ENMT301 IMU Assignment

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I am expecting a paragraph for each plot.

1 Raw time sequences

2 Calibrated time sequences

3 Histograms

4 Statistics

5 Amplitude spectral density

6 Integrated signals

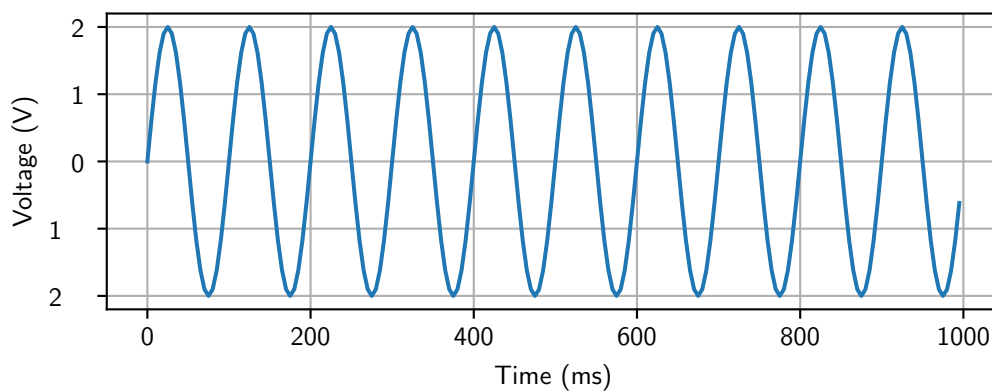# 7 Differentiated signals

8 Gyroscope drift

Figure 1: Estimated gyroscope drift.

A Filter code

```python
from matplotlib.pyplot import subplots, savefig
import numpy as np

fs = 200
f0 = 10

t = np.arange(200) / fs
x = 2 * np.sin(2 * np.pi * f0 * t)

fig, axes = subplots(figsize=(6, 2))
axes.plot(t * 1e3, x)
axes.set_xlabel('Time (ms)')
axes.set_ylabel('Voltage (V)')
axes.grid(True)

savefig(__file__.replace('.py', '.pgf'), bbox_inches='tight')
```