Automotive Software Engineering

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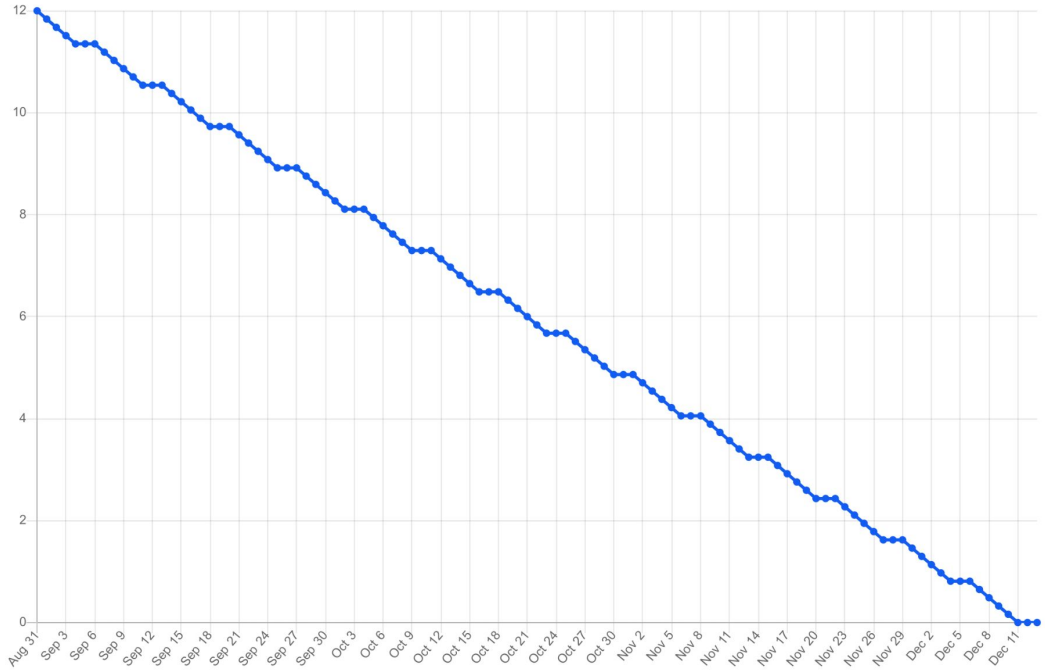
High Level Description

Our team is working on creating a tilt-compensated compass. We will be using a Raspberry Pi with an IMU and two LED displays. We will read input telling us the direction and degree of rotation and print that into our display. From there, we will implement the factor of tilt with a reading on our other display.

Timeline - Burndown Chart

Remaining tasks:

Configure Pi
Interface Pi and IMU
Seven Segment/LED Display wiring
Program Skeleton
Efficient Calibration
Magnetometer data to be computed
Working Program
Output Display all motions
Reduce Output Errors
Testing and input validation



Demonstration