Terrrain Classification

Create By: Kevin Ta

Contact: kevinta@alumni.ubc.ca
Date: 2019 August 30

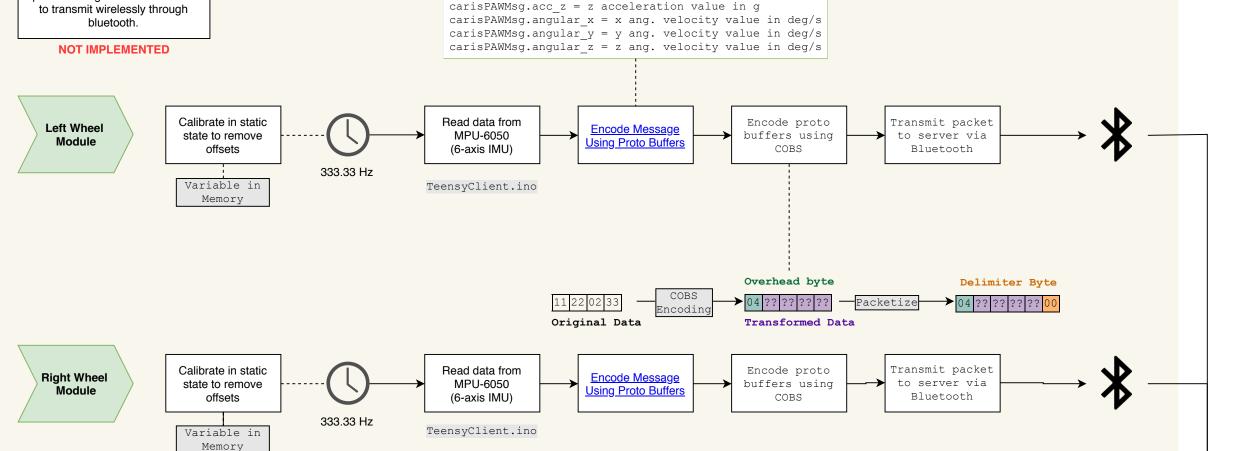
https://github.com/kev-in-ta/CARISPAWProject

This project is comprised of a number of integrated systems that perform data acquisition, data processing, and terrain classification utilizing trained machine learning algorithms.



Wheel Modules

The wheel modules run off of a Teensy 3.6 development board and capture IMU signals from the wheels to transmit wirelessly through bluetooth.



CarisPAWMsg

carisPAWMsg.time stamp = timeSinceTeensyStart (ms)

carisPAWMsg.acc x = x acceleration value in g

carisPAWMsg.acc y = y acceleration value in g

carisPAWMsg.sensorType =IMU 6

Frame Module

The wheel modules run off of a Raspberry Pi 3B+ to collect and process data.

