

sddec22-10: Low Water Crossing Level Indicator

Week 9 Report

April 4 - April 10

Team MembersDylan Blattner — *Product Owner/Sensor Lead*Tyler Rebischke — *Team Lead/Solar Lead*Jacob Ross — *Power Systems Lead*Brandon Choy — *Wireless Communications Lead*Nithin Sebastian — *Signage/Alerting***Summary of Progress this Report**

We began testing the individual modules for our project and acquired some of the remaining components for our project. Also, we worked on finalizing the power requirements for our project so that we can order our solar panels and battery.

Pending Issues

None

Plans for Upcoming Reporting Period

Dylan: Generate some data to share with the group by the next reporting period. If possible get outside and test the sensor on moving water as well.

Brandon:

Nithin: Continue setting up LEDs as well as playing around with the lights to see what is optimal

Tyler: Assist with testing of the water level and communication systems

Jake: Make final conclusions about battery system

Individual Contributions

Team Member	Contribution	Weekly Hours	Total Hours
Dylan Blattner	Continued working with the Arduino and the sensor to get some baseline readings Took some initial calibration readings on water	3	30
Tyler Rebischke	Developed a basic testing plan for the communication system Did more price shopping for solar panels	4	45
Jacob Ross	Making a chart comparing solar panels to battery storage based on solar panel size and battery storage capabilities	3	30
Brandon Choy	Received the LoRa Transceivers Creating a	3	26

	game plan on how to start Arduino coding		
Nithin Sebastian	Continued setting up environment for programming LEDs, as well as starting to play around with LEDs	2	20

Gitlab Activity Summary

Nothing to report.
