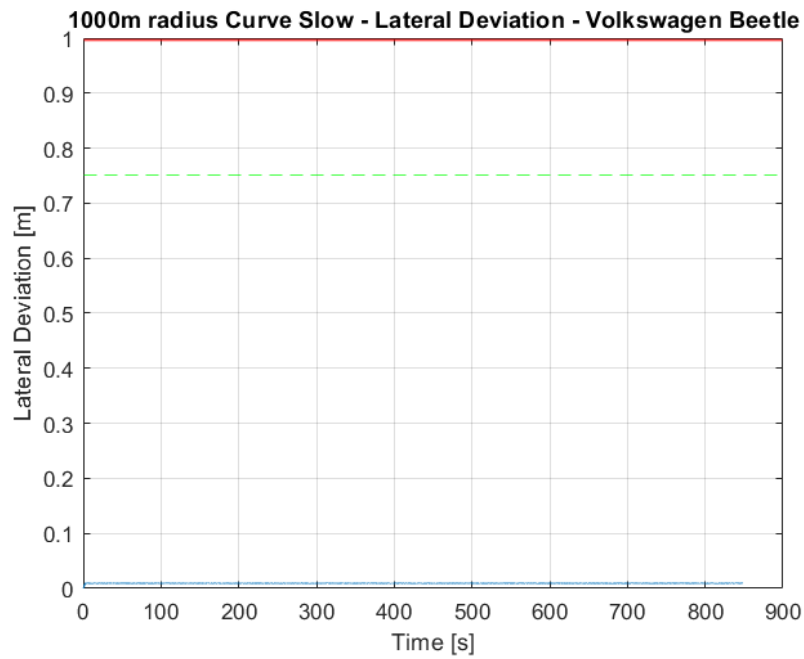


5.8 1000m radius Curve Slow

Trajectory

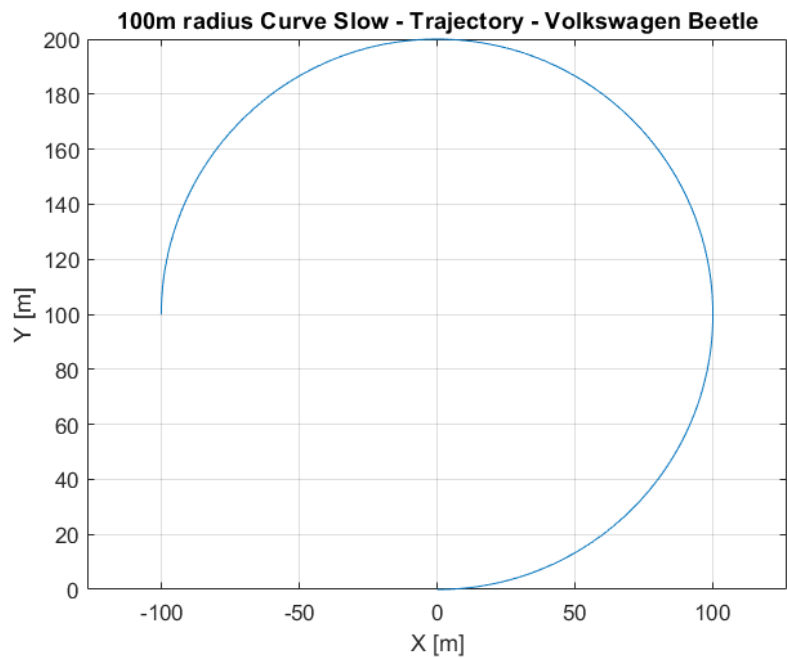


Lateral Deviation

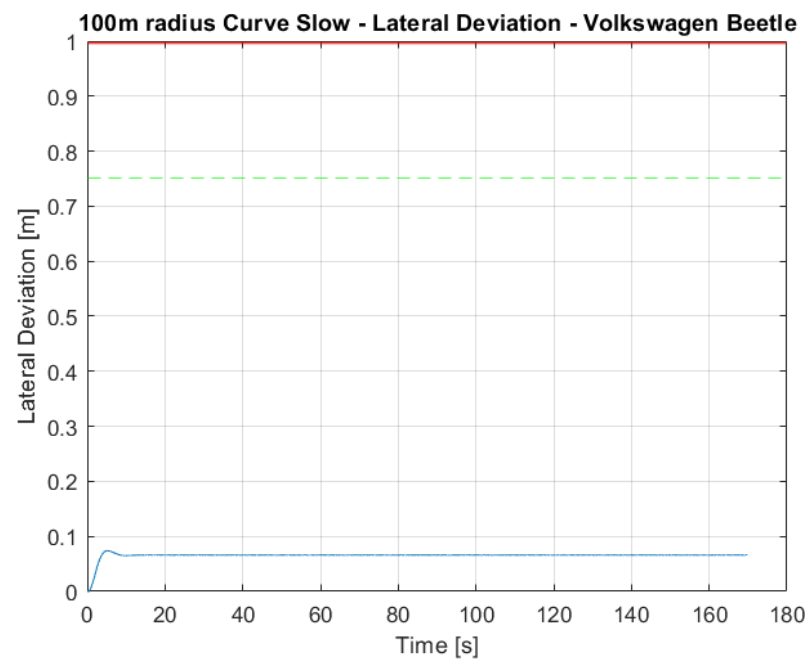


5.9 100m radius Curve Slow

Trajectory

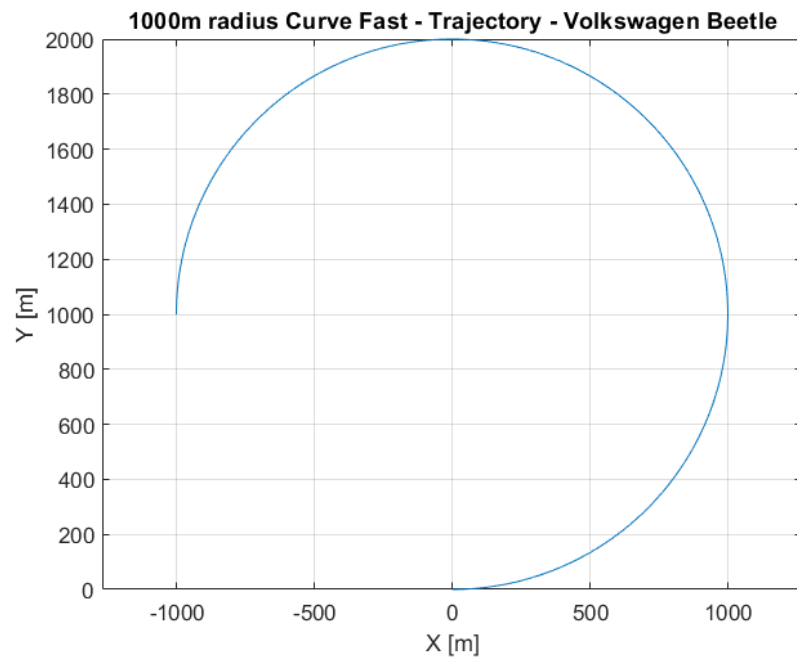


Lateral Deviation

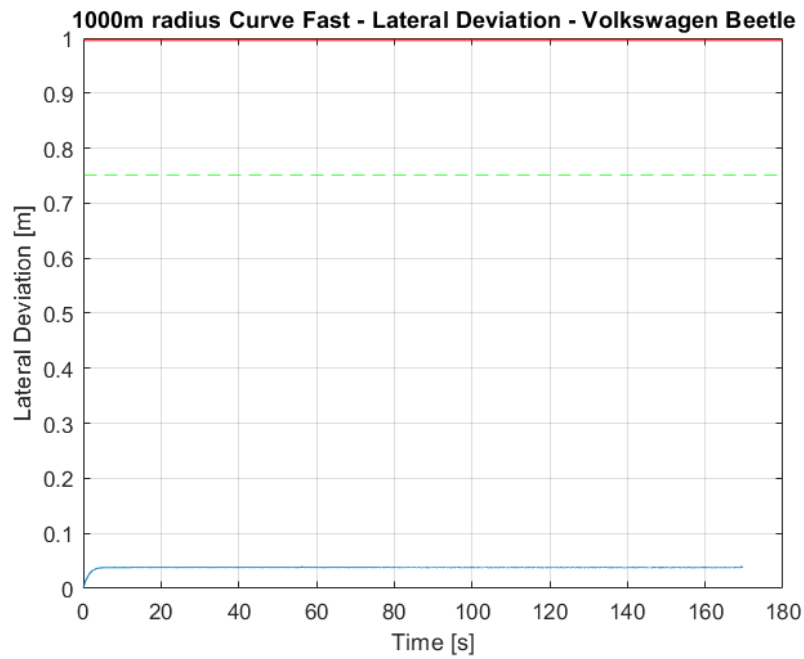


5.10 1000m radius Curve Fast

Trajectory

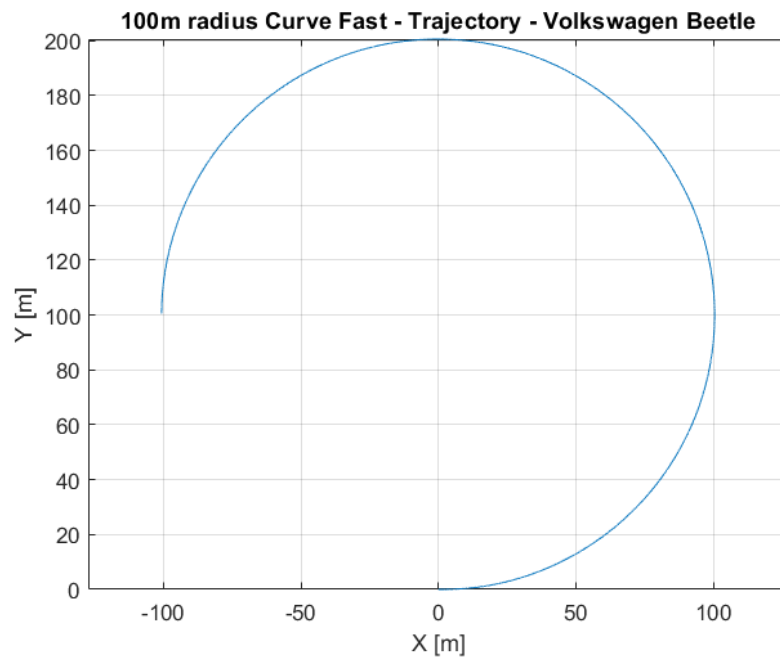


Lateral Deviation

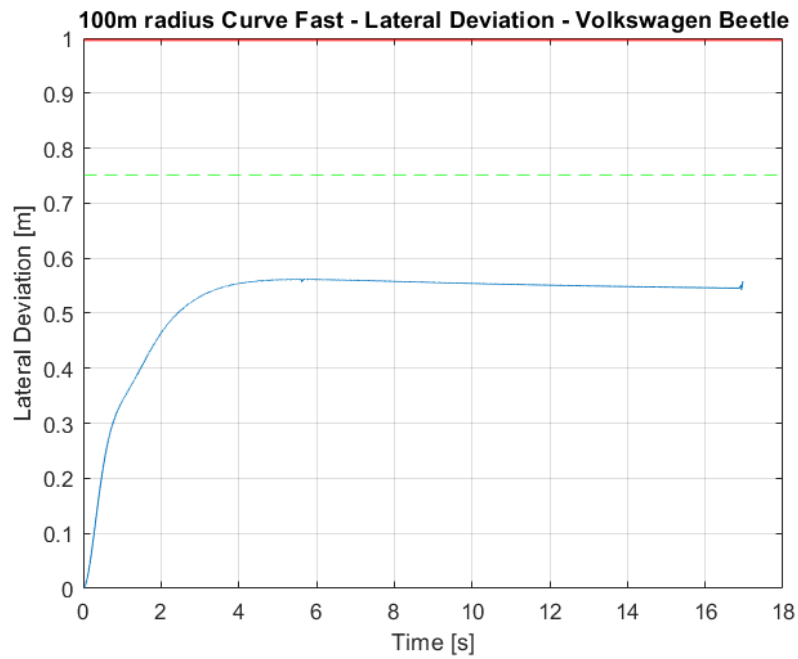


5.11 100m radius Curve Fast

Trajectory

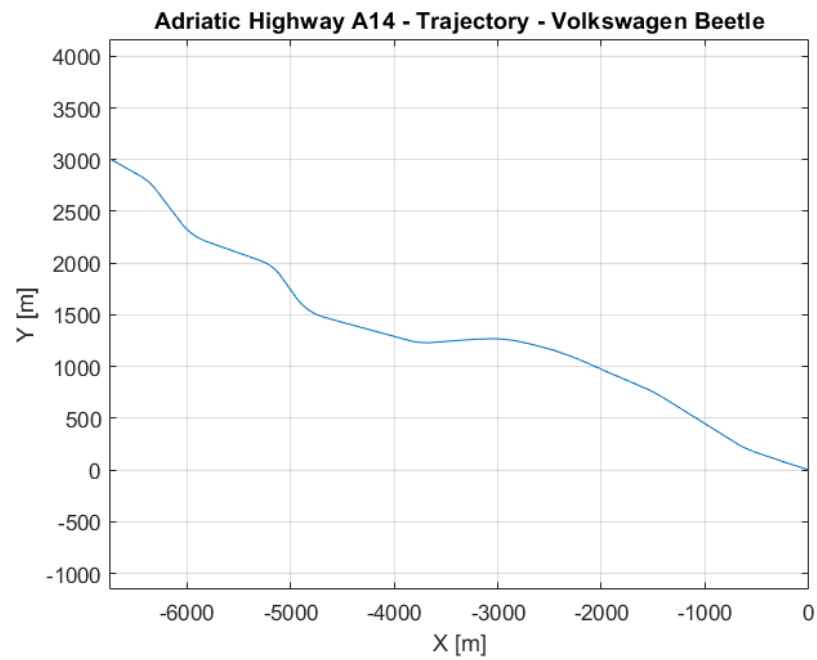


Lateral Deviation

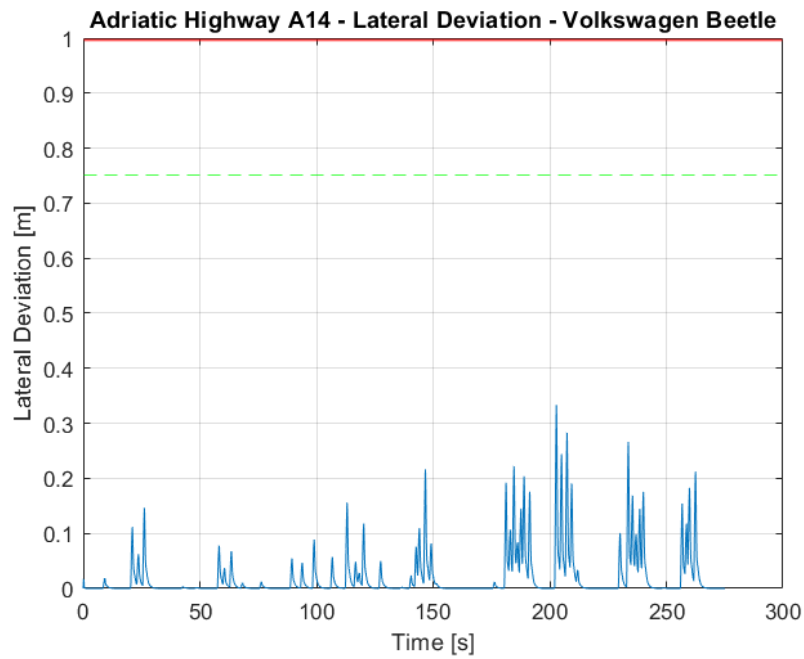


5.12 Adriatic Highway A14

Trajectory

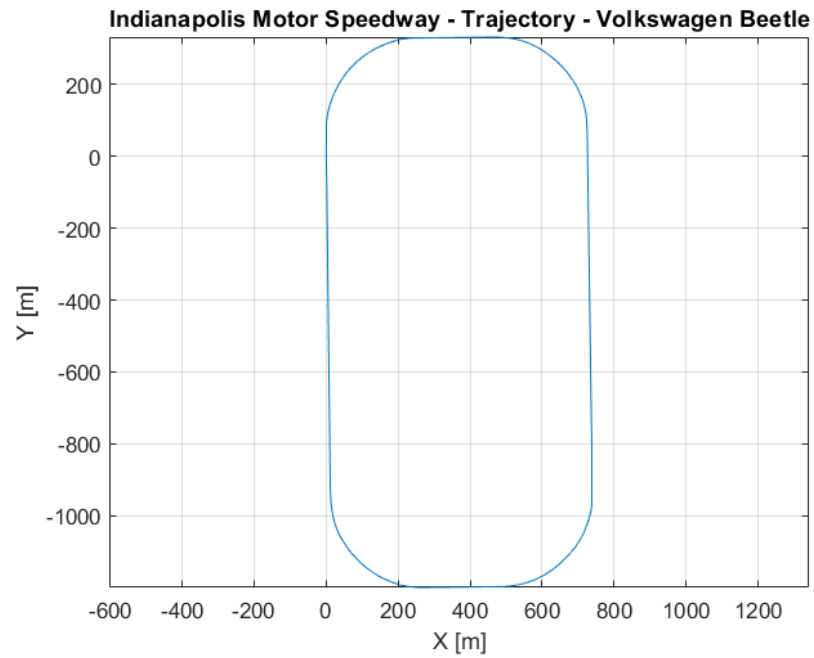


Lateral Deviation



5.13 Indianapolis Motor Speedway

Trajectory



Lateral Deviation

