

Lab 3 Report

Last week plan

- Determine initial necessary hardware to order to order and get started with actual building/testing
- Start planning for the assigned tasks asynchronously and continue to touch base to make sure that everyone is on the same page and support each other throughout each of our assigned tasks

Accomplishments/challenges this week

Tutorial

- Challenge with understanding why the tutorial code was not working appropriately
 - Workaround was using the Github code linked in the previous tutorial!
- Tested out the MQTT publishing and subscribing first on my local machine and in a pair before scaling the testing upwards. Publishing from my local machine and RPi to a pre-determined topic was successful!
 - Looking into more details surrounding the robustness of MQTT to understand how much I can leverage it within our capstone project

Project

- Met up with Jeffrey to receive more detailed, actionable feedback on our idea
- Narrowed down the user segment to college students attending school from home in order to narrow the scope of our project to enable more cohesiveness and clarity with our approaches
- Brainstormed further use cases of the IMU to make its connection with the product more seamless
- Challenge with considering how to bolster the interaction portion of our project and figuring out some details with how features will be activated

Plan next week

- Experiment and test with the different features asynchronously while touching base and communicating obstacles we might be facing in order to understand the feasibility of ideas before committing fully
- For me, I will try looking more into the MQTT, TCP/IP protocols to determine how remote interaction can be enhanced in our project organically because this is the task allocated to me!