Discussion 1B

Lab Report Week 8

Goals for the week:

- Finish soldering the last PCB.
- Begin writing code for orientation detection with the IMU, LED color pattern should be able to "rotate" depending on the orientation of the raspberry pi.
- Help my team members with client/server side code.

What I accomplished at the end of the week:

• IMU code can output a compass direction, but it is very sensitive to outside electronics. Having large electronics nearby (such as a couple laptops or desktop monitor) causes issues with the magnetometer, causing the compass direction to have inconsistent values.

What I couldn't accomplish:

- Didn't finish soldering the last PCB, because they are not compatible with the class hardware.
- Couldn't get LED color pattern to "rotate".
- Couldn't get the IMU to output a compass direction reliably.

Goals for next week:

- Decide on an algorithm to get the IMU to work reliably.
- Implement the algorithm and see whether it is still very sensitive to outside electronics.