

EE/CPRE/SE 492 - sddec22-10

Low Water Crossing Indicator

Biweekly Status Report 4

Reporting date: 10/11/22-10/25/22

Client: Lee Harker

Faculty Advisor: Lee Harker

Team Members:

Dylan Blattner: Product Owner/Sensor Lead

Nithin Sebastian: Signage Lead

Brandon Choy: Wireless Communication Lead

Jacob Ross: Power Systems Lead

Tyler Rebischke: Solar Lead/Team Lead

Past Week Accomplishments:

Dylan:

- Implemented lora sensor and water sensor on the same arduino board, figured out baud rate issues
- Began developing code for taking a single reading, then sending it at a push of a button

Nithin:

- Continued to look at code Brandon provided to understand how to best integrate LED logic
- Began researching reflective properties of sign

Brandon:

- Worked on the programming side of the lora

Jacob:

- Researching connectivity of our power system to the rest of the components

Tyler:

- Assembled and tested the power system module for the signage/alerting side of the system
- Began assembling the power system module for the sensing side of our project

Pending Issues:

Individual Contributions:

Team Member	Contribution	Weekly Hours	Total Hours
Dylan	Implementation of lora sensor and water sensor	3	15
Nithin	Understanding code integration for LoRa sensor and started looking into properties of sign	2	11
Brandon	Researched about troubleshooting	2	13
Jacob	Researched connectivity of components	2	9
Tyler	Assembled and tested signage power system and began assembling the sensing power system	8	25

Plans for Upcoming Week:

Dylan:

- Finish the code for the sensor and lora implementation
- Help integrate other systems with established implementation

Nithin:

- Continue researching best properties for sign
- Integrate LED's with LorRa

Tyler:

- Complete assembly of the sensing system
- Work with other team members to begin integrating the power system with the other components of our system

Brandon:

- Complete the lora to depth sensor side

Jacob:

- Help Tyler with assembling the power system
- Help integrate the power system with the rest of the components