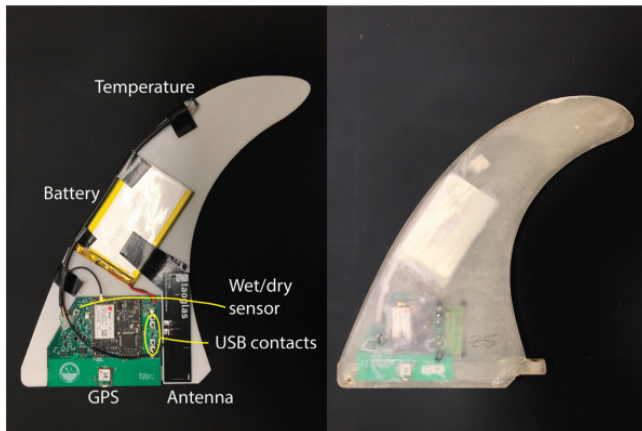


SmartFin

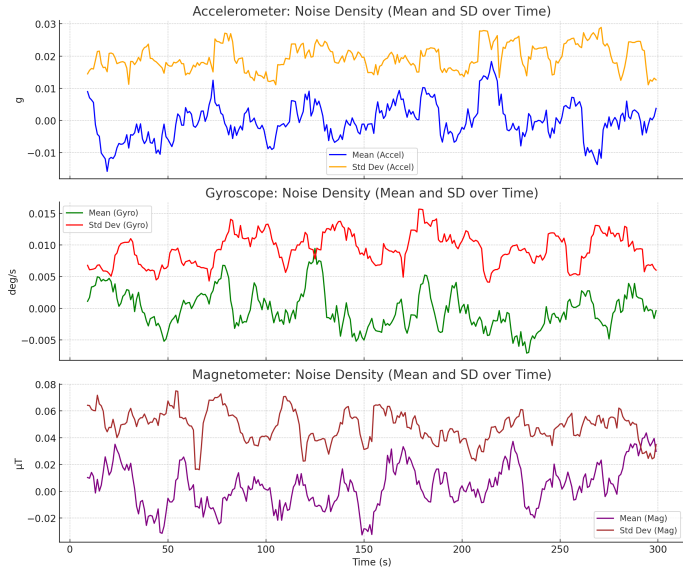


- ▶ Validate system with sensors.
- ▶ Primary Focus: IMU characterization.

Key IMU Parameters

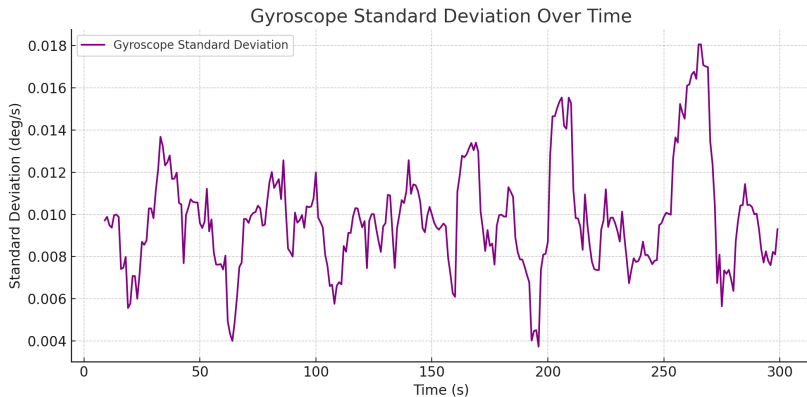
Parameter(s)	Sensor(s)
Noise Density, Random Walk	A, G, M
IMU Orientation	A, G, M
Scale Factor	Gyroscope

Expected Charts



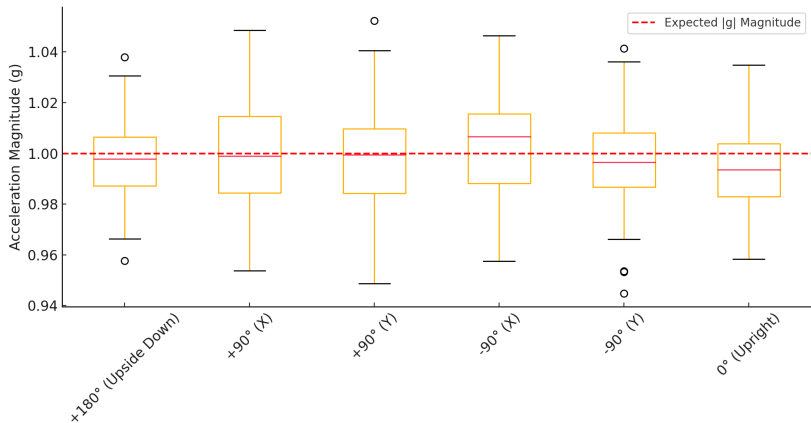
Noise/Random Walk (Mean/SD), Random Walk

Expected Charts



Scale Factor - Gyroscope Temperature Change

Expected Charts



Orientation: Box Plot (Measured vs Expected)

Implementation

- ▶ Testing on Static Environment
- ▶ IMU Orientation