SYSEN 5411 Fall 2025

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Lab 7 Report – IMU and Signal Processing

1. Short explanation of accelerometer vs gyroscope measurements and units (mg, mdps).

2. Plots comparing accelerometer vs gyro angles before and after calibration; discuss drift.

3. LPF results for three α values; discuss noise vs lag trade‑off.

4. Complementary filter results for at least two α values; argue for a good default at ~100

Hz.