

In [10]: runfile('C:/Users/Andre/Desktop/Senior Design/Acceleration Algorithm [4.0].py', wdir='C:/Users/Andre/Desktop/Senior Design')

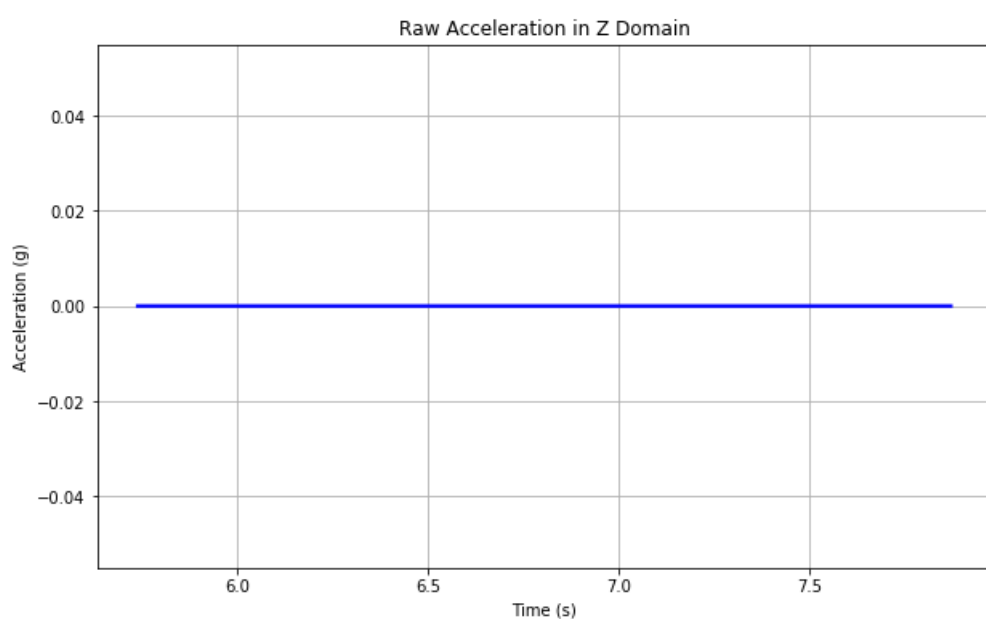
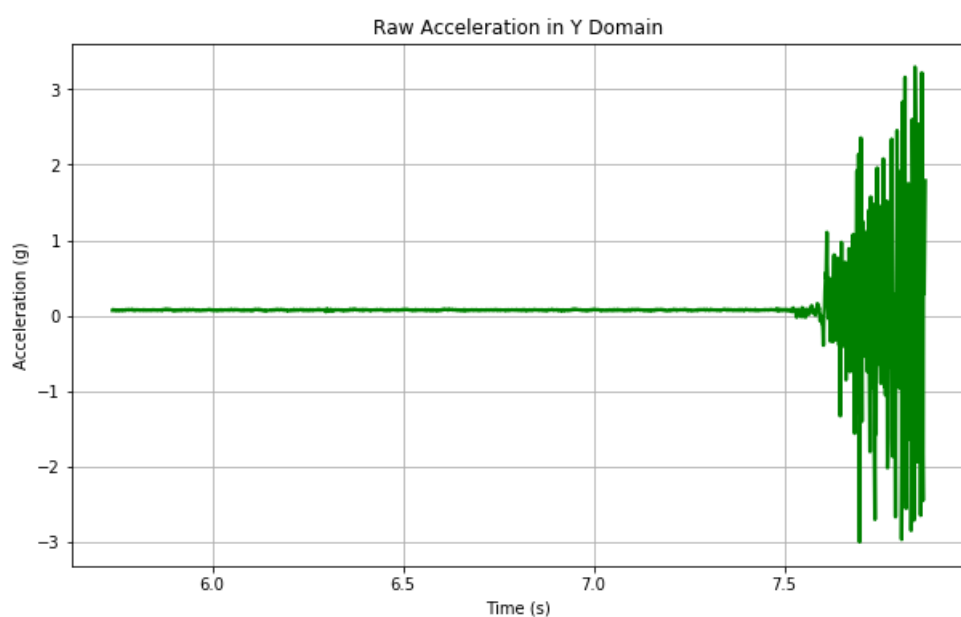
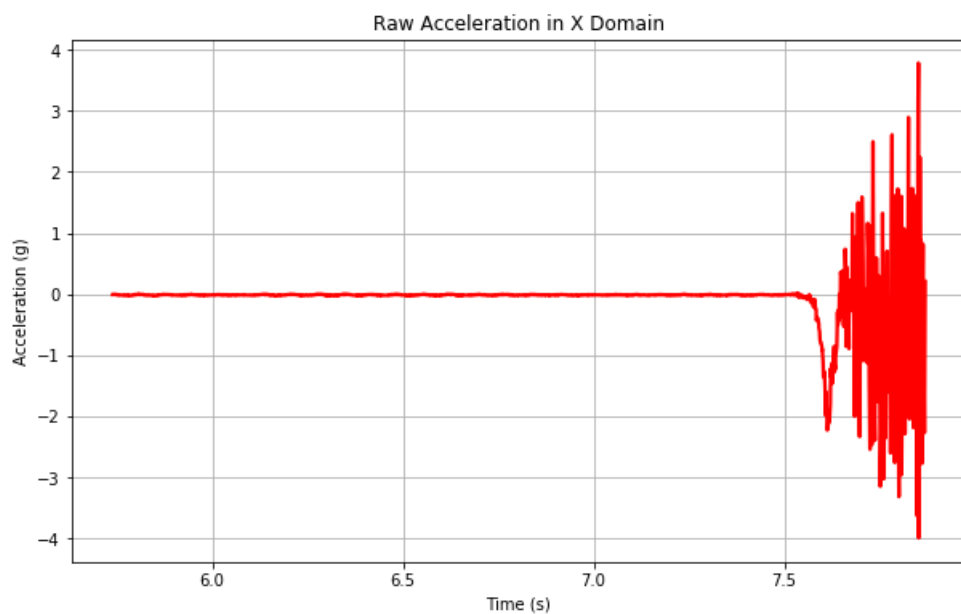
*** FILE METRICS ***

Semester 2 -X Test1 800Hz +- 4Gs Jan 29 2019 (Edited Feb 2 2019).csv is being analyzed

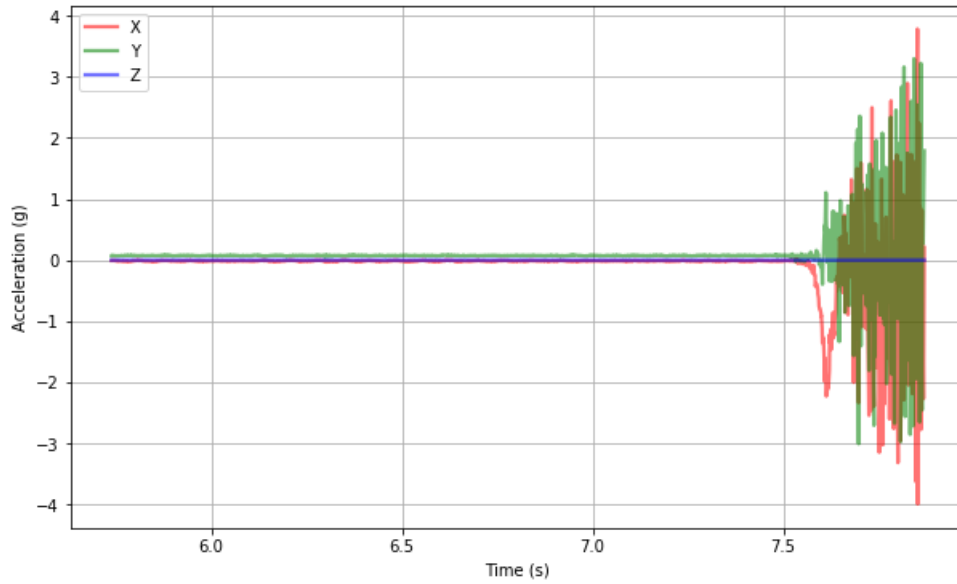
Data Size: 0.10 MB

Samples: 1702

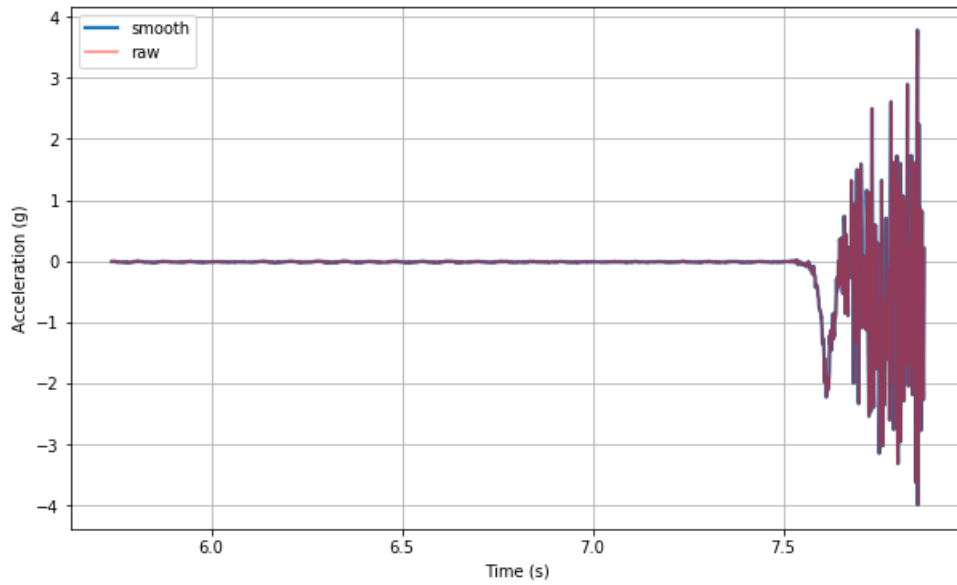
Time elapsed: 7.87 s



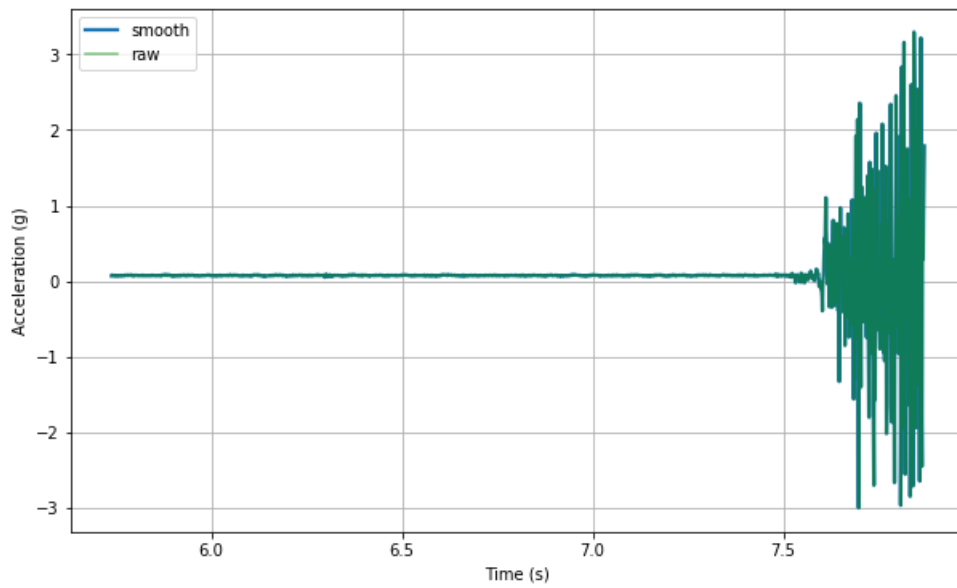
Raw Accelerations in X, Y, Z Domains

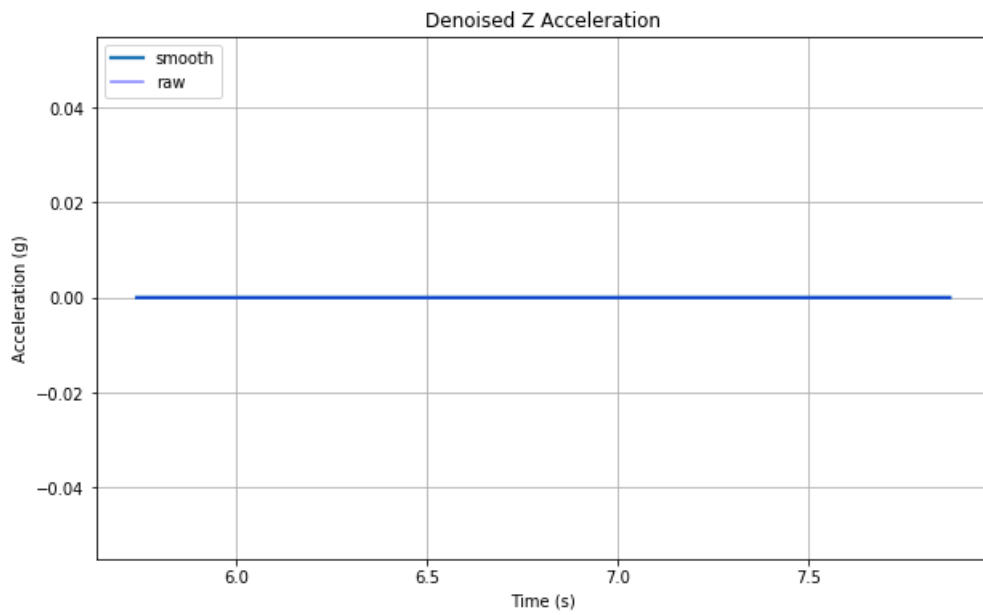


Denoised X Acceleration

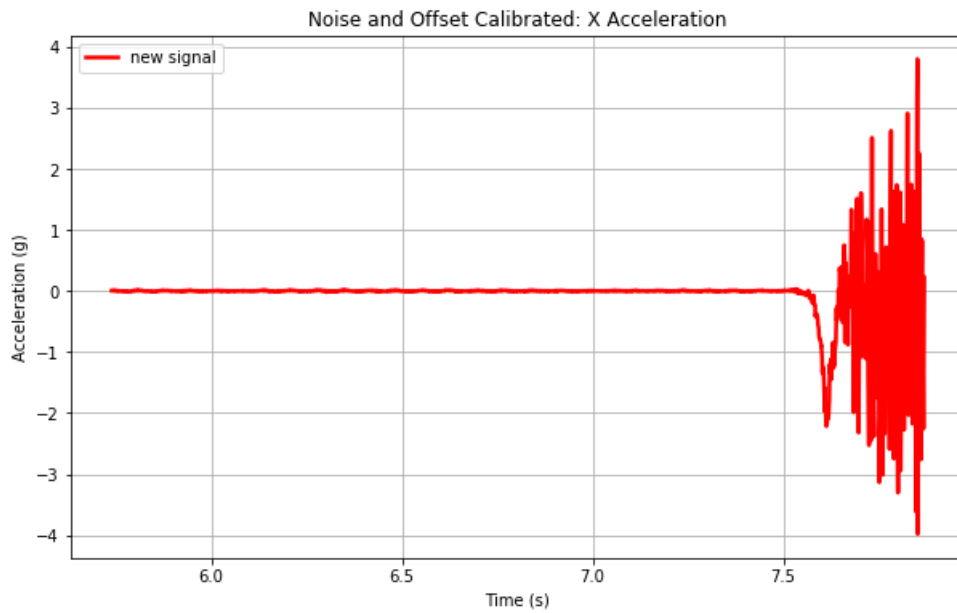


Denoised Y Acceleration

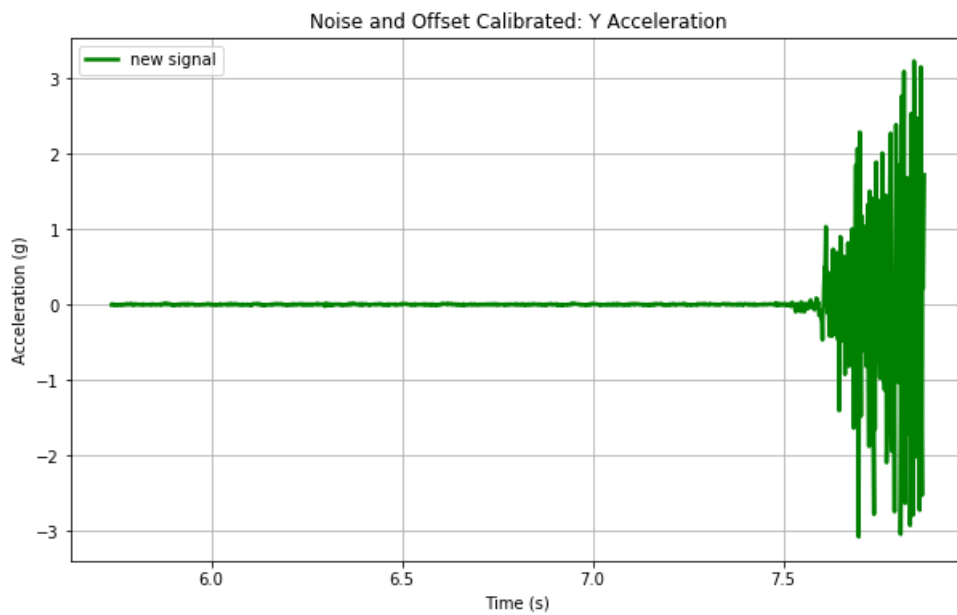




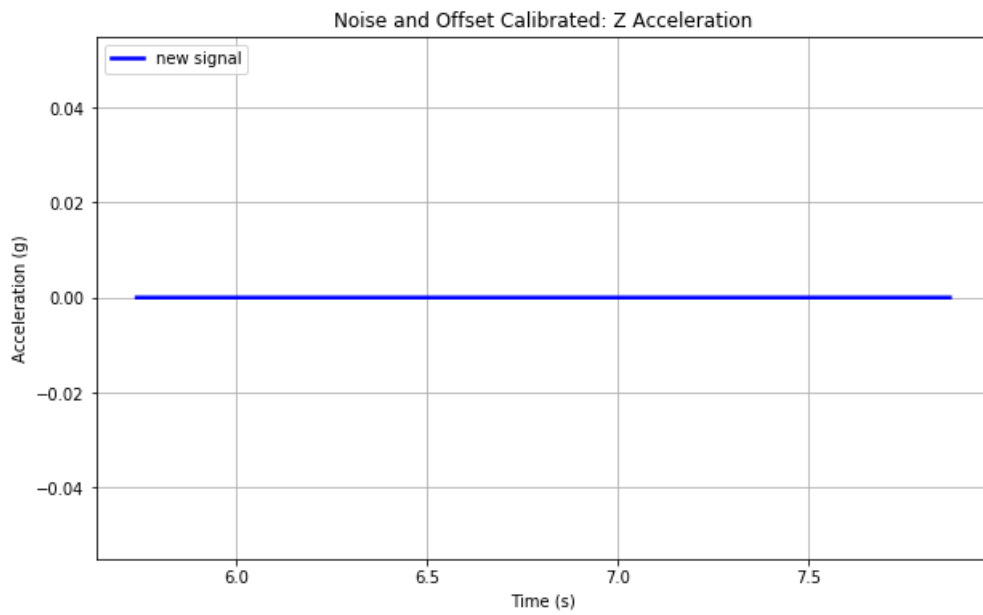
Offset first 200 samples X: %.4f -0.01452
Offset first 200 samples Y: %.4f 0.07257
Offset first 200 samples Z: %.4f 1.0



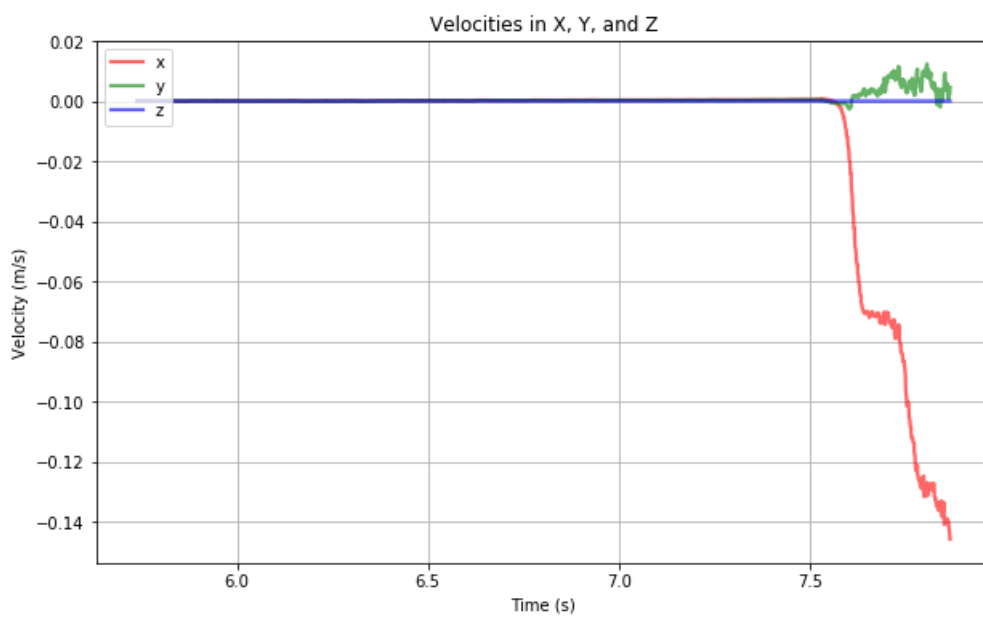
Updated Offset first 200 samples: -0.0009300000000000006



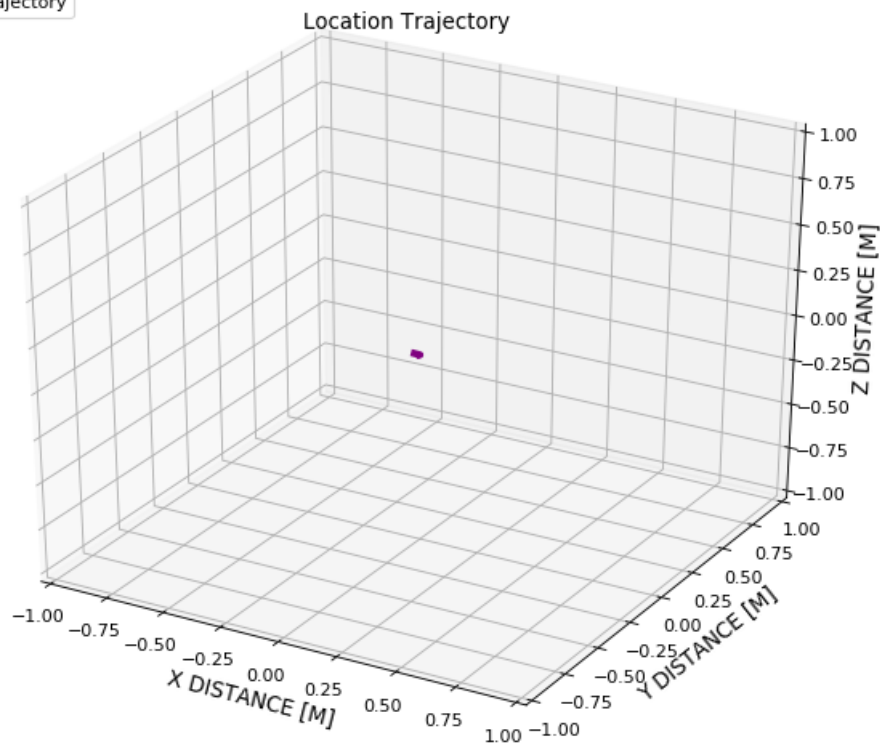
Updated Offset first 200 samples: -0.000119999999999999442



Updated Offset first 200 samples: 0.0



Trajectory



In [11]: runfile('C:/Users/Andre/Desktop/Senior Design/Acceleration Algorithm [4.0].py', wdir='C:/Users/Andre/Desktop/Senior Design')

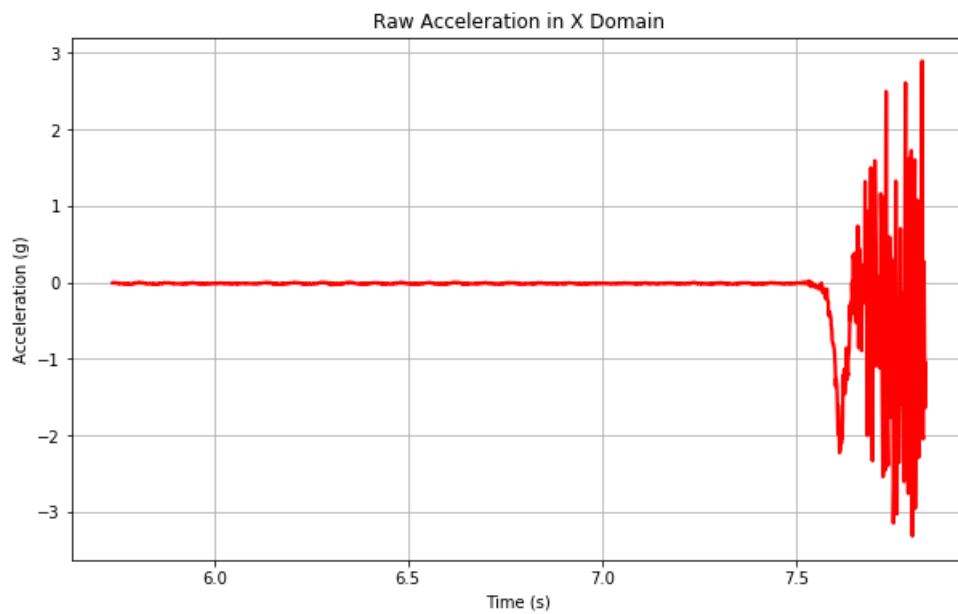
*** FILE METRICS ***

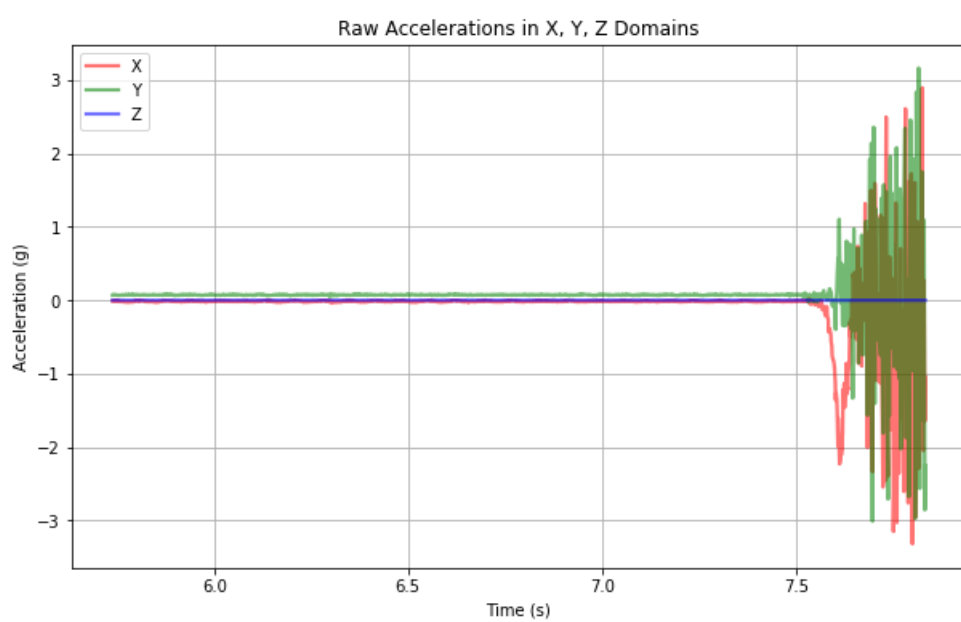
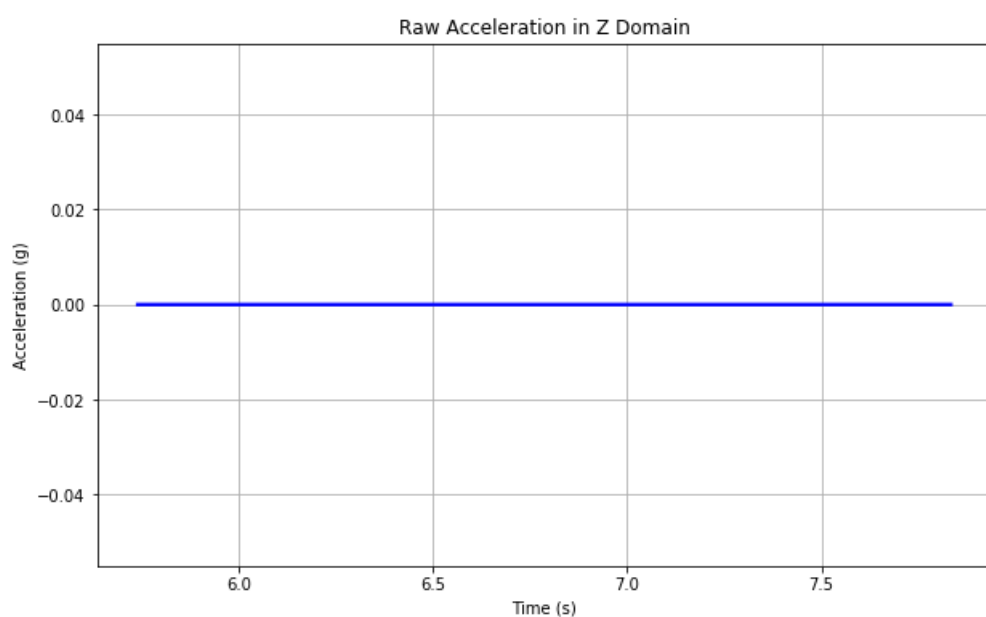
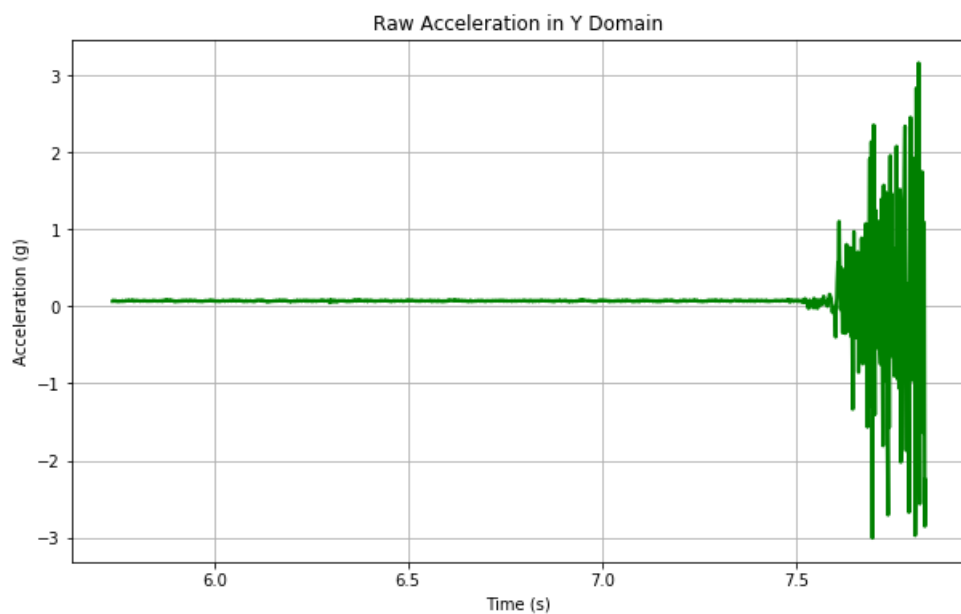
Semester 2 -X Test1 800Hz +- 4Gs Jan 29 2019 (Edited Feb 2 2019).csv is being analyzed

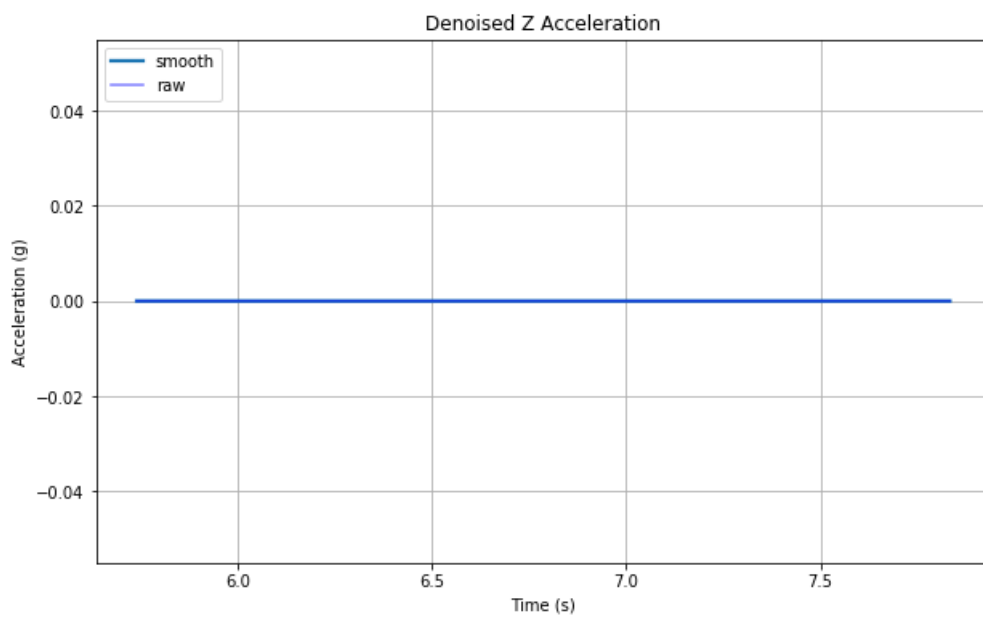
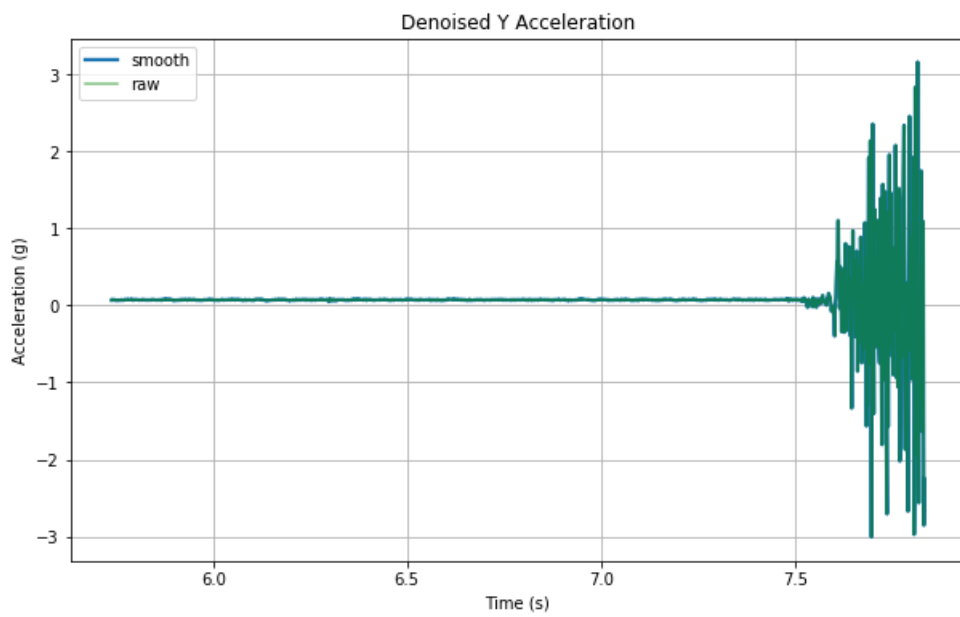
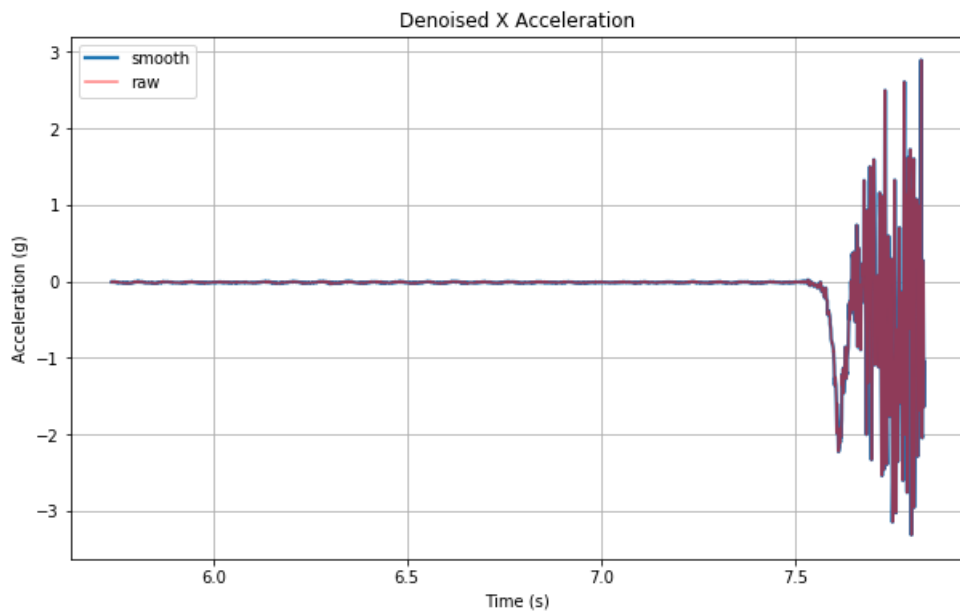
Data Size: 0.10 MB

Samples: 1674

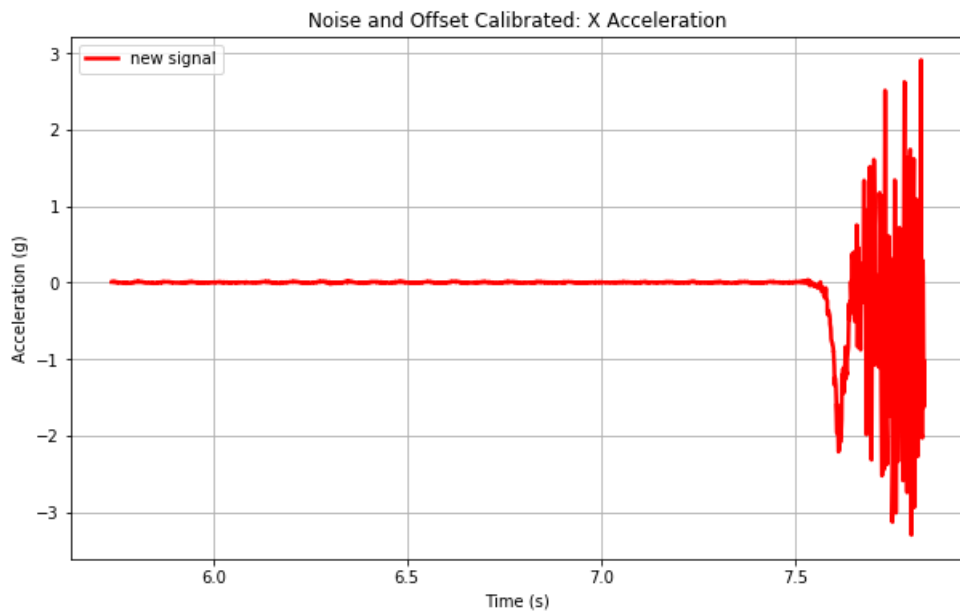
Time elapsed: 7.834 s



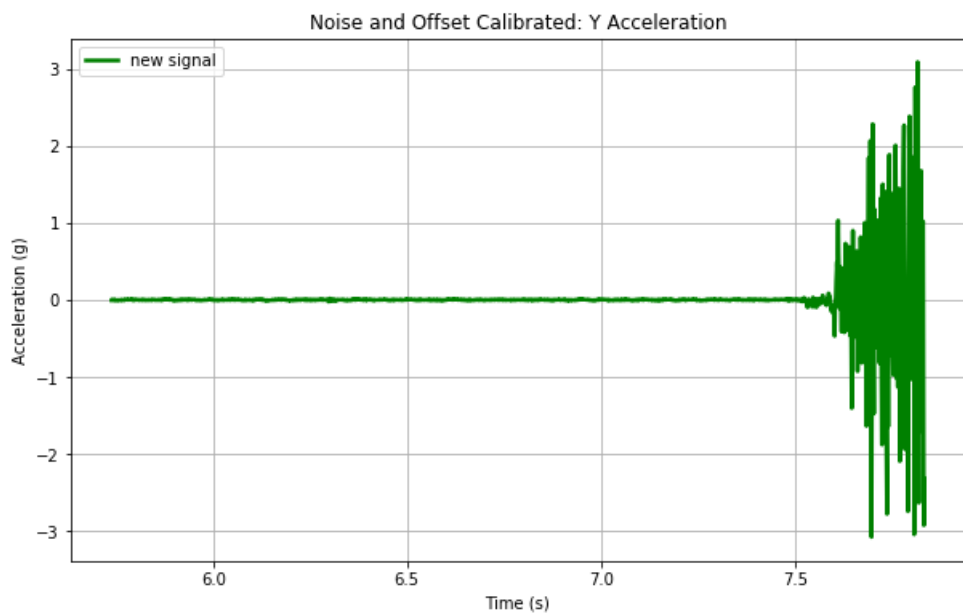




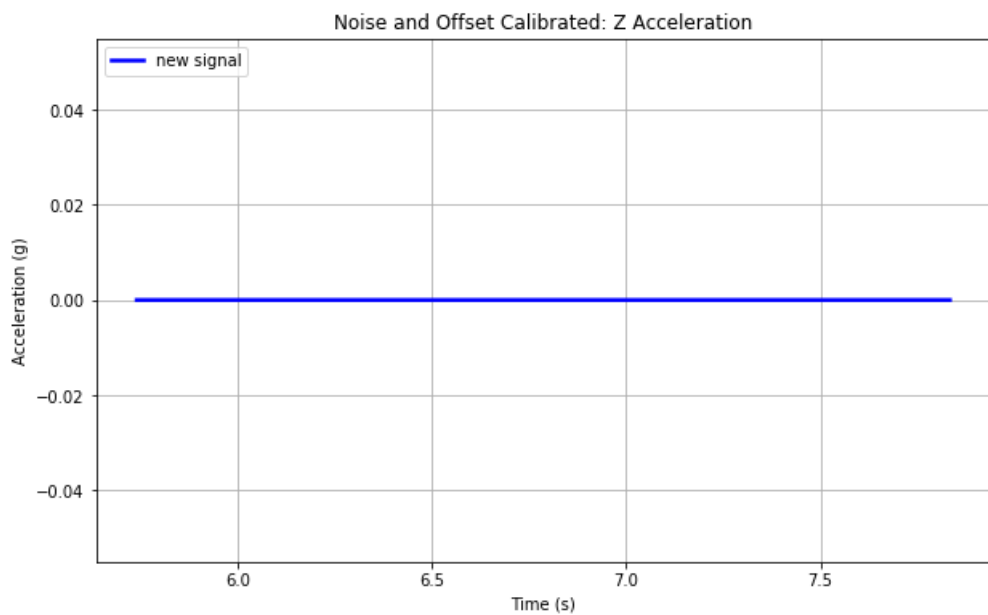
Offset first 200 samples X: %.4f -0.01452
Offset first 200 samples Y: %.4f 0.07257
Offset first 200 samples Z: %.4f 1.0



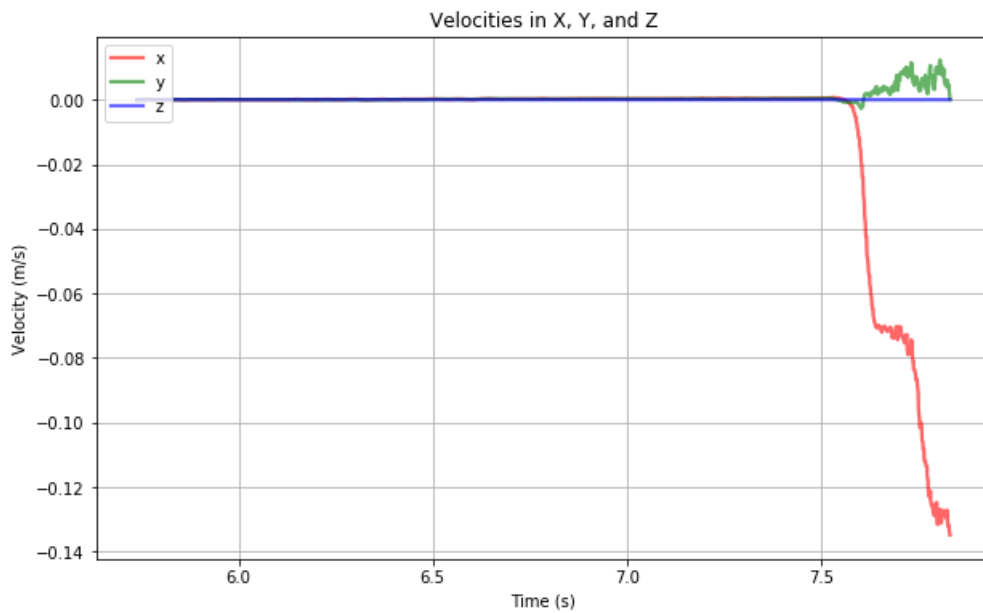
Updated Offset first 200 samples: -0.0009300000000000006



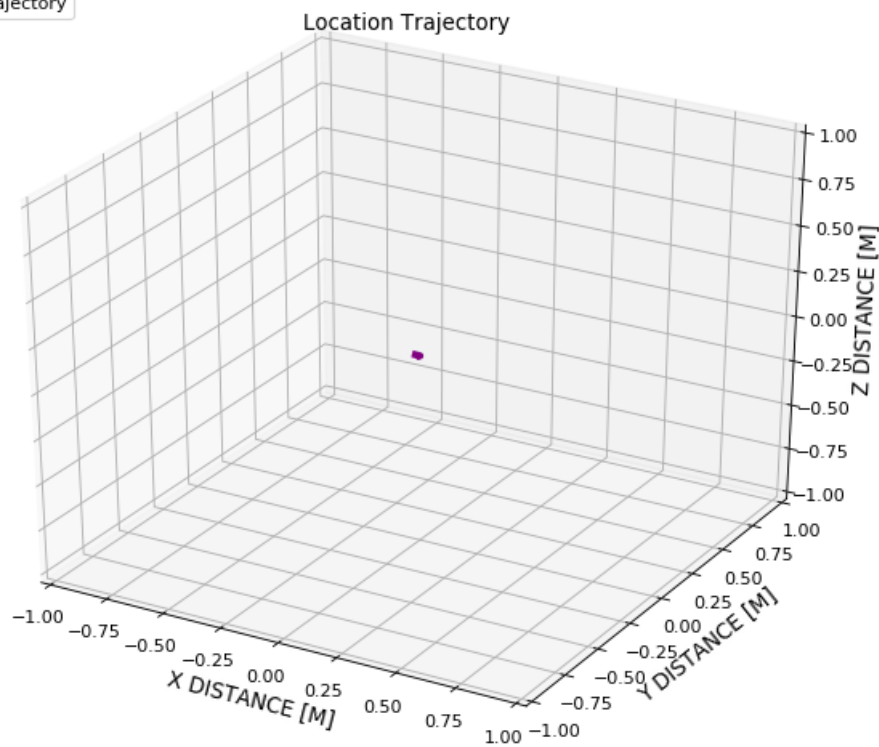
Updated Offset first 200 samples: -0.00011999999999999942



Updated Offset first 200 samples: 0.0



— Trajectory



In [12]: `runfile('C:/Users/Andre/Desktop/Senior Design/Acceleration Algorithm [4.0].py', wdir='C:/Users/Andre/Desktop/Senior Design')`

*** FILE METRICS ***

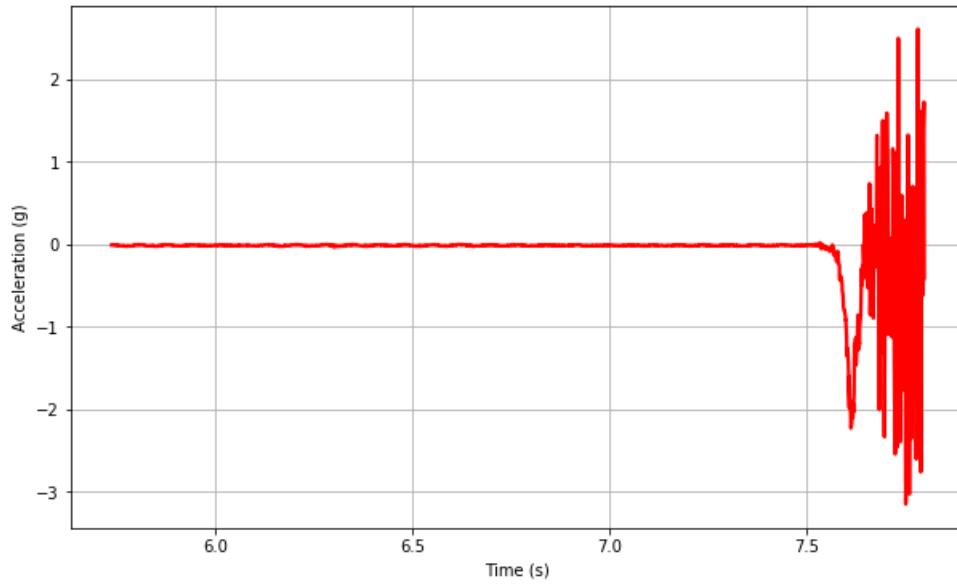
Semester 2 -X Test1 800Hz +- 4Gs Jan 29 2019 (Edited Feb 2 2019).csv is being analyzed

Data Size: 0.10 MB

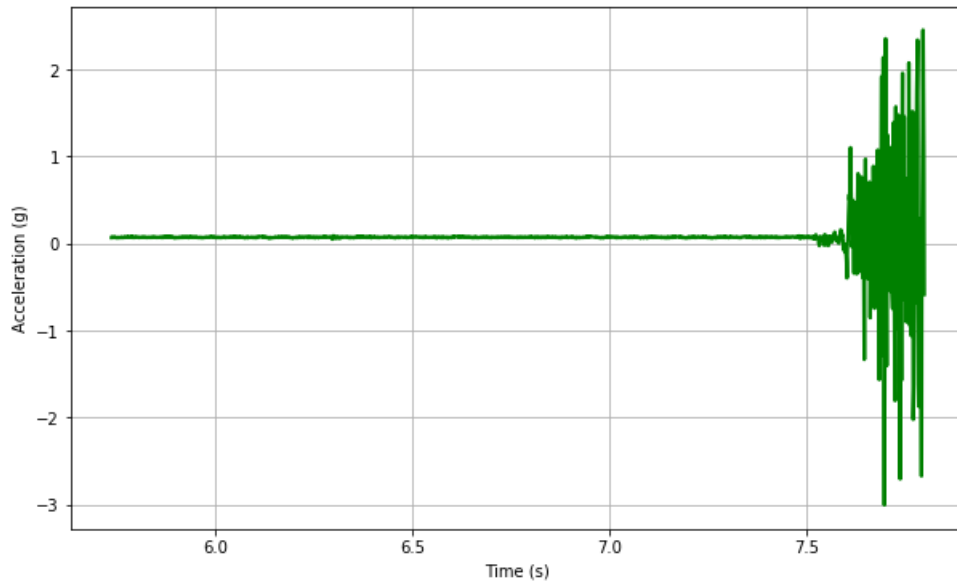
Samples: 1646

Time elapsed: 7.7989999999999995 s

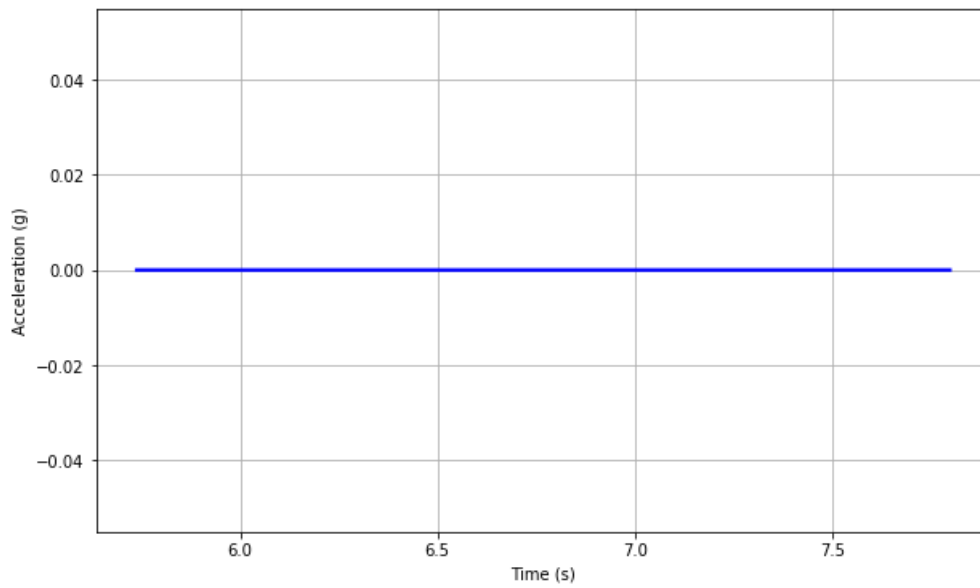
Raw Acceleration in X Domain



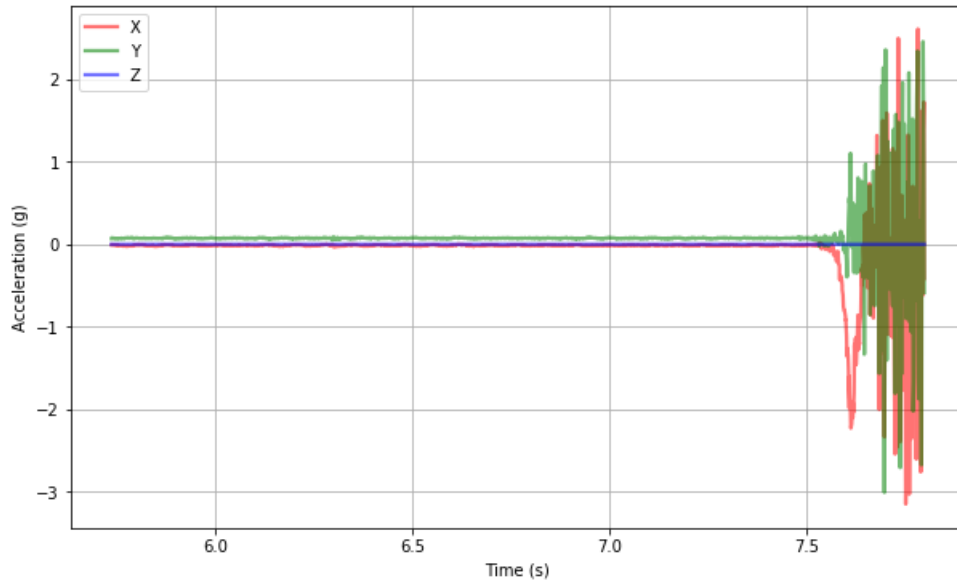
Raw Acceleration in Y Domain



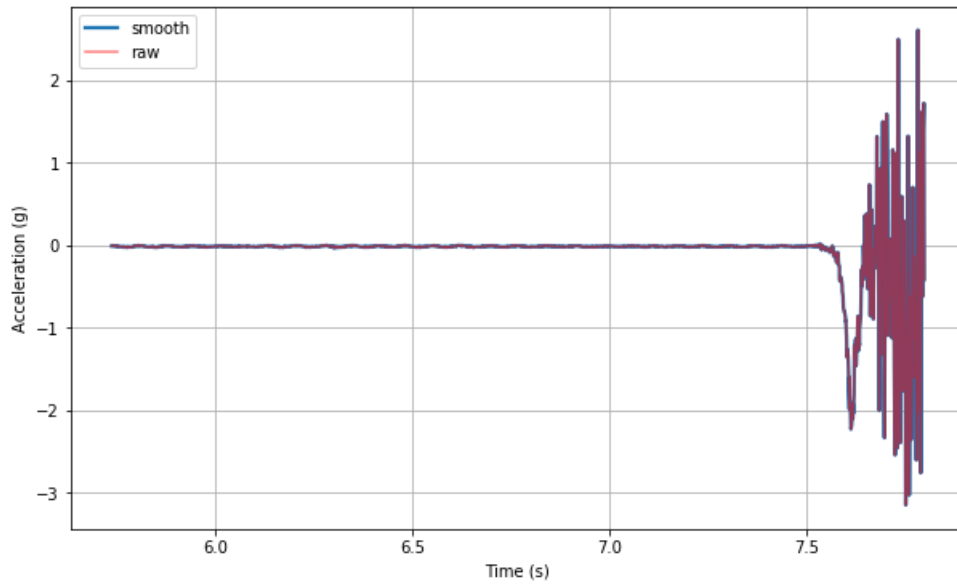
Raw Acceleration in Z Domain



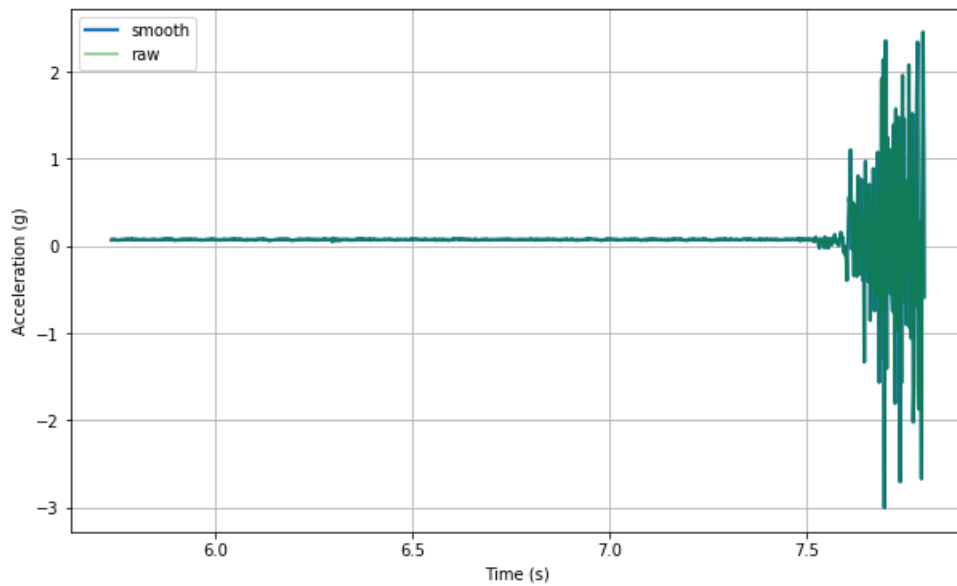
Raw Accelerations in X, Y, Z Domains

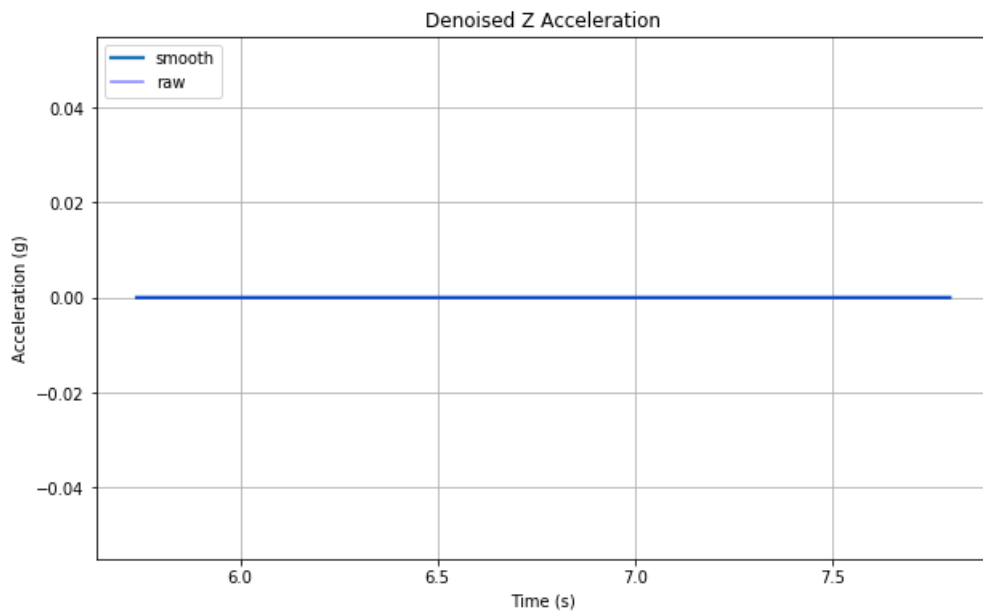


Denoised X Acceleration

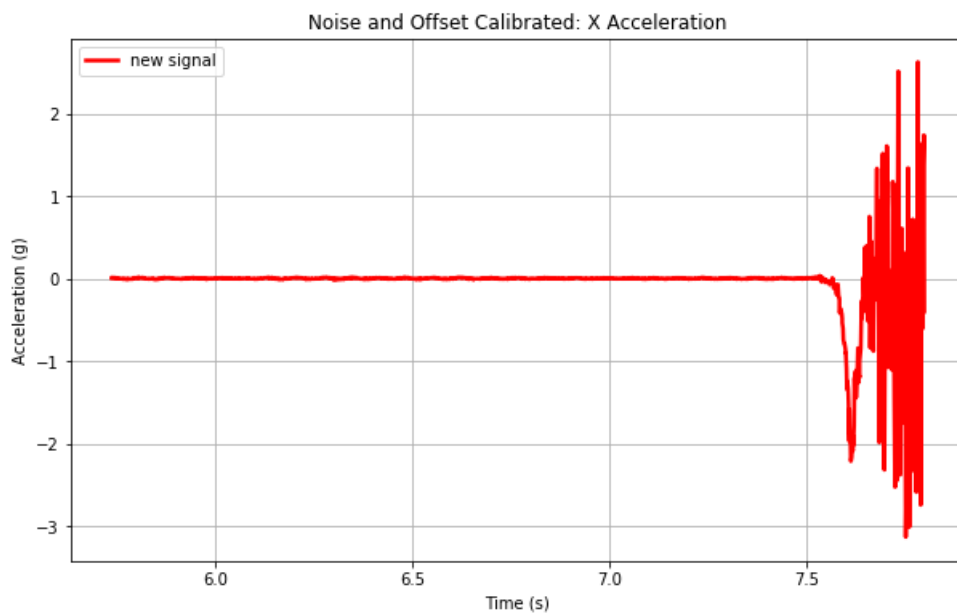


Denoised Y Acceleration

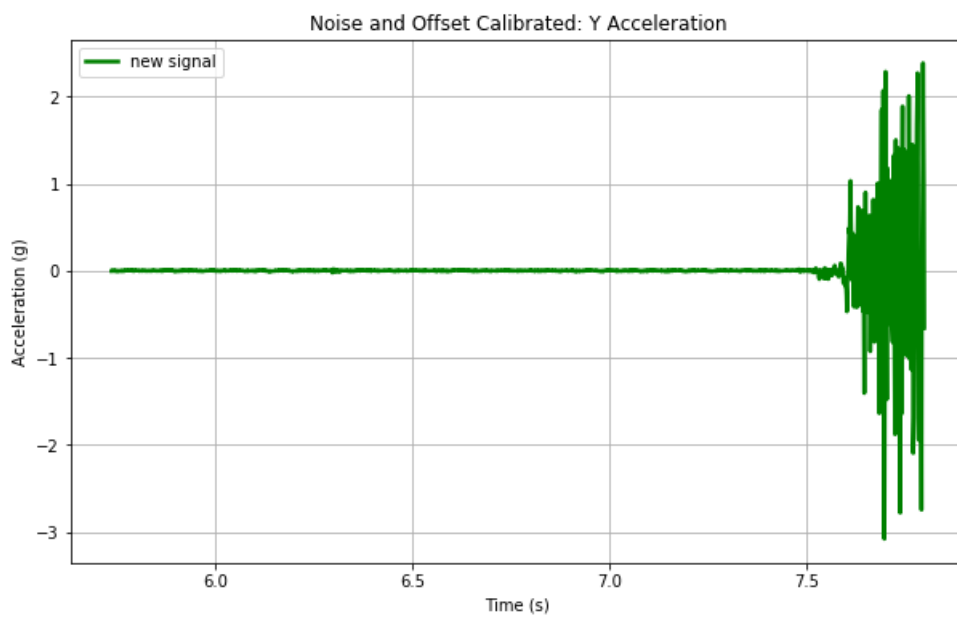




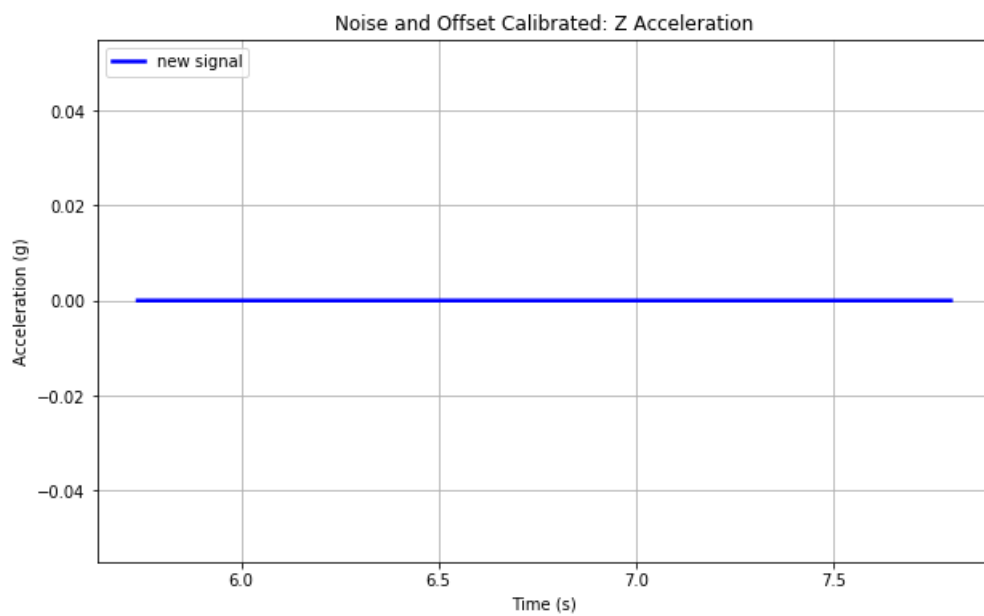
Offset first 200 samples X: %.4f -0.01452
Offset first 200 samples Y: %.4f 0.07257
Offset first 200 samples Z: %.4f 1.0



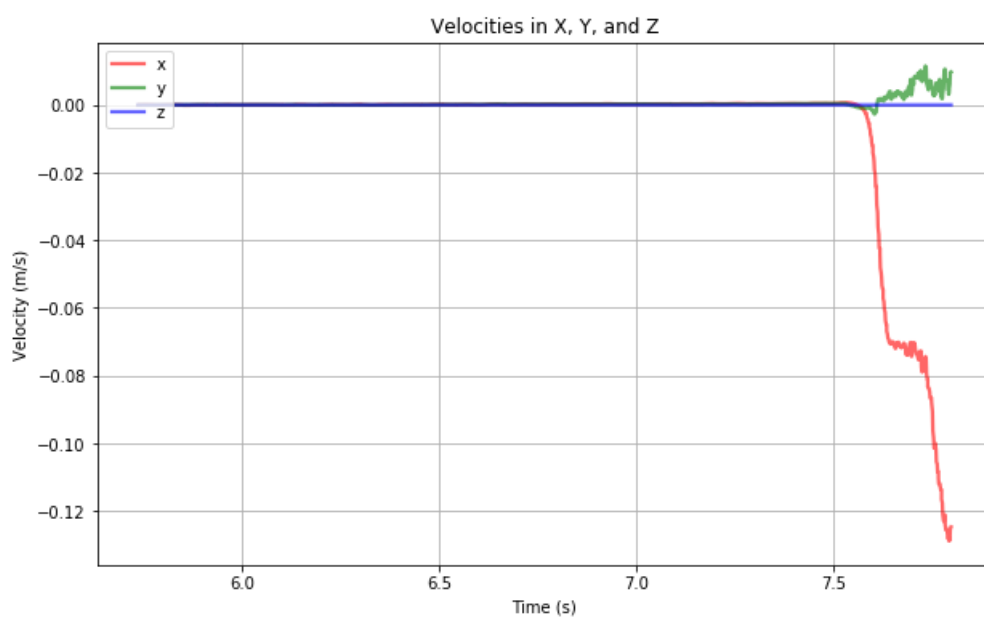
Updated Offset first 200 samples: -0.0009300000000000006



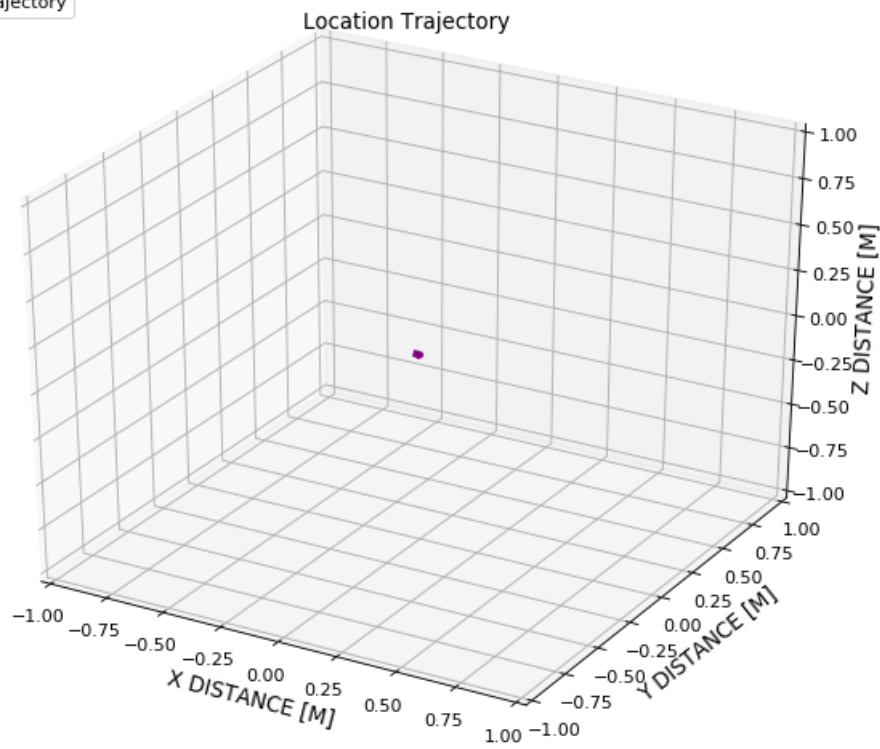
Updated Offset first 200 samples: -0.000119999999999999442



Updated Offset first 200 samples: 0.0



Trajectory



In [13]: `runfile('C:/Users/Andre/Desktop/Senior Design/Acceleration Algorithm [4.0].py', wdir='C:/Users/Andre/Desktop/Senior Design')`

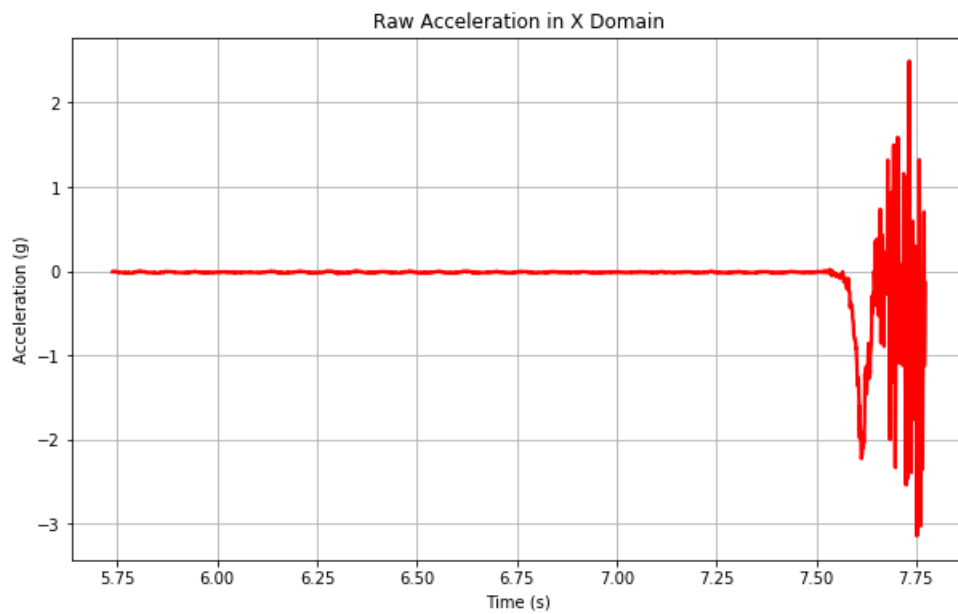
*** FILE METRICS ***

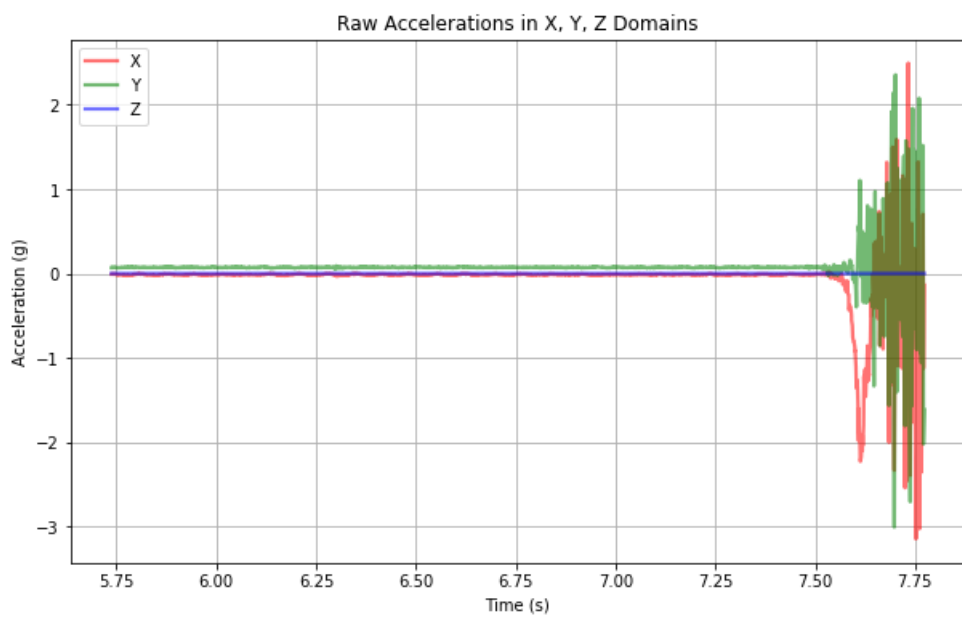
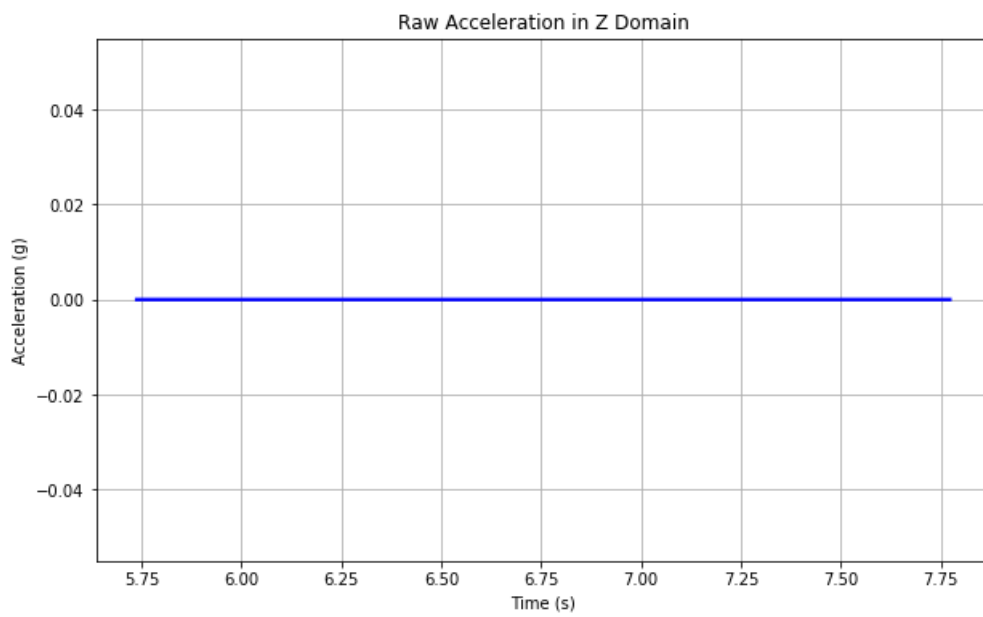
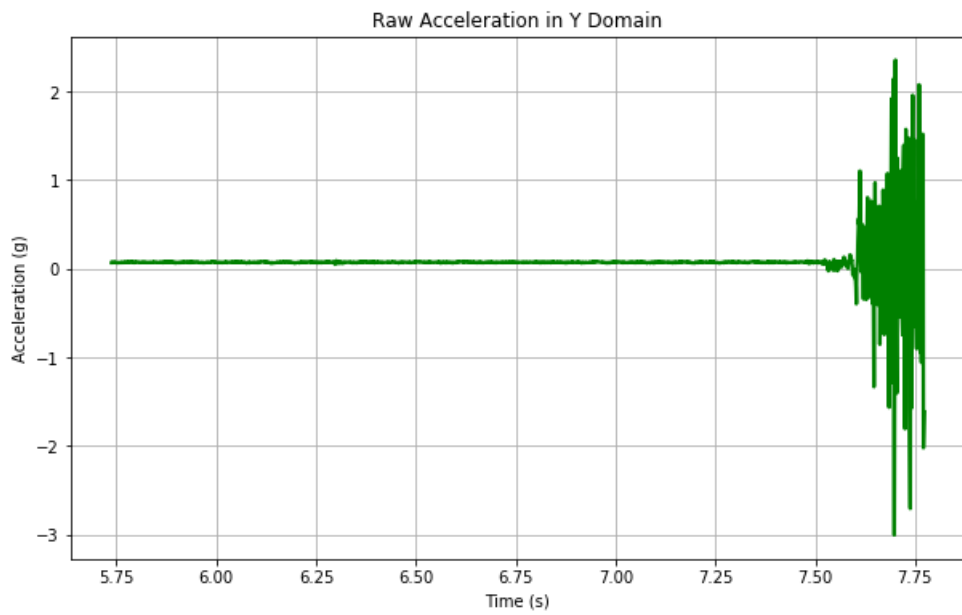
Semester 2 -X Test1 800Hz +- 4Gs Jan 29 2019 (Edited Feb 2 2019).csv is being analyzed

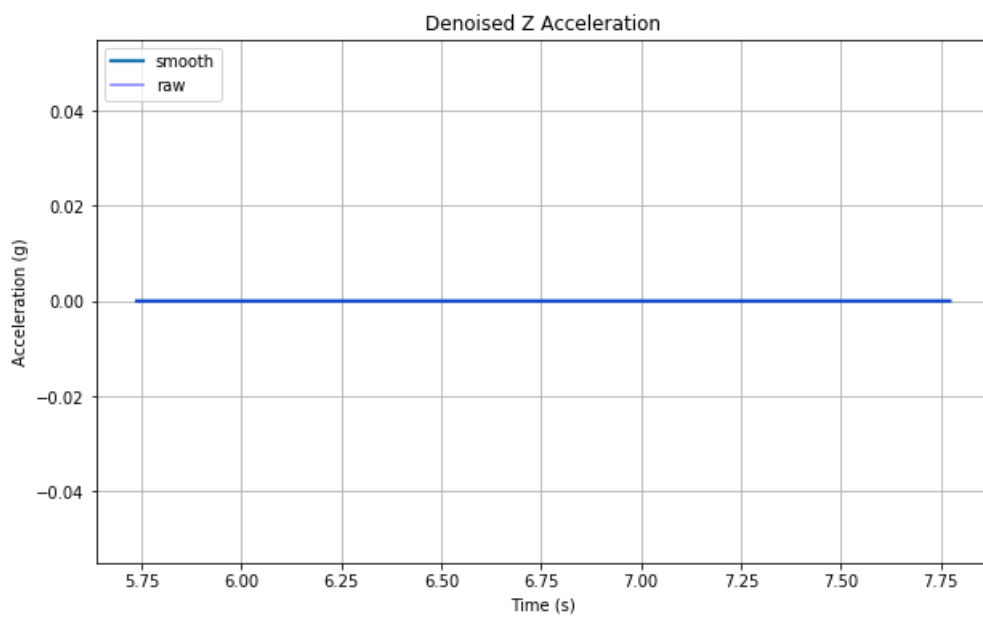
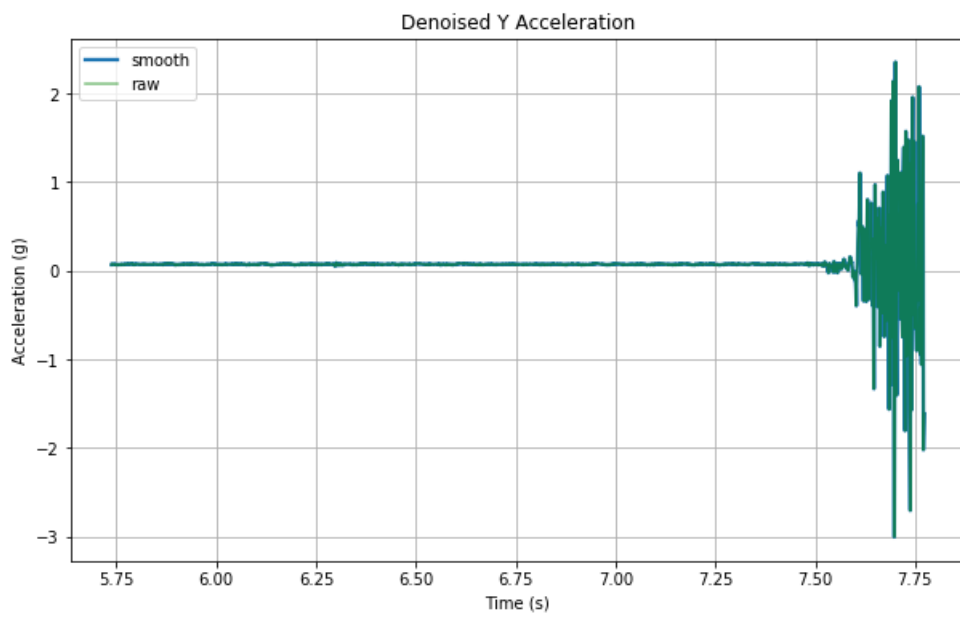
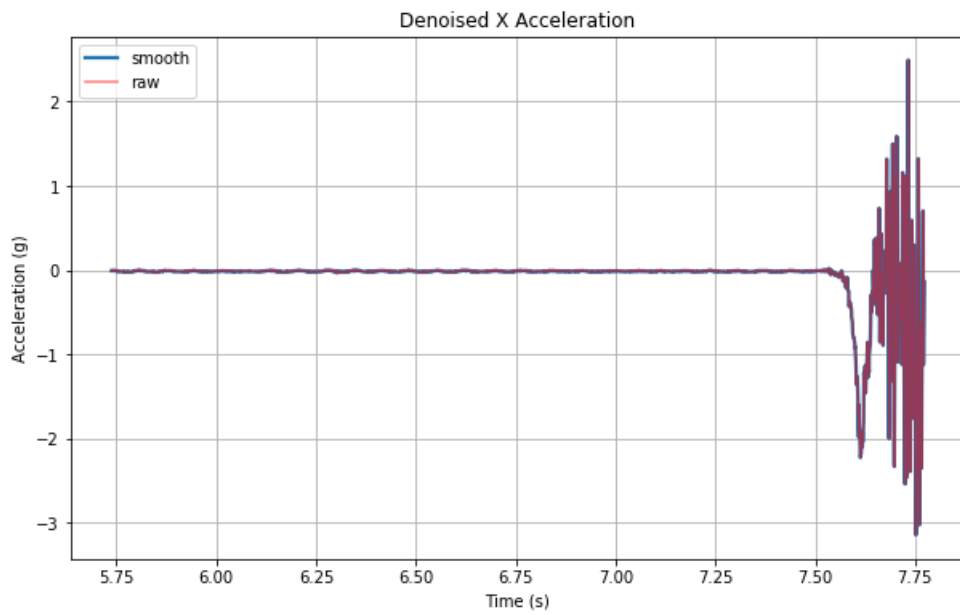
Data Size: 0.09 MB

Samples: 1625

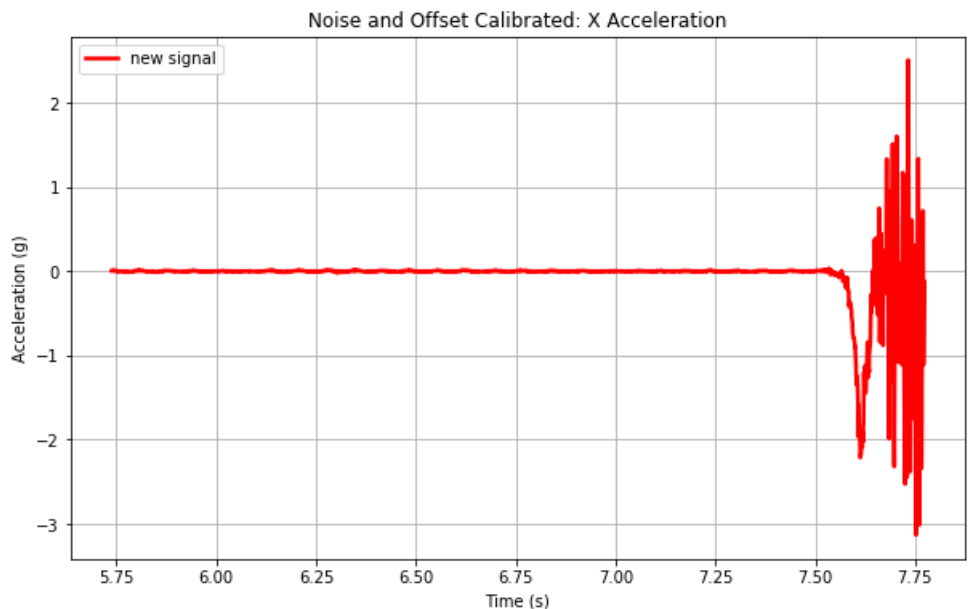
Time elapsed: 7.773 s



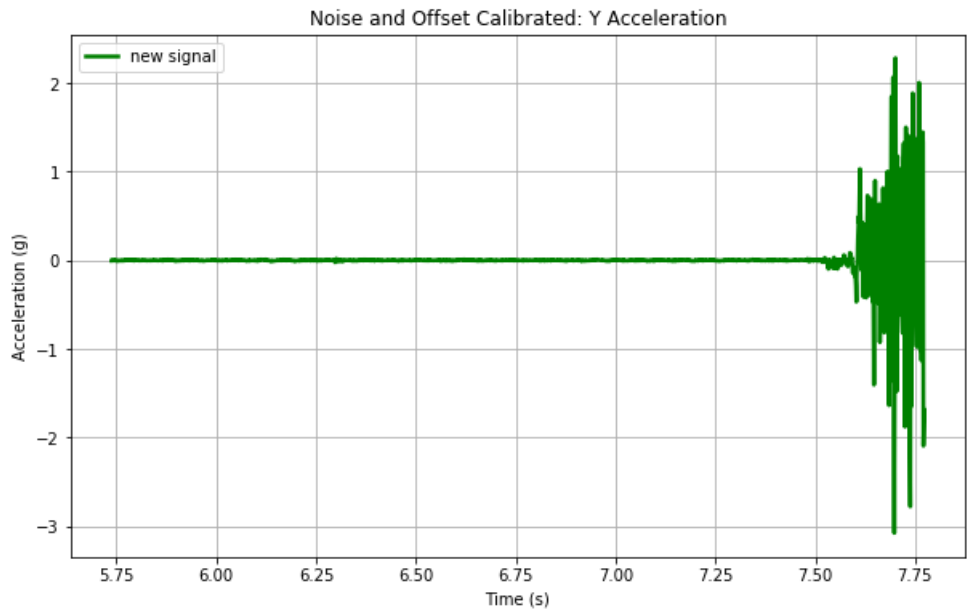




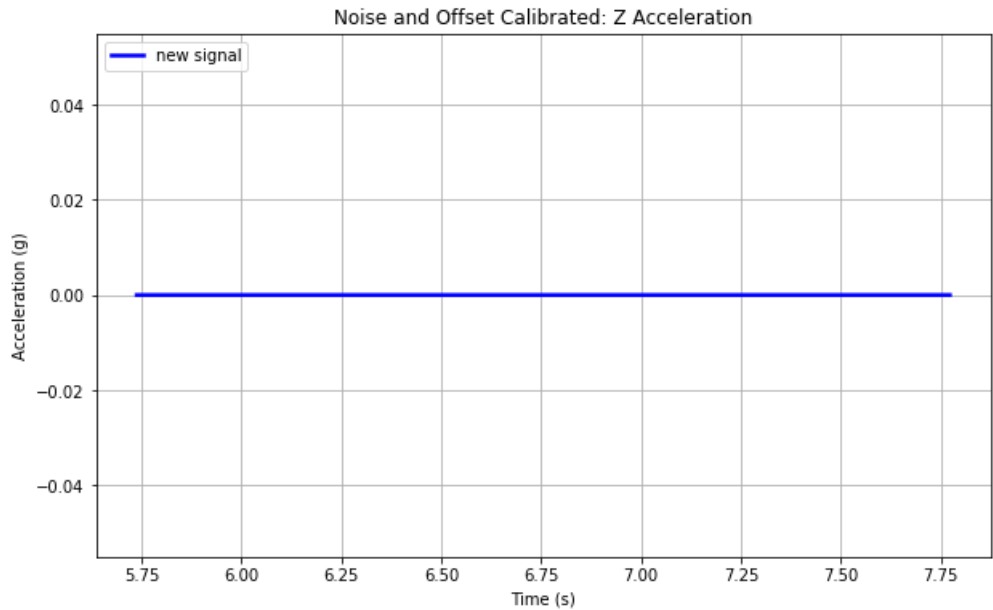
Offset first 200 samples X: %.4f -0.01452
Offset first 200 samples Y: %.4f 0.07257
Offset first 200 samples Z: %.4f 1.0



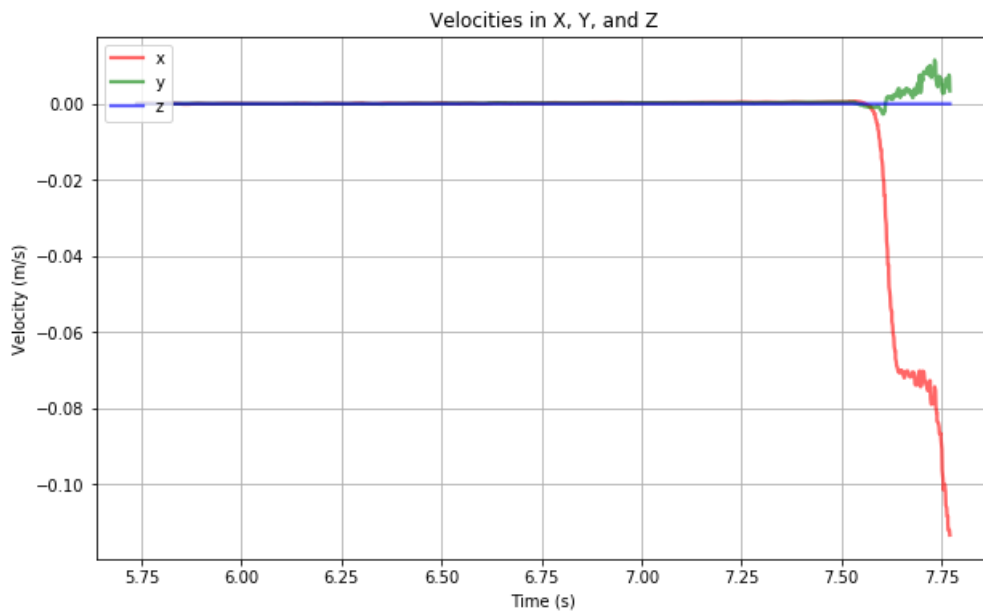
Updated Offset first 200 samples: -0.0009300000000000006



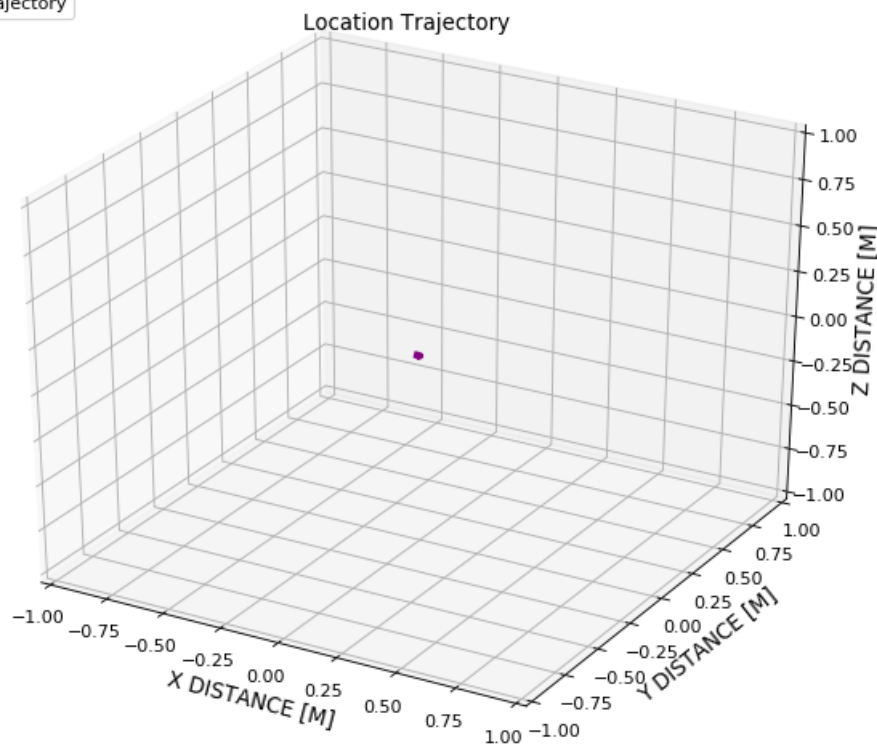
Updated Offset first 200 samples: -0.00011999999999999942



Updated Offset first 200 samples: 0.0



Trajectory



In [14]: `runfile('C:/Users/Andre/Desktop/Senior Design/Acceleration Algorithm [4.0].py', wdir='C:/Users/Andre/Desktop/Senior Design')`

*** FILE METRICS ***

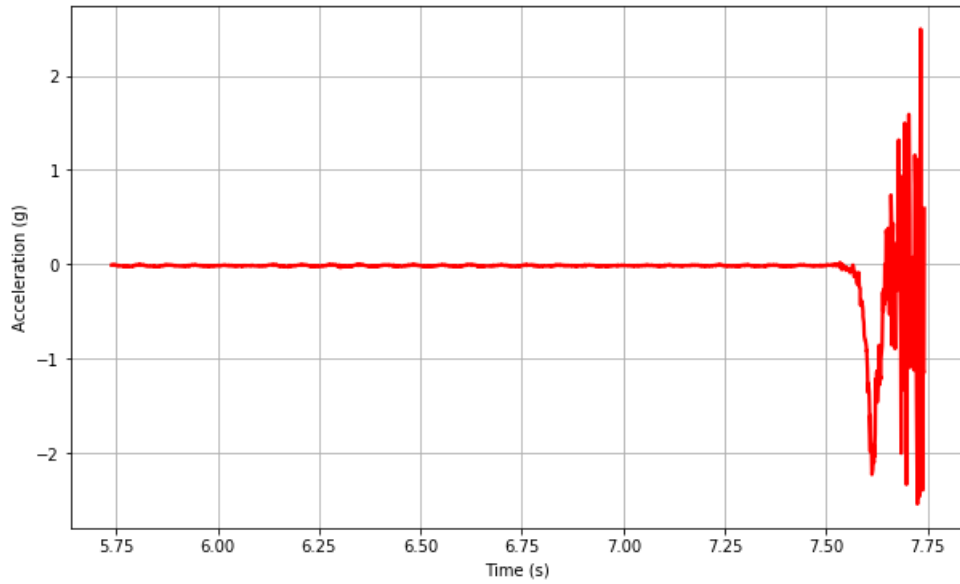
Semester 2 -X Test1 800Hz +- 4Gs Jan 29 2019 (Edited Feb 2 2019).csv is being analyzed

Data Size: 0.09 MB

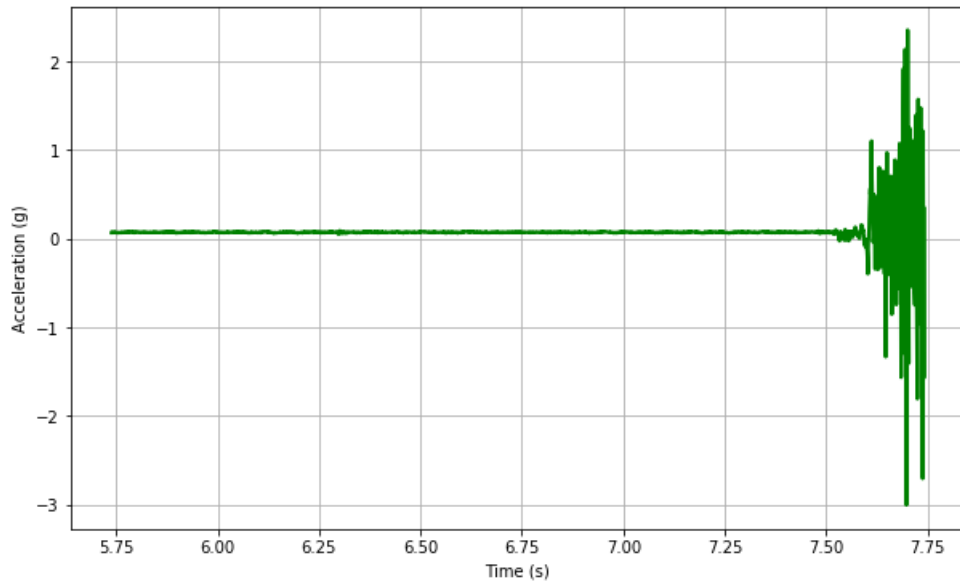
Samples: 1601

Time elapsed: 7.742000000000001 s

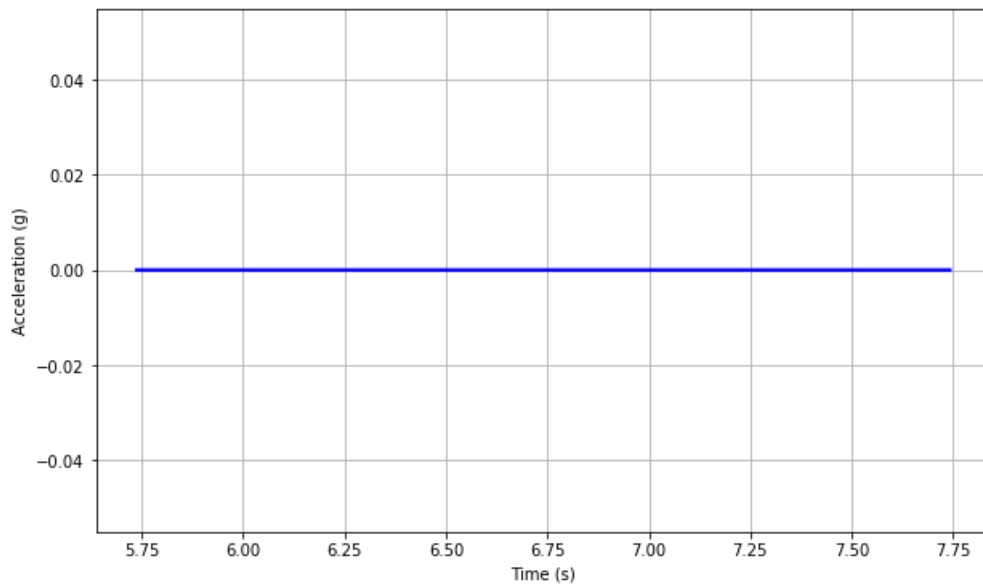
Raw Acceleration in X Domain



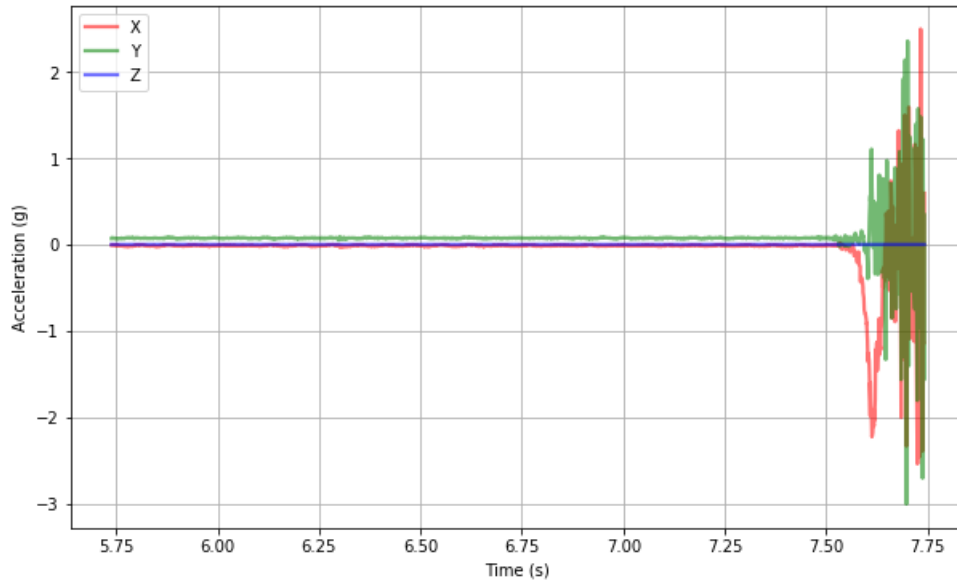
Raw Acceleration in Y Domain



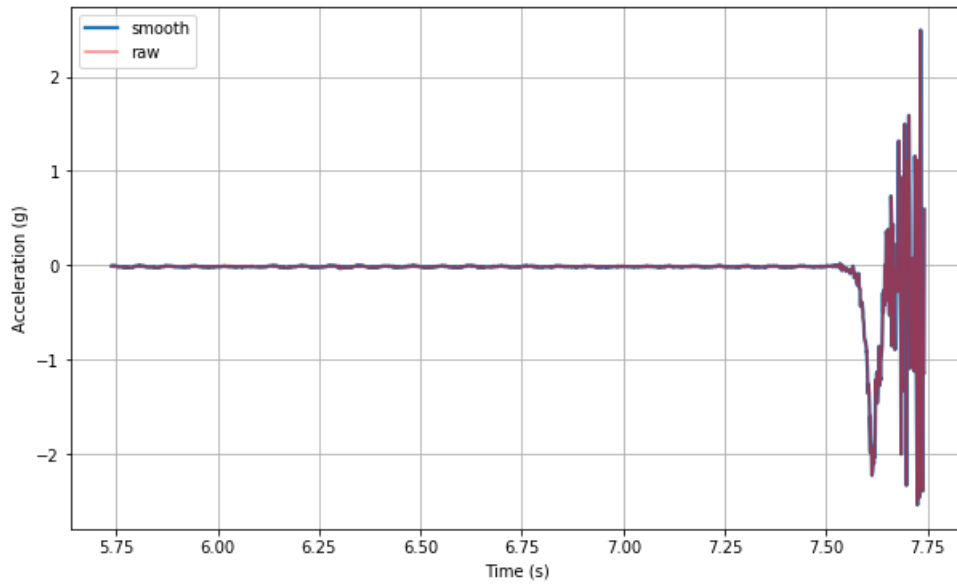
Raw Acceleration in Z Domain



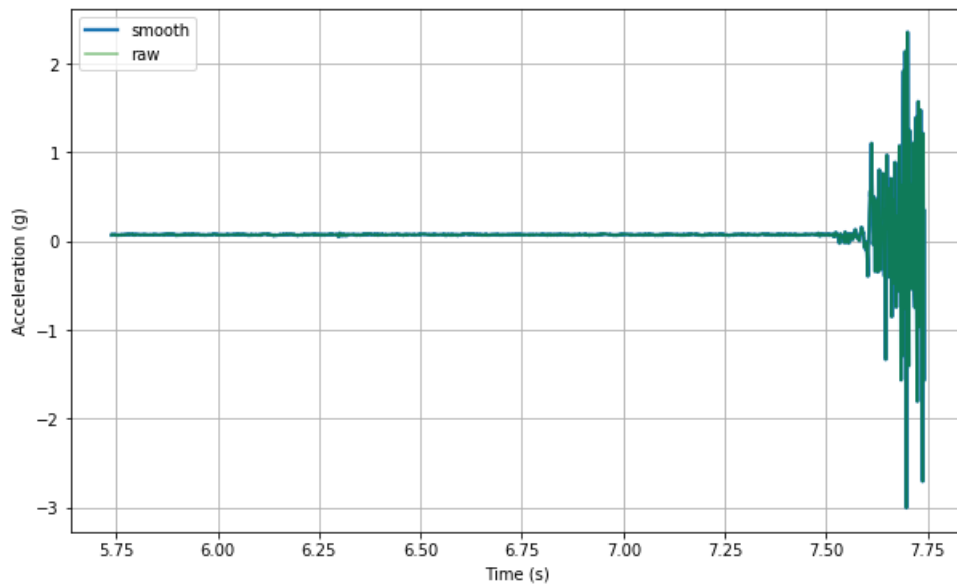
Raw Accelerations in X, Y, Z Domains

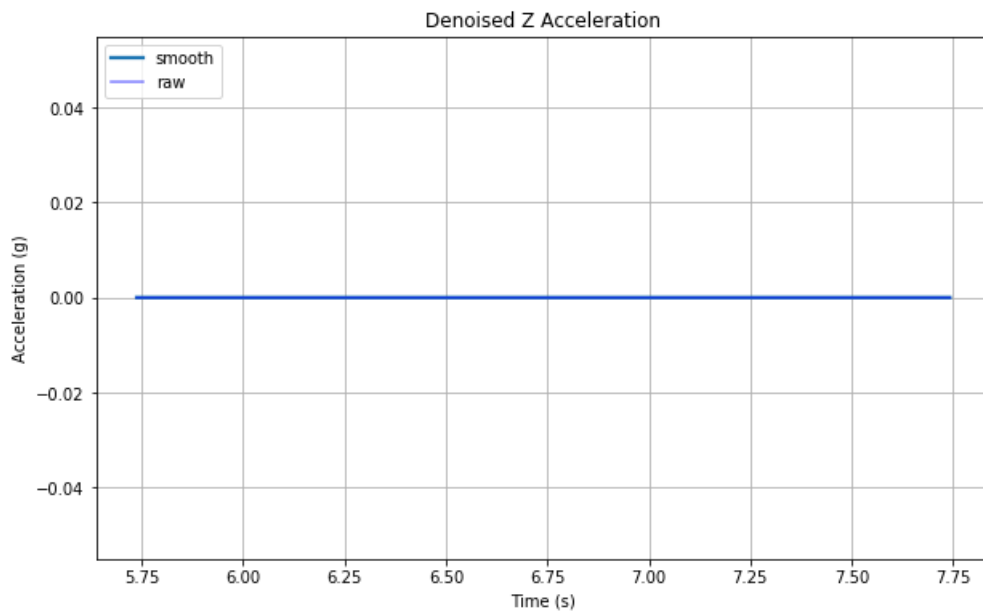


Denoised X Acceleration

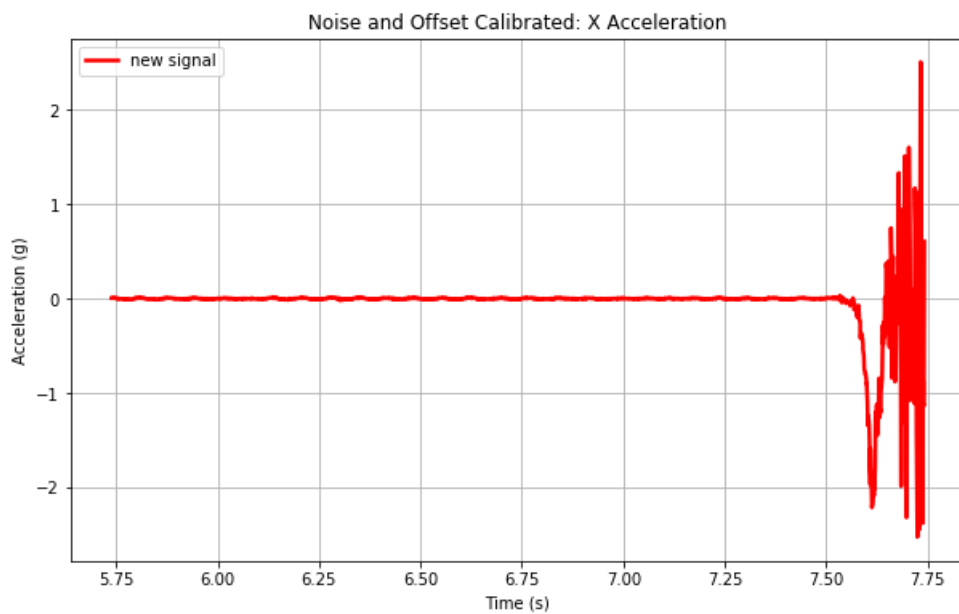


Denoised Y Acceleration

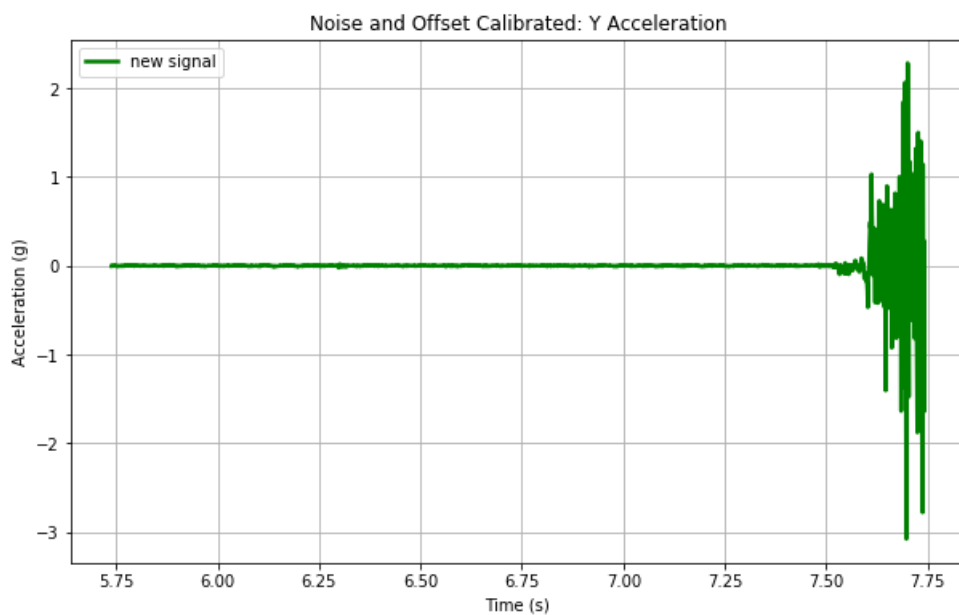




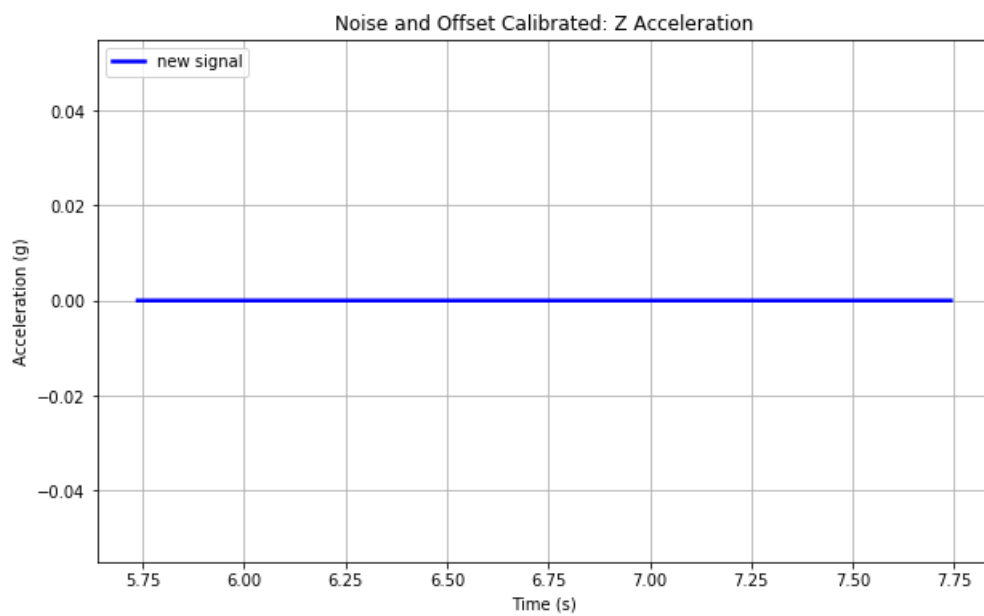
Offset first 200 samples X: %.4f -0.01452
 Offset first 200 samples Y: %.4f 0.07257
 Offset first 200 samples Z: %.4f 1.0



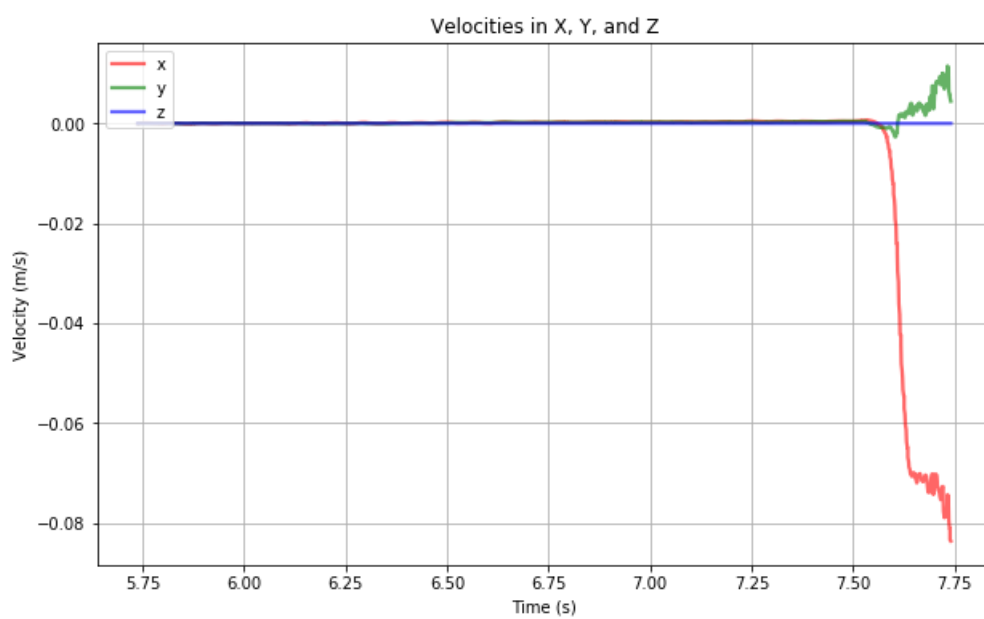
Updated Offset first 200 samples: -0.0009300000000000006



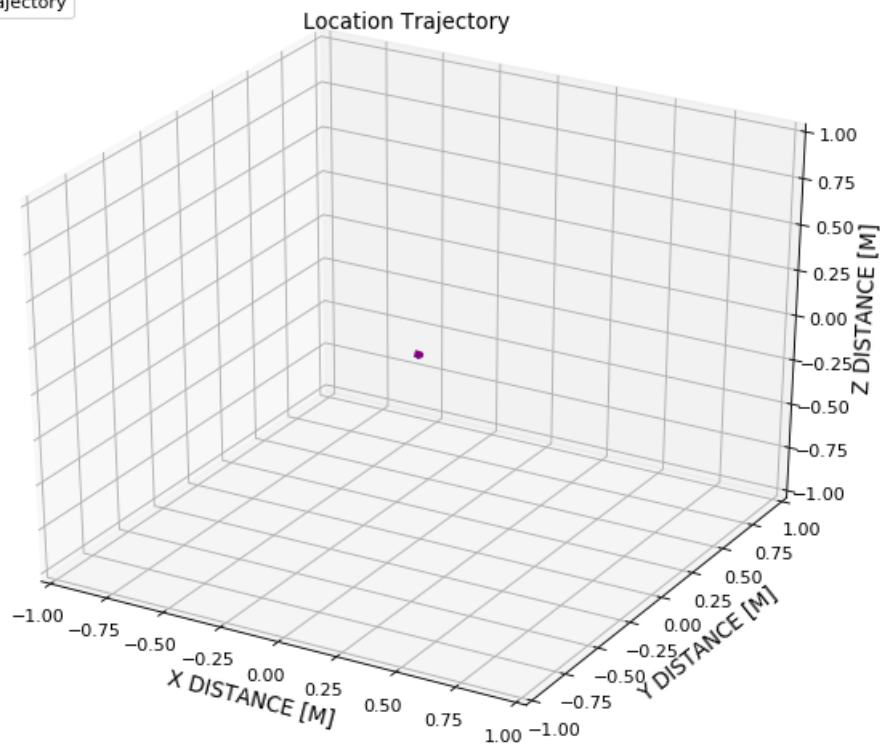
Updated Offset first 200 samples: -0.000119999999999999442



Updated Offset first 200 samples: 0.0



Trajectory



In [15]: runfile('C:/Users/Andre/Desktop/Senior Design/Acceleration Algorithm [4.0].py', wdir='C:/Users/Andre/Desktop/Senior Design')

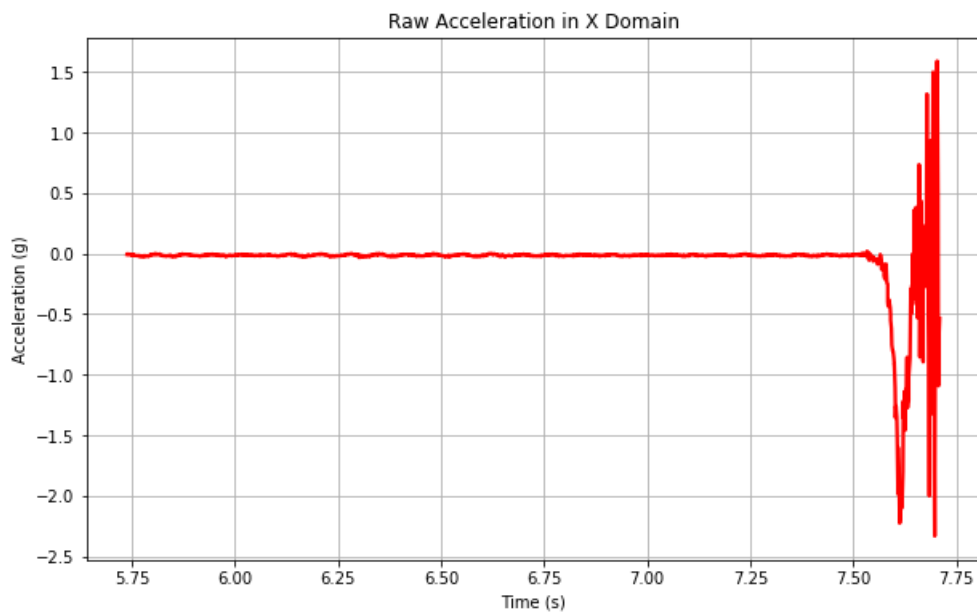
*** FILE METRICS ***

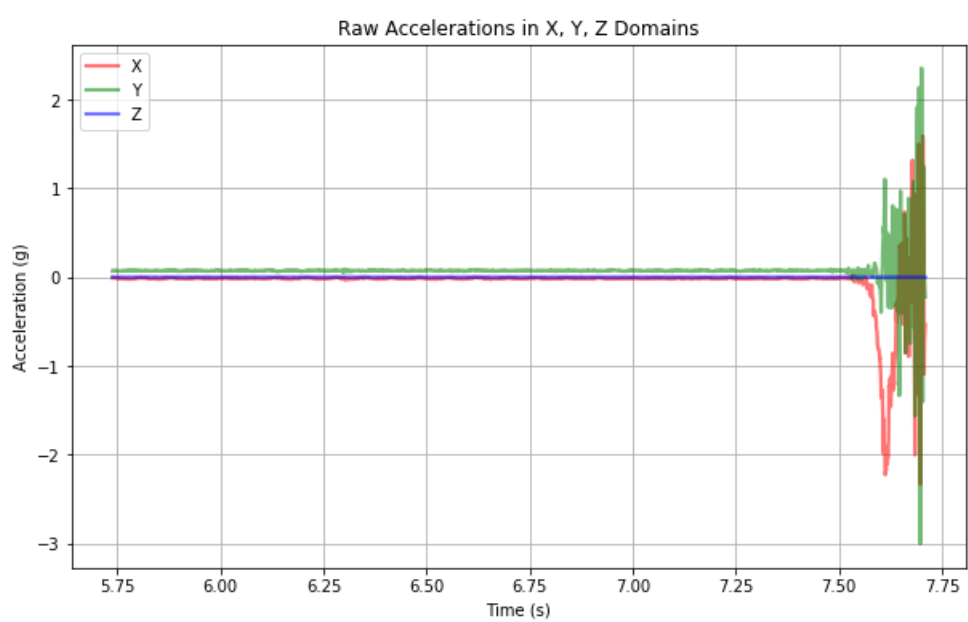
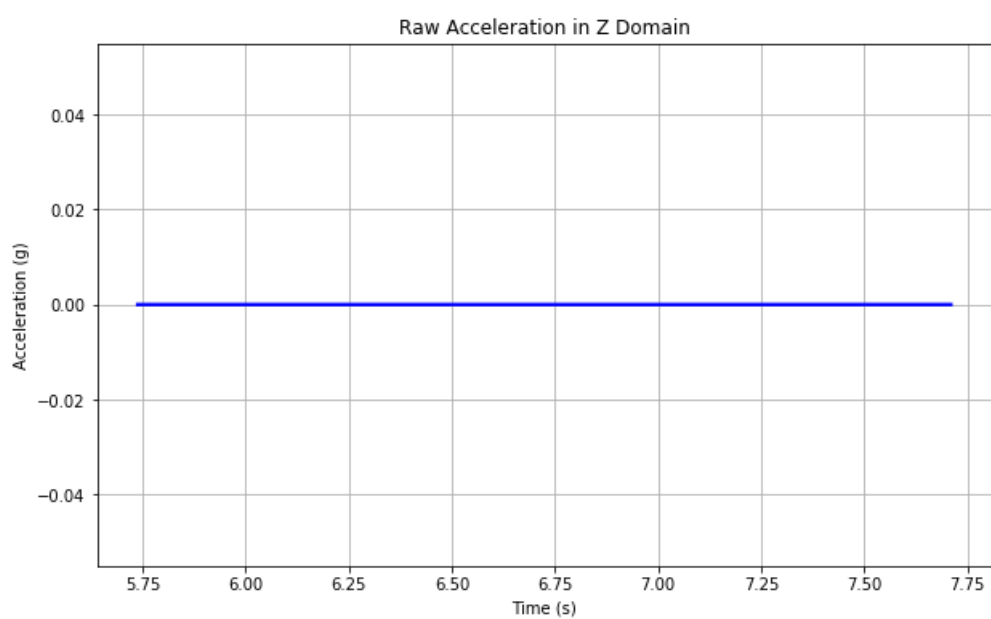
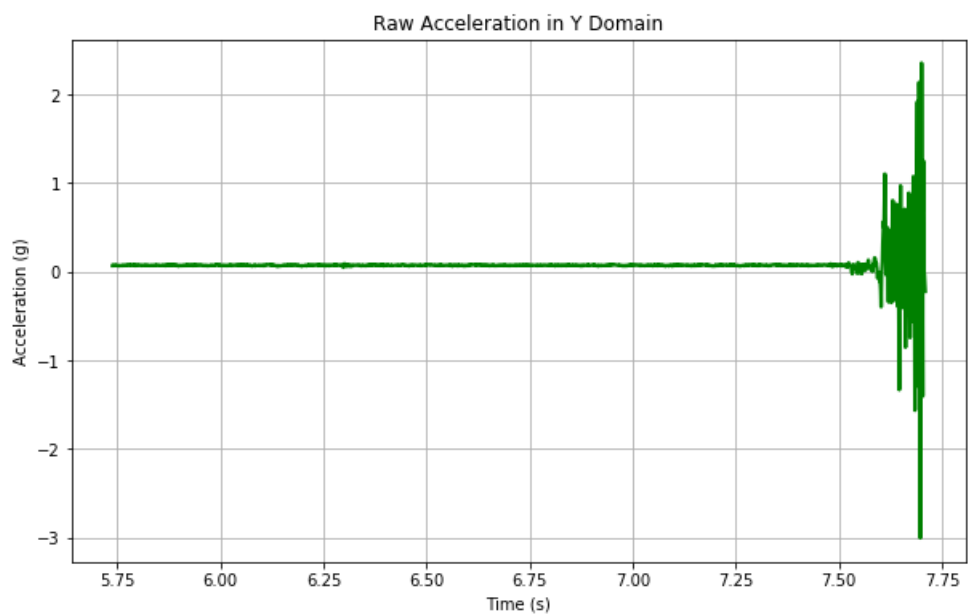
Semester 2 -X Test1 800Hz +- 4Gs Jan 29 2019 (Edited Feb 2 2019).csv is being analyzed

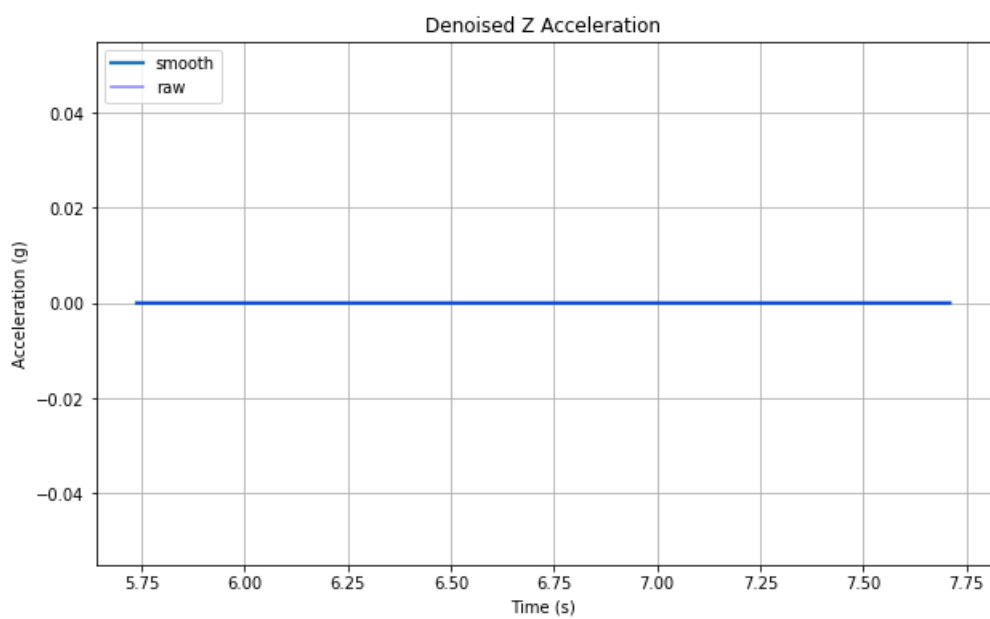
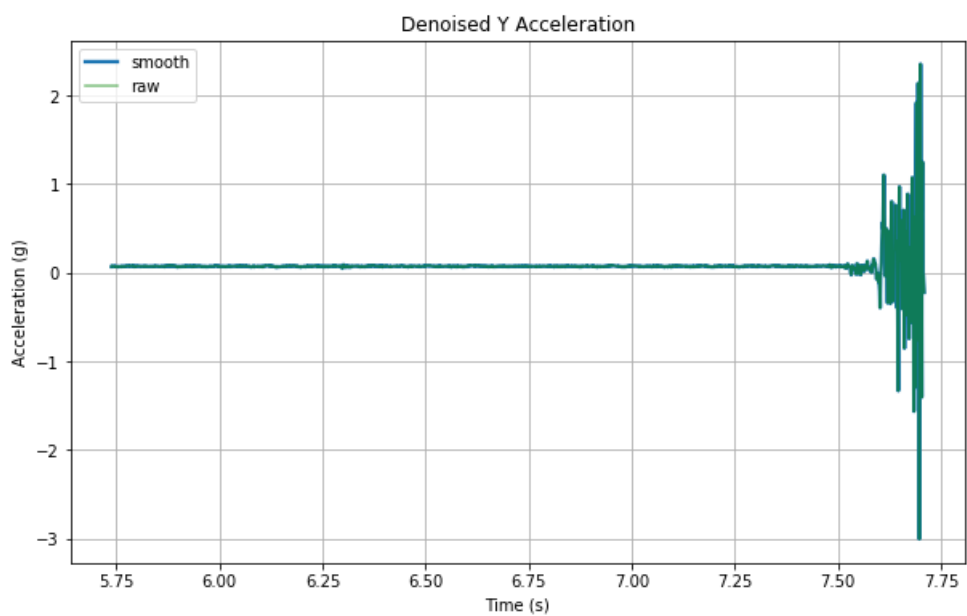
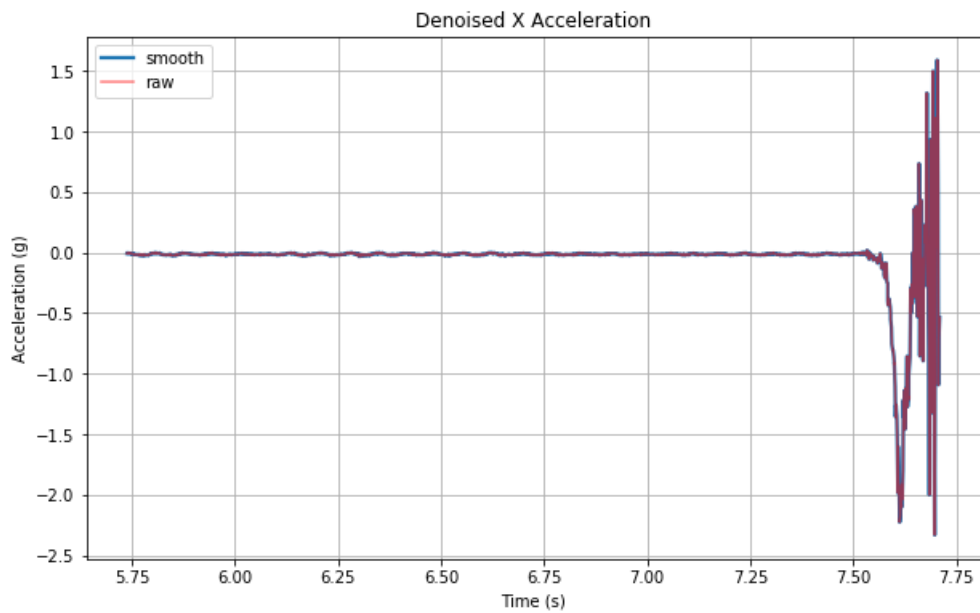
Data Size: 0.09 MB

Samples: 1575

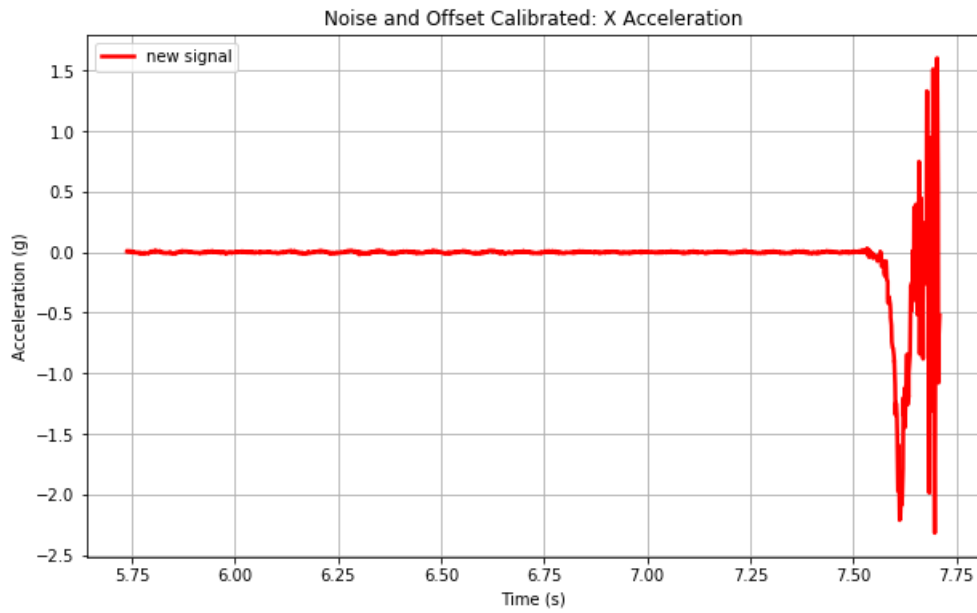
Time elapsed: 7.71 s



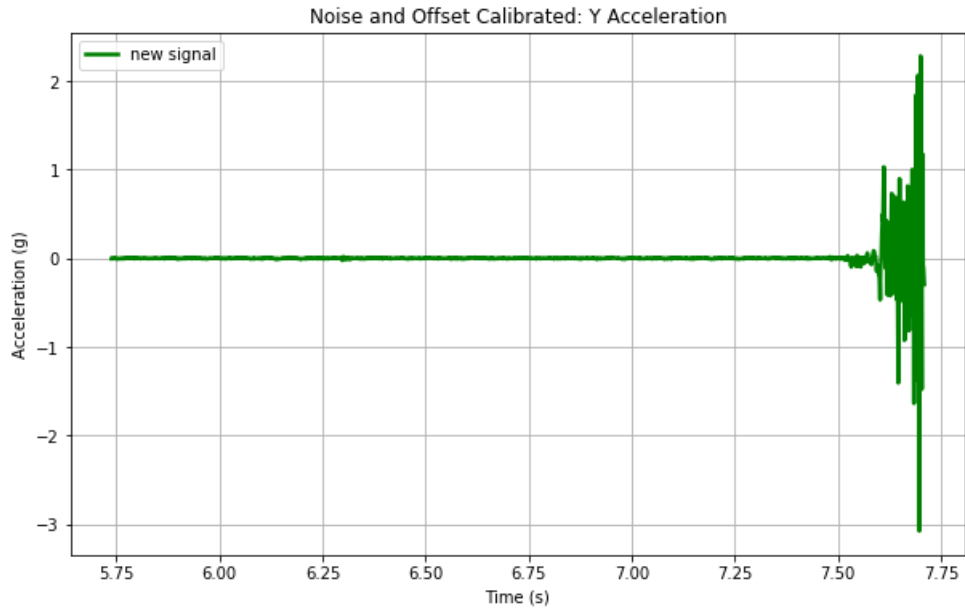




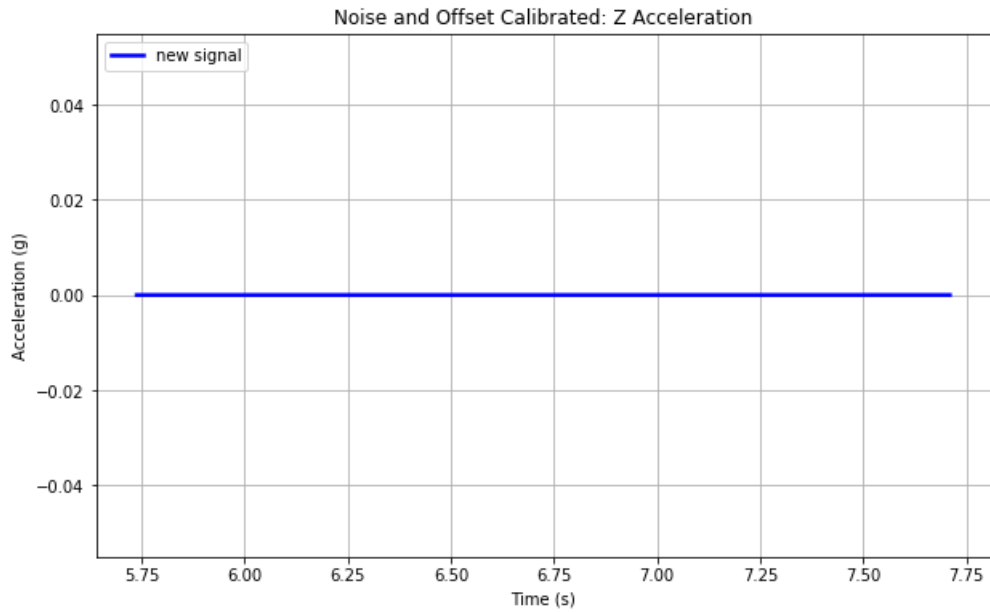
Offset first 200 samples X: %.4f -0.01452
Offset first 200 samples Y: %.4f 0.07257
Offset first 200 samples Z: %.4f 1.0



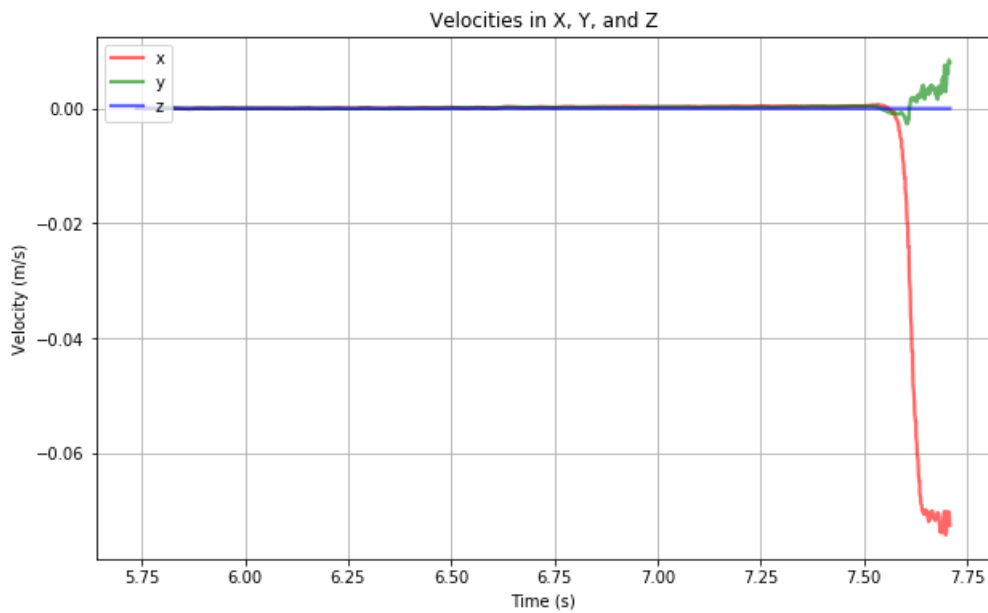
Updated Offset first 200 samples: -0.0009300000000000006



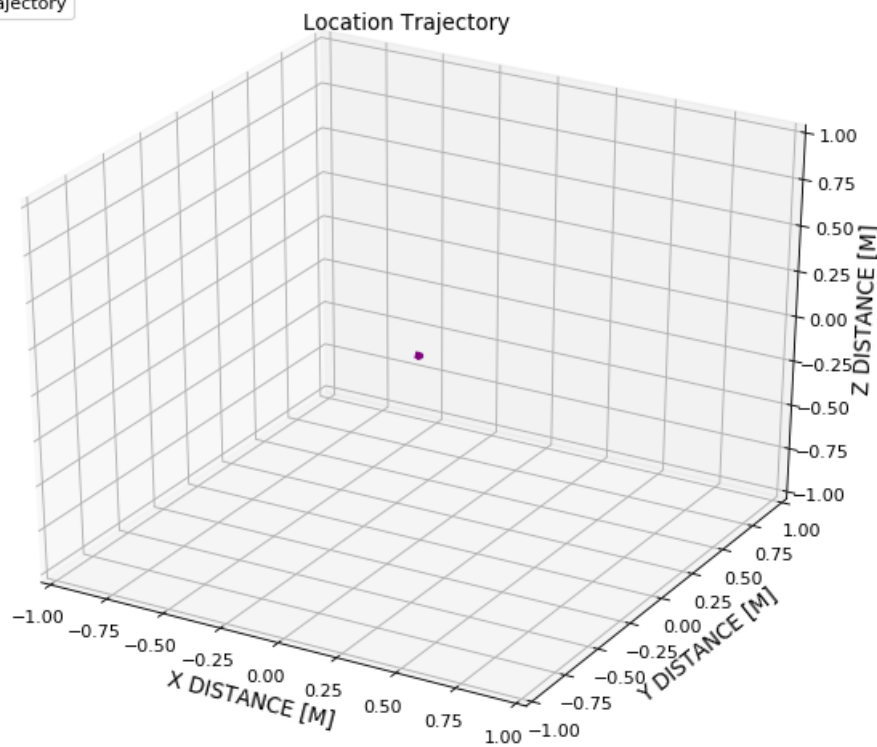
Updated Offset first 200 samples: -0.00011999999999999942



Updated Offset first 200 samples: 0.0



Trajectory



In [16]: `runfile('C:/Users/Andre/Desktop/Senior Design/Acceleration Algorithm [4.0].py', wdir='C:/Users/Andre/Desktop/Senior Design')`

*** FILE METRICS ***

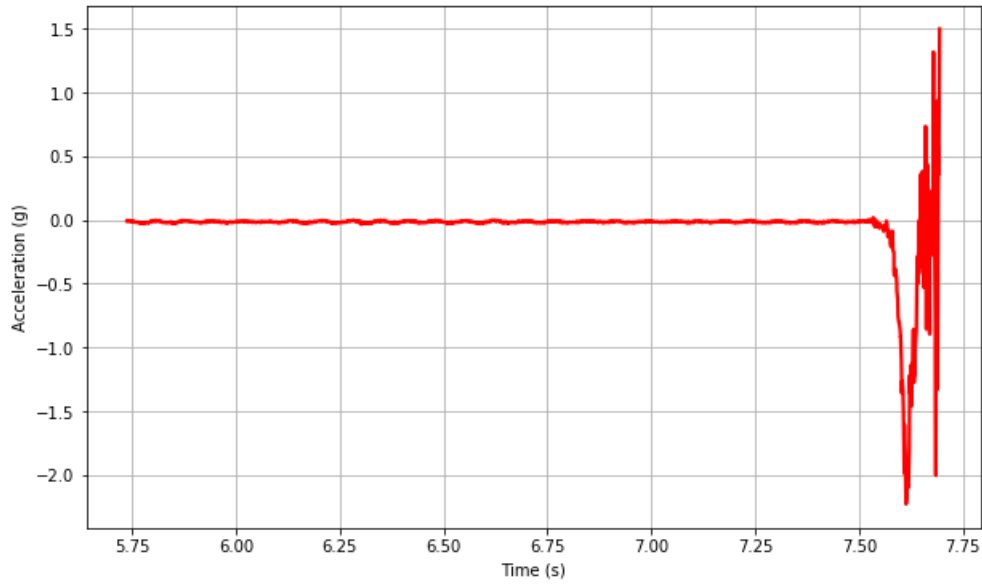
Semester 2 -X Test1 800Hz +- 4Gs Jan 29 2019 (Edited Feb 2 2019).csv is being analyzed

Data Size: 0.09 MB

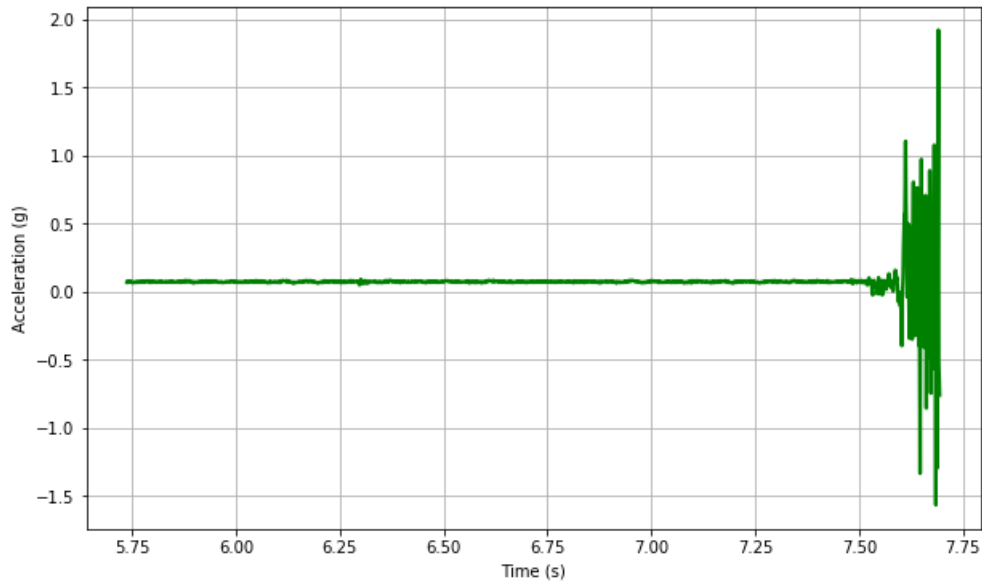
Samples: 1562

Time elapsed: 7.694 s

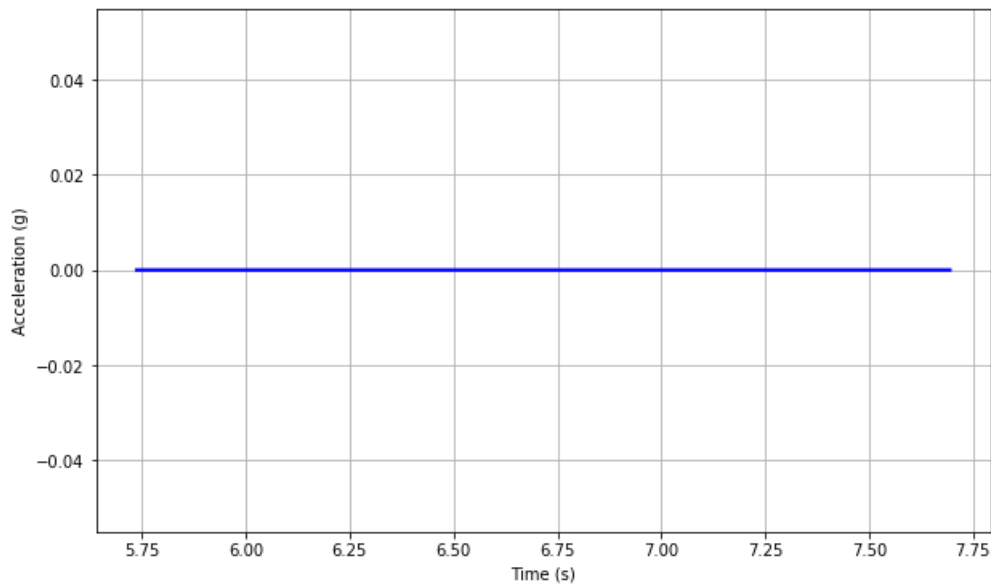
Raw Acceleration in X Domain

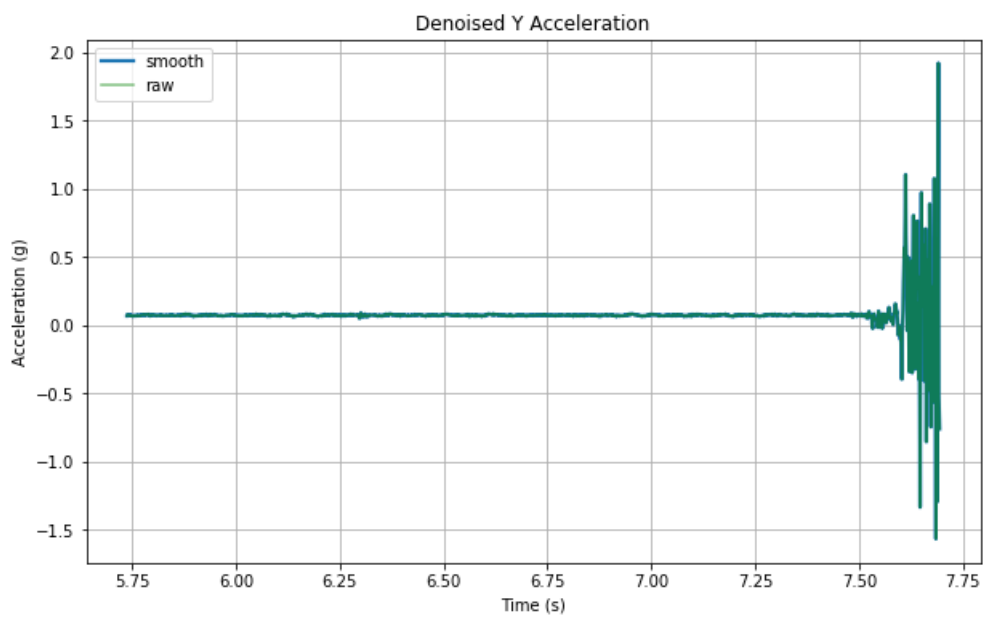
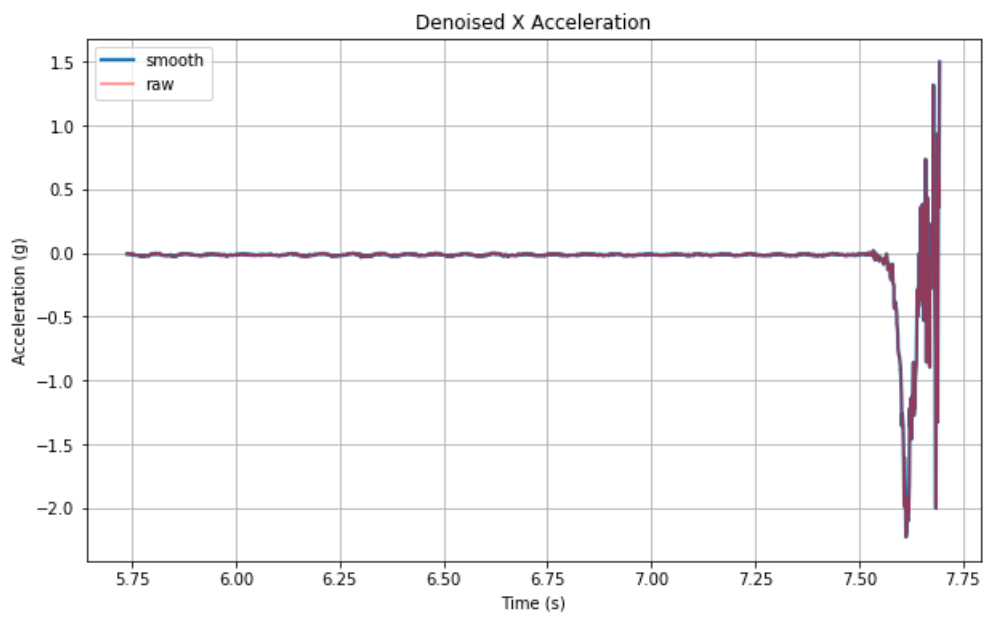
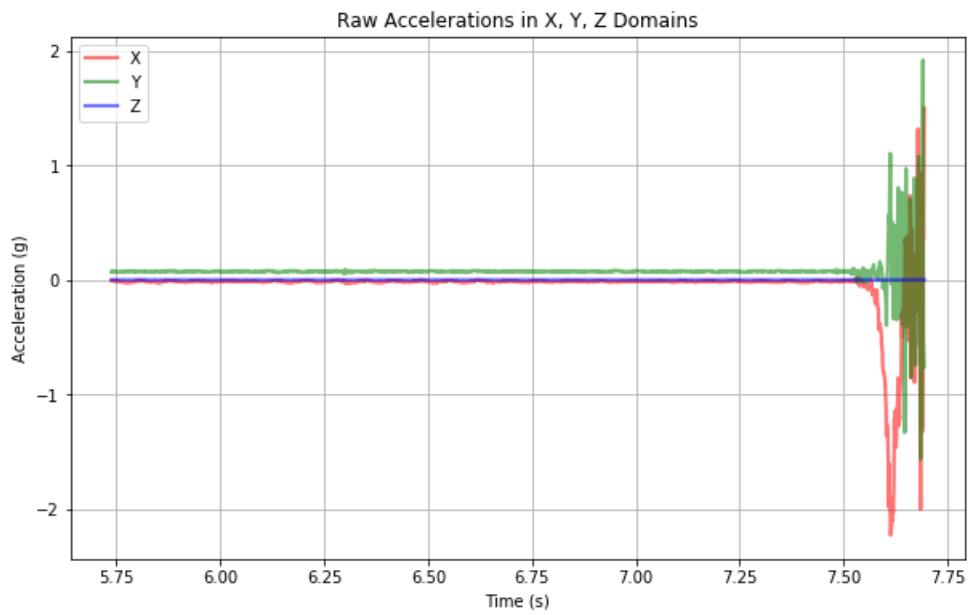


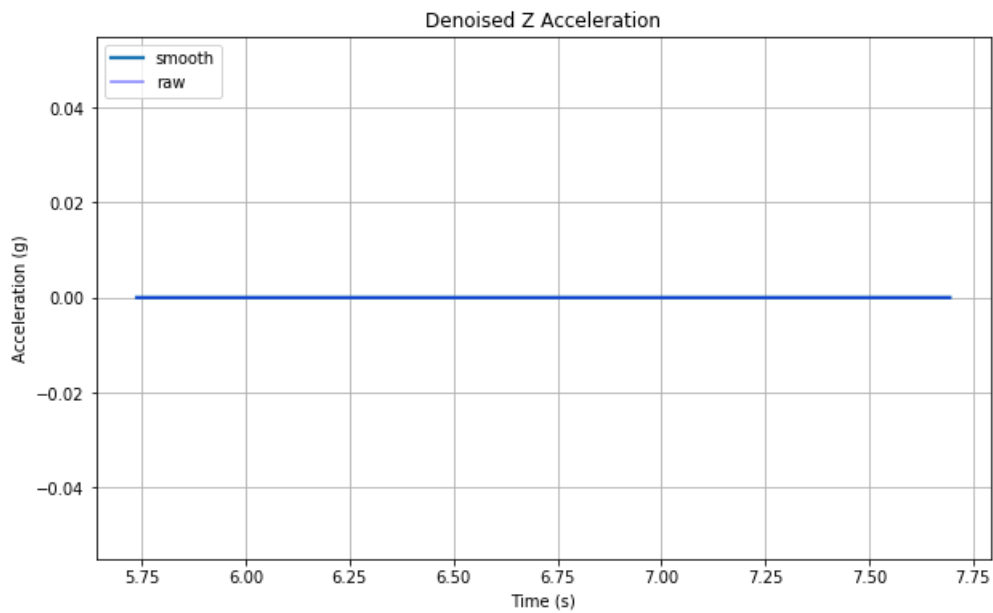
Raw Acceleration in Y Domain



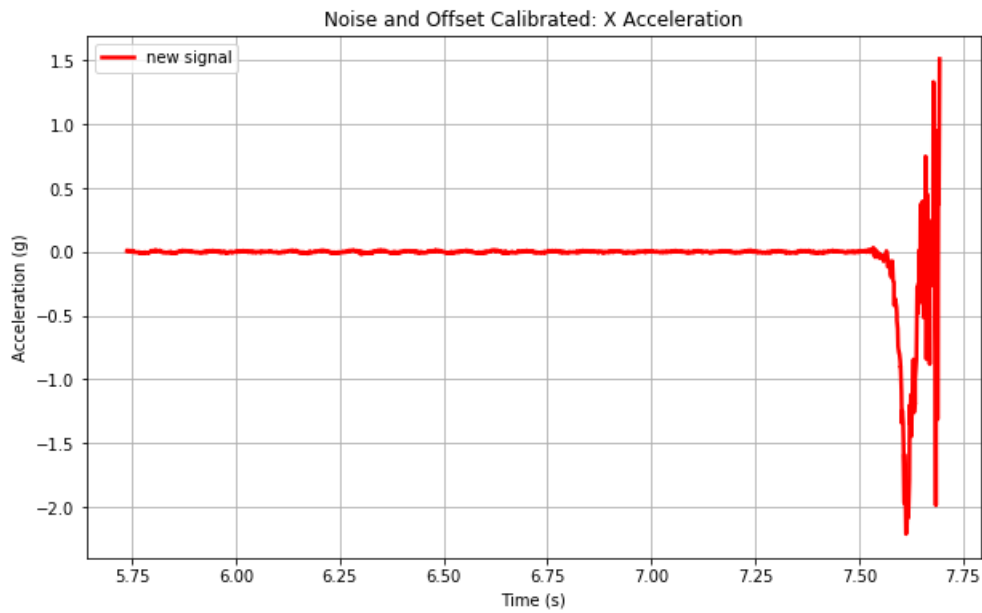
Raw Acceleration in Z Domain



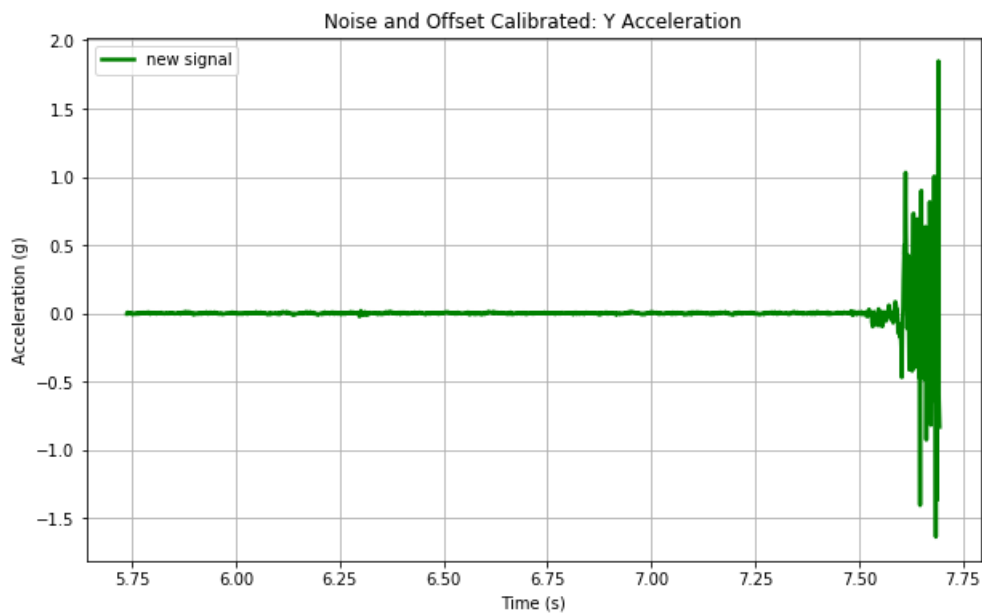




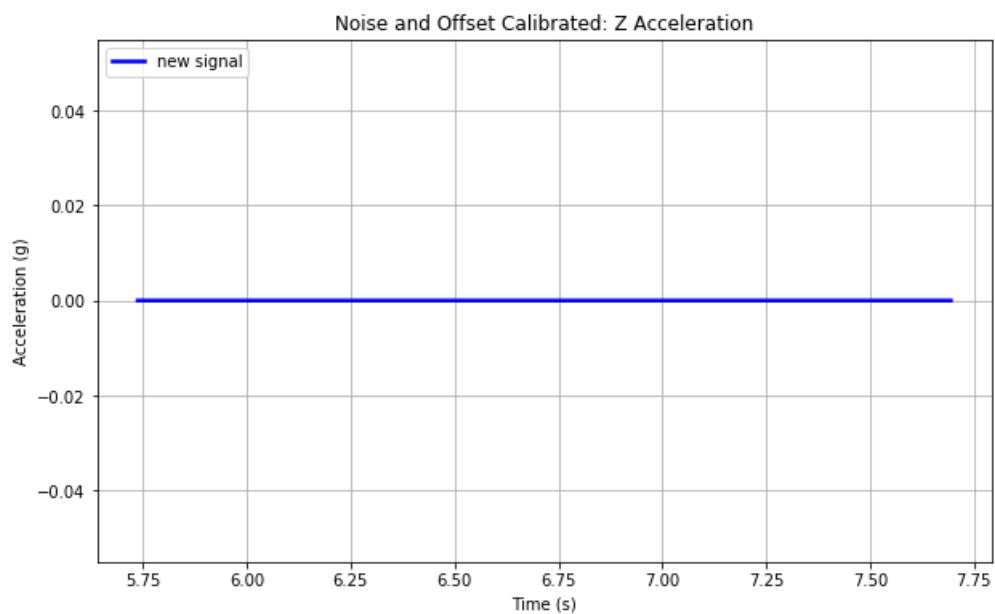
Offset first 200 samples X: %.4f -0.01452
Offset first 200 samples Y: %.4f 0.07257
Offset first 200 samples Z: %.4f 1.0



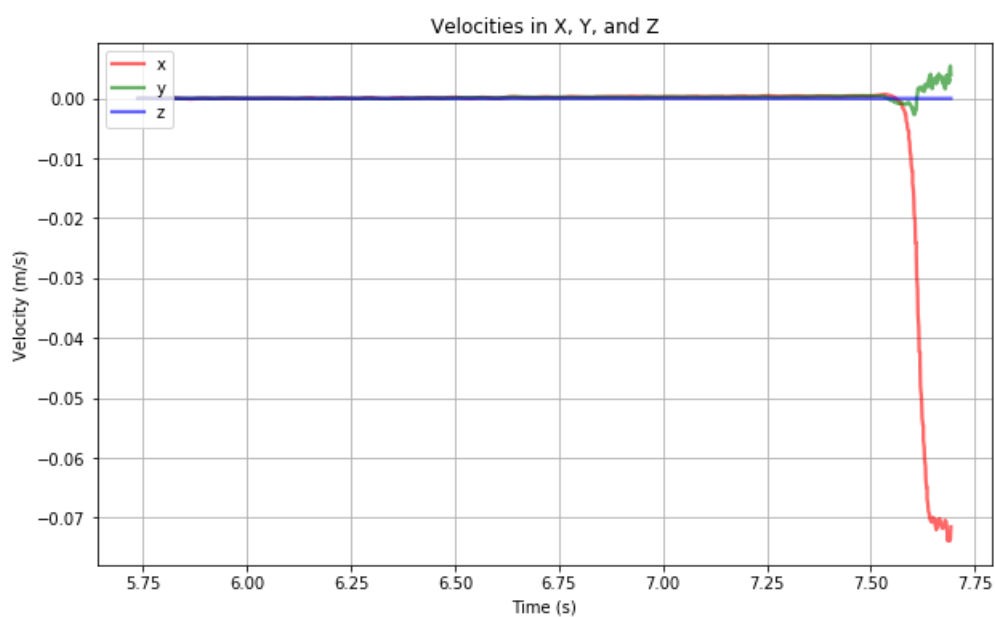
Updated Offset first 200 samples: -0.0009300000000000006



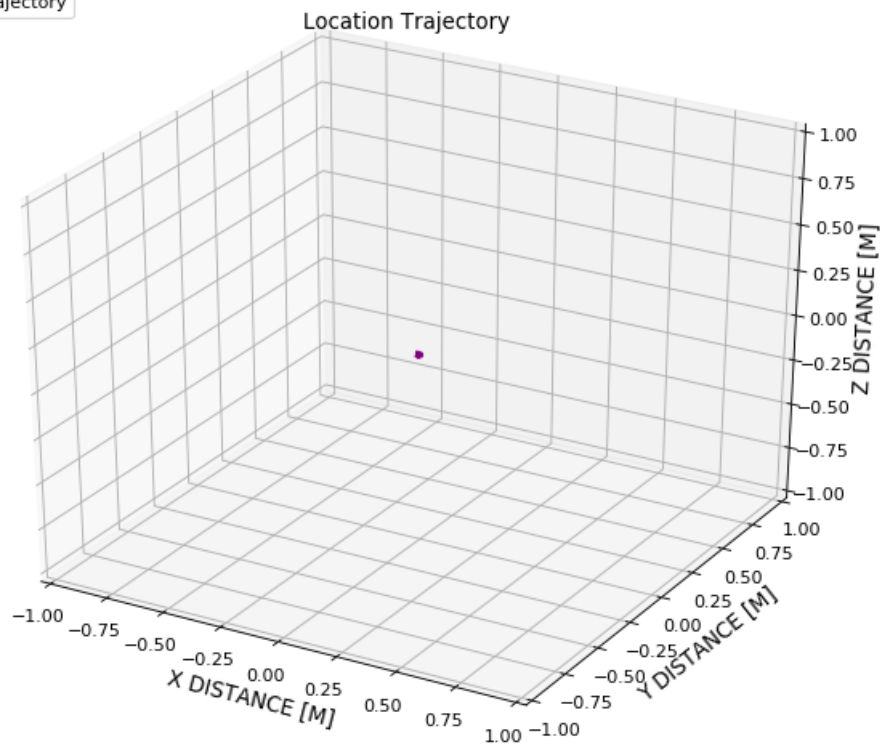
Updated Offset first 200 samples: -0.00011999999999999942



Updated Offset first 200 samples: 0.0



Trajectory



In [17]: runfile('C:/Users/Andre/Desktop/Senior Design/Acceleration Algorithm [4.0].py', wdir='C:/Users/Andre/Desktop/Senior Design')

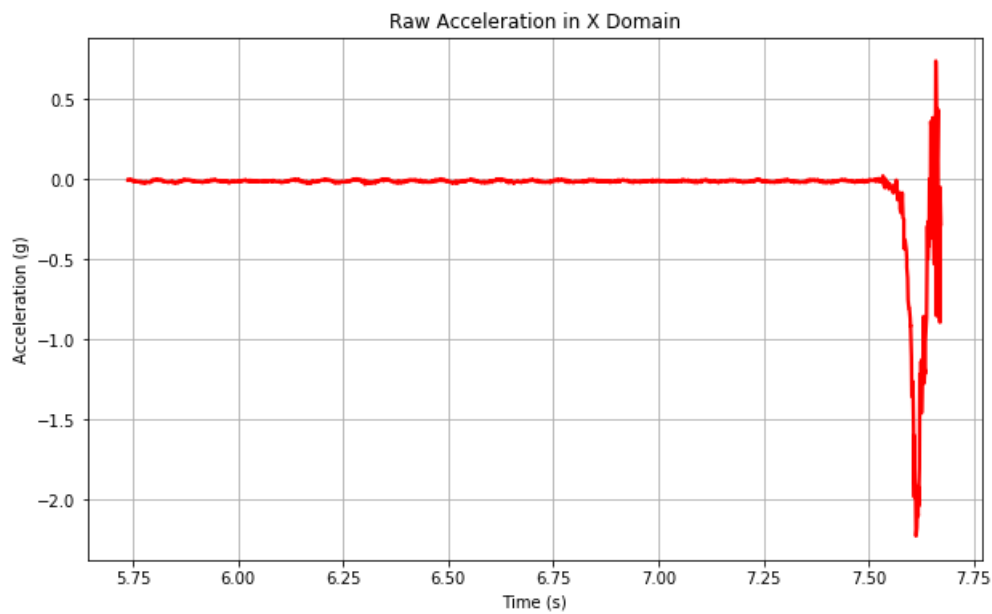
*** FILE METRICS ***

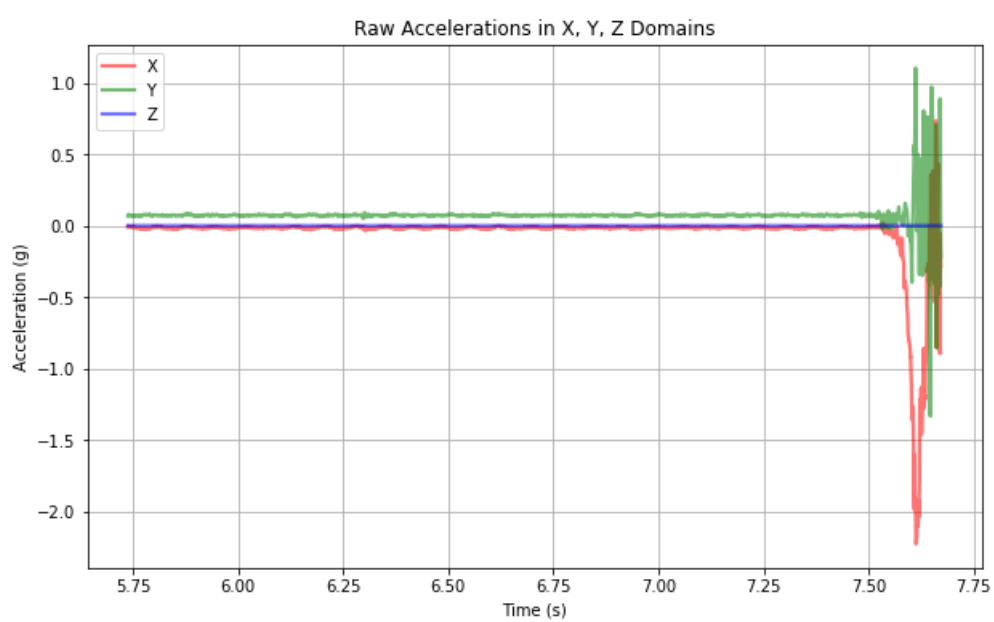
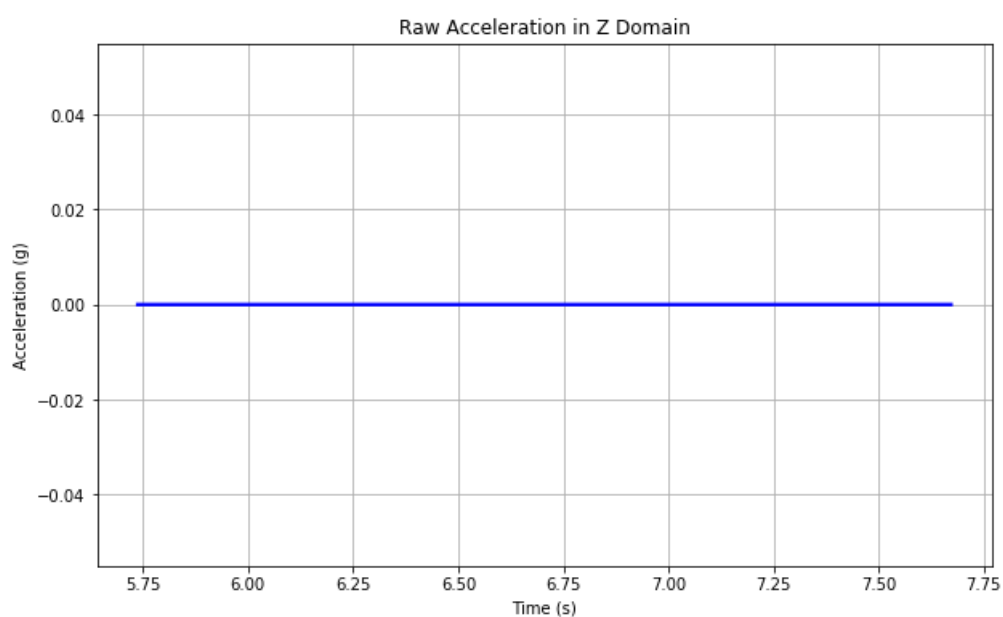
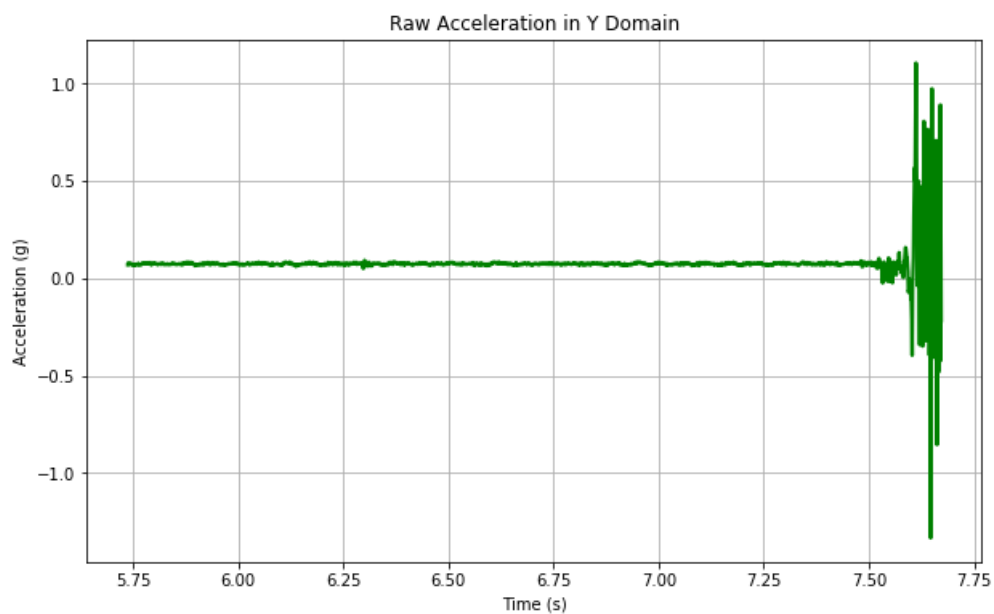
Semester 2 -X Test1 800Hz +- 4Gs Jan 29 2019 (Edited Feb 2 2019).csv is being analyzed

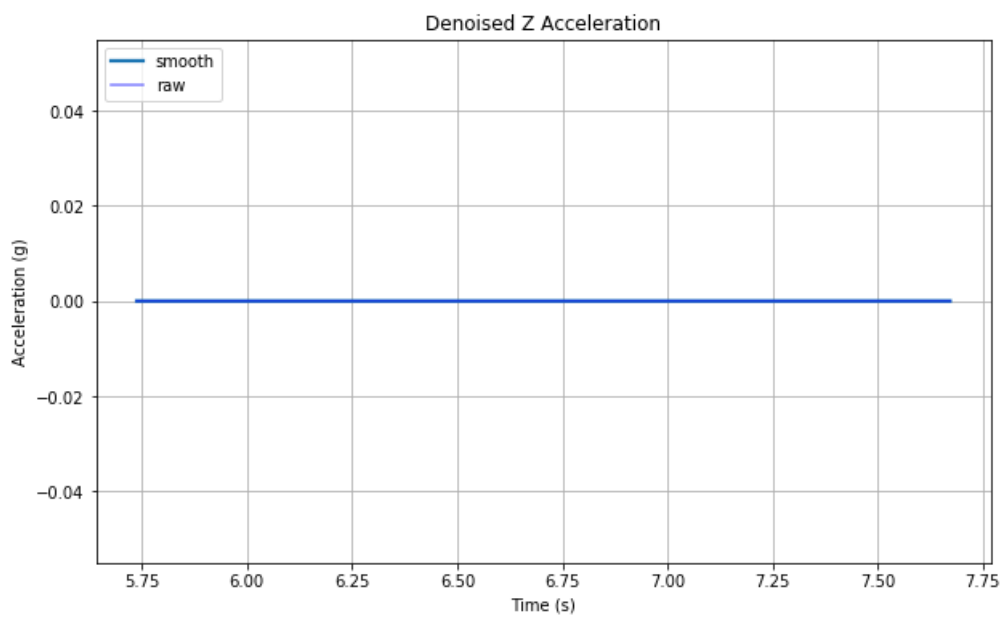
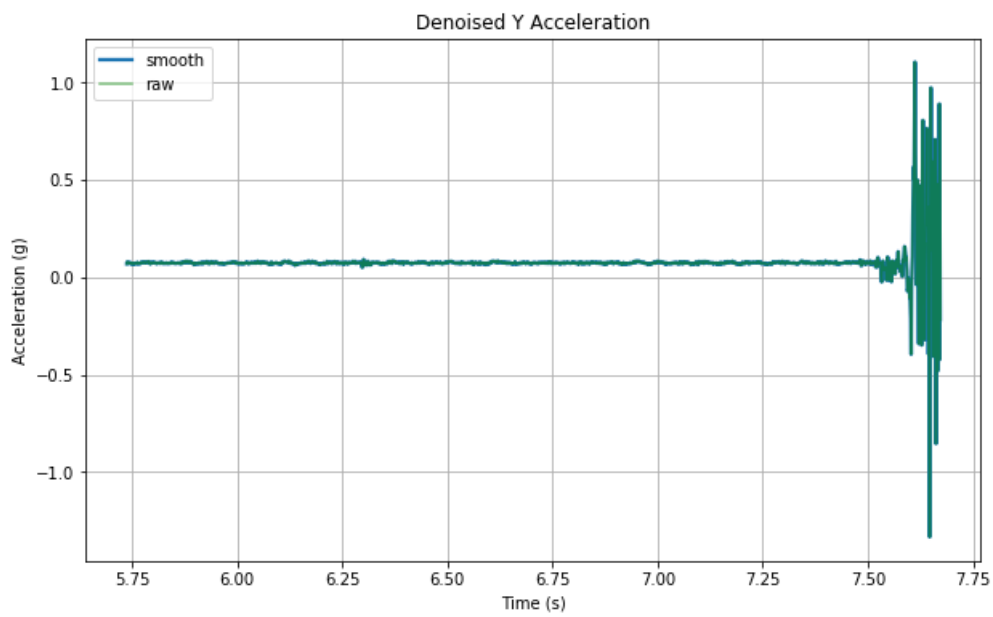
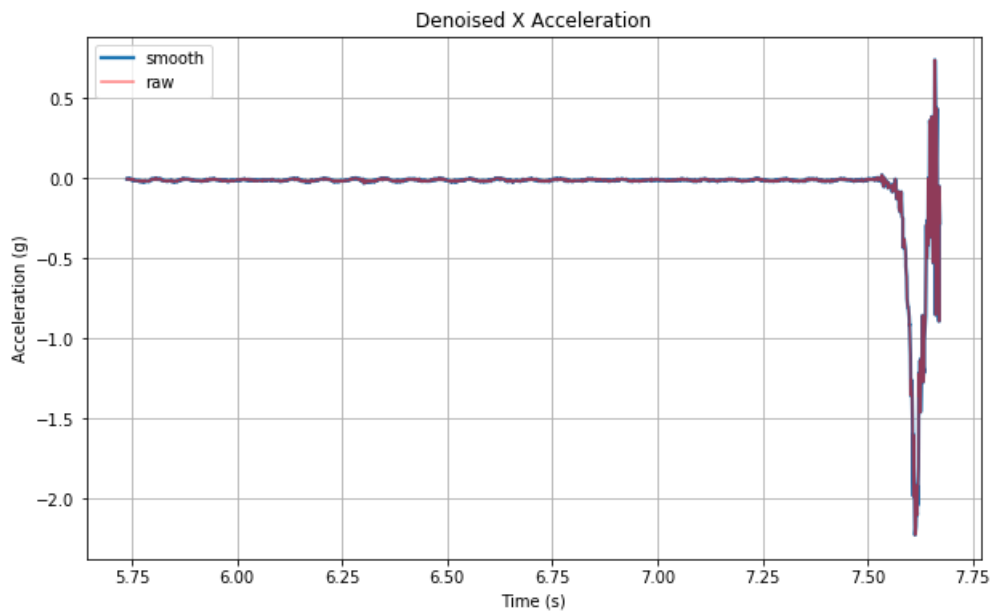
Data Size: 0.09 MB

Samples: 1545

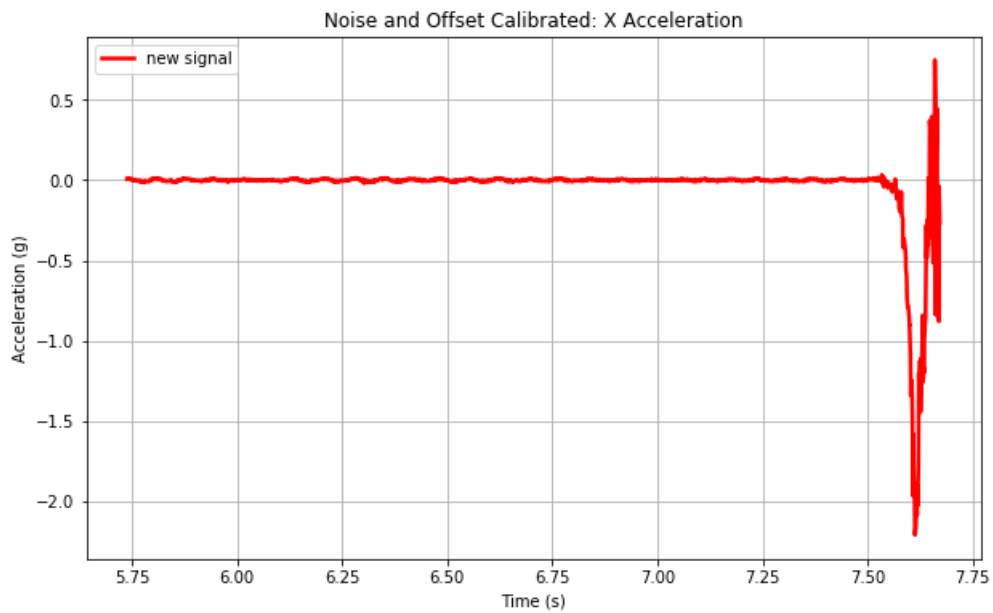
Time elapsed: 7.672000000000001 s



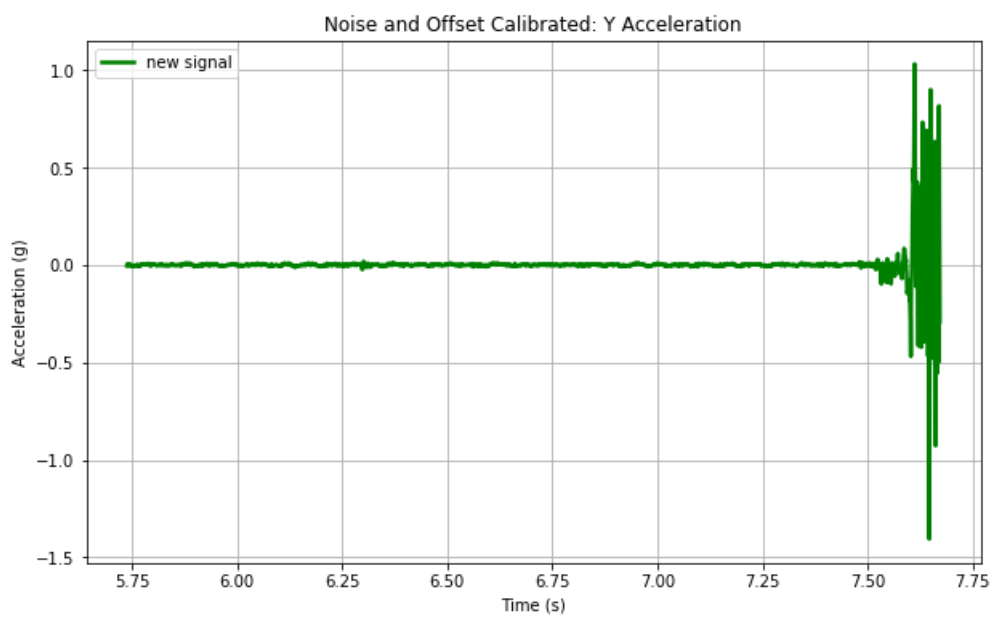




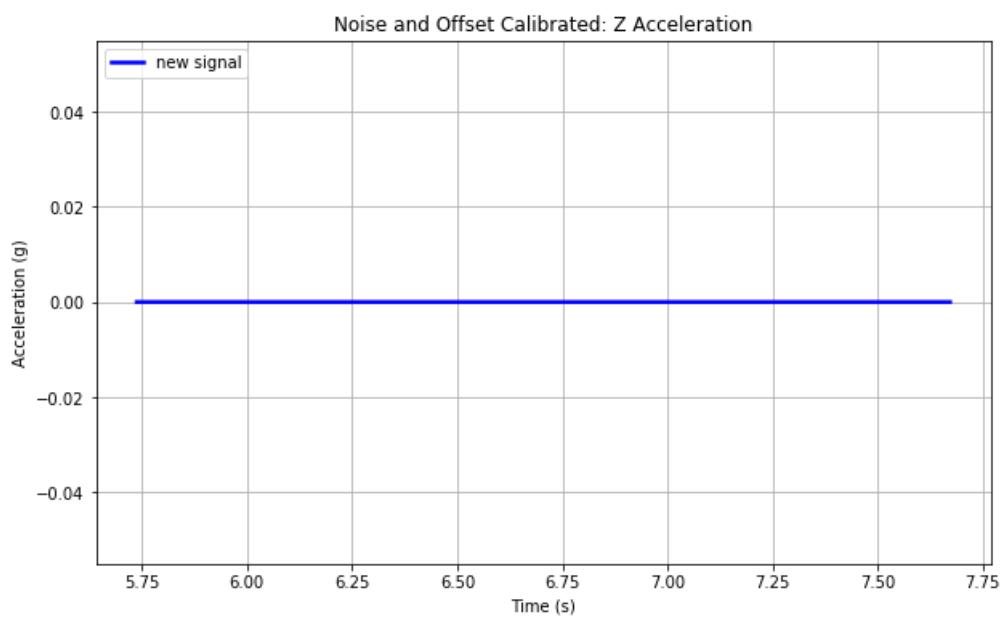
Offset first 200 samples X: %.4f -0.01452
Offset first 200 samples Y: %.4f 0.07257
Offset first 200 samples Z: %.4f 1.0



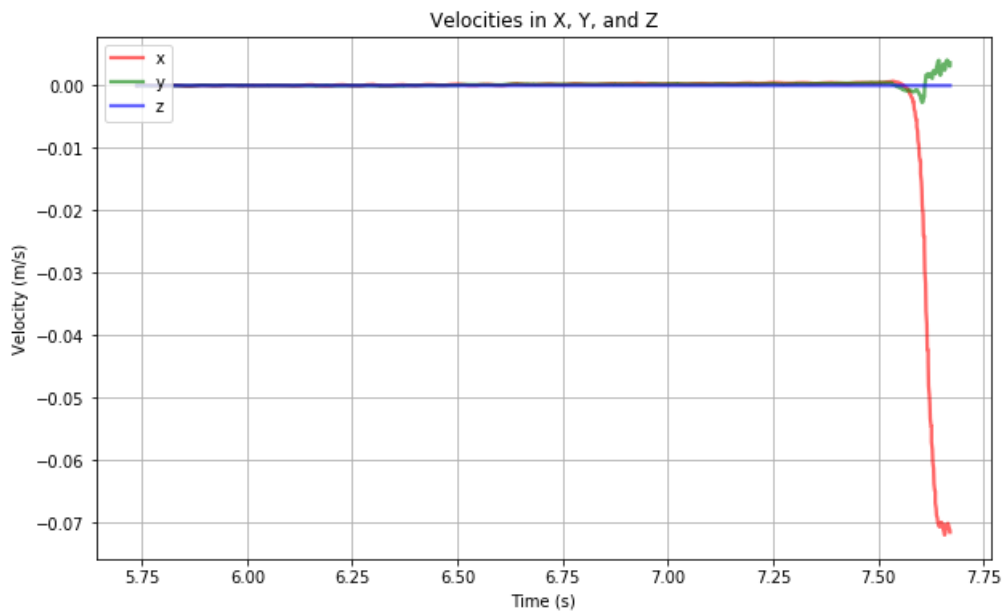
Updated Offset first 200 samples: -0.0009300000000000006



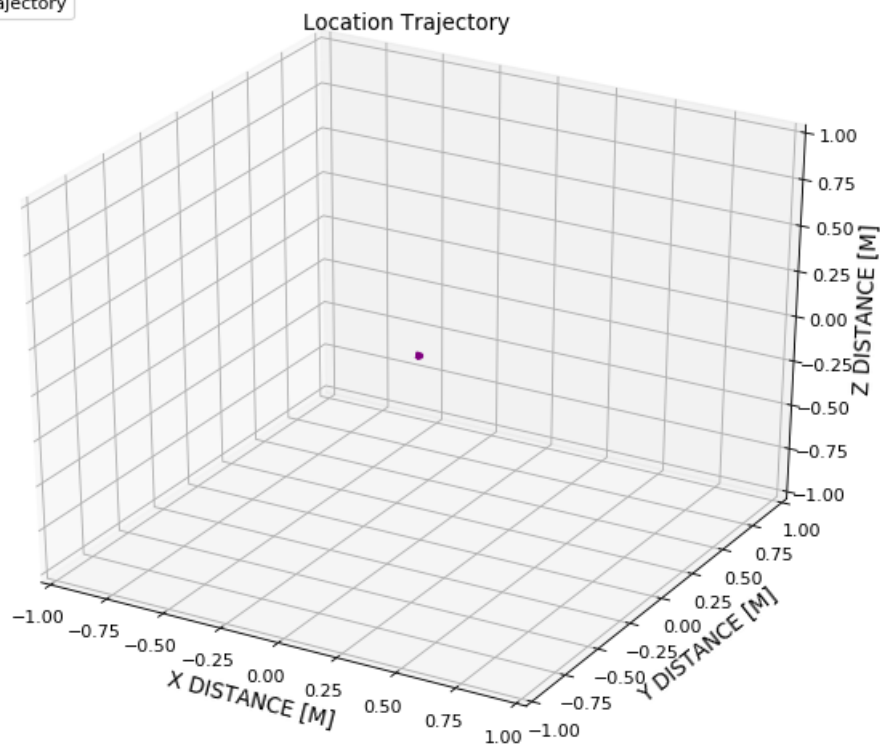
Updated Offset first 200 samples: -0.00011999999999999942



Updated Offset first 200 samples: 0.0



Trajectory



In [18]: runfile('C:/Users/Andre/Desktop/Senior Design/Acceleration Algorithm [4.0].py', wdir='C:/Users/Andre/Desktop/Senior Design')

*** FILE METRICS ***

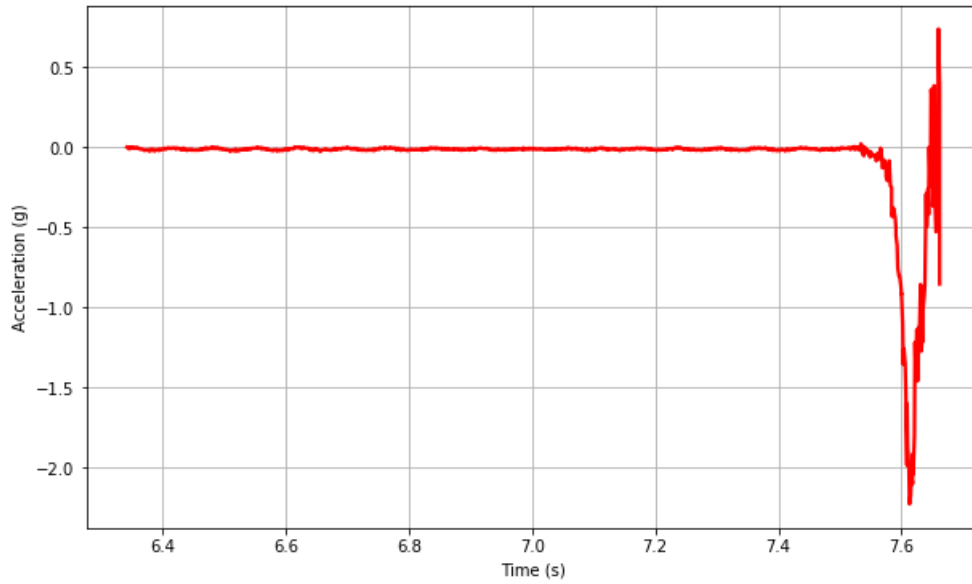
Semester 2 -X Test1 800Hz +- 4Gs Jan 29 2019 (Edited Feb 2 2019).csv is being analyzed

Data Size: 0.06 MB

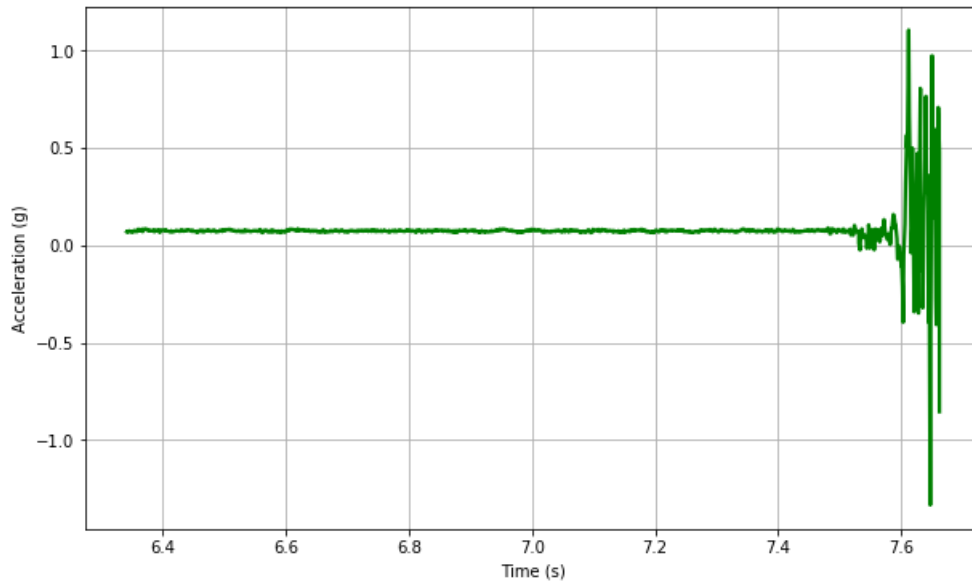
Samples: 1055

Time elapsed: 7.662000000000001 s

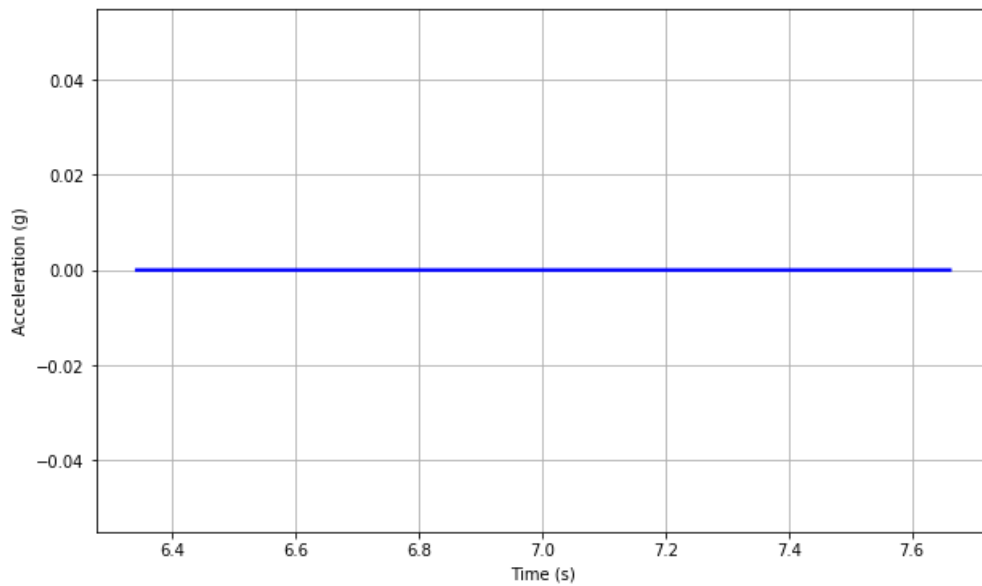
Raw Acceleration in X Domain



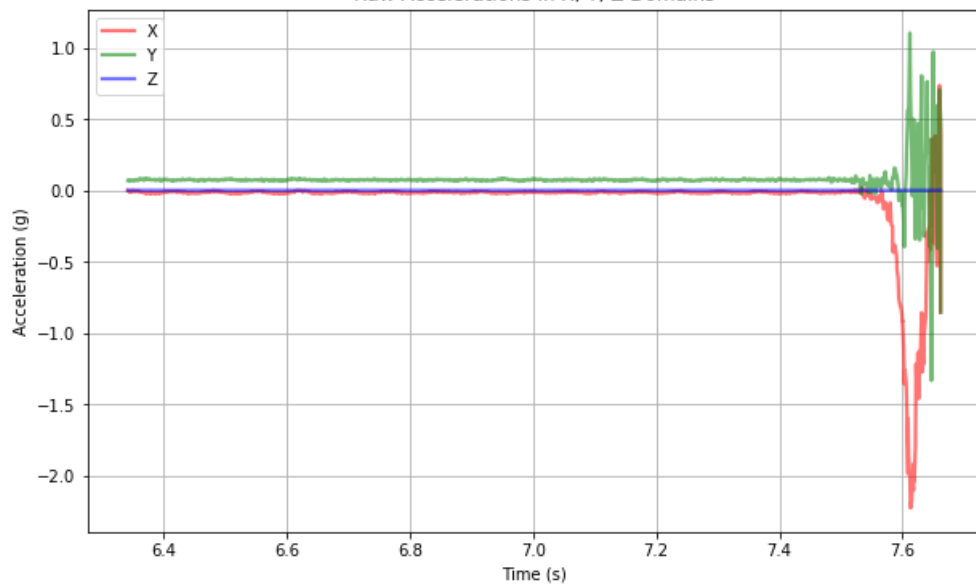
Raw Acceleration in Y Domain



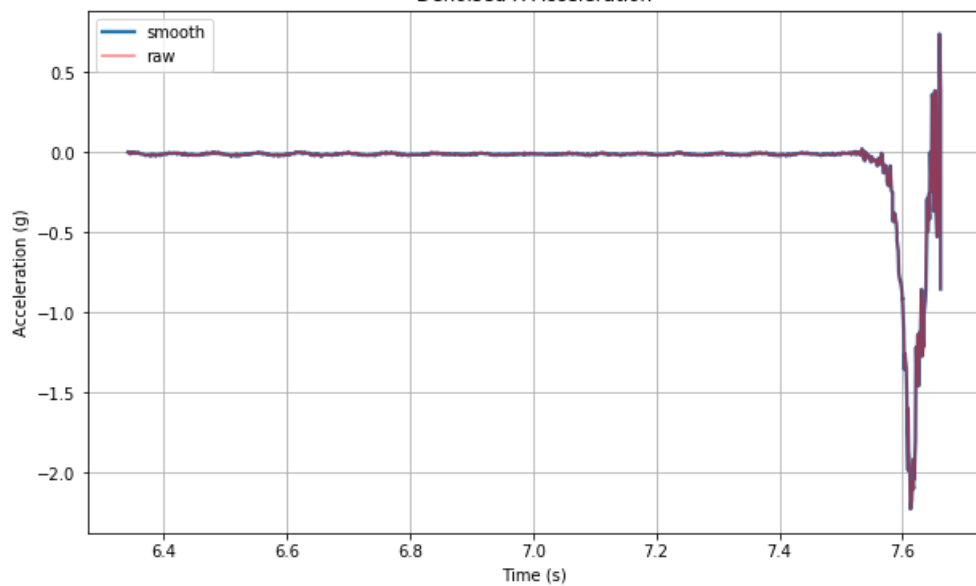
Raw Acceleration in Z Domain



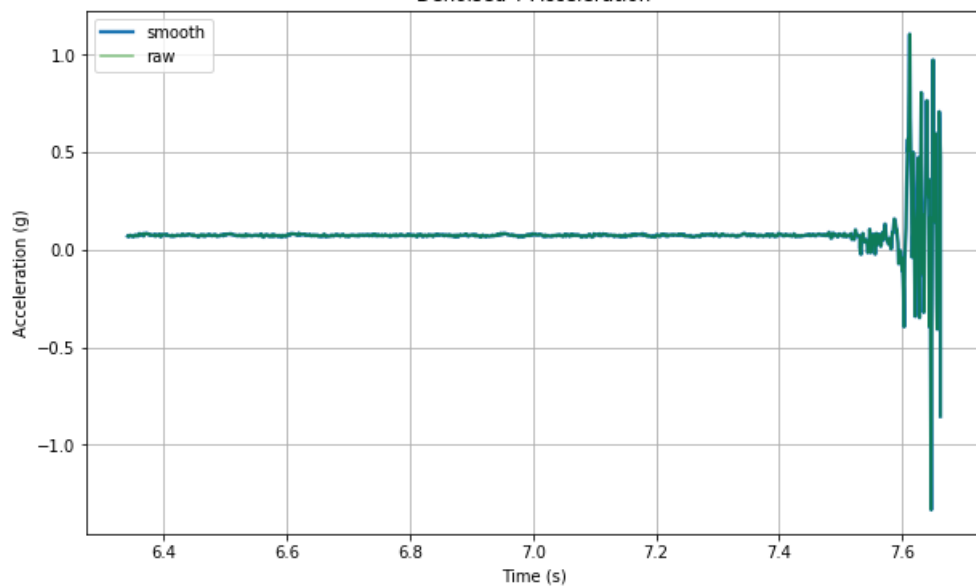
Raw Accelerations in X, Y, Z Domains

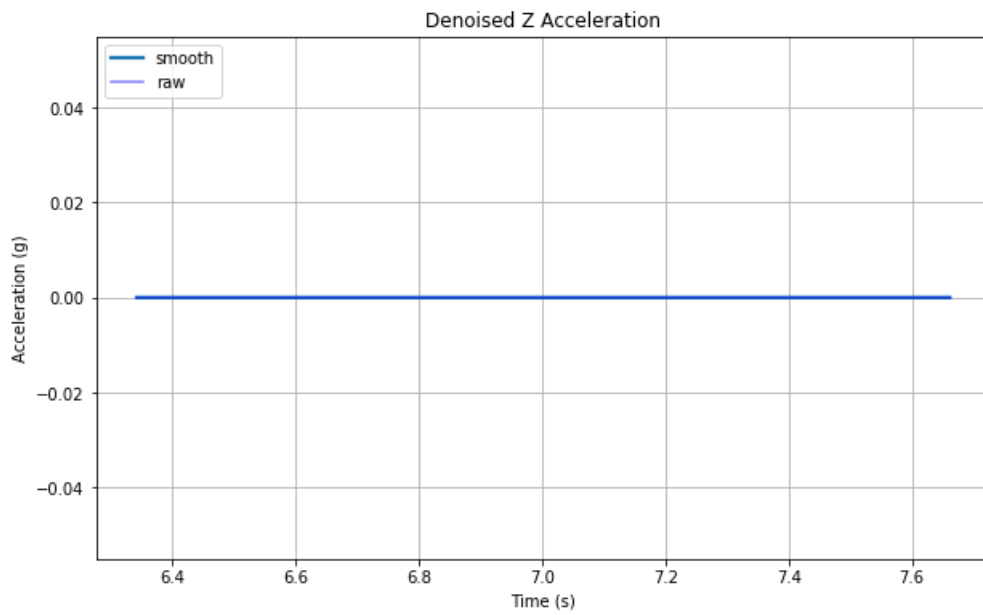


Denoised X Acceleration

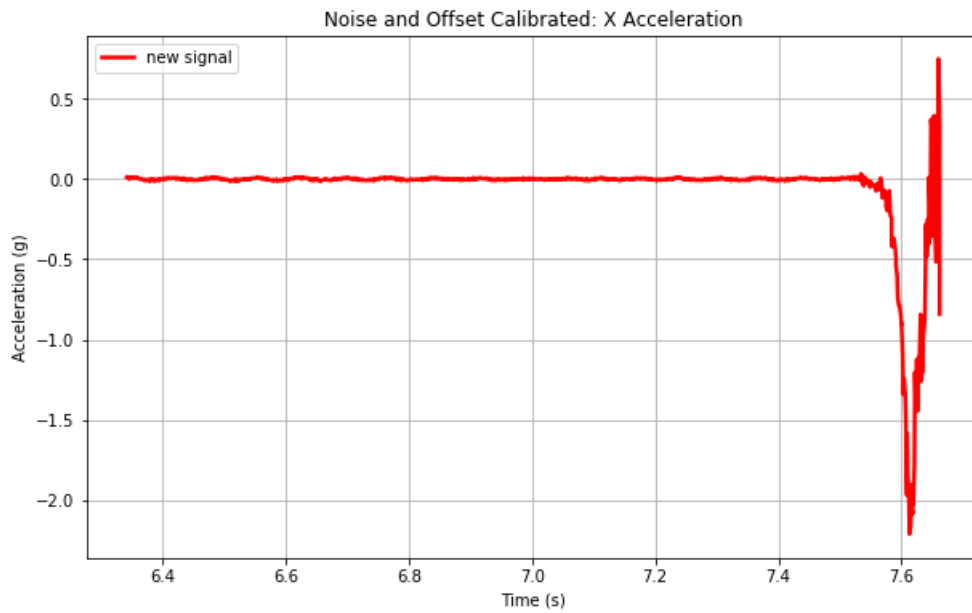


Denoised Y Acceleration

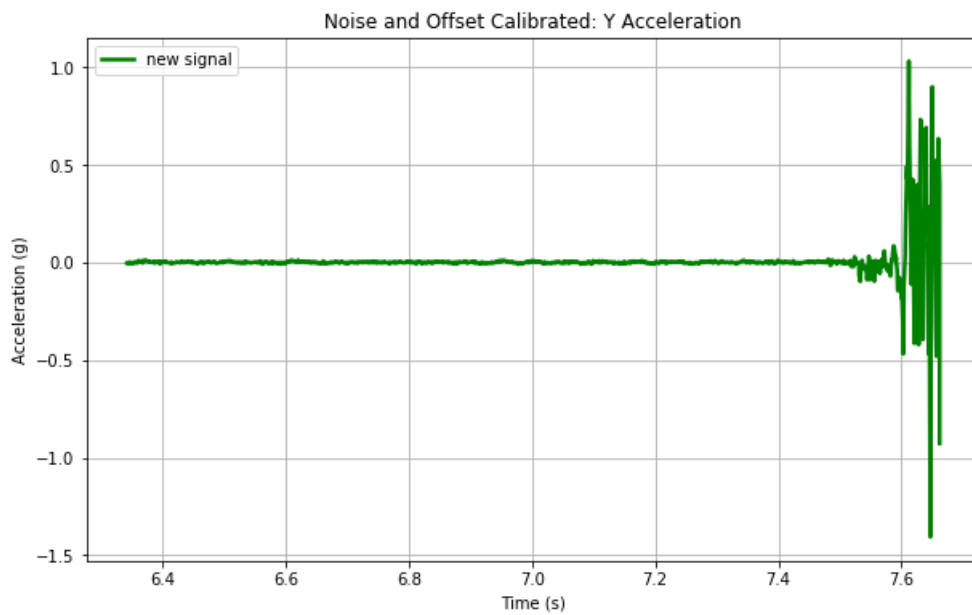




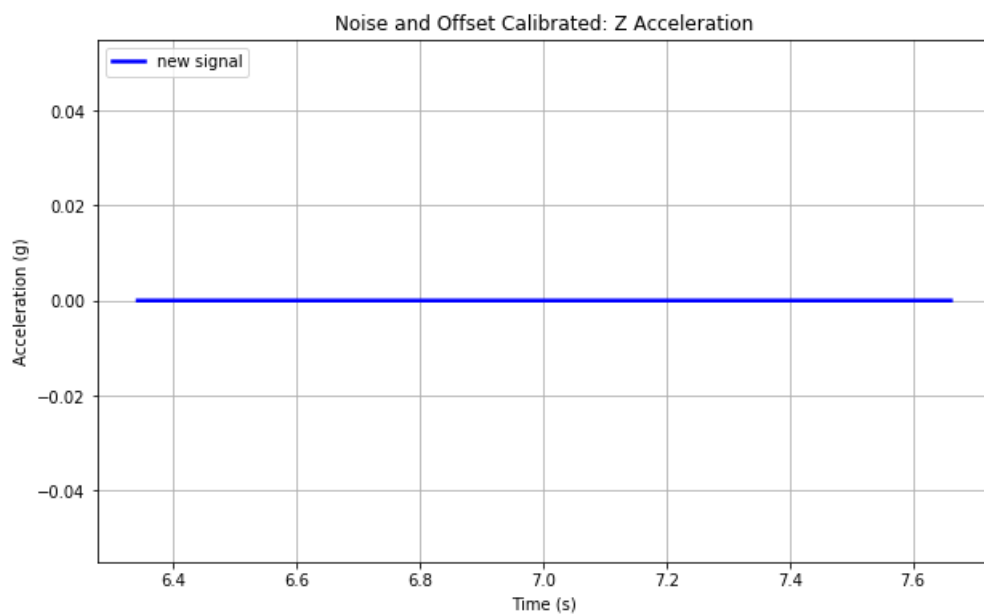
Offset first 200 samples X: %.4f -0.01425
 Offset first 200 samples Y: %.4f 0.07307
 Offset first 200 samples Z: %.4f 1.0



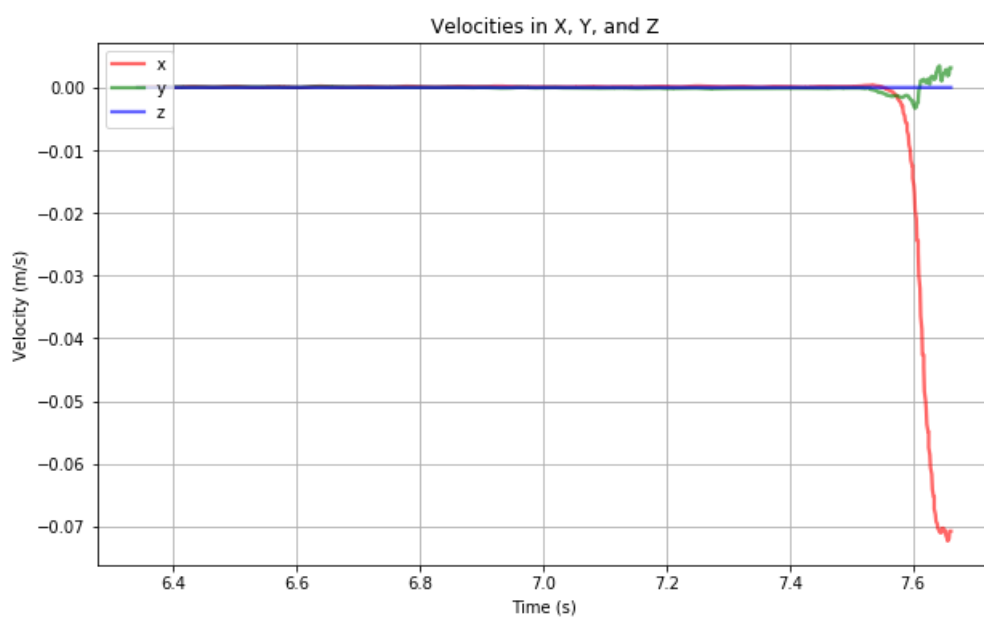
Updated Offset first 200 samples: 0.0001400000000000002



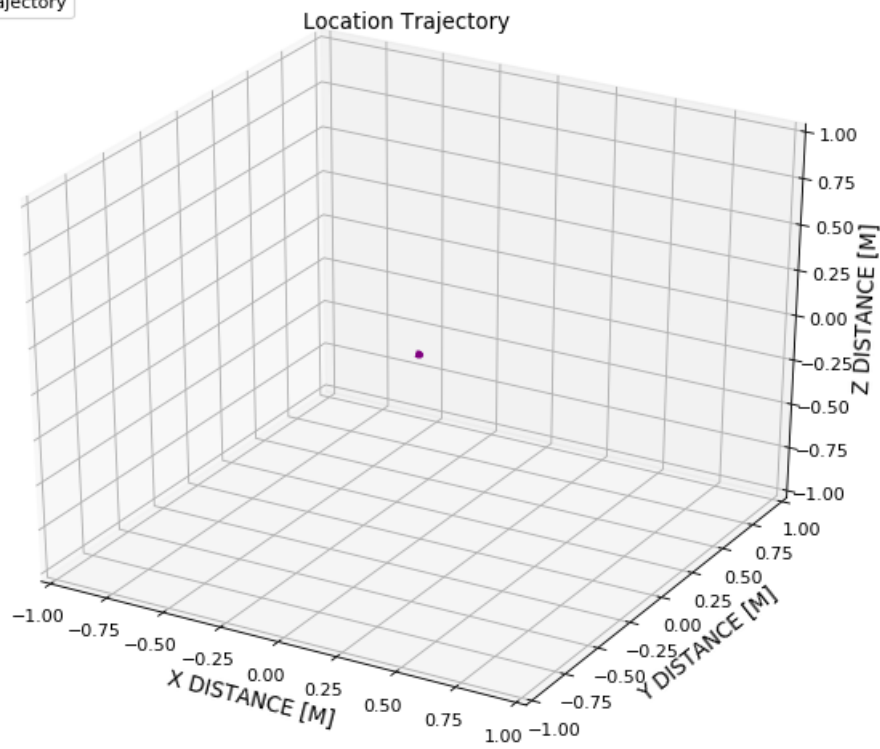
Updated Offset first 200 samples: 0.0002900000000000005



Updated Offset first 200 samples: 0.0



Trajectory



In [19]: runfile('C:/Users/Andre/Desktop/Senior Design/Acceleration Algorithm [4.0].py', wdir='C:/Users/Andre/Desktop/Senior Design')

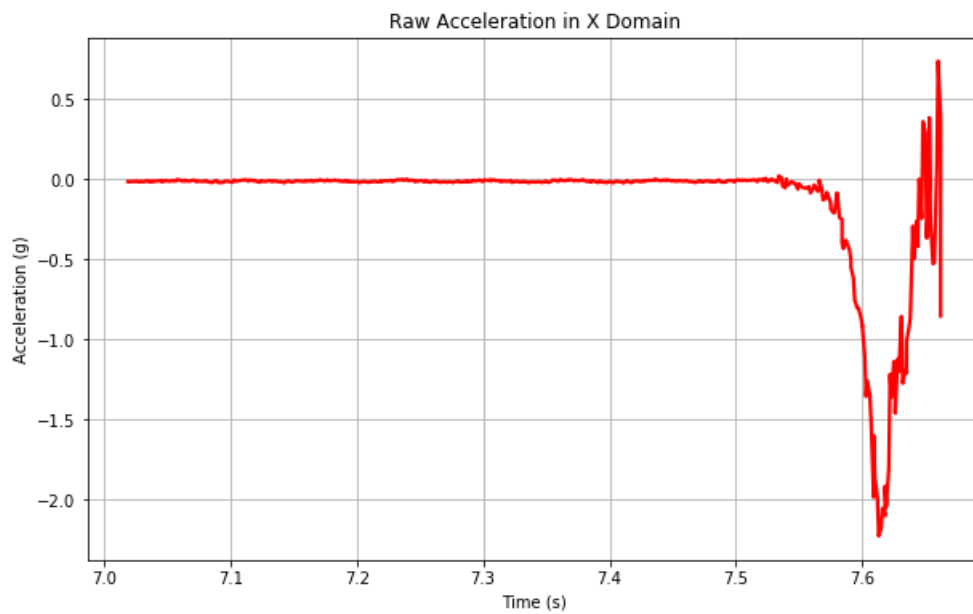
*** FILE METRICS ***

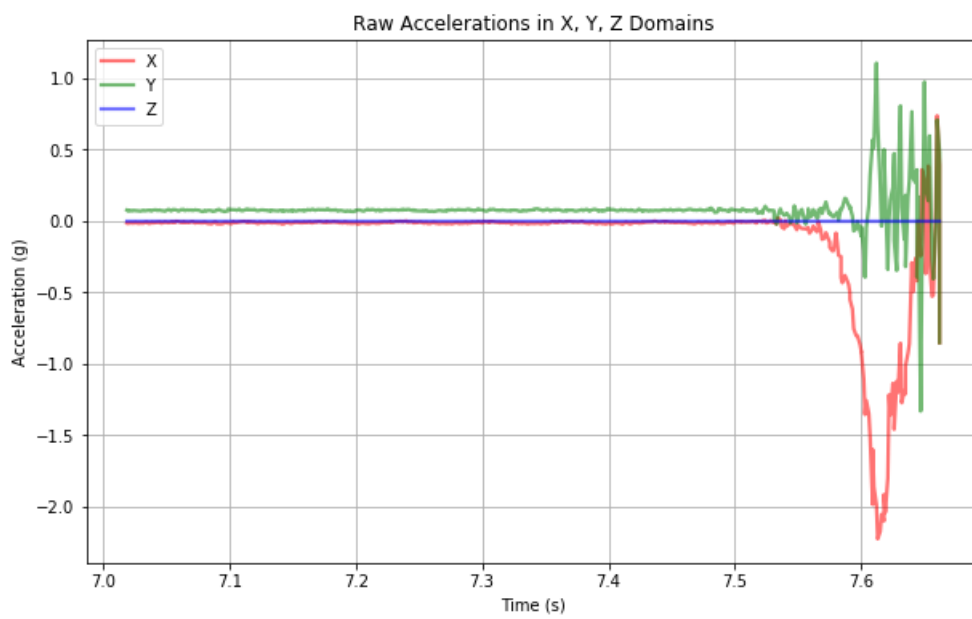
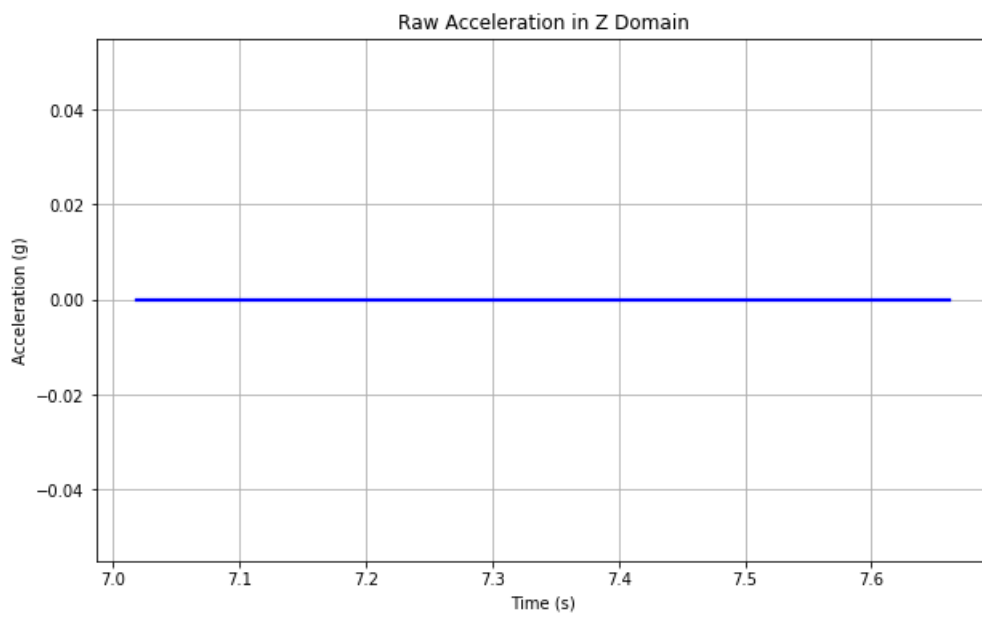
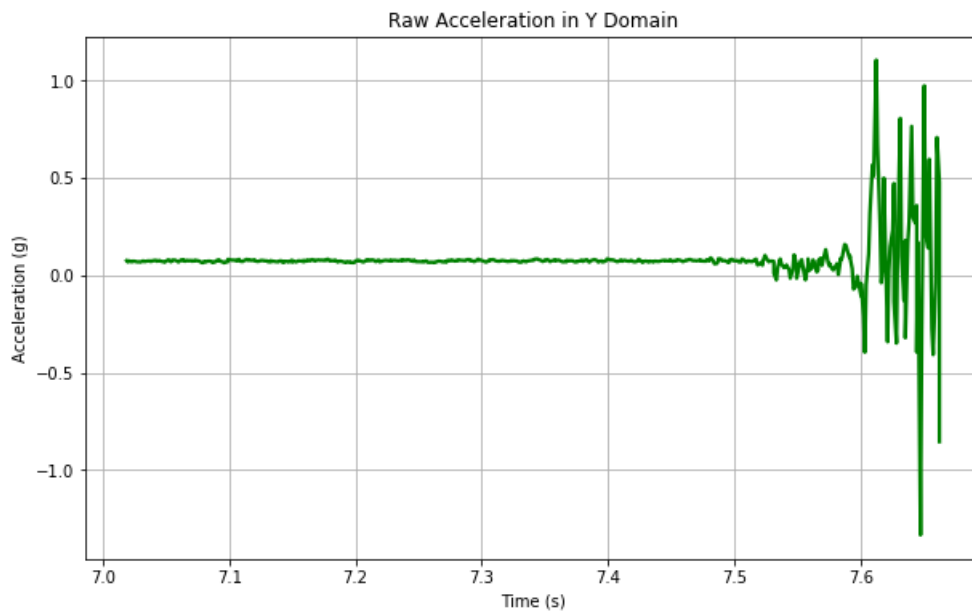
Semester 2 -X Test1 800Hz +- 4Gs Jan 29 2019 (Edited Feb 2 2019).csv is being analyzed

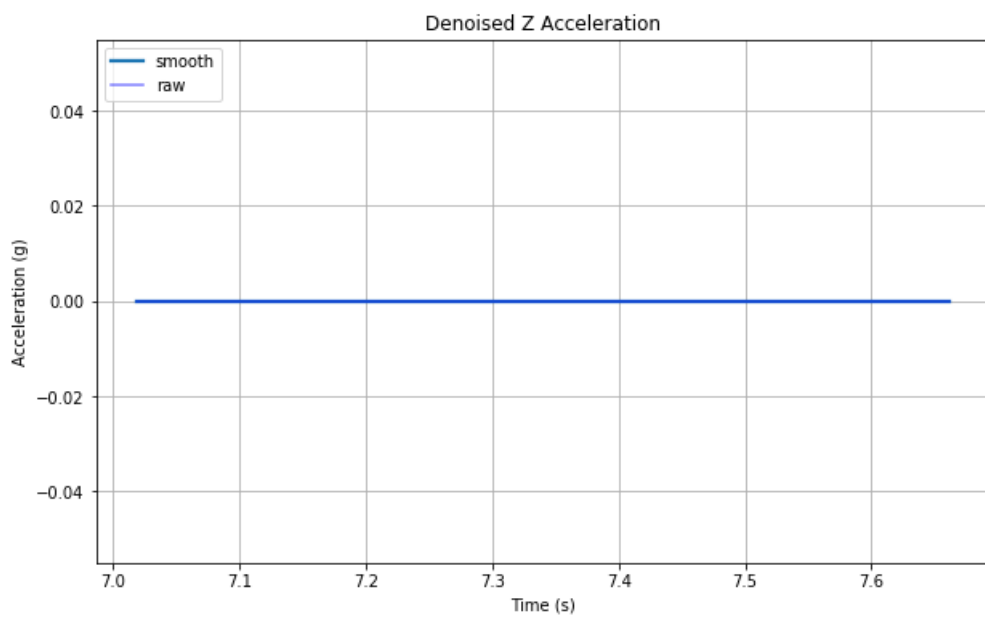
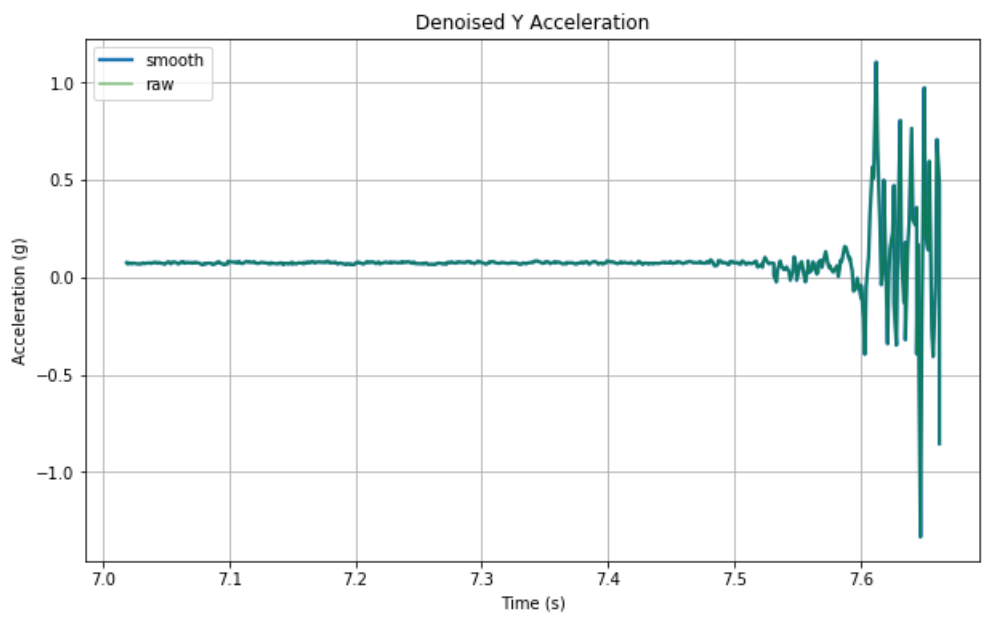
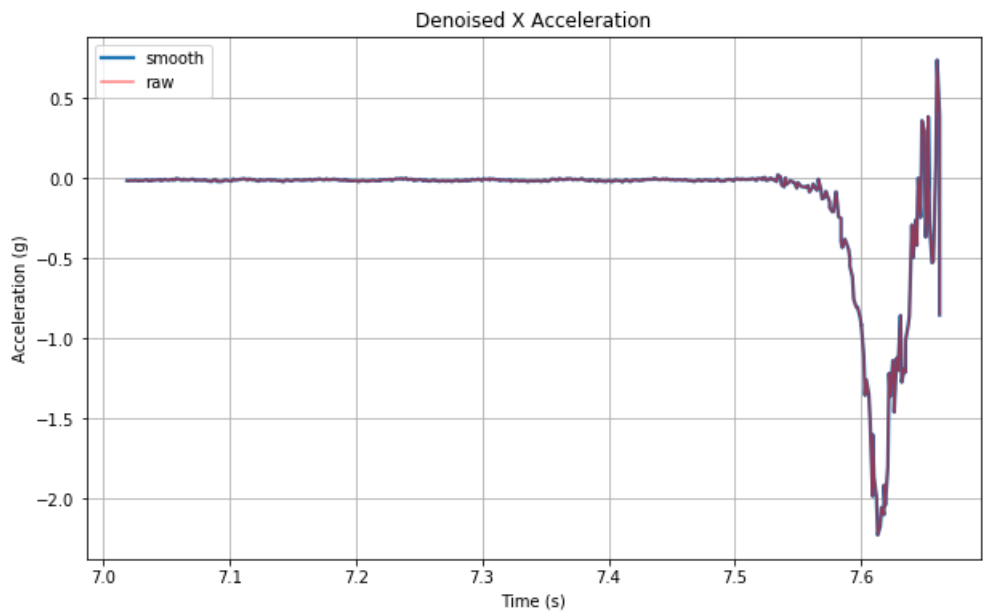
Data Size: 0.03 MB

Samples: 515

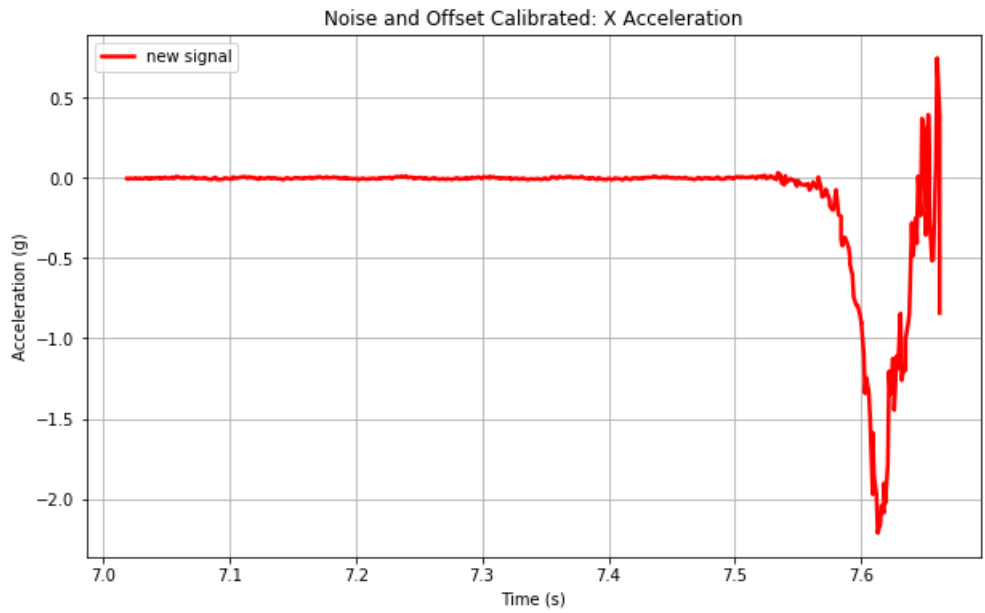
Time elapsed: 7.662000000000001 s



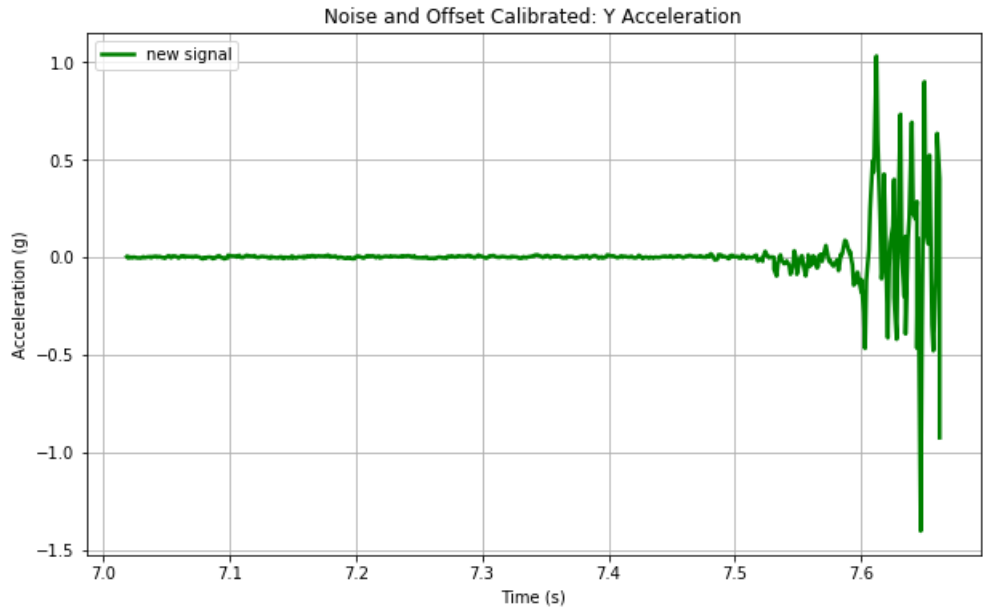




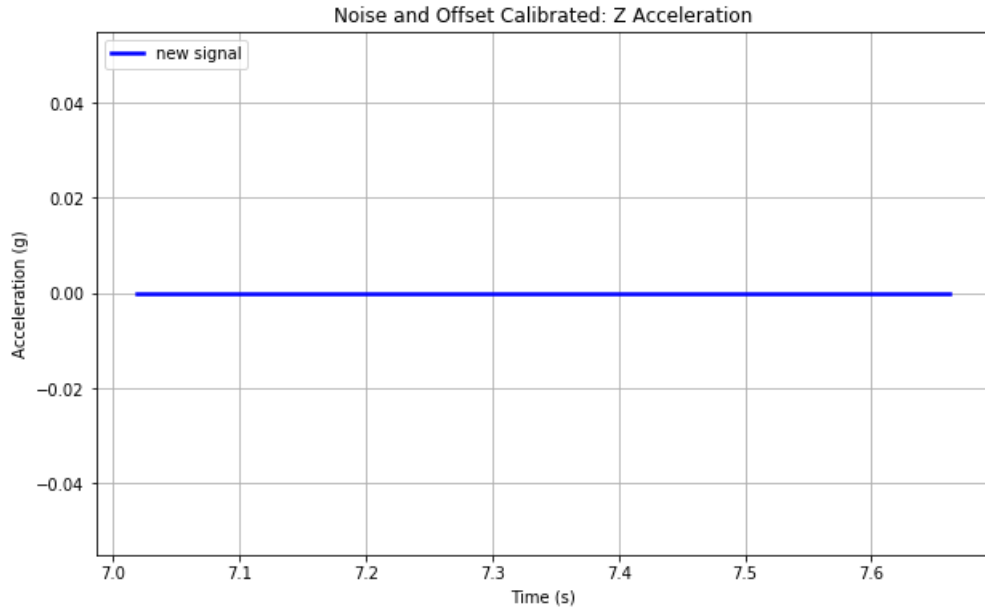
Offset first 200 samples X: %.4f -0.014110000000000003
Offset first 200 samples Y: %.4f 0.07224
Offset first 200 samples Z: %.4f 1.0



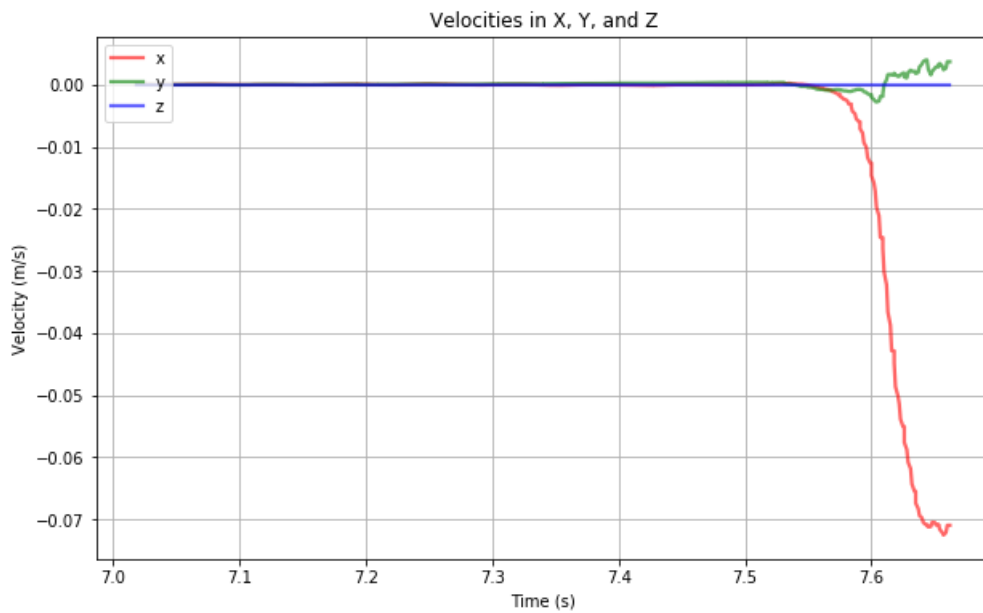
Updated Offset first 200 samples: -0.0003199999999999976



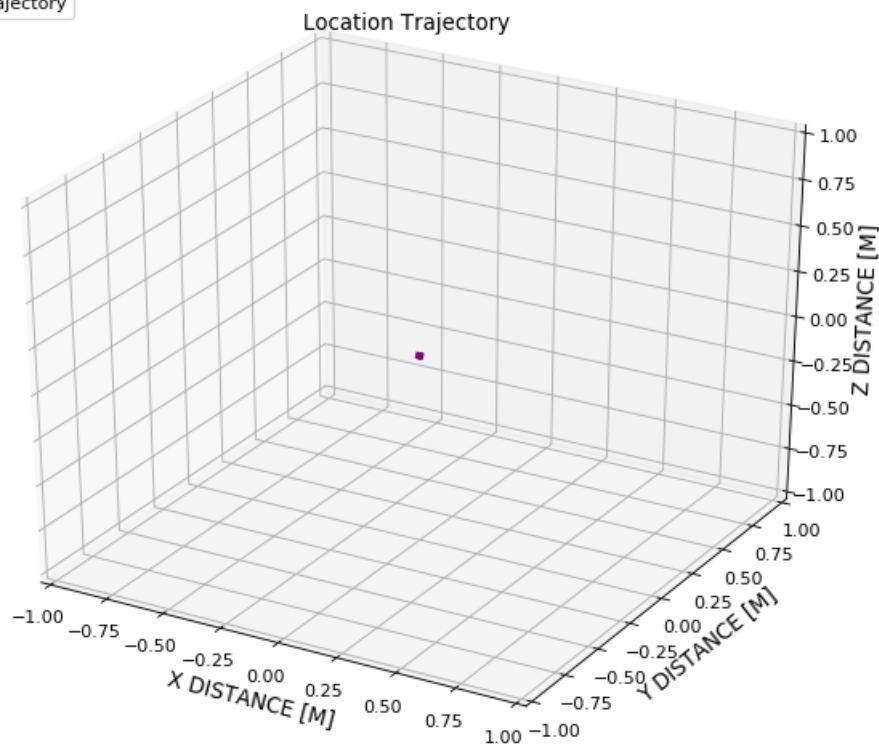
Updated Offset first 200 samples: -9.99999999997094e-06



Updated Offset first 200 samples: 0.0



Trajectory



In [20]: `runfile('C:/Users/Andre/Desktop/Senior Design/Acceleration Algorithm [4.0].py', wdir='C:/Users/Andre/Desktop/Senior Design')`

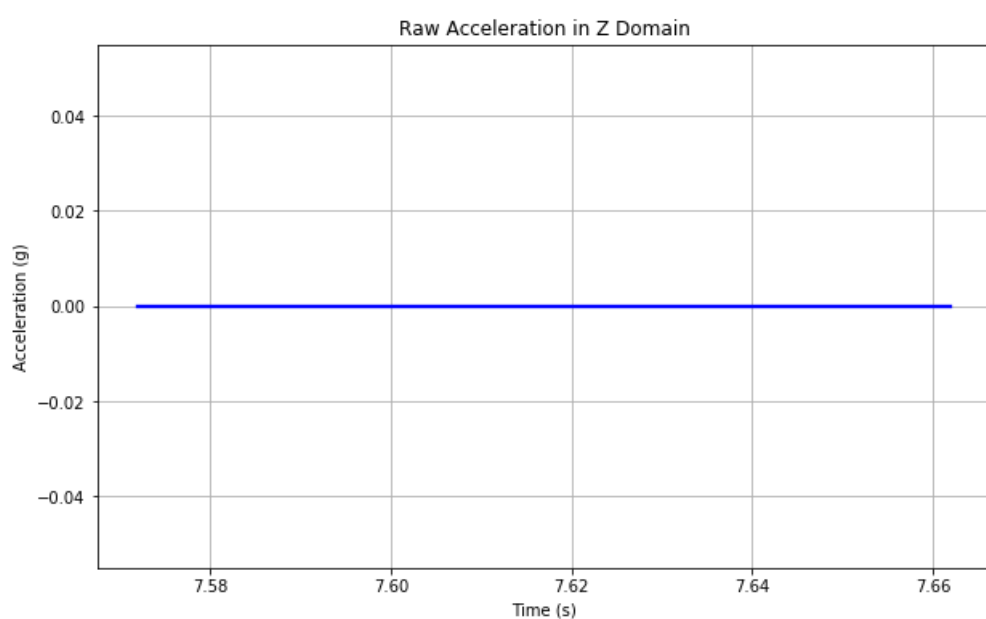
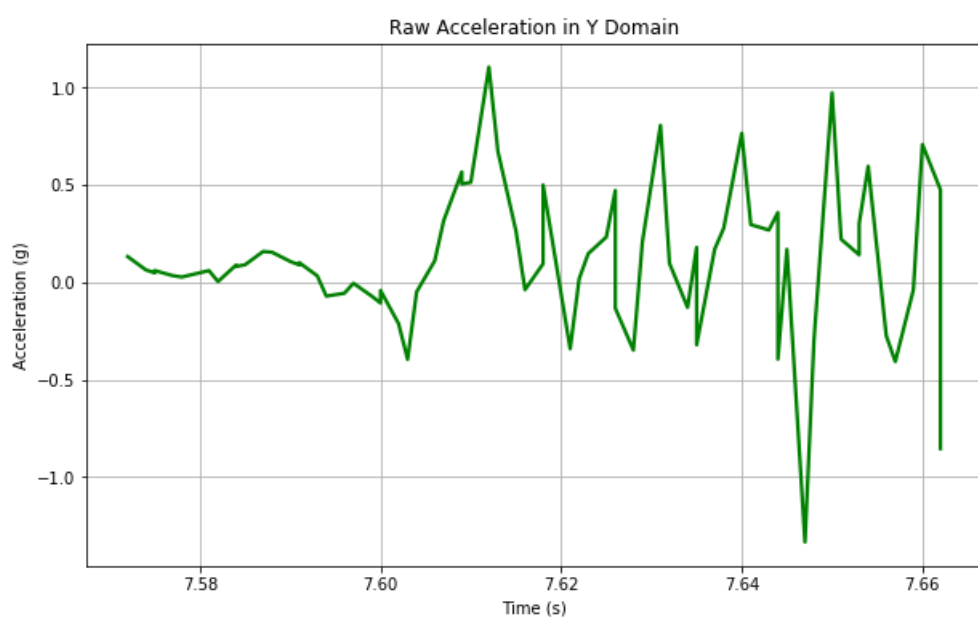
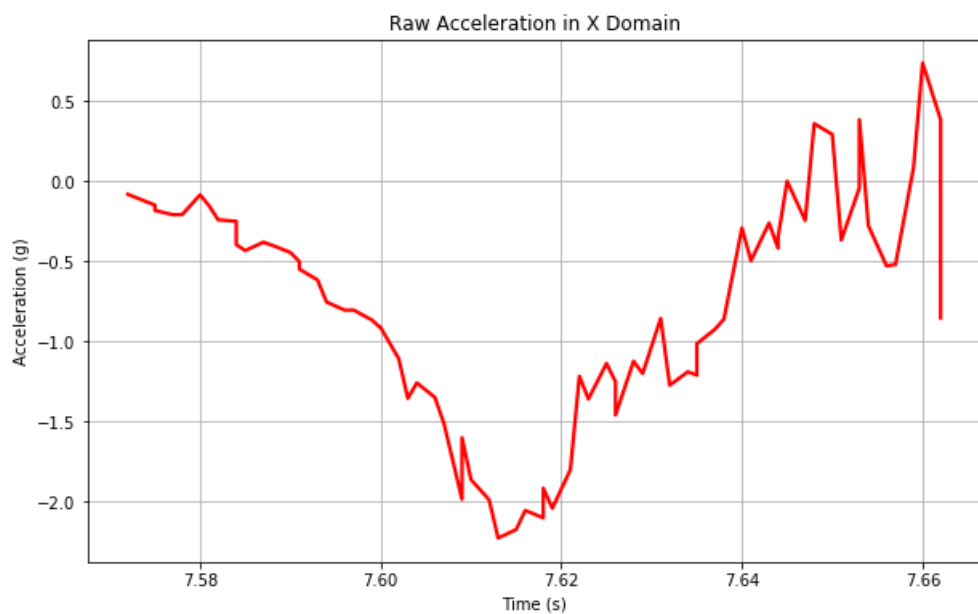
*** FILE METRICS ***

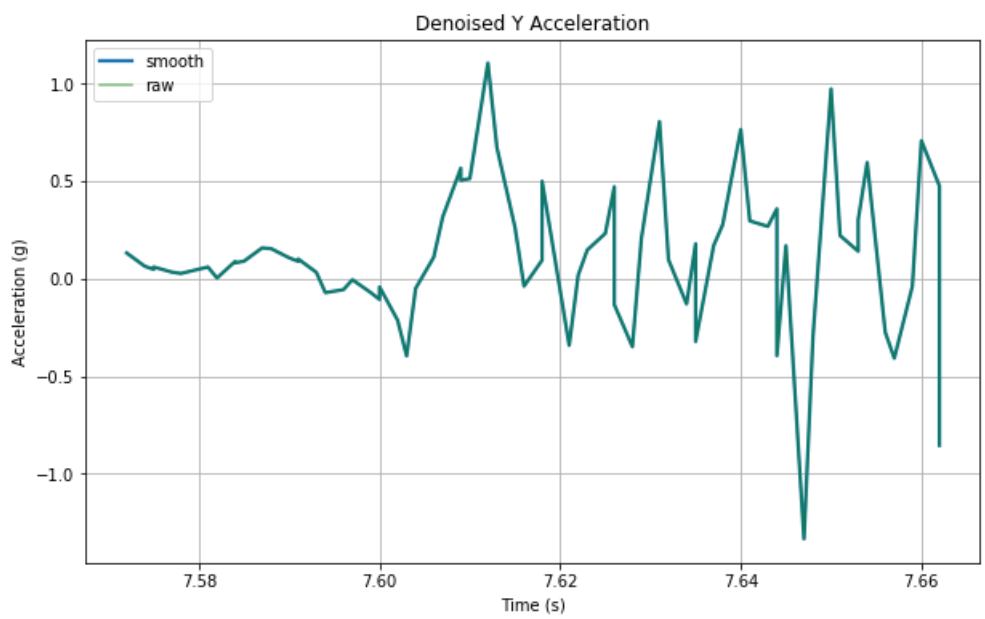
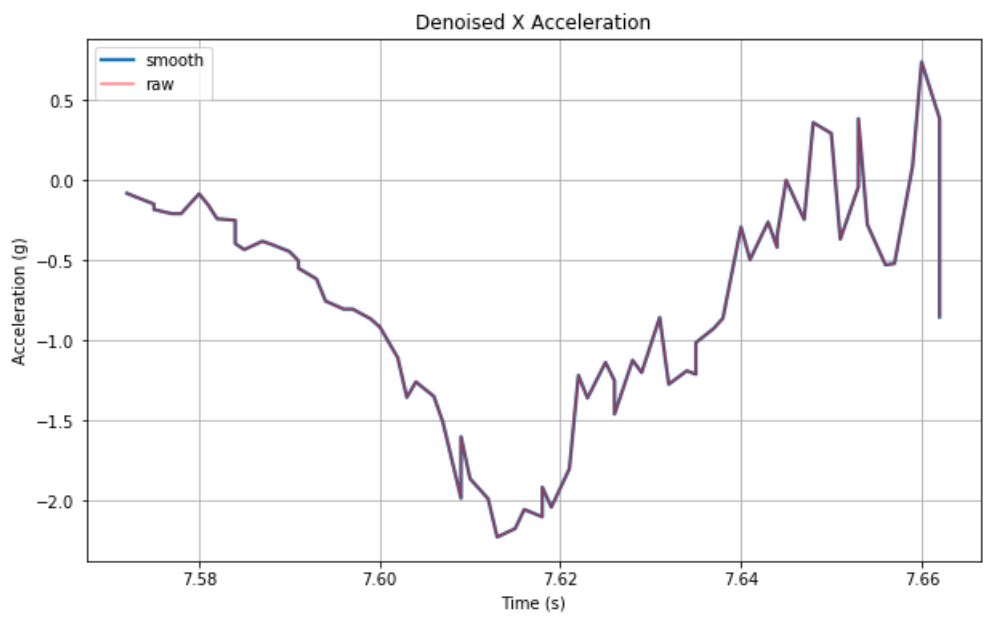
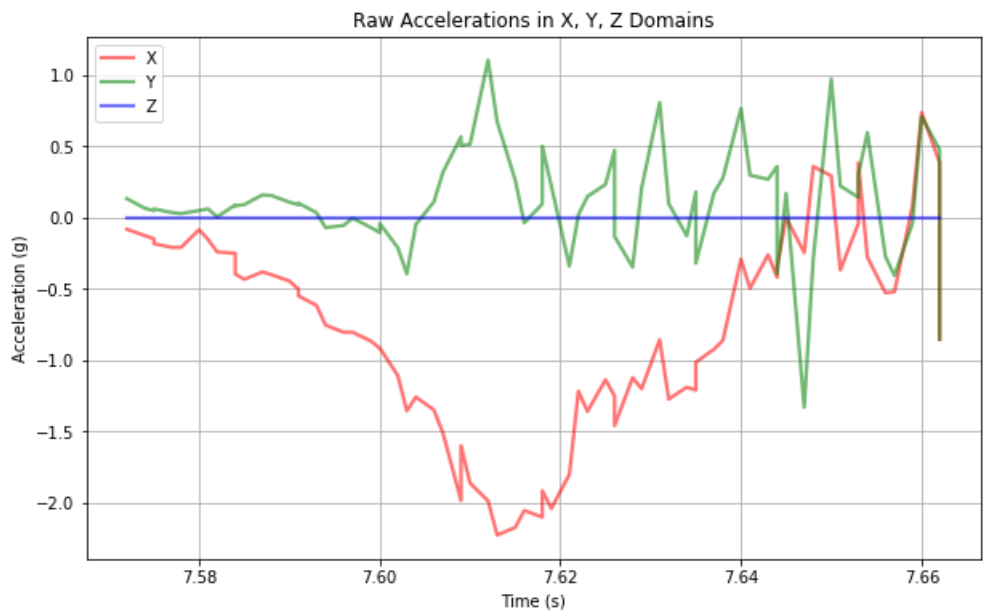
Semester 2 -X Test1 800Hz +- 4Gs Jan 29 2019 (Edited Feb 2 2019).csv is being analyzed

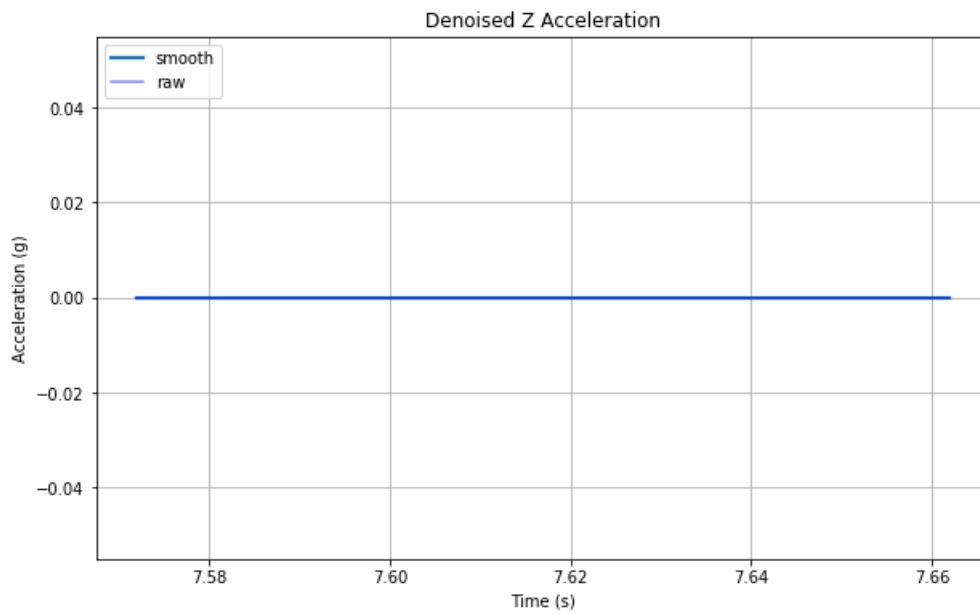
Data Size: 0.00 MB

Samples: 73

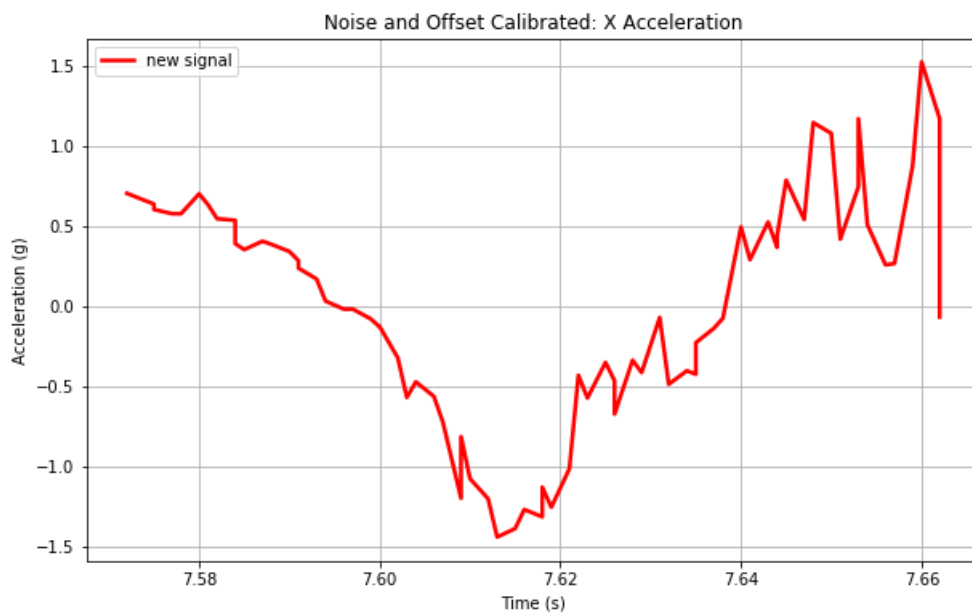
Time elapsed: 7.662000000000001 s



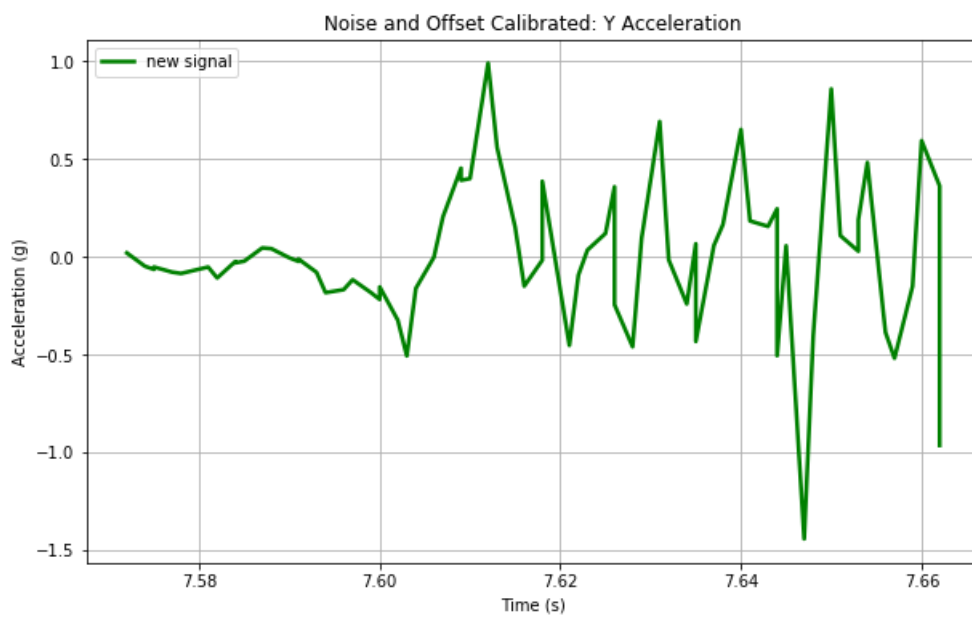




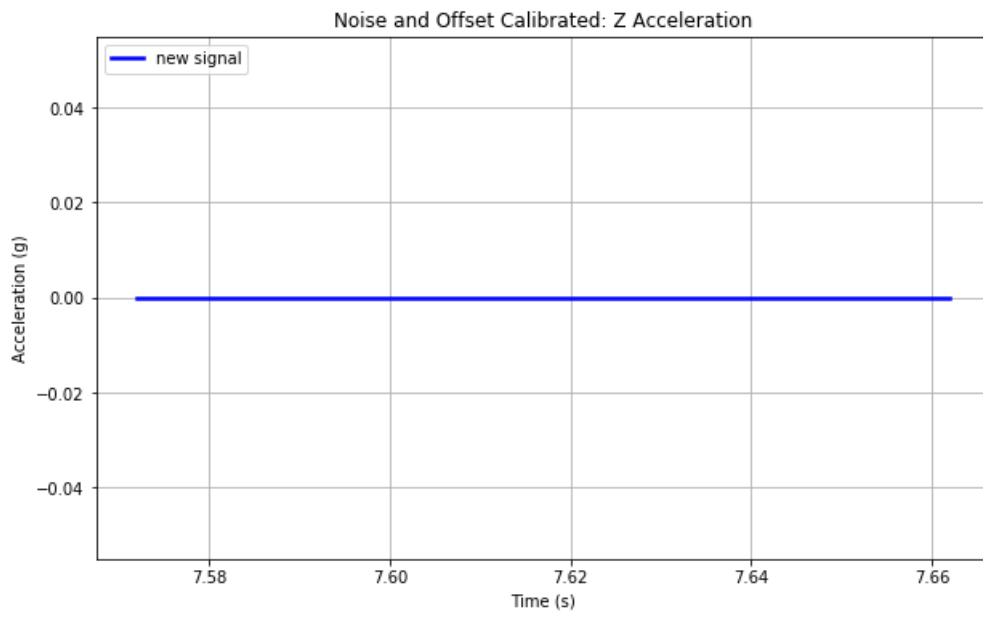
Offset first 200 samples X: %.4f -0.7865205479452055
Offset first 200 samples Y: %.4f 0.11141095890410958
Offset first 200 samples Z: %.4f 1.0



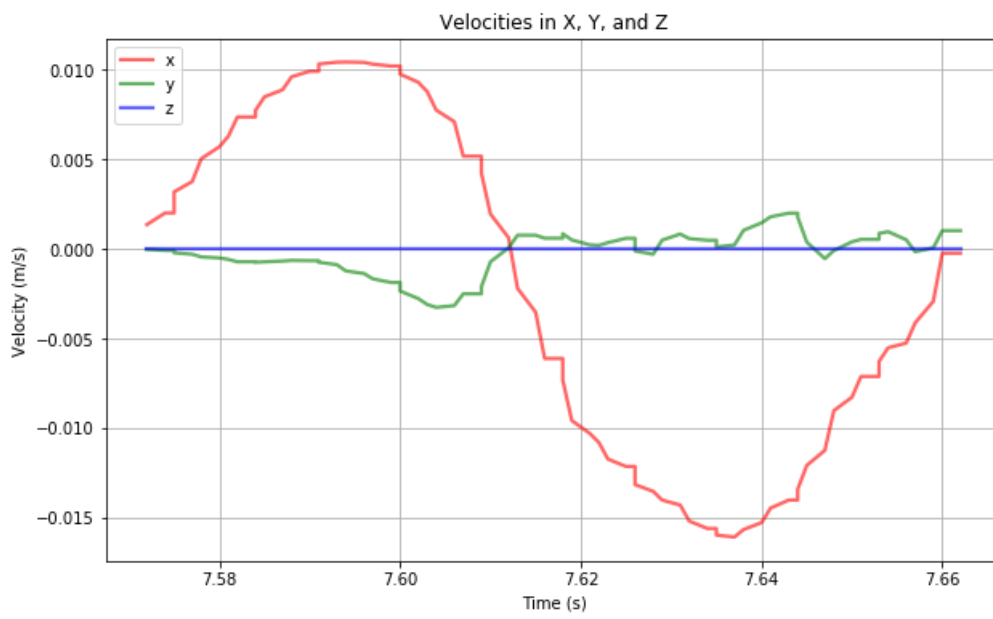
Updated Offset first 200 samples: 6.995925908596876e-17



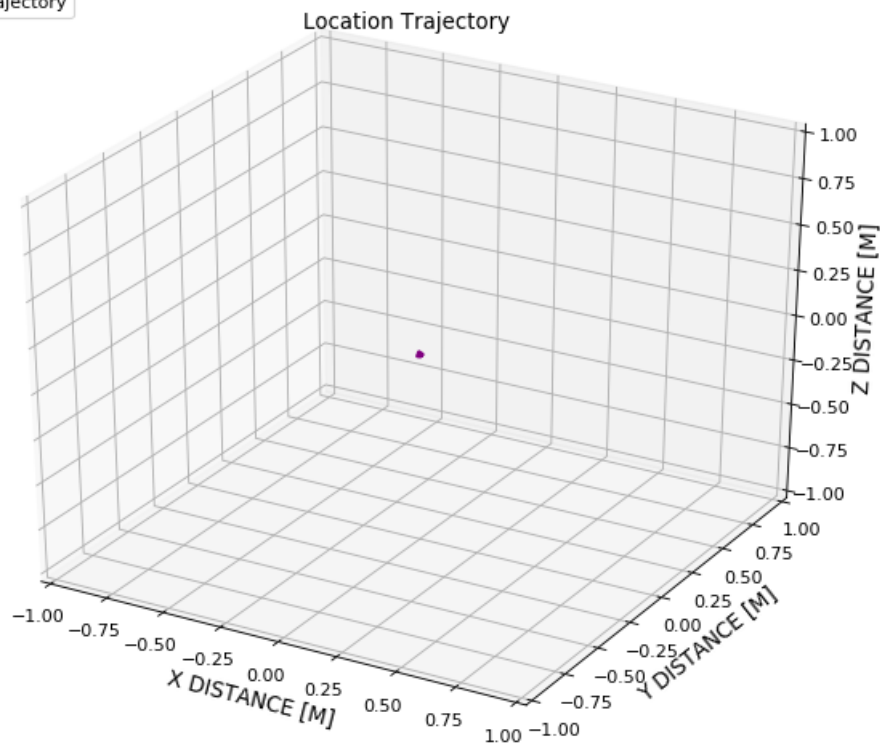
Updated Offset first 200 samples: 4.562560375171876e-18



Updated Offset first 200 samples: 0.0



Trajectory



In [21]: runfile('C:/Users/Andre/Desktop/Senior Design/Acceleration Algorithm [4.0].py', wdir='C:/Users/Andre/Desktop/Senior Design')

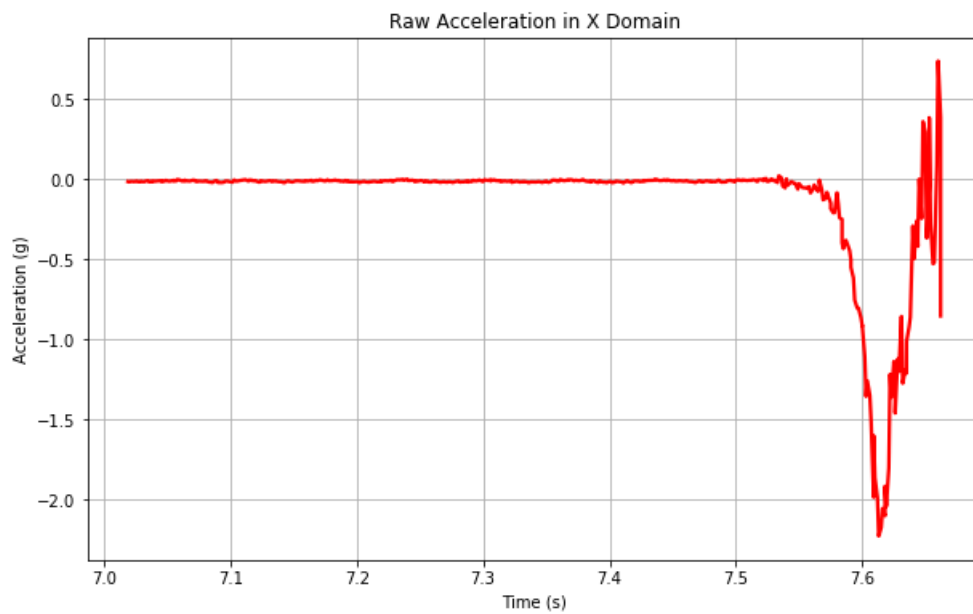
*** FILE METRICS ***

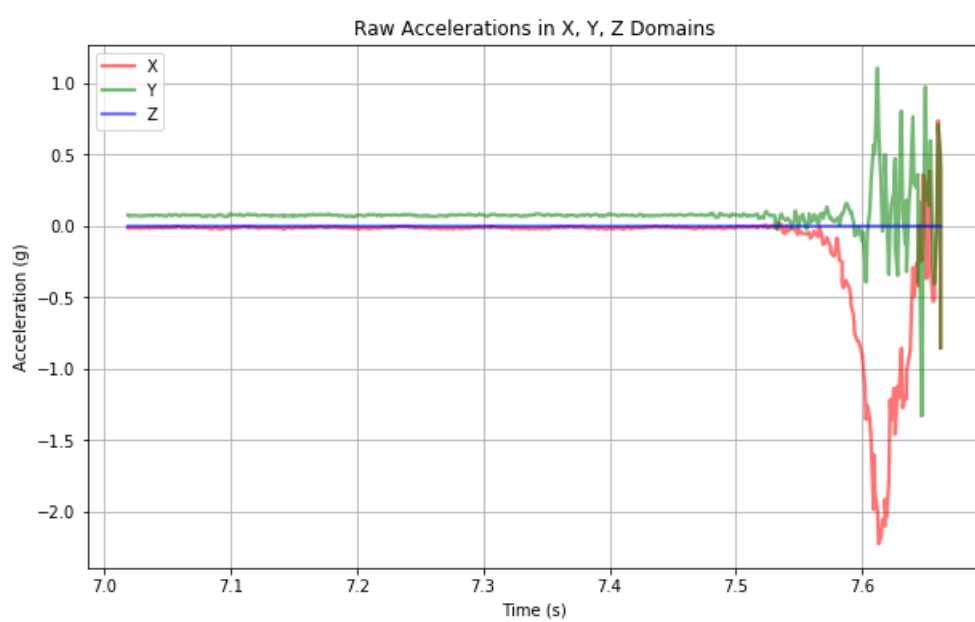
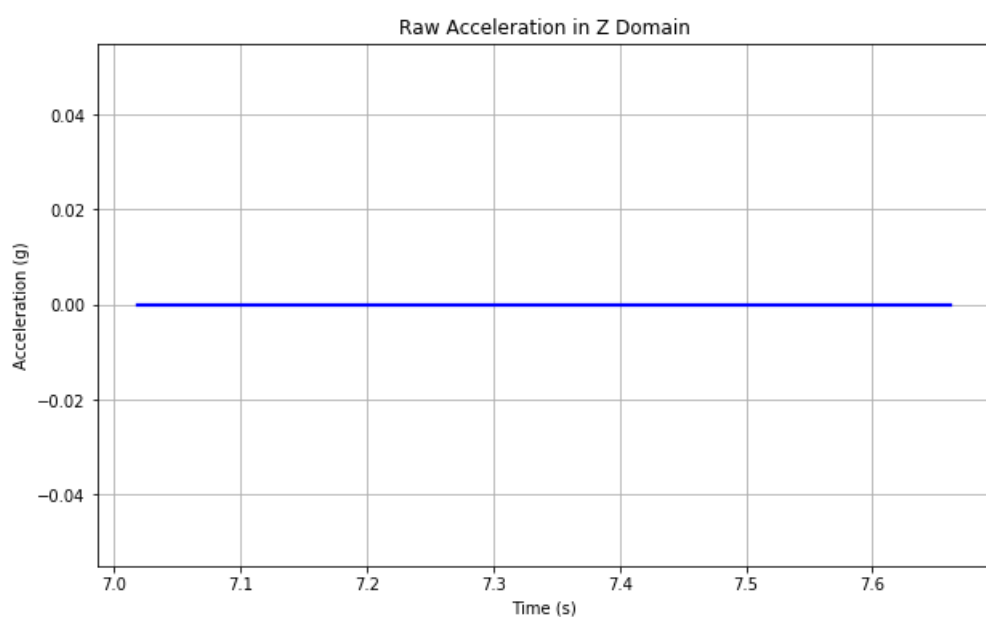
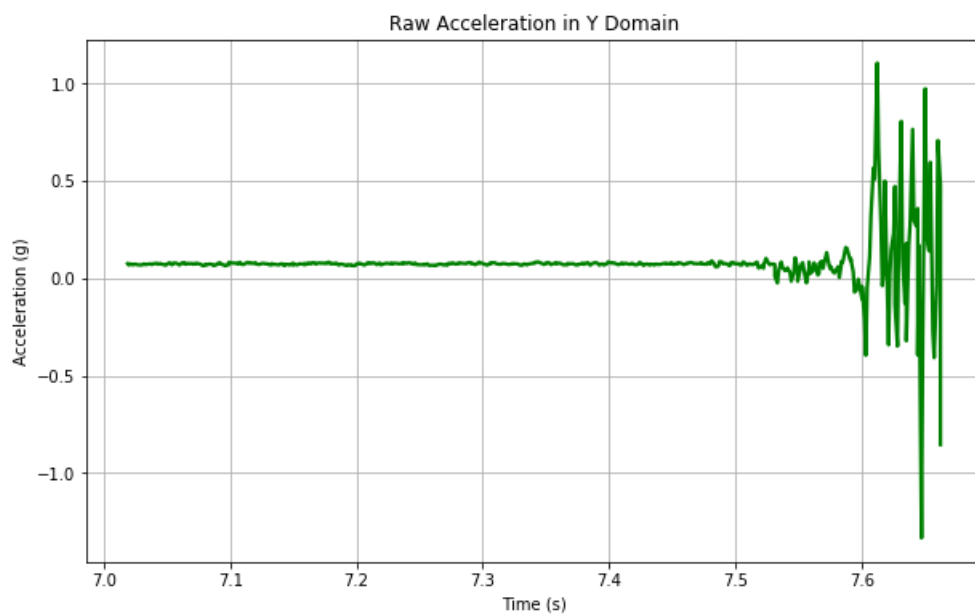
Semester 2 -X Test1 800Hz +- 4Gs Jan 29 2019 (Edited Feb 2 2019).csv is being analyzed

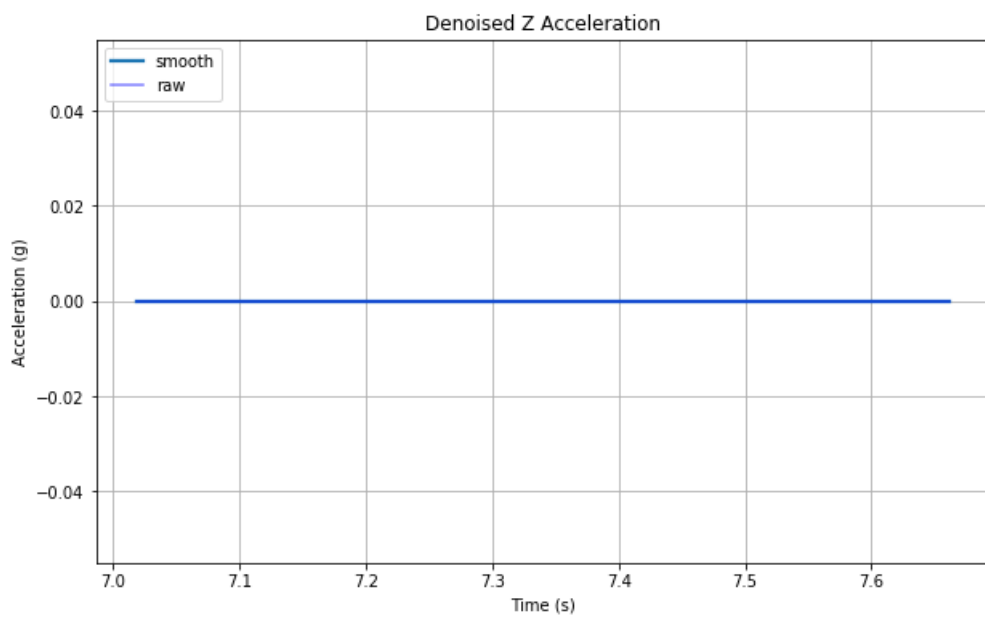
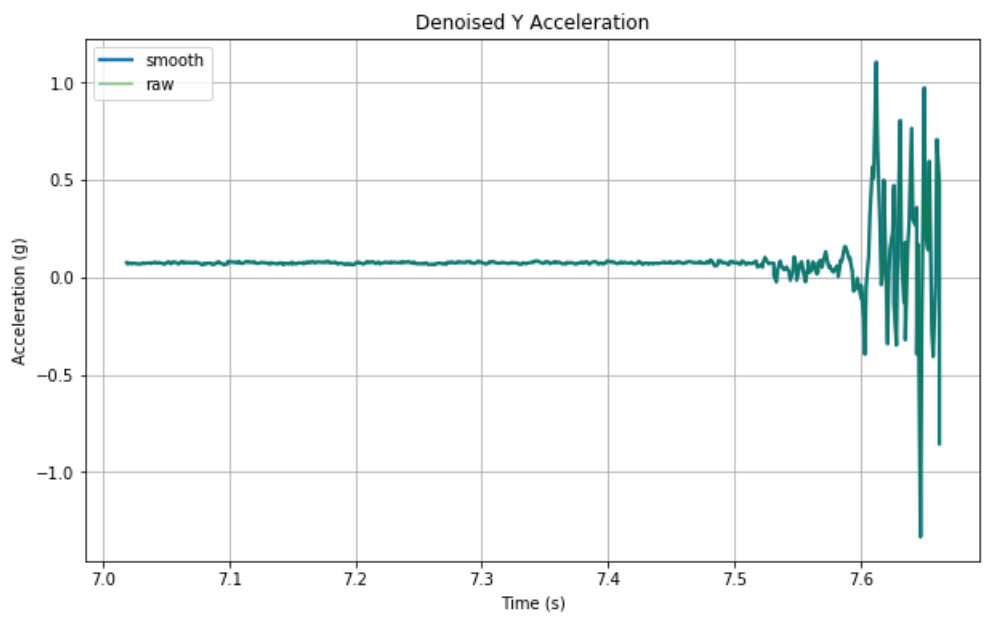
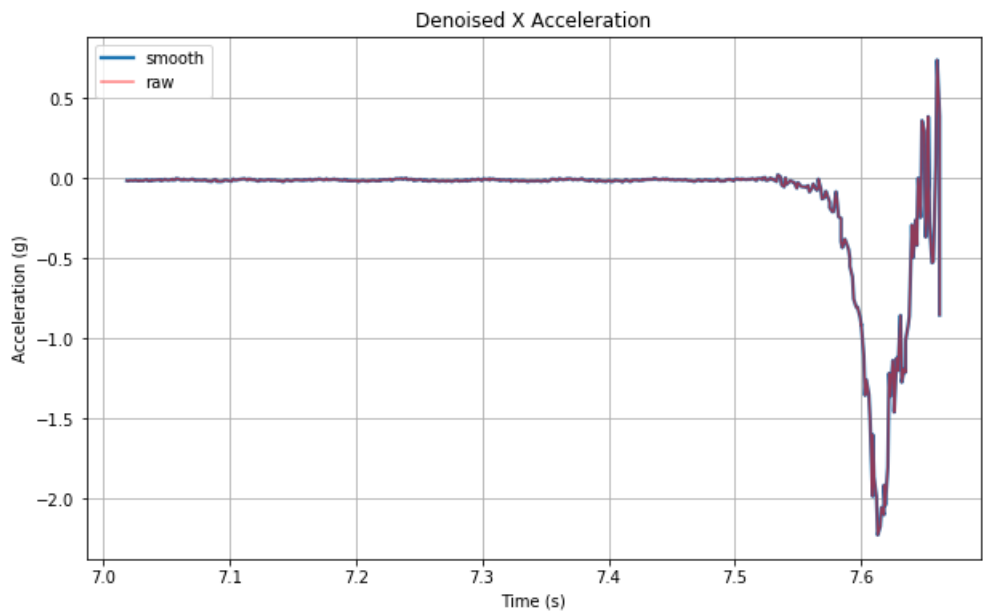
Data Size: 0.03 MB

Samples: 515

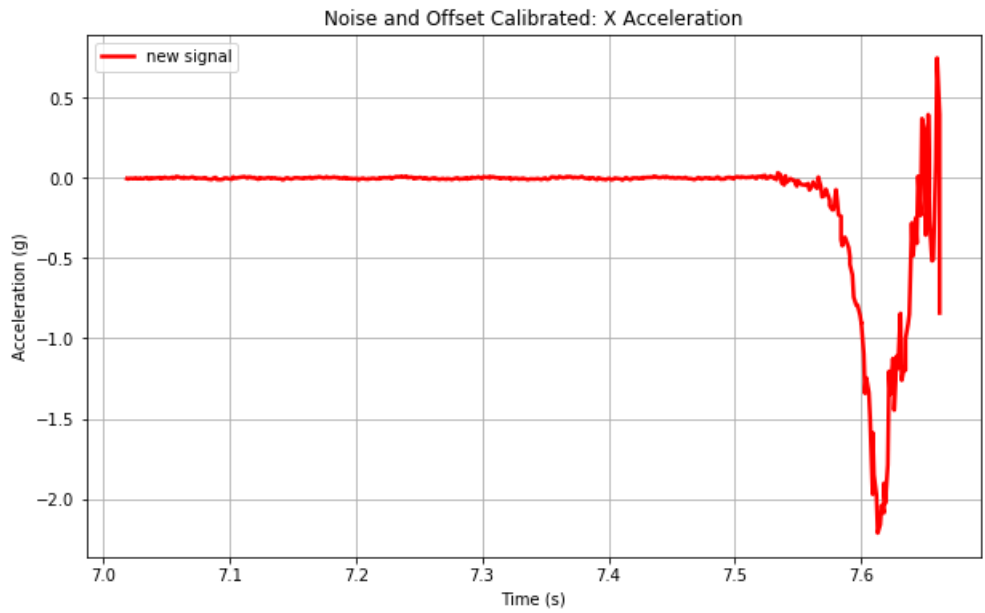
Time elapsed: 7.662000000000001 s



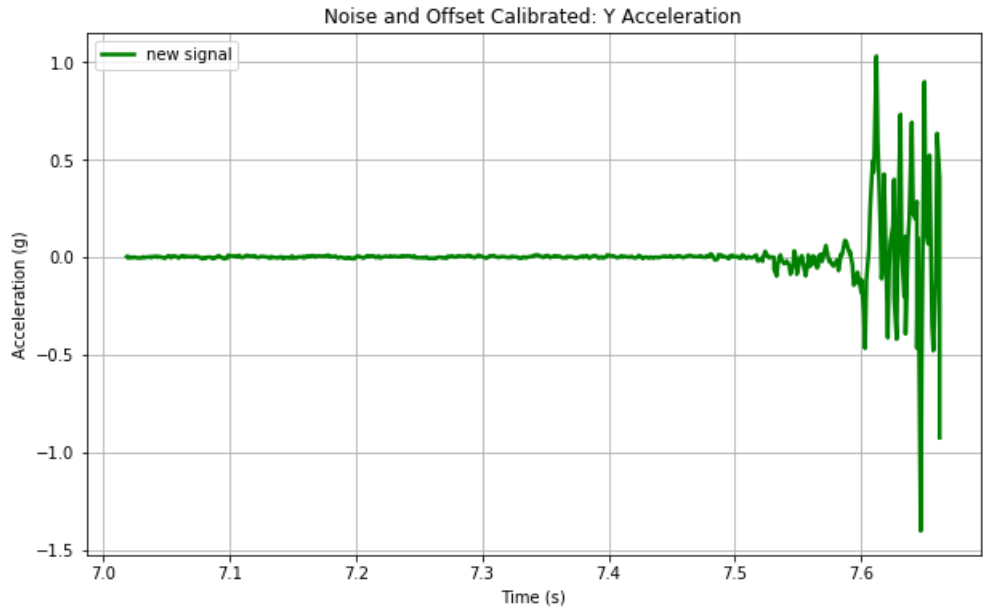




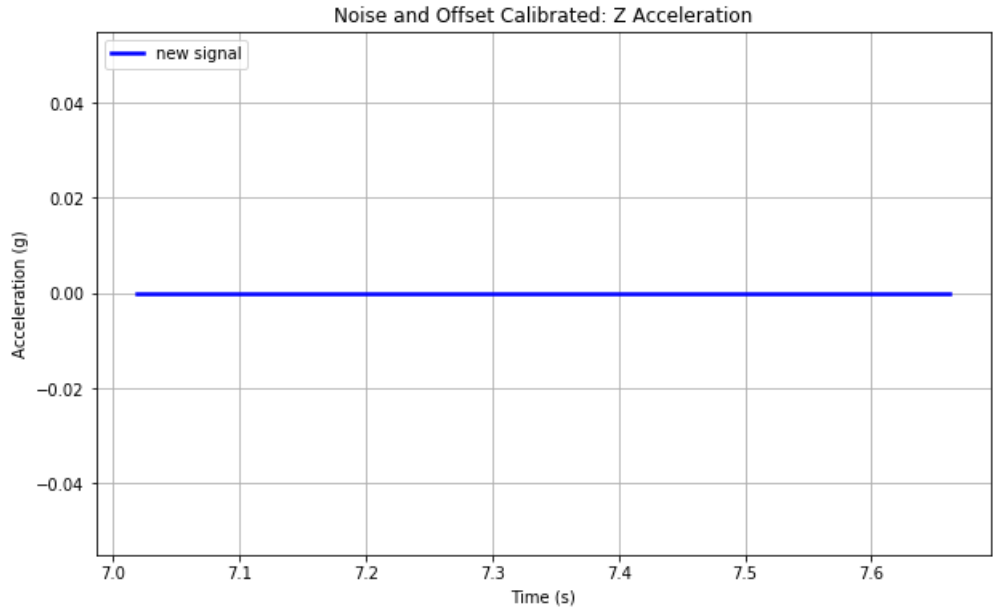
Offset first 200 samples X: %.4f -0.014110000000000003
Offset first 200 samples Y: %.4f 0.07224
Offset first 200 samples Z: %.4f 1.0



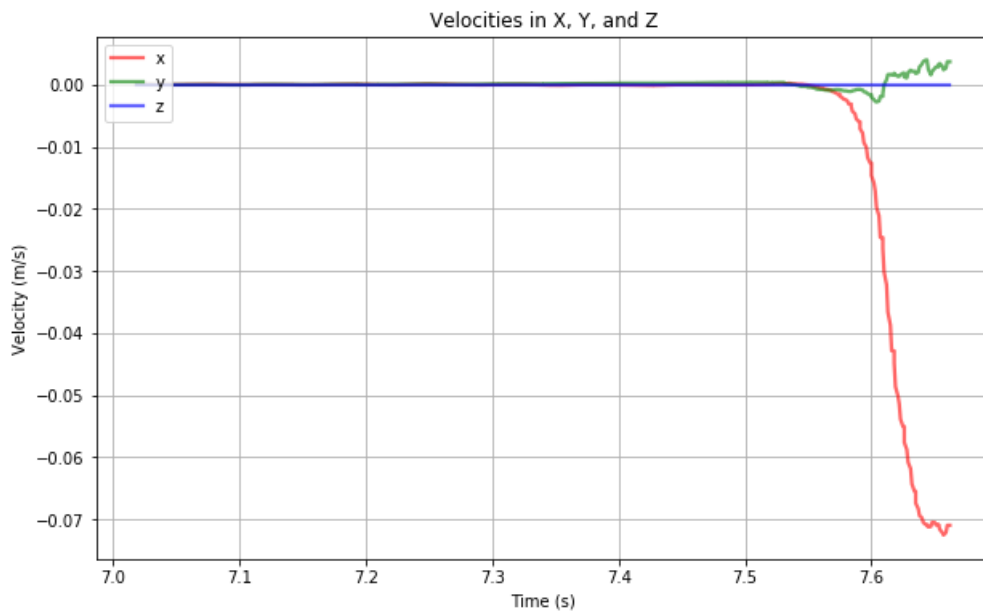
Updated Offset first 200 samples: -0.0003199999999999976



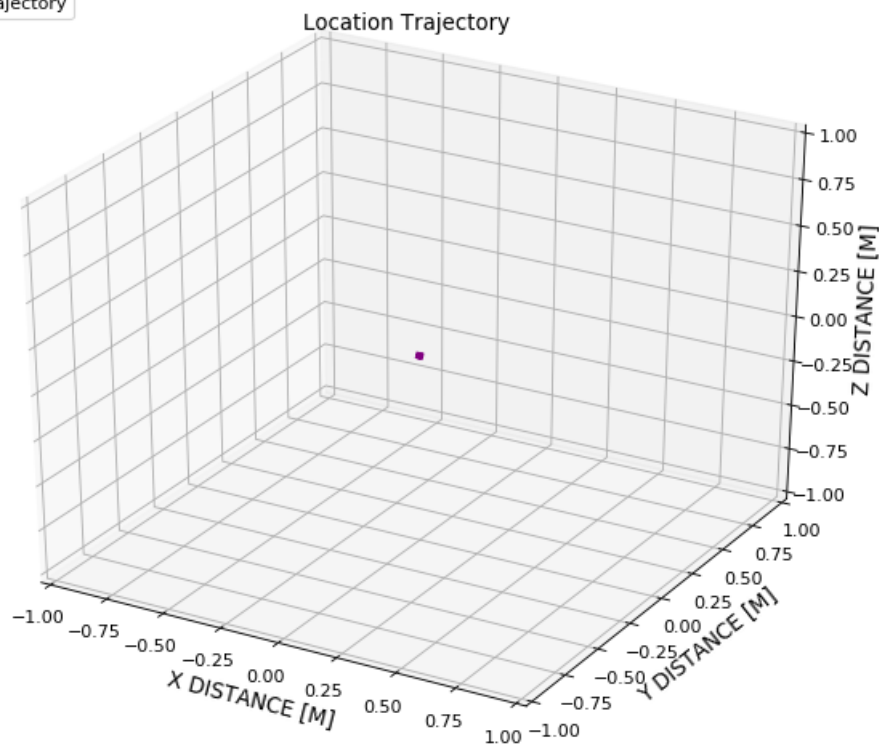
Updated Offset first 200 samples: -9.99999999997094e-06



Updated Offset first 200 samples: 0.0



Trajectory



In [22]: `runfile('C:/Users/Andre/Desktop/Senior Design/Acceleration Algorithm [4.0].py', wdir='C:/Users/Andre/Desktop/Senior Design')`

*** FILE METRICS ***

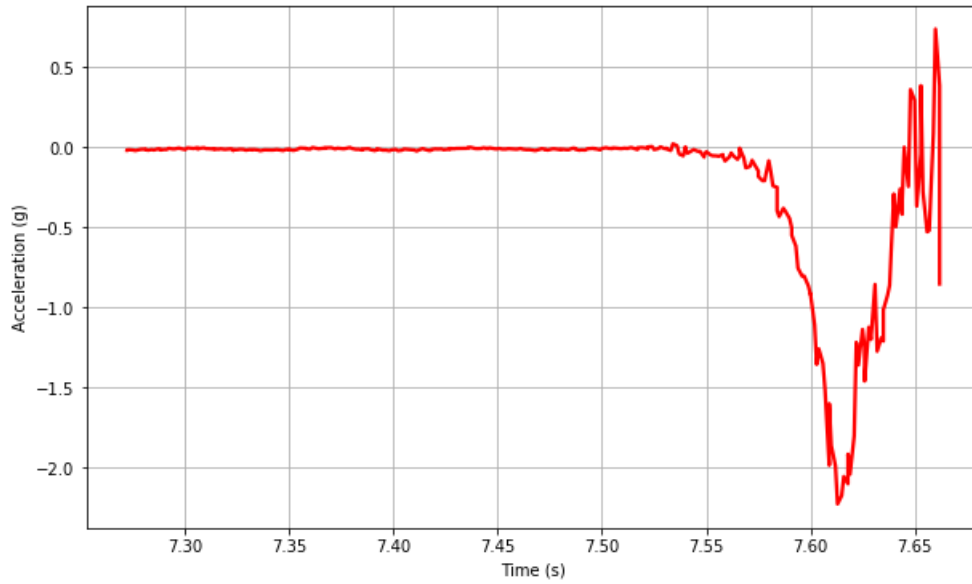
Semester 2 -X Test1 800Hz +- 4Gs Jan 29 2019 (Edited Feb 2 2019).csv is being analyzed

Data Size: 0.02 MB

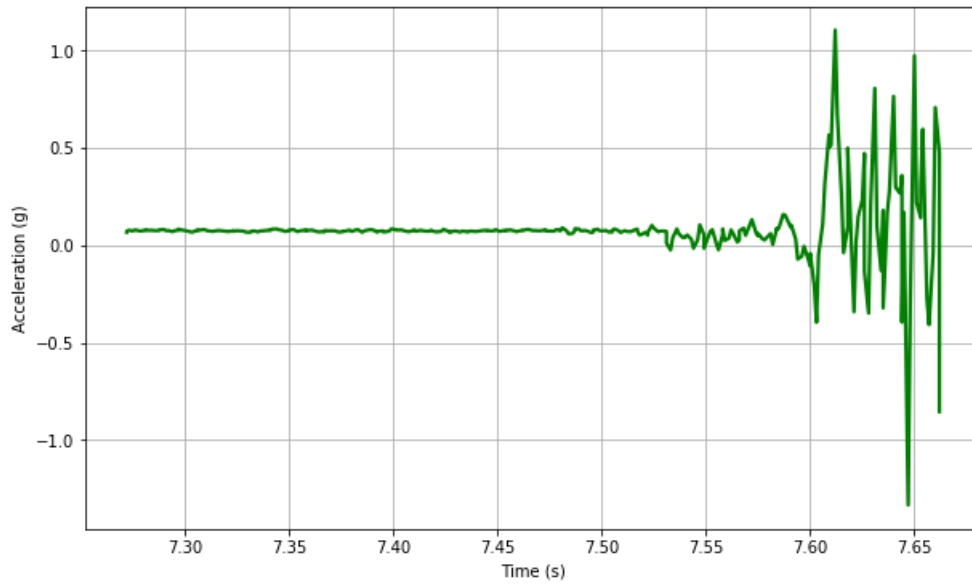
Samples: 313

Time elapsed: 7.662000000000001 s

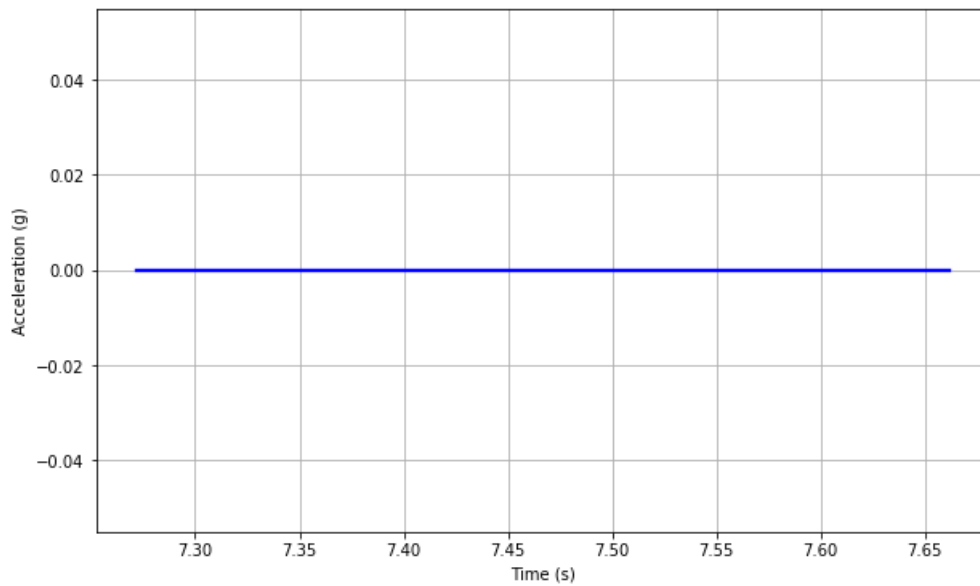
Raw Acceleration in X Domain



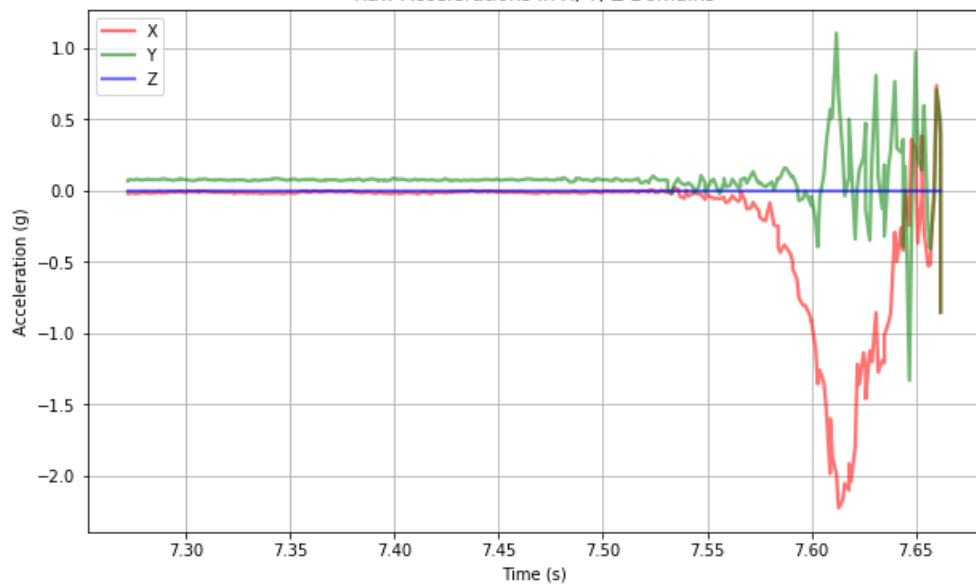
Raw Acceleration in Y Domain



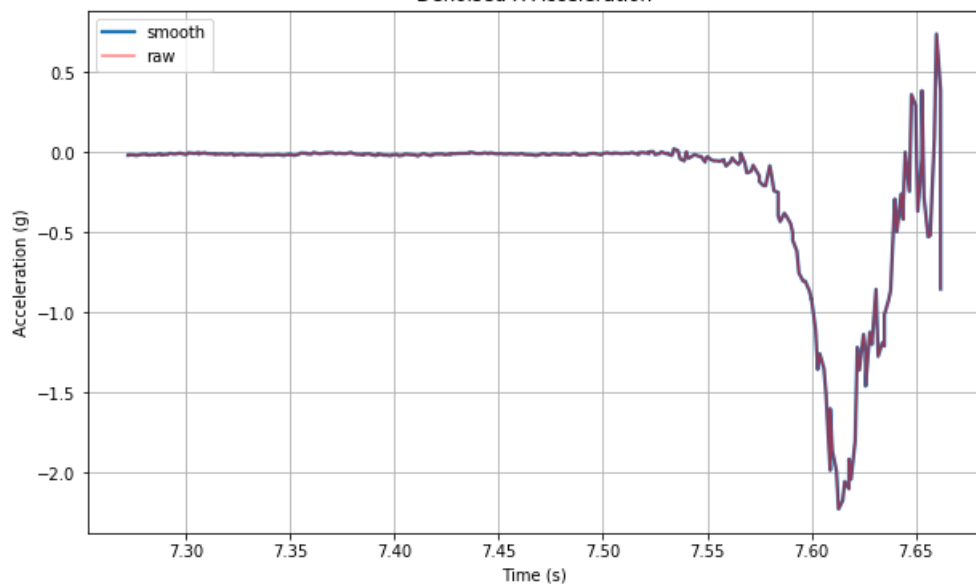
Raw Acceleration in Z Domain



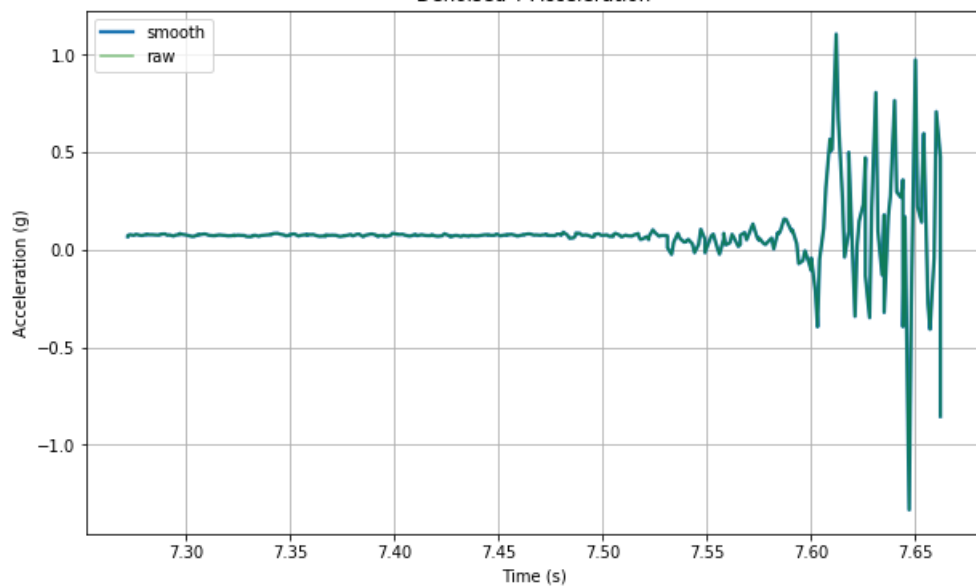
Raw Accelerations in X, Y, Z Domains

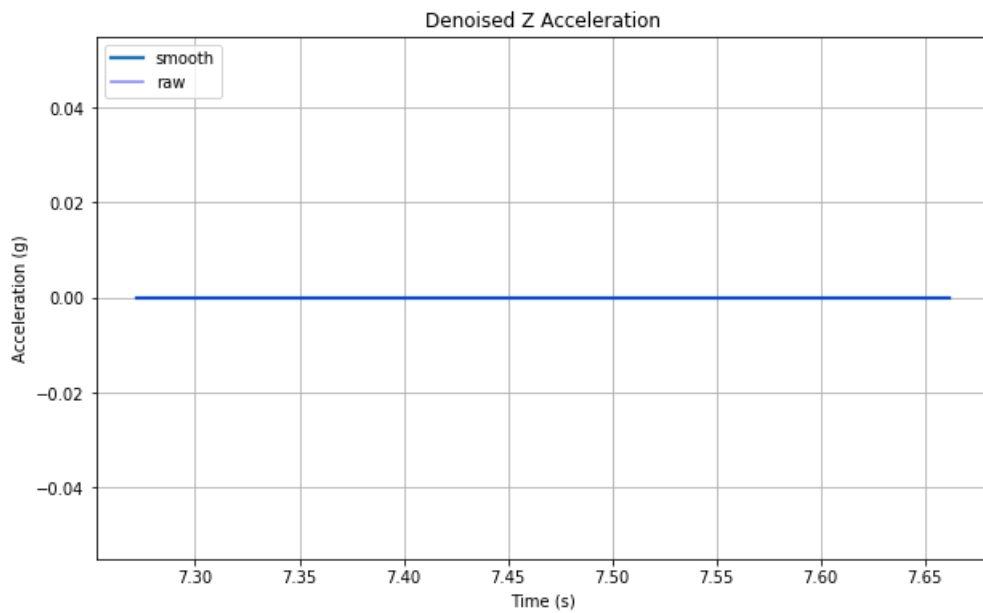


Denoised X Acceleration

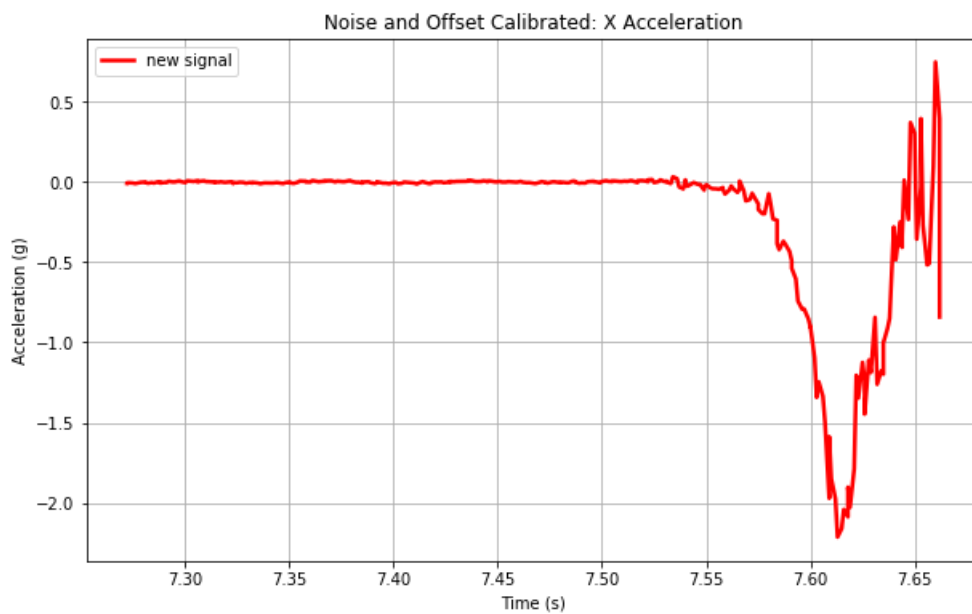


Denoised Y Acceleration

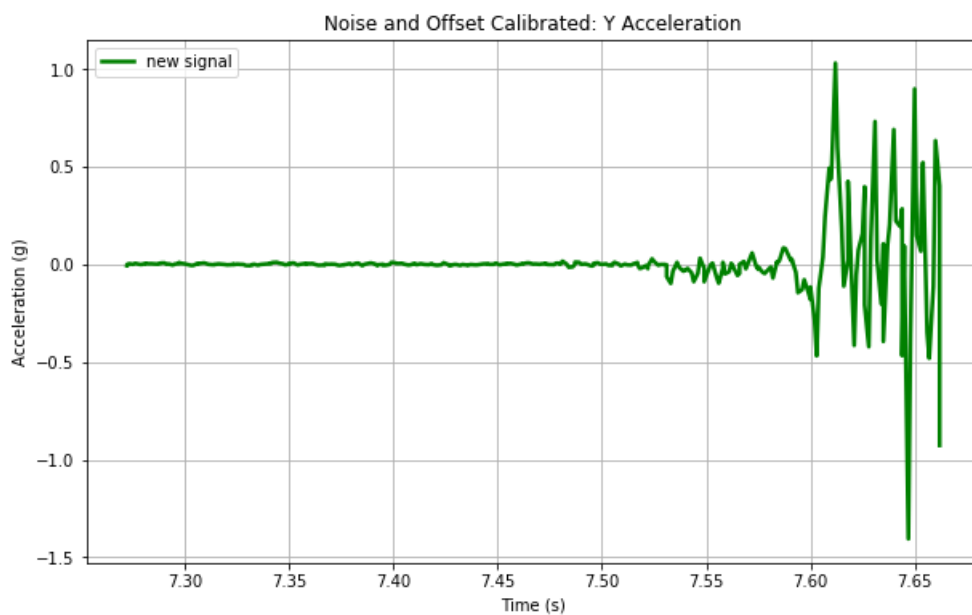




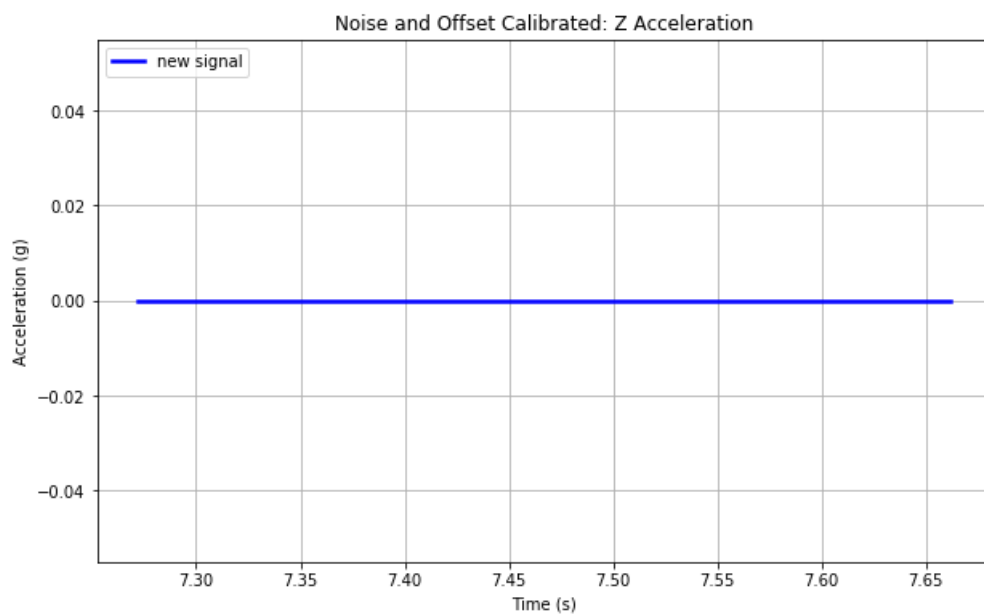
Offset first 200 samples X: %.4f -0.013925000000000003
Offset first 200 samples Y: %.4f 0.073375
Offset first 200 samples Z: %.4f 1.0



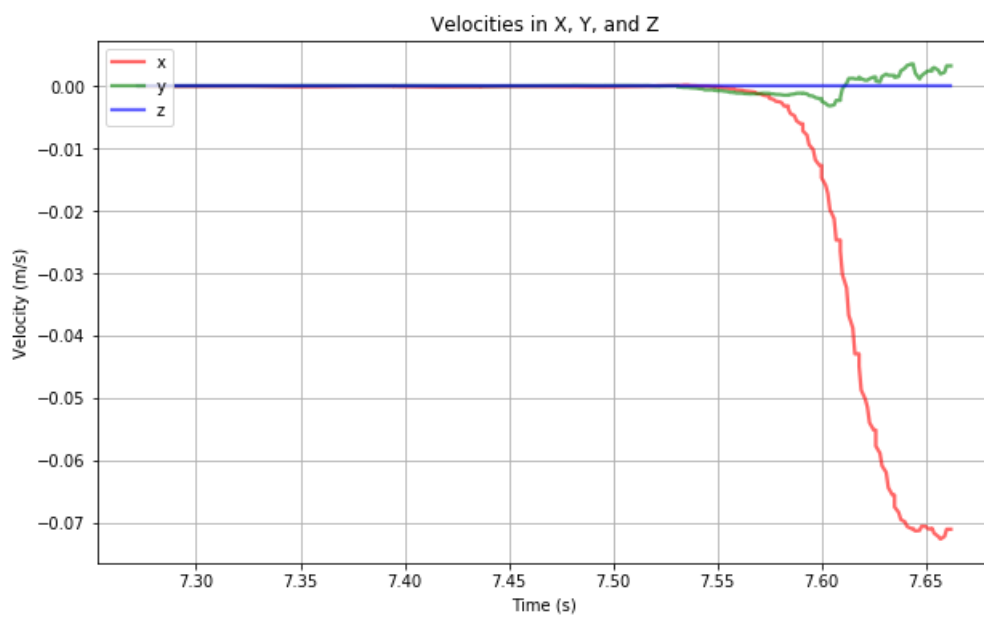
Updated Offset first 200 samples: -0.0005549999999999972



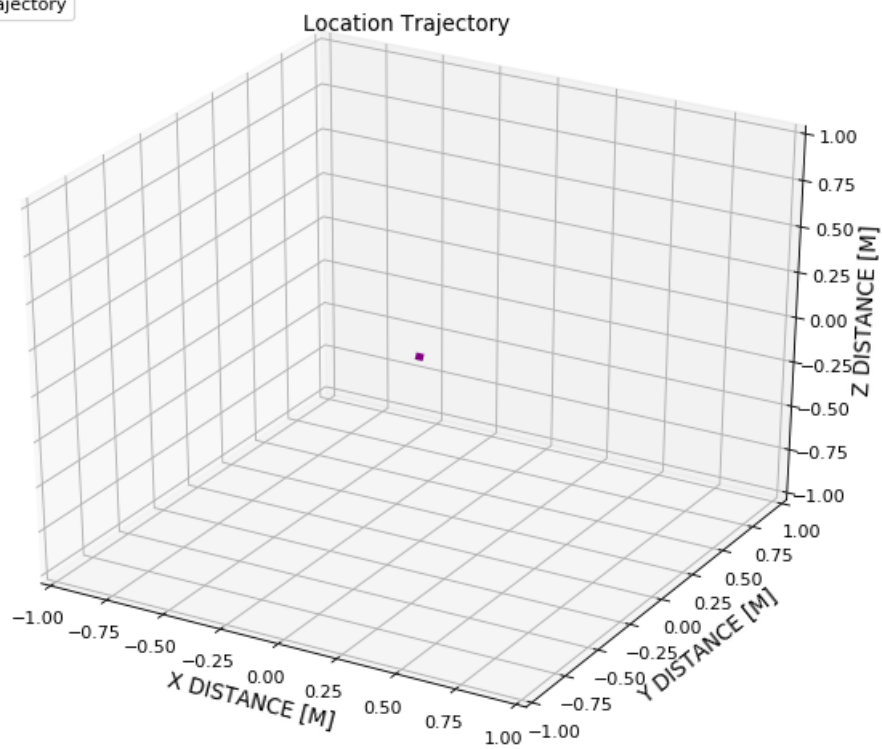
Updated Offset first 200 samples: 0.00024500000000000536



Updated Offset first 200 samples: 0.0



— Trajectory



In [23]: