

**sddec22-10: Low Water Crossing Level Indicator**

Week 8 Report

March 28 - April 3

**Team Members**Dylan 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 Lead***Summary of Progress this Report**

This week, our team worked on refining our testing frameworks for each of our individual modules. Additionally, we ordered more parts for our project and began working on setting up the water level sensor for the project.

**Pending Issues**

None

**Plans for Upcoming Reporting Period**

Dylan: Test the water level sensor

Brandon: Start testing the LoRa parts once they arrive

Nithin: Begin testing for the LED strips

Tyler: Work with Jake to select and order solar panels and batteries

Jake: Work with Tyler to select and order solar panels and batteries.

**Individual Contributions**

Team Member	Contribution	Weekly Hours	Total Hours
Dylan Blattner	Began programming the Arduino for the ultrasonic sensor Finalized some conditions to test the effectiveness of the sensor	3	27
Tyler Rebischke	Began looking at different online vendors and their offerings for solar panels Read more about LoRa and alternative communication modules if LoRa were to fail	4	41
Jacob Ross	Finalizing battery size for power storage Research into how much storage we need	3	27
Brandon Choy	Researched more about the capabilities of the LoRa module and how it can be implemented with the Arduino Looked up what other features Arduinos may offer Created a general	3	23

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	plan on how to go about it coding the module through inspiration of similar projects online		
Nithin Sebastian	I begun coding the LED strip, I ran into some bugs so I'm working on fixing those and getting the LED to work	2	18

**Gitlab Activity Summary**

Nothing to report.

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