Python 3.6.5 |Anaconda, Inc.| (default, Mar 29 2018, 13:14:23)
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IPython 6.4.0 -- An enhanced Interactive Python.

In [1]: runfile('/Users/andreunsal/Desktop/Algorithm [4.0].py', wdir='/Users/andreunsal/Desktop')
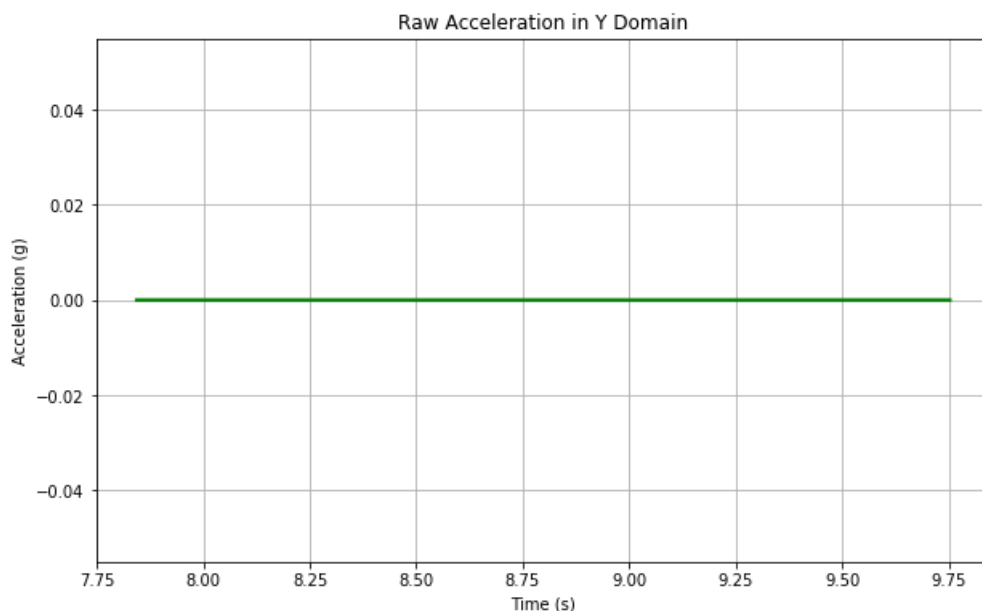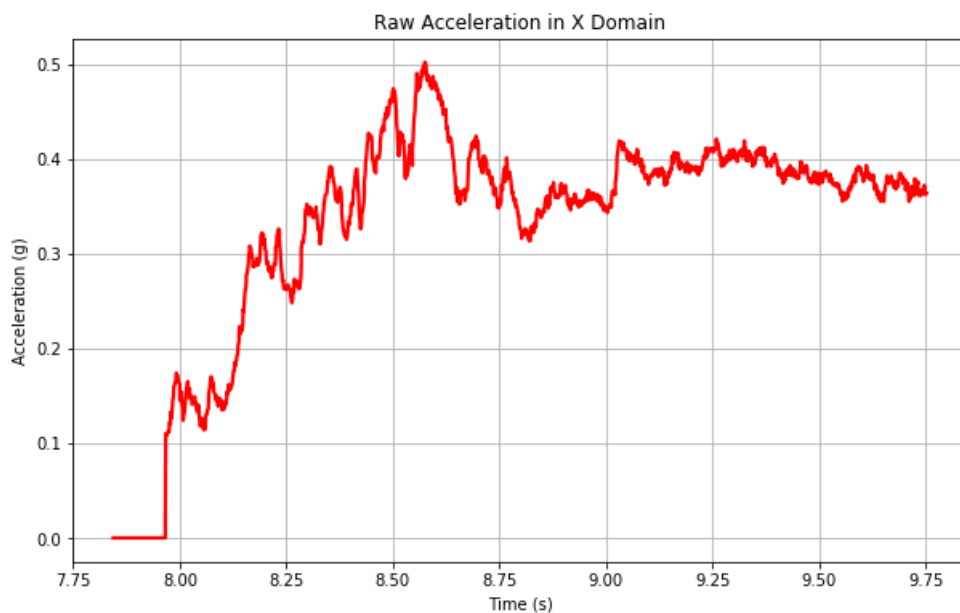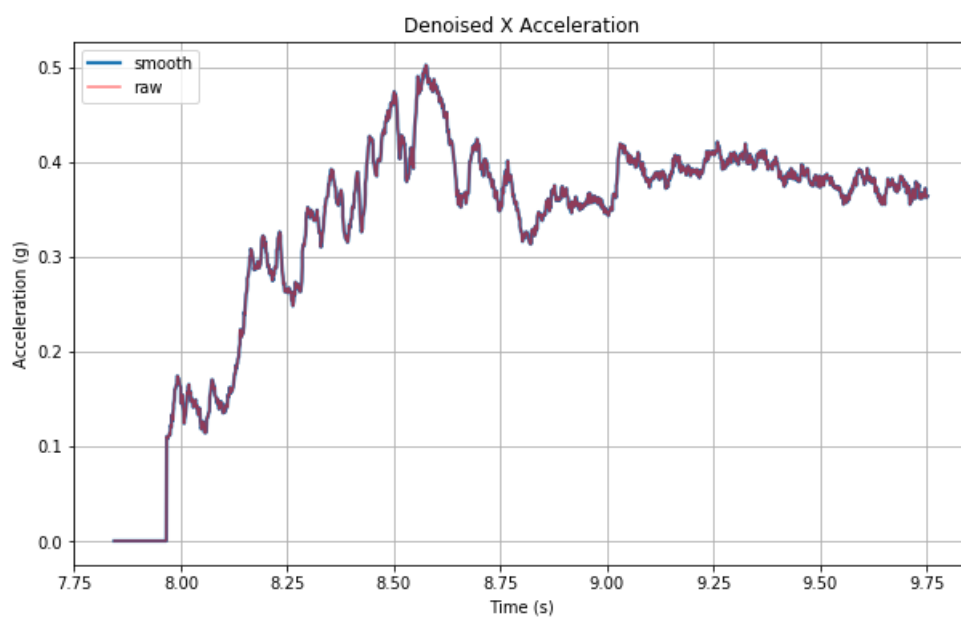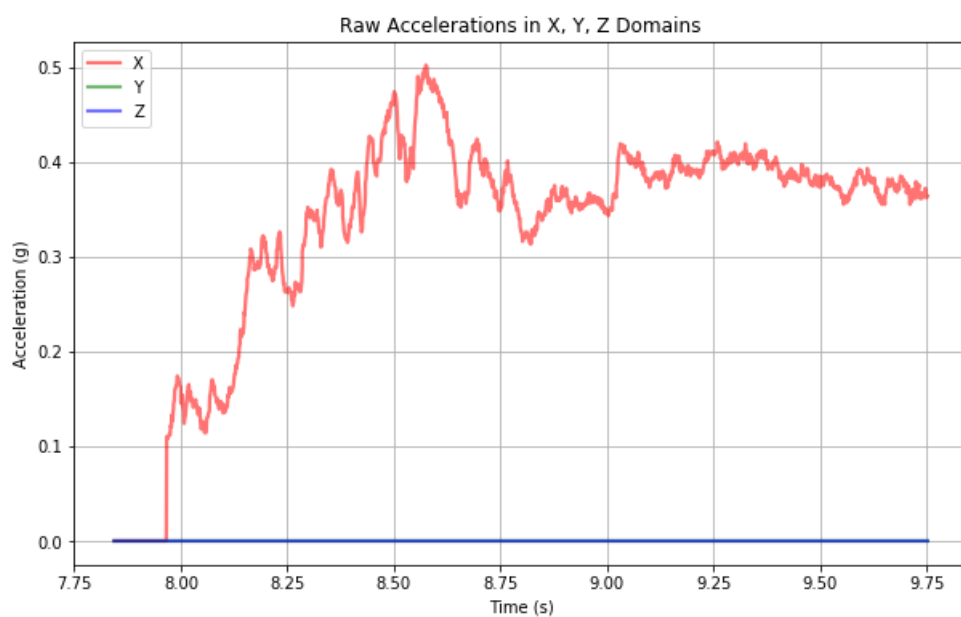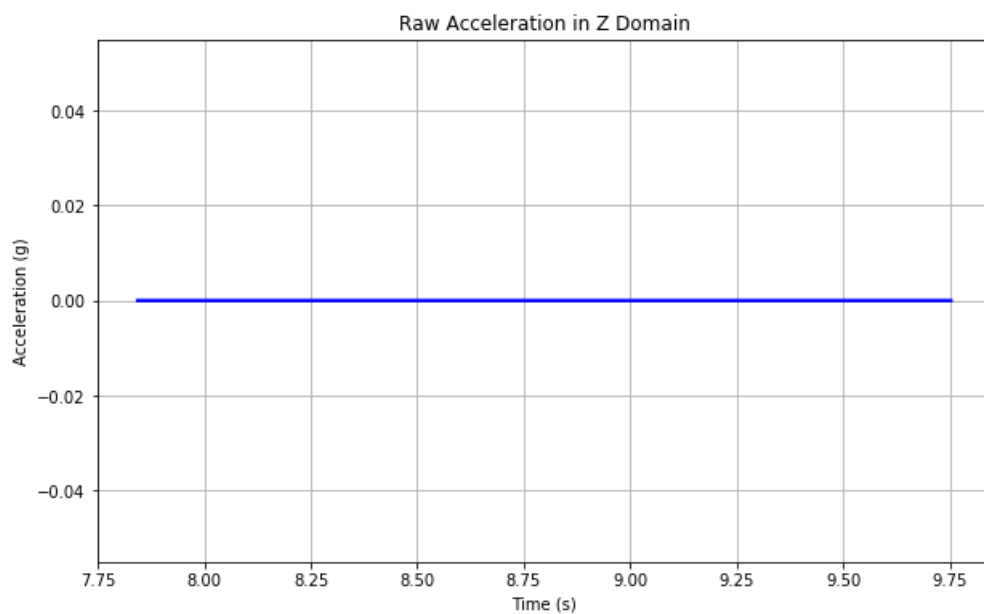
 *** FILE METRICS ***
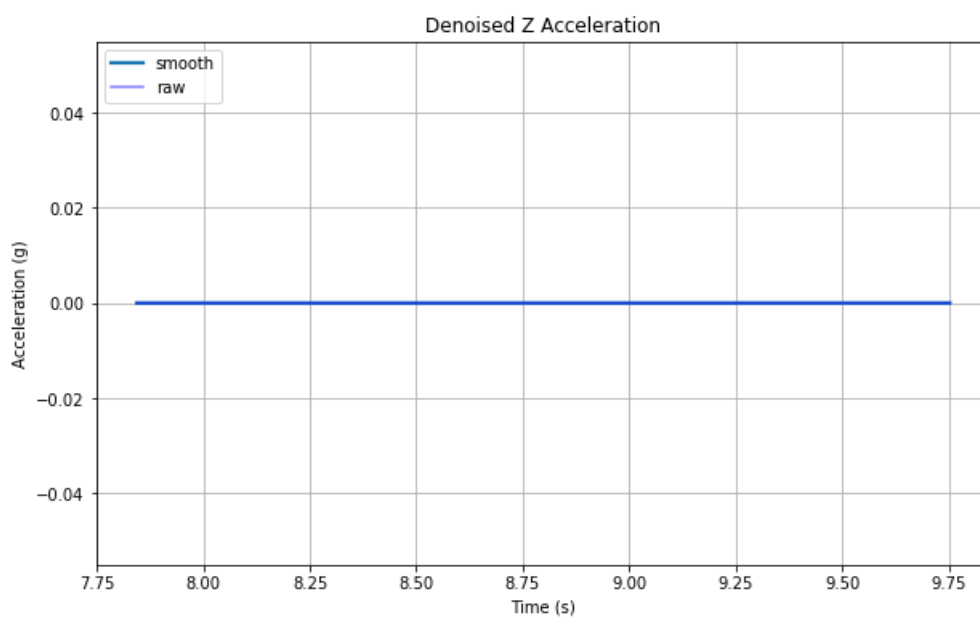Semester 2 +X Test 800Hz +- 2Gs Feb 5 2019 (Sliced).csv is being analyzed
Data Size: 0.08 MB
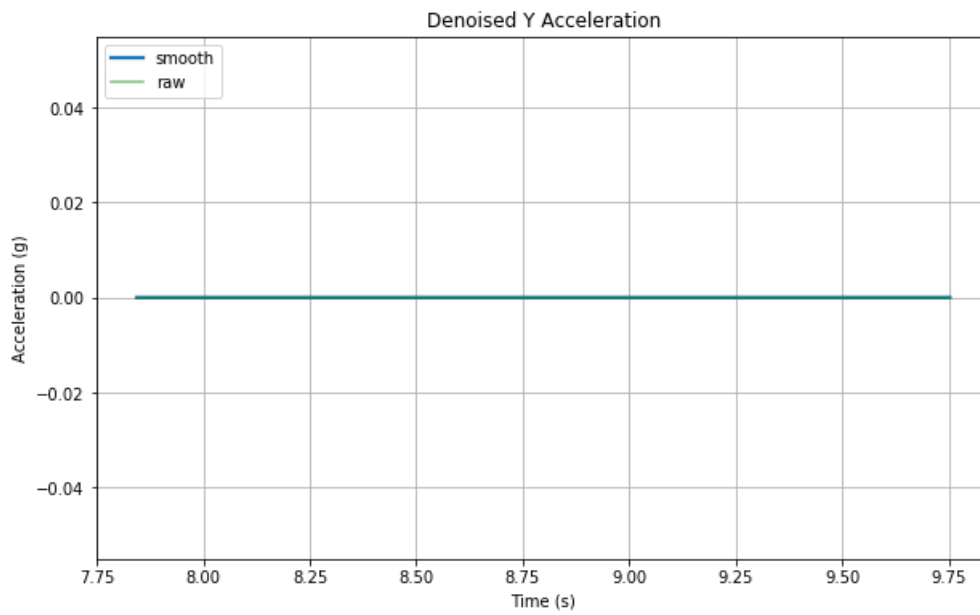Samples: 1521
Time elapsed: 9.752 s

Raw Acceleration in Z Domain

Raw Accelerations in X, Y, Z Domains

Denoised X Acceleration

Denoised Y Acceleration
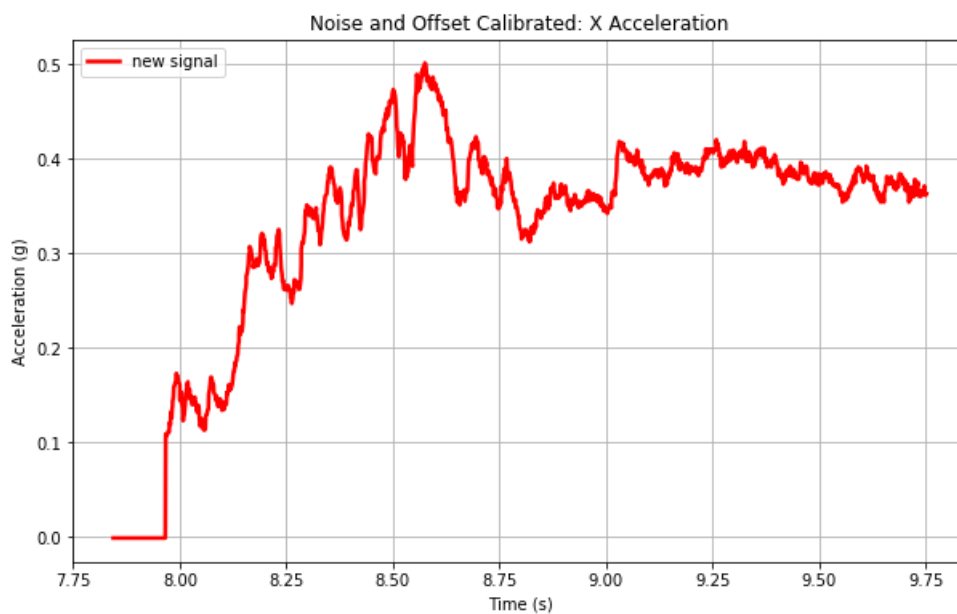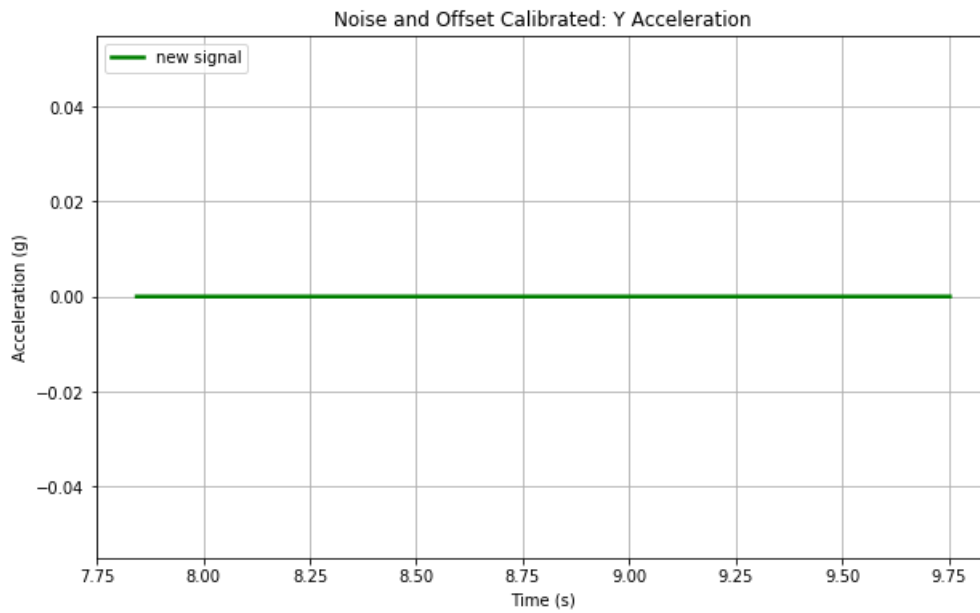

Denoised Z Acceleration

Offset first 200 samples X: %.4f 0.0011
Offset first 200 samples Y: %.4f 0.0
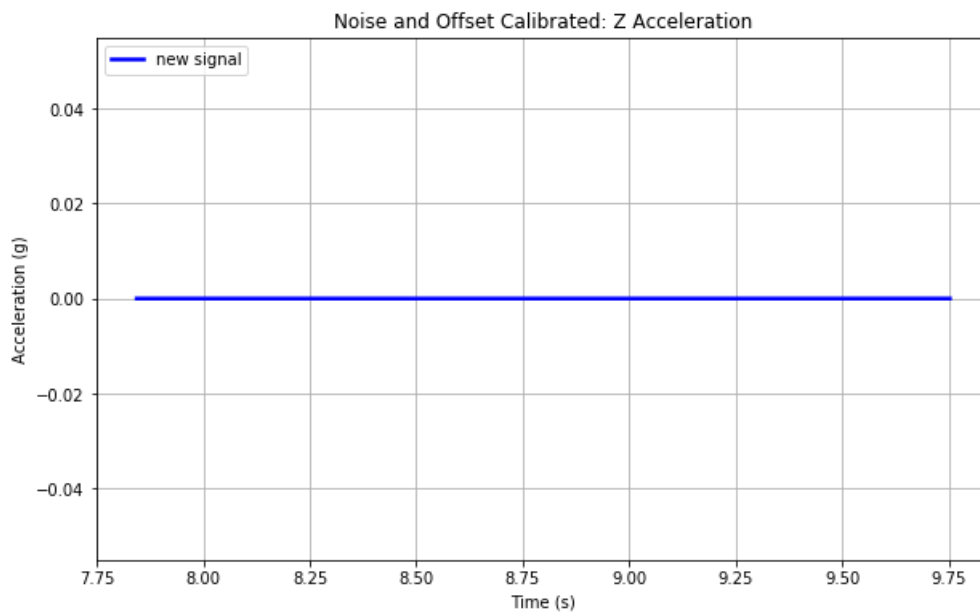Offset first 200 samples Z: %.4f 1.0

Noise and Offset Calibrated: X Acceleration

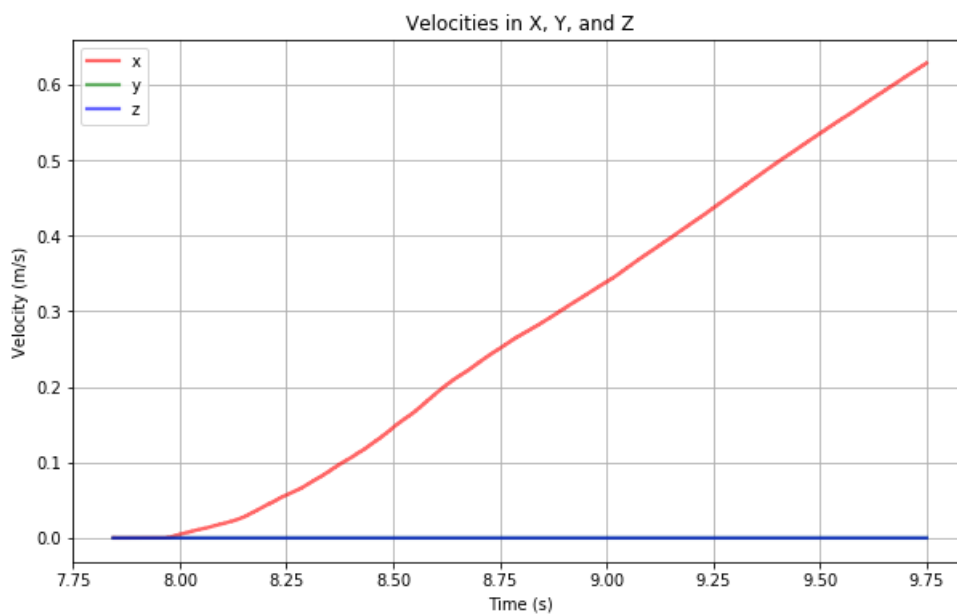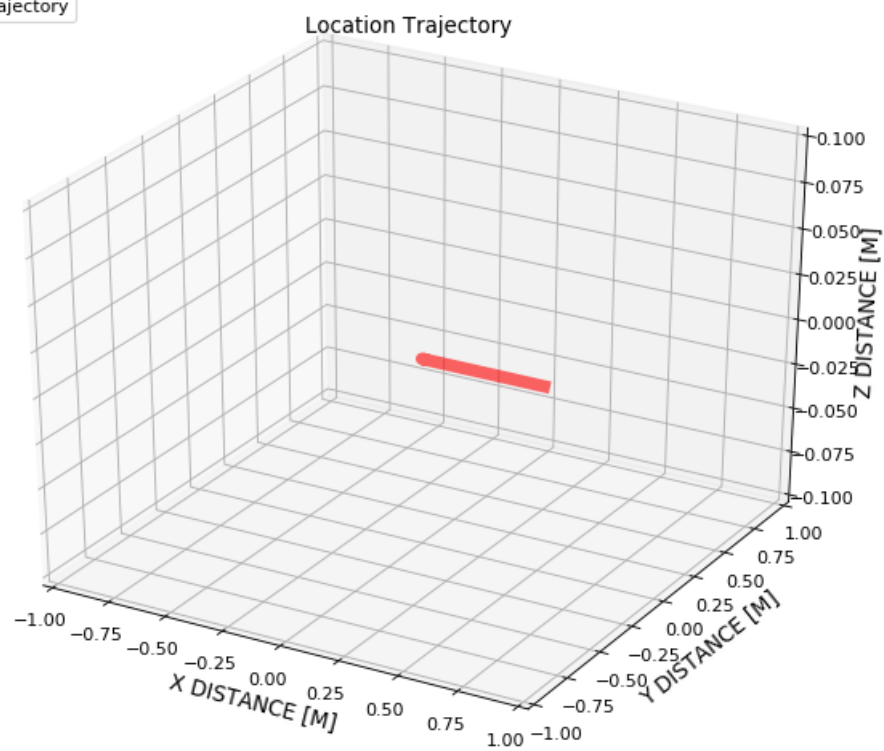Updated Offset first 200 samples: -2.7755575615628914e-19

Updated Offset first 200 samples: 0.0

Updated Offset first 200 samples: 0.0

Location Trajectory