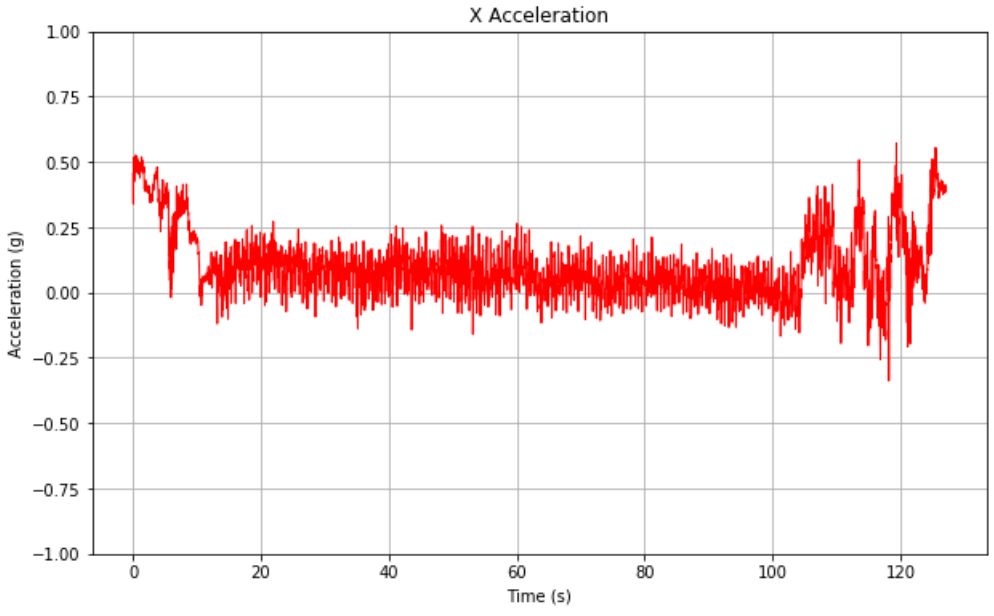
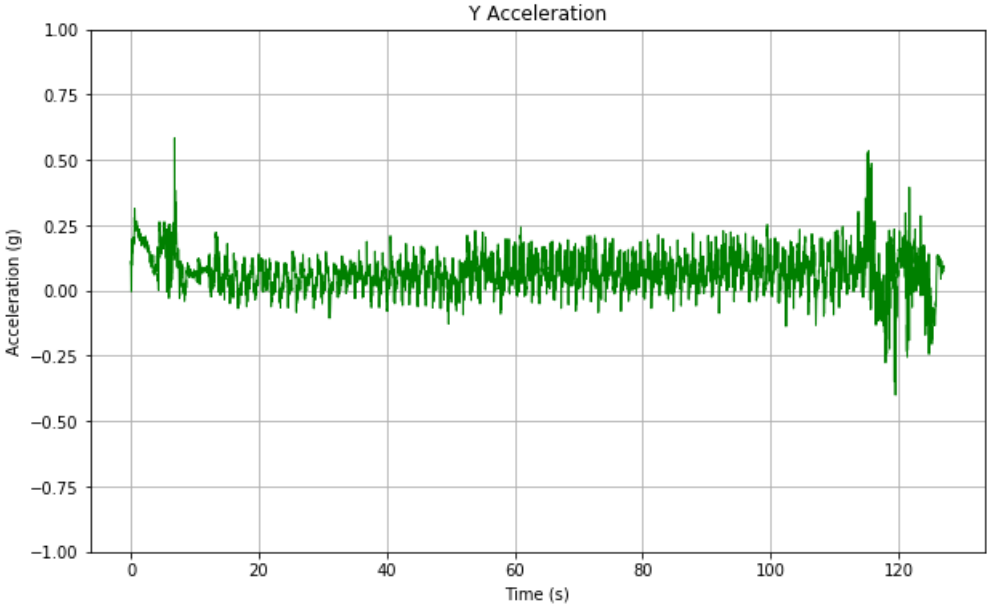
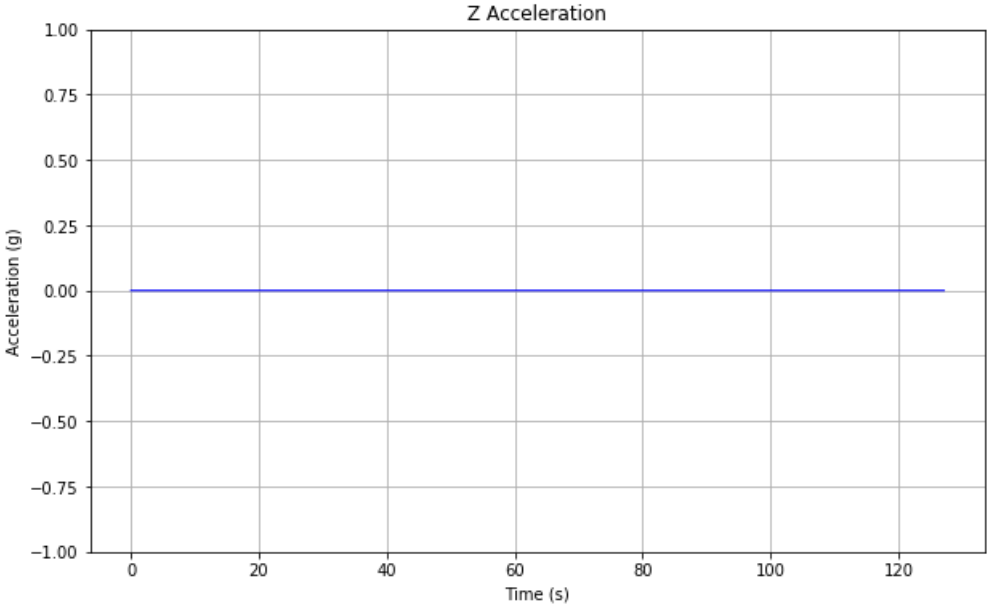
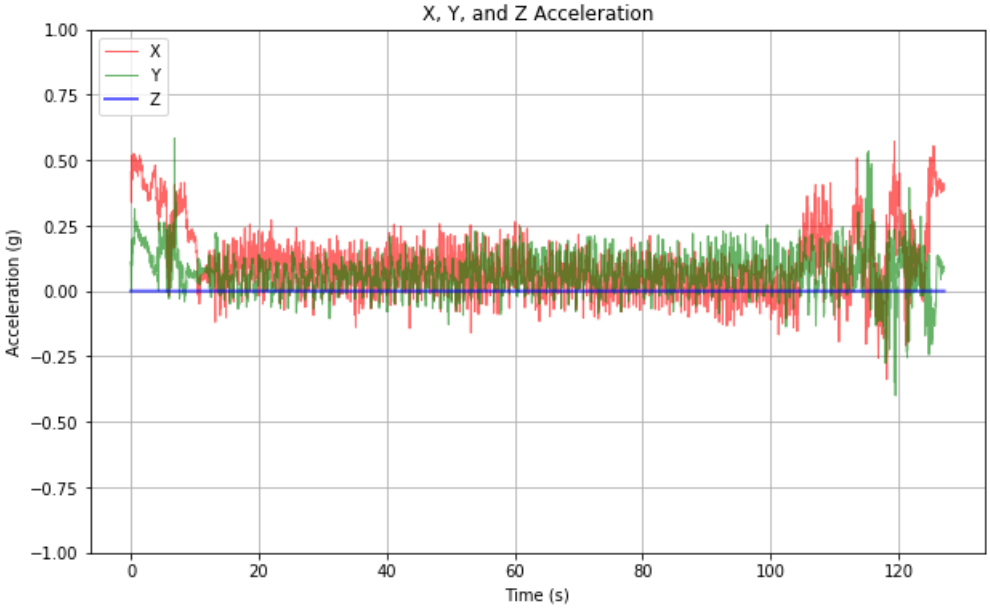
```
Python 3.7.1 (default, Dec 10 2018, 22:54:23) [MSC v.1915 64 bit (AMD64)]
Type "copyright", "credits" or "license" for more information.

IPython 7.2.0 -- An enhanced Interactive Python.

Restarting kernel...
```

```
In [1]: runfile('C:/Users/Andre/Desktop/April 1 2019 Data/Algorithm [7.0].py', wdir='C:/Users/Andre/Desktop/April 1 2019 Data')

 *** FILE METRICS ***
Log1.csv is being analyzed
Traceback (most recent call last):

  File "<ipython-input-1-72e4c18896cd>", line 1, in <module>
    runfile('C:/Users/Andre/Desktop/April 1 2019 Data/Algorithm [7.0].py', wdir='C:/Users/Andre/Desktop/April 1 2019 Data')

  File "C:\Users\Andre\Anaconda3\lib\site-packages\spyder_kernels\customize\spydercustomize.py", line 704, in runfile
    execfile(filename, namespace)

  File "C:\Users\Andre\Anaconda3\lib\site-packages\spyder_kernels\customize\spydercustomize.py", line 108, in execfile
    exec(compile(f.read(), filename, 'exec'), namespace)

  File "C:/Users/Andre/Desktop/April 1 2019 Data/Algorithm [7.0].py", line 25, in <module>
    allData = pd.read_csv(filename)

  File "C:\Users\Andre\Anaconda3\lib\site-packages\pandas\io\parsers.py", line 678, in parser_f
    return _read(filepath_or_buffer, kwds)

  File "C:\Users\Andre\Anaconda3\lib\site-packages\pandas\io\parsers.py", line 440, in _read
    parser = TextFileReader(filepath_or_buffer, **kwds)

  File "C:\Users\Andre\Anaconda3\lib\site-packages\pandas\io\parsers.py", line 787, in __init__
    self._make_engine(self.engine)

  File "C:\Users\Andre\Anaconda3\lib\site-packages\pandas\io\parsers.py", line 1014, in _make_engine
    self._engine = CParserWrapper(self.f, **self.options)

  File "C:\Users\Andre\Anaconda3\lib\site-packages\pandas\io\parsers.py", line 1708, in __init__
    self._reader = parsers.TextReader(src, **kwds)

  File "pandas\_libs\parsers.pyx", line 384, in pandas._libs.parsers.TextReader.__cinit__

  File "pandas\_libs\parsers.pyx", line 695, in pandas._libs.parsers.TextReader._setup_parser_source

FileNotFoundError: File b'Log1.csv' does not exist

In [2]:

In [2]: runfile('C:/Users/Andre/Desktop/April 1 2019 Data/Algorithm [7.0].py', wdir='C:/Users/Andre/Desktop/April 1 2019 Data')

 *** FILE METRICS ***
Palmwalksouth1.csv is being analyzed
File size: 0.82 MB
Samples: 12712
Time elapsed: 127.145 s
```

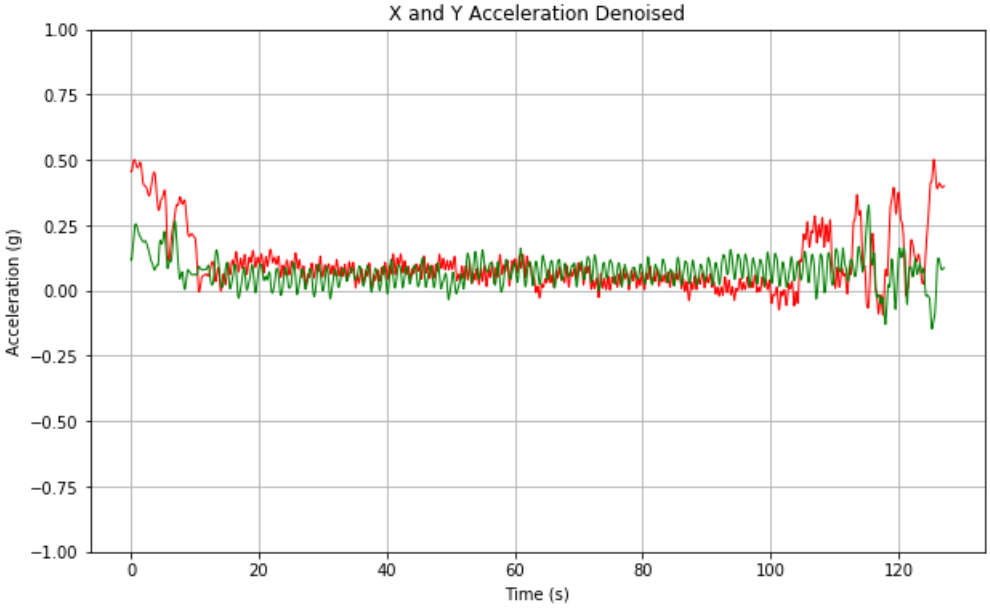


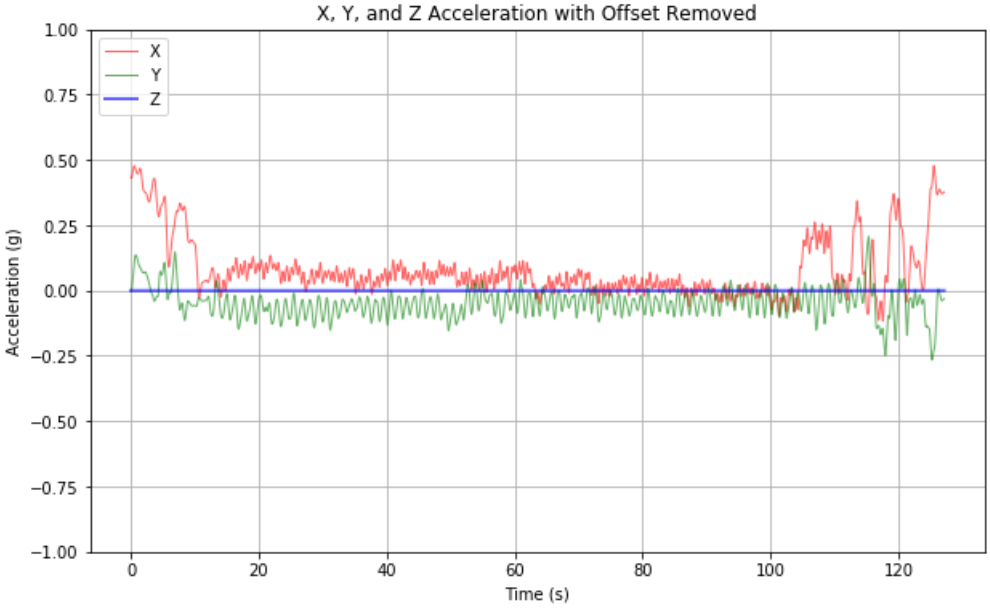


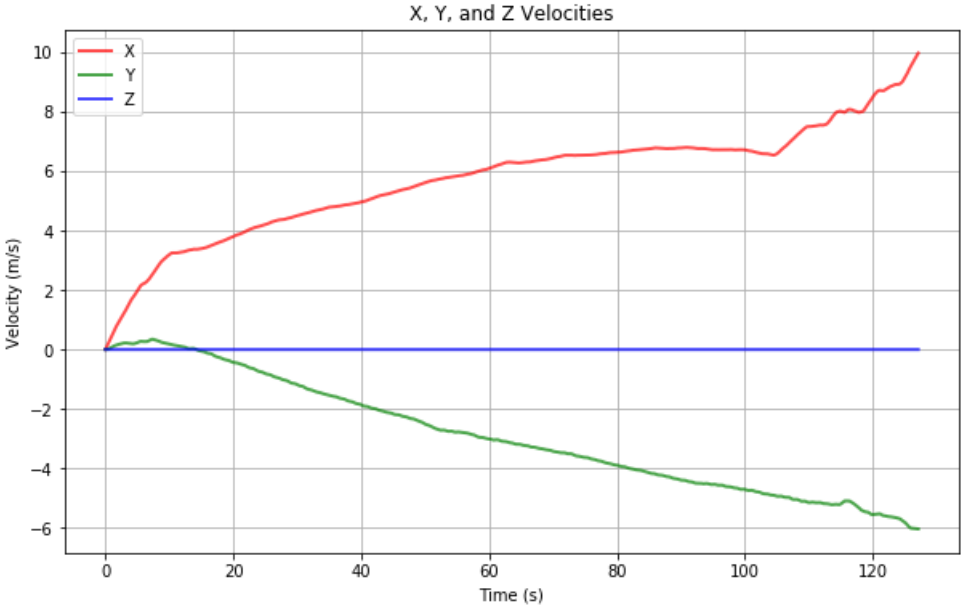


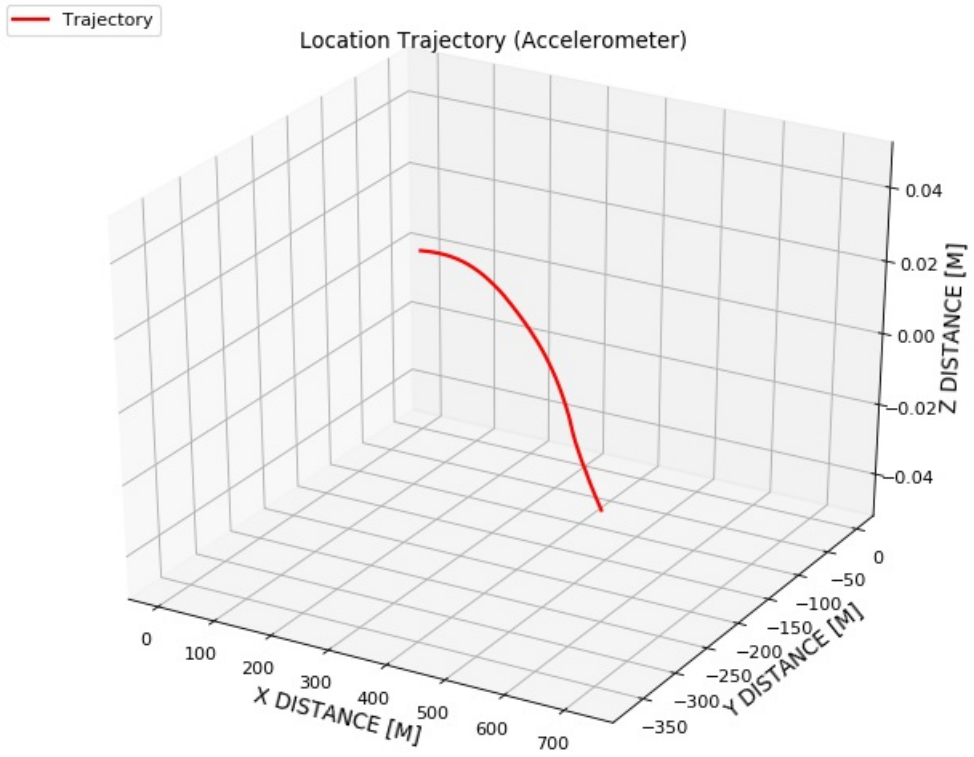


C:\Users\Andre\Anaconda3\lib\site-packages\scipy\signal_arraytools.py:45: FutureWarning: Using a non-tuple sequence for multidimensional indexing is deprecated; use `arr[tuple(seq)]` instead of `arr[seq]`. In the future this will be interpreted as an array index, `arr[np.array(seq)]`, which will result either in an error or a different result.
  b = a[a_slice]

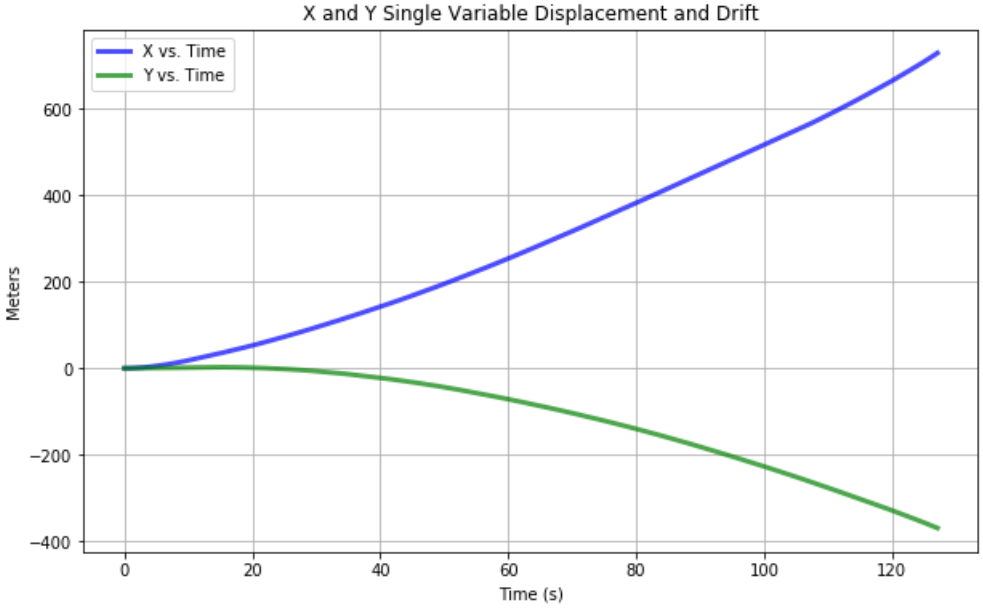

X and Y Acceleration Denoised
Acceleration (g)
Time (s)

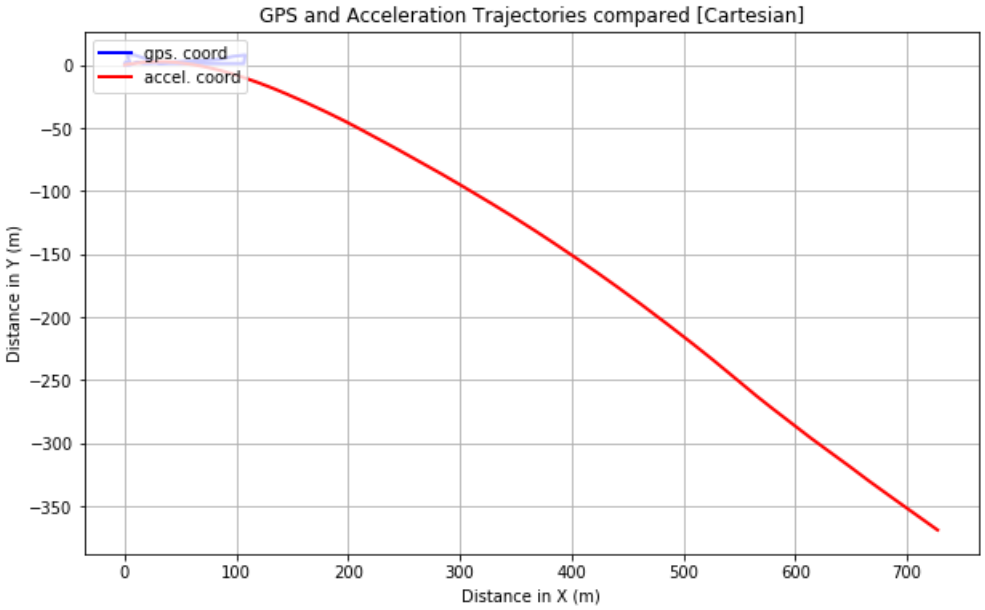

X, Y, and Z Acceleration with Offset Removed
X
Y
Z
Acceleration (g)
Time (s)


X, Y, and Z Velocities
X
Y
Z
Velocity (m/s)
Time (s)


Trajectory
Location Trajectory (Accelerometer)
0.04
0.02
0.00
−0.02
−0.04
Z DISTANCE [M]
0
100
200
300
400
500
600
700
X DISTANCE [M]
0
−50
−100
−150
−200
−250
−300
−350
Y DISTANCE [M]

2D Trajectory ((X, Y) Coordinates))
0
−50
−100
−150
−200
−250
−300
−350
Y Distance (m)
0
100
200
300
400
500
600
700
X Distance (m)


X and Y Single Variable Displacement and Drift
X vs. Time
Y vs. Time
Meters
Time (s)


GPS and Acceleration Trajectories compared [Cartesian]
gps. coord
accel. coord
Distance in Y (m)
Distance in X (m)

In [3]: