



Team 6 - The Dormice

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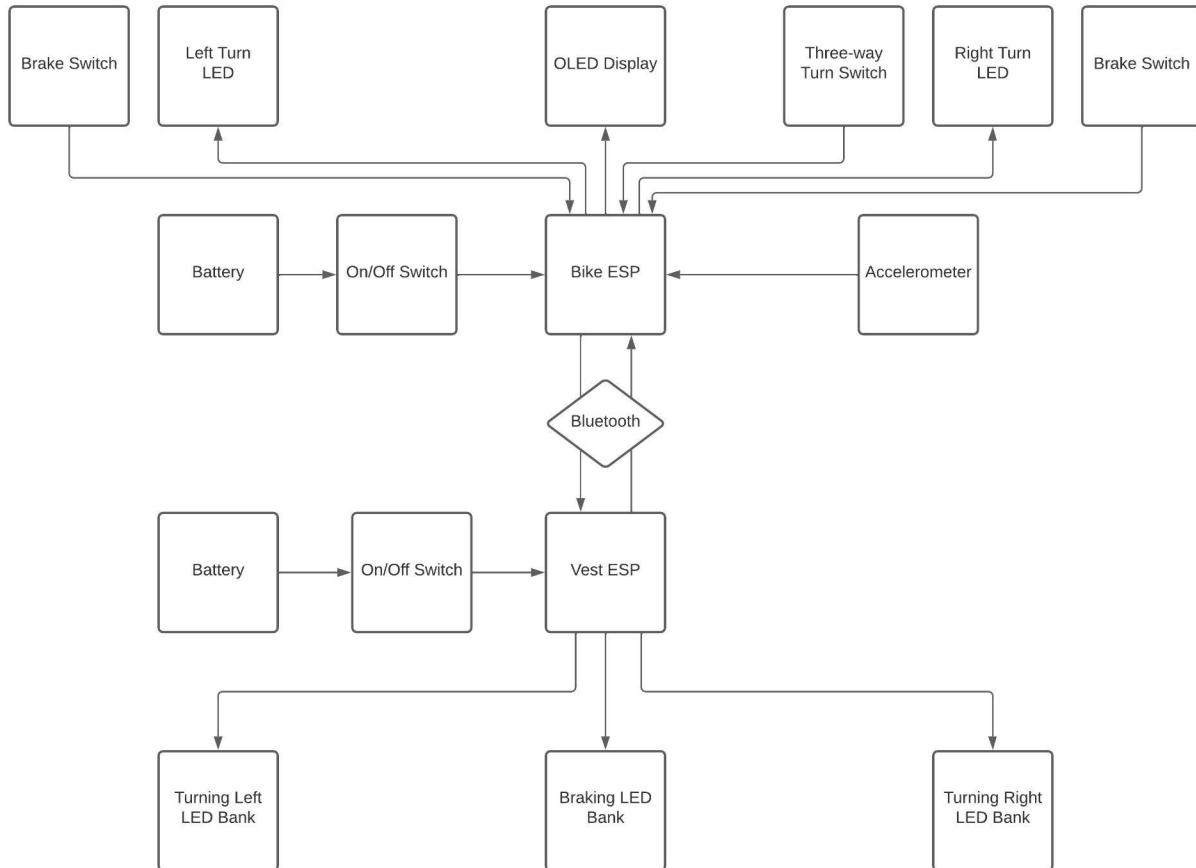
User Stories

“Is easy to install/remove for charging.”

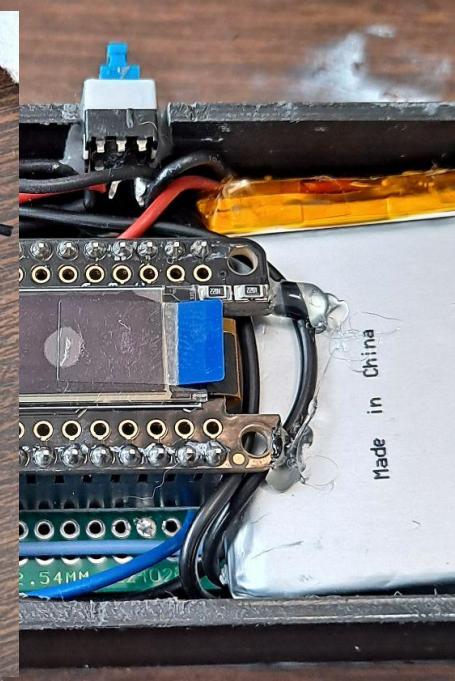
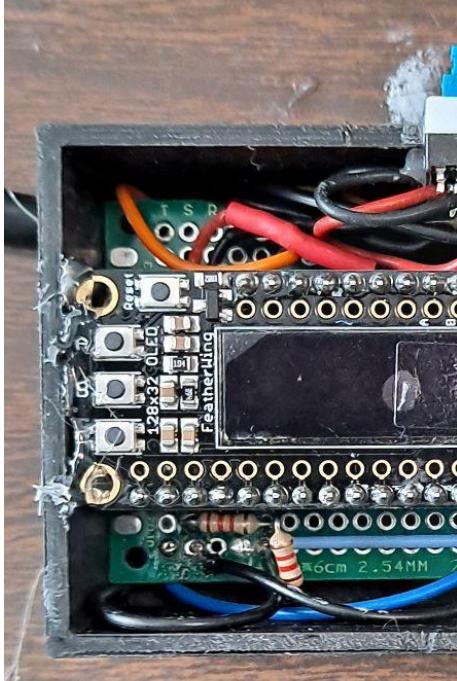
“Neat and safe for normal bike riding, no wires sticking out and catching on objects.”

“Can be seen from the back and the front. Is clear in daylight.”

Circuit Design Flow Chart



Physical Design



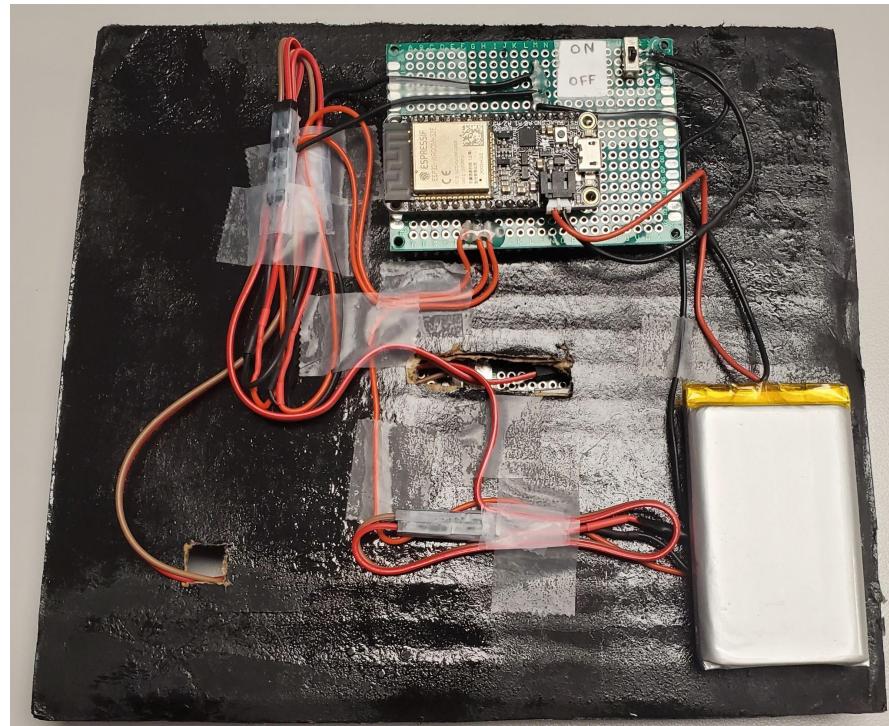
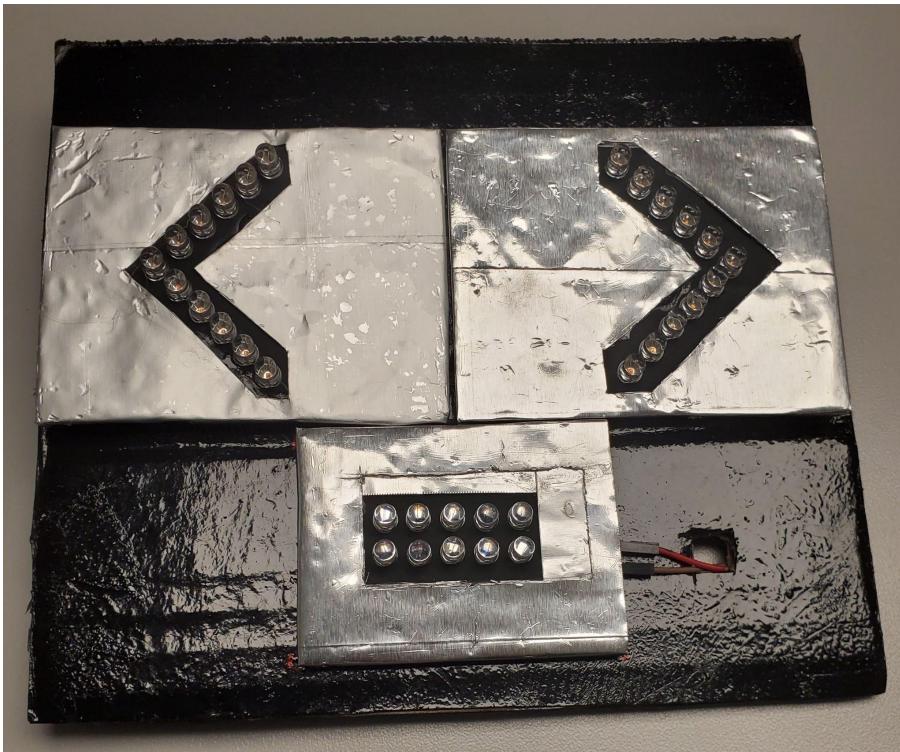
Vest Design



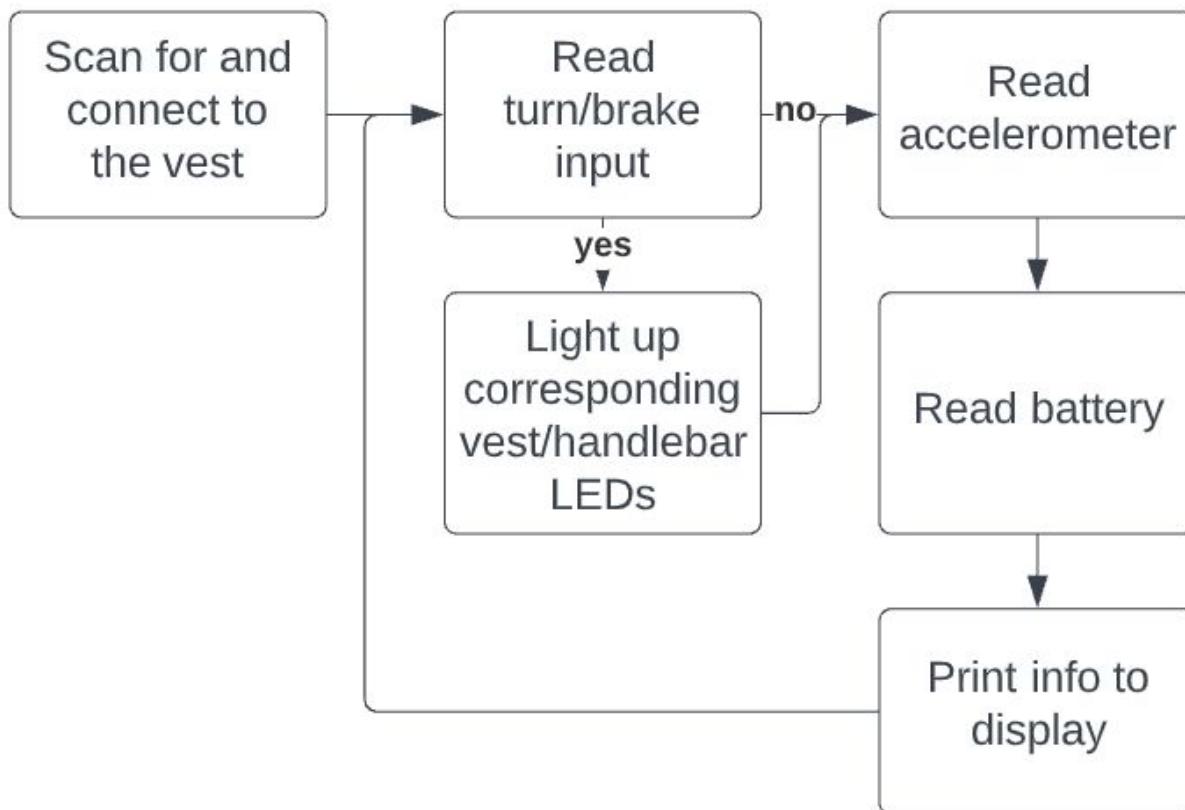
Small bag

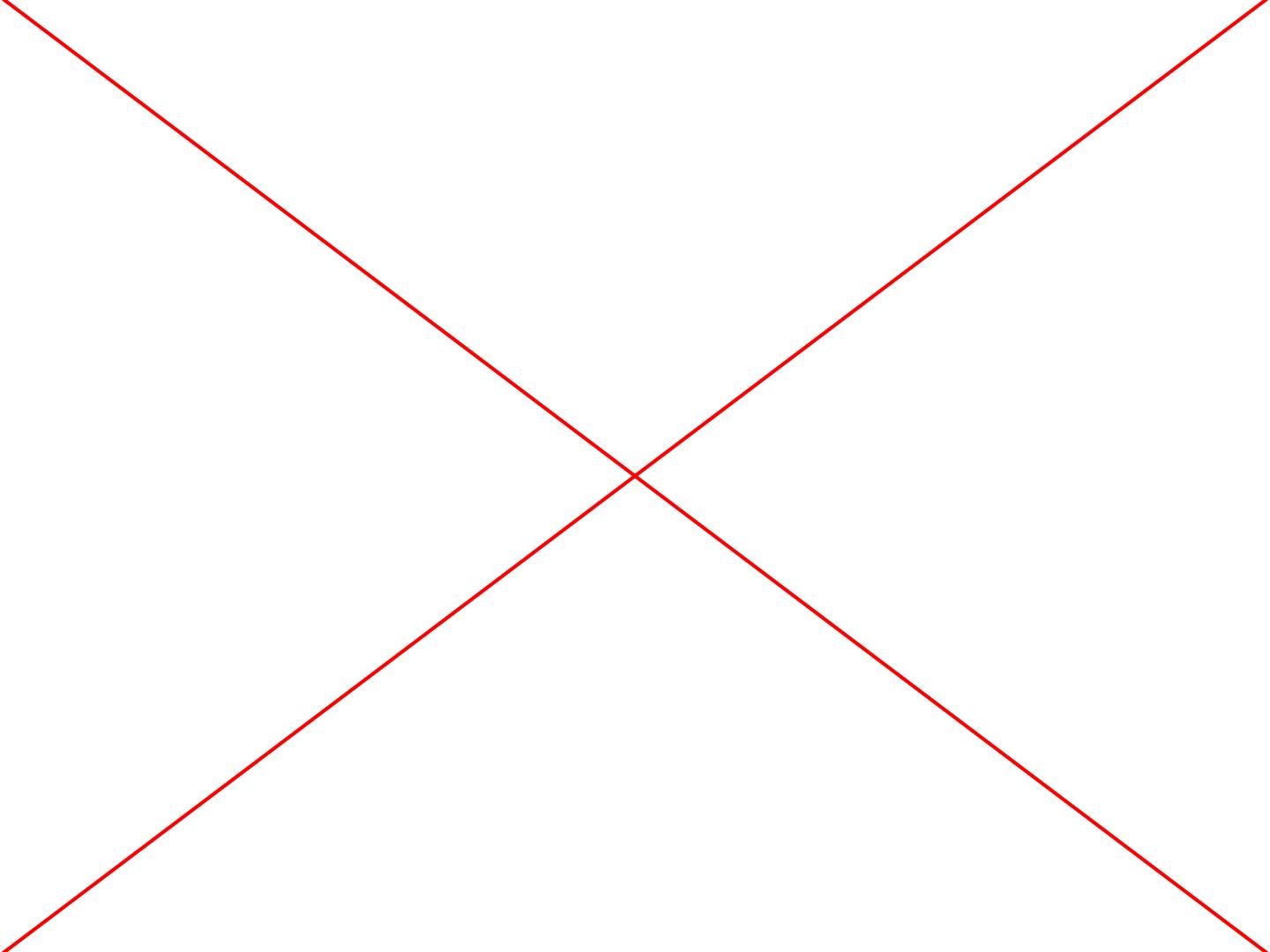


Circuit (Vest)



Code





Improvements

- Add GPS or replace the accelerometer with reed switch for more accurate speed readings
- Design a tighter flap for the charging port to improve water resistance
- Make the vest charging port more accessible
- Use Bluetooth for handlebar brake sensors and turn lights
- Implement voltage gain circuitry to increase light brightness
- Add hardware and software to switch between Imperial and Metric systems
- Add solar panels and brightness sensors
- Improving on the case for circuitry within the vest

Questions?