

11/5/20

Background and Objective:

This week, my objectives are to go back and document my work from last week by adding comments to the code, as well as creating a document describing the use cases of the software. After that, I will begin setting up the Raspberry Pi for testing and connect the GPS module to the device to begin collecting/sending data.

Requirements:

Requirement	Description
Make sure message sending works locally	Connection to socket on both ends work for 127.0.0.1. However, messages aren't being received at the server. Tried disabling firewall. Will test between devices next. Tested on Windows
Comment code written so far	Fully documented written code so far.
Create documentation for networking use cases	Use case document how to use current interface of the code, and lists possible extensions to increase usability
Set up Raspberry Pi for development	In-process of flashing raspberry pi OS on SD card
Set up GPS device for data collection	Requires soldering tools, looking into options to either borrow or purchase

Issues and Solutions While Testing:

1. (From last week) test software connects to port properly, but sent messages are blocked, **Solution:** in-progress, will probably just move on to wifi testing
2. (11/3) USB adapter that was purchased will not work alone. The pins still need to be soldered onto the GPS device, before it can be plugged into the Pi. **Solution:** will get necessary soldering tools

Questions

- None for now

What's Next

Set up raspberry pi to test python code. After procuring the soldering tools, I will finish assembly of the GPS module to work with real data. I can also begin work with Jeffrey on motor control.

Create Git repository