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Discussion 1B

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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.