Python 3.7.0 (default, Jun 28 2018, 08:04:48) [MSC v.1912 64 bit (AMD64)]
Type "copyright", "credits" or "license" for more information.

IPython 6.5.0 -- An enhanced Interactive Python.
C:\Users\Andre\Anaconda3\lib\site-packages\ipykernel\parentpoller.py:116: UserWarning: Parent poll failed. If the frontend dies,
        the kernel may be left running. Please let us know
        about your system (bitness, Python, etc.) at
        ipython-dev@scipy.org
  ipython-dev@scipy.org""")

In [1]: runfile('C:/Users/Andre/Desktop/Senior Design/Feb 7 2019 Data/Acceleration Algorithm [4.0].py', wdir='C:/Users/Andre/Desktop/Senior Design/Feb 7 2019 Data')
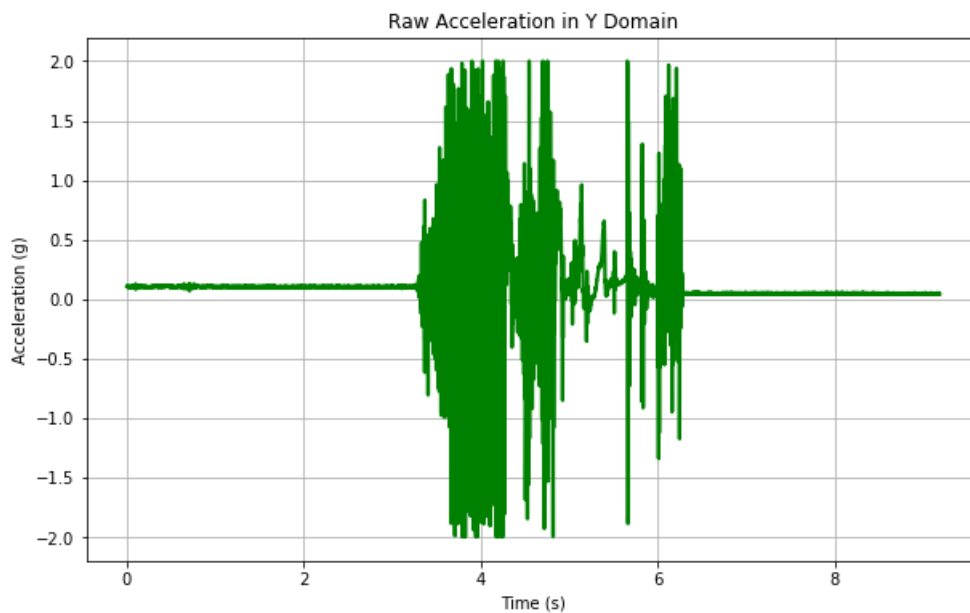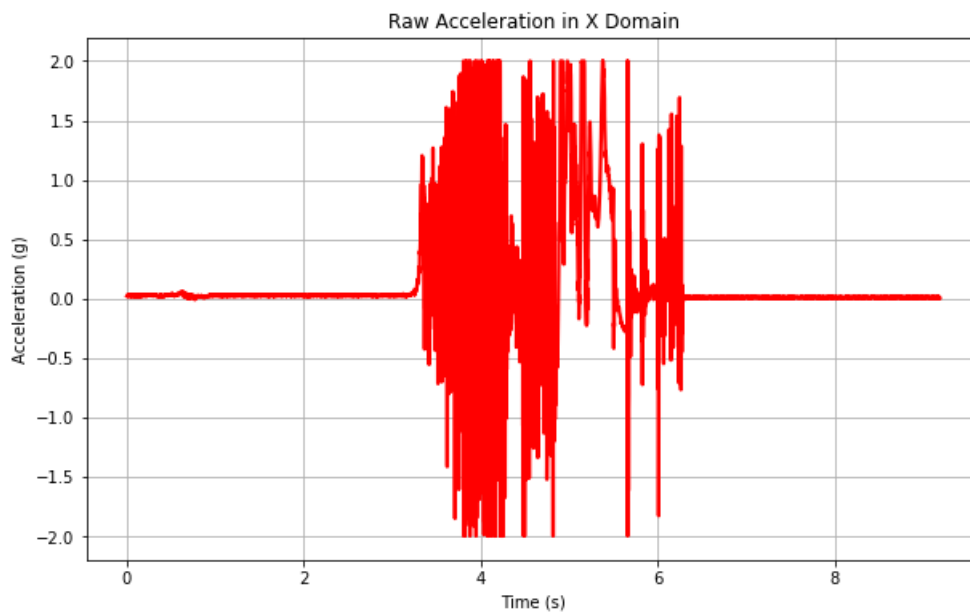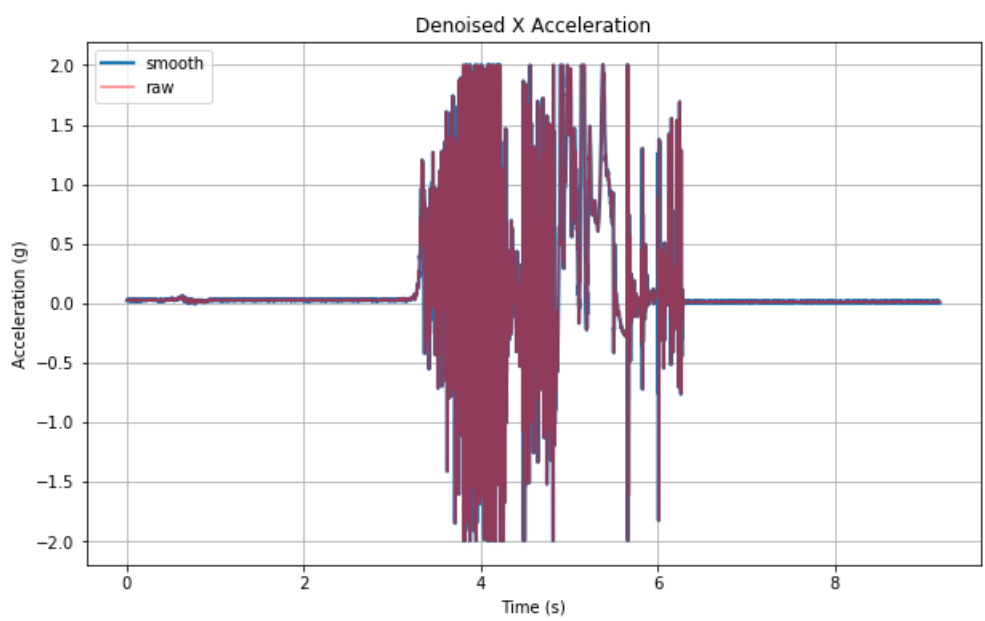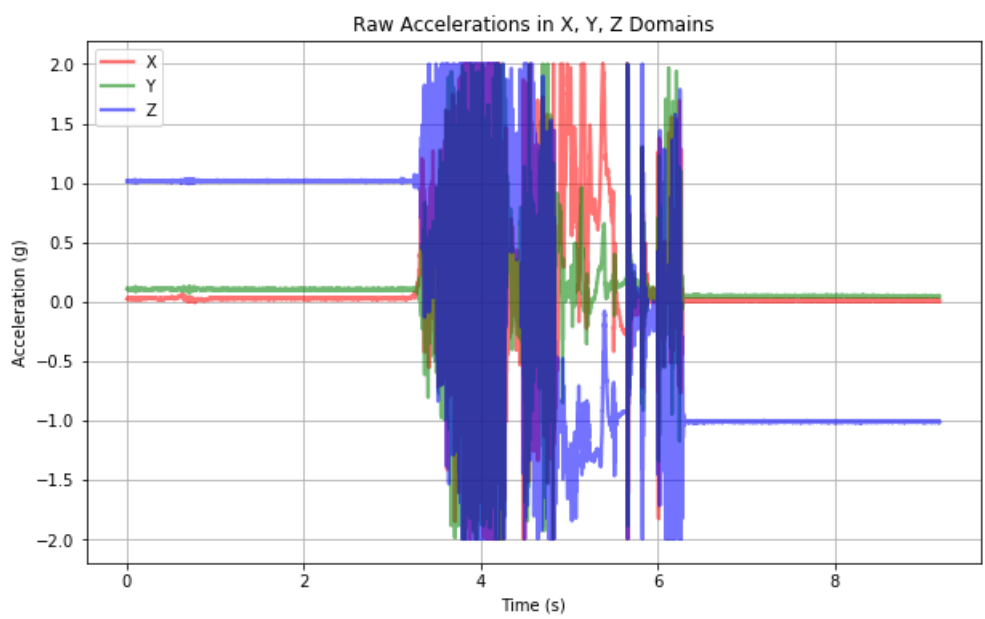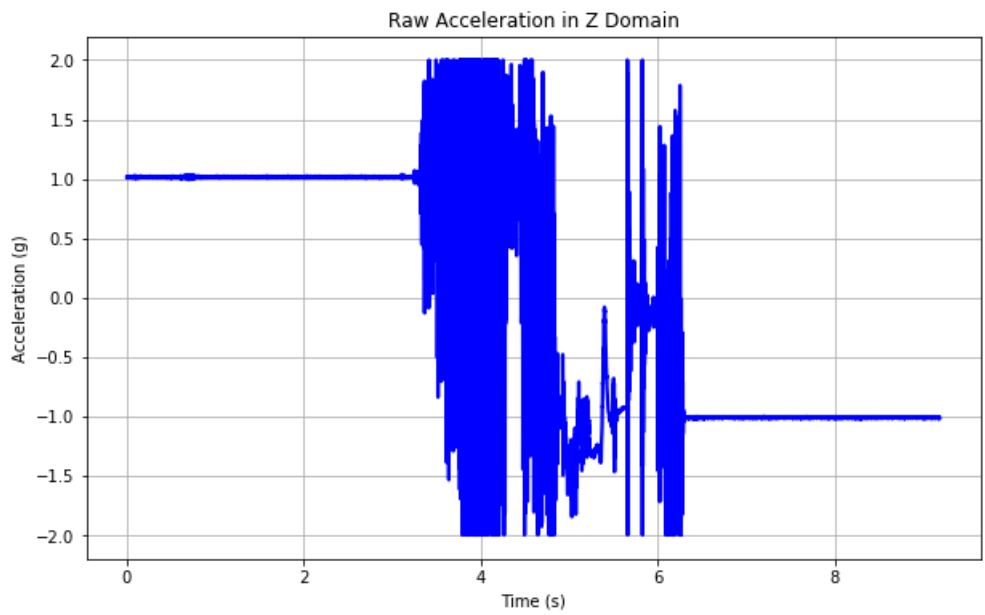
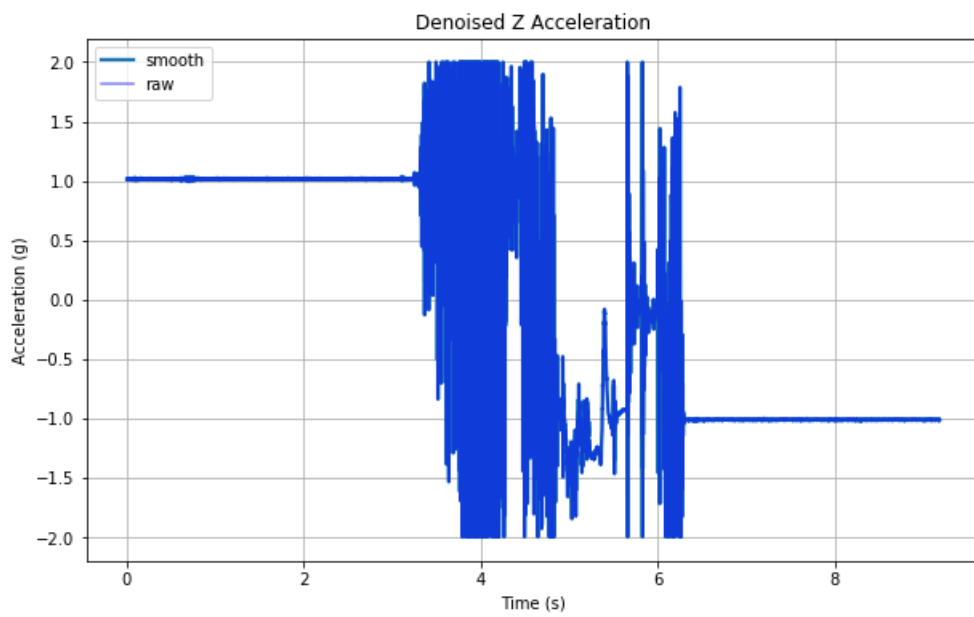 *** FILE METRICS ***
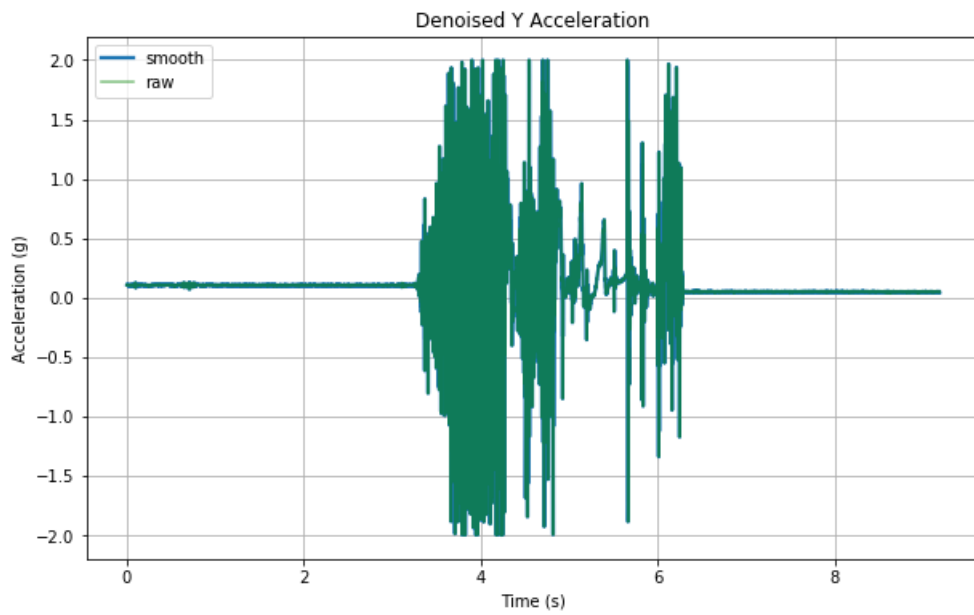Semester 2 +X Test1 50g mass 800Hz Feb 7 2019.csv is being analyzed
Data Size: 0.46 MB
Samples: 7319
Time elapsed: 9.181 s

Raw Acceleration in Z Domain

Raw Accelerations in X, Y, Z Domains

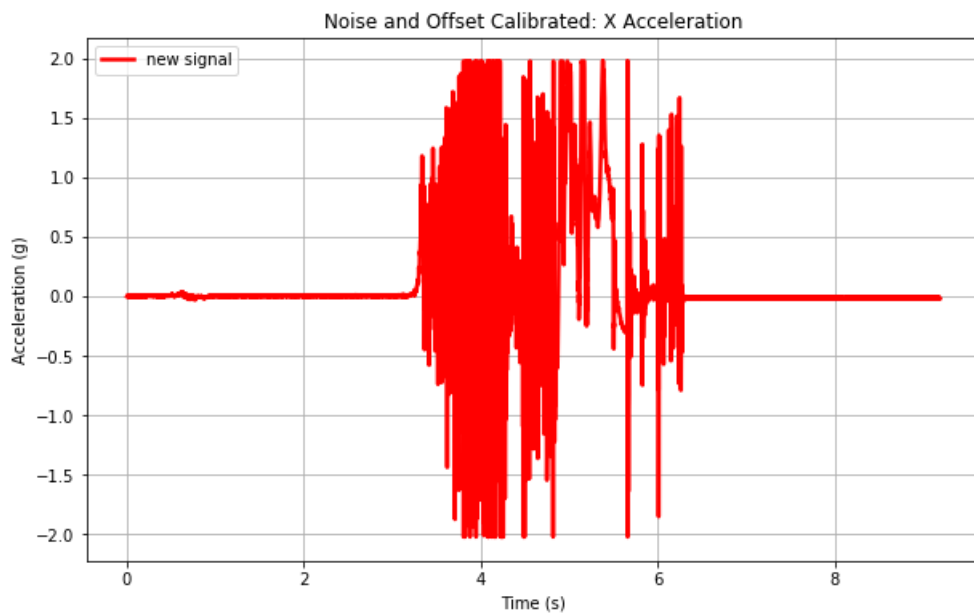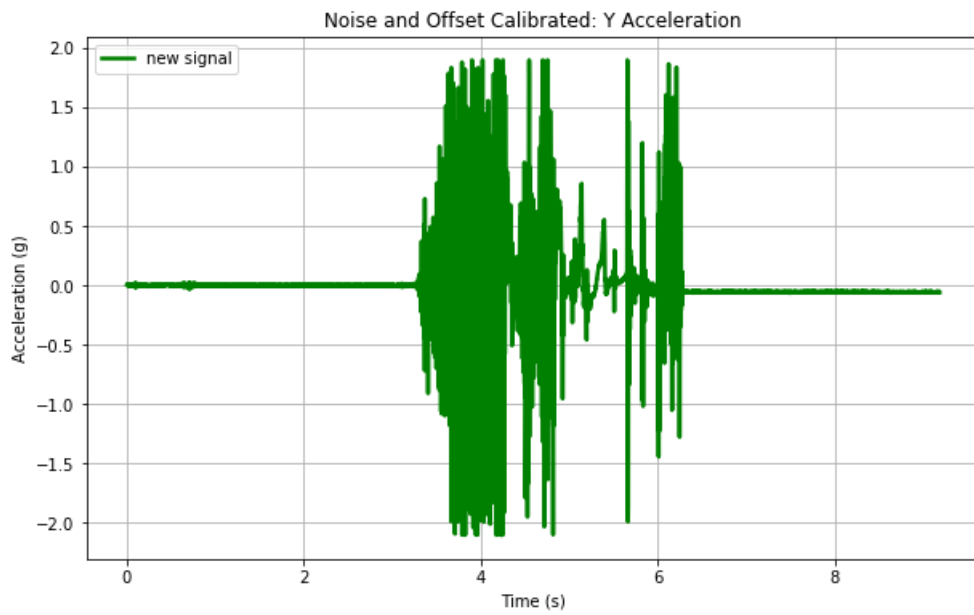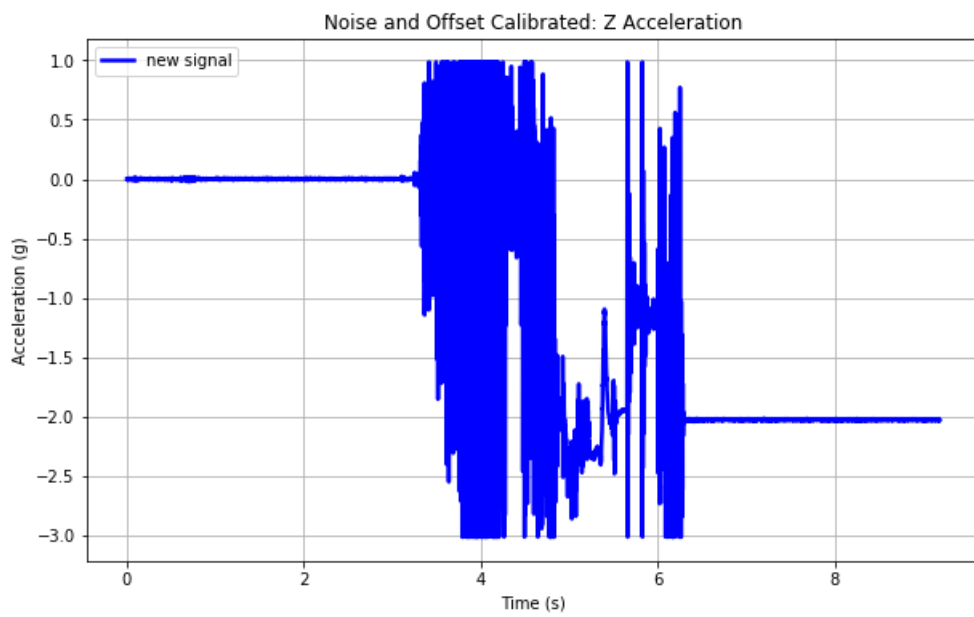**Denoised X Acceleration**

Denoised Y Acceleration

Denoised Z Acceleration

Offset first 200 samples X: %.4f 0.02466
Offset first 200 samples Y: %.4f 0.10343
Offset first 200 samples Z: %.4f -0.014035

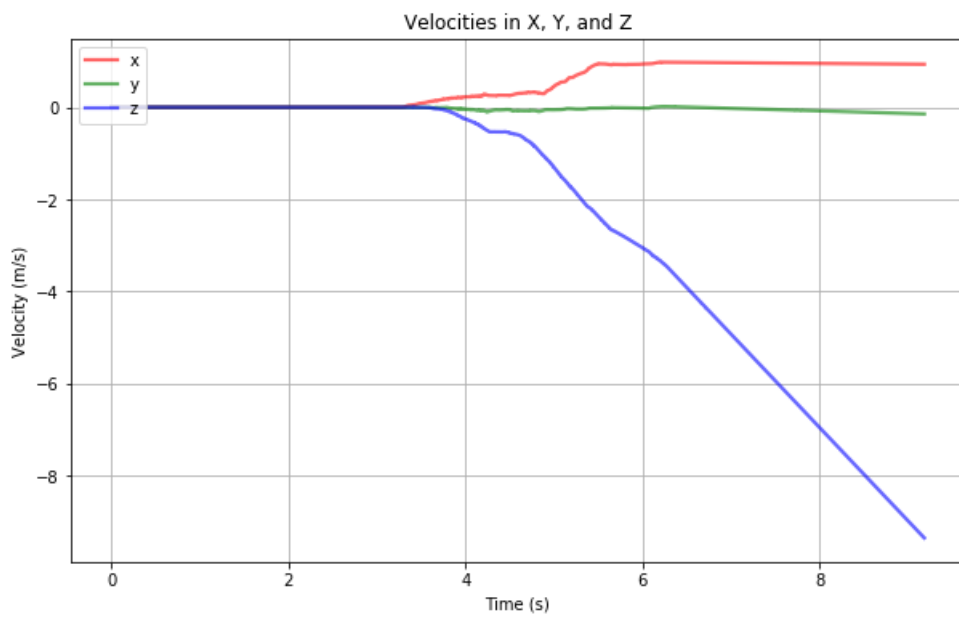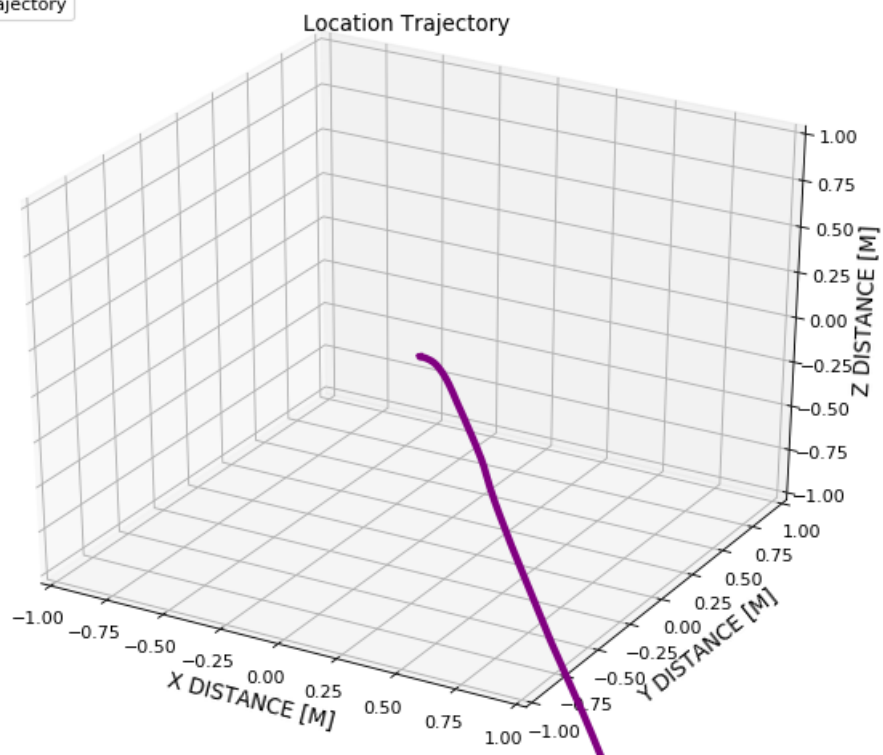## Noise and Offset Calibrated: X Acceleration

Updated Offset first 200 samples: -0.00021

Noise and Offset Calibrated: Y Acceleration

Updated Offset first 200 samples: -0.0001

Noise and Offset Calibrated: Z Acceleration

Updated Offset first 200 samples: -0.000115

Velocities in X, Y, and Z

Location Trajectory

In [2]: