

EE/CPRE/SE 492 - sddec22-10

## Low Water Crossing Indicator

### Biweekly Status Report 3

Reporting date: 9/27/22-10/11/22

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:

- Began working on lora and sensor implementation

Nithin:

- Got full LED strip to light up
- Started working on integrating LoRa receiver code into LED code

Brandon:

- Worked on lora and sensor implementation

Jacob:

- Battery container choices
- Additional research into power setup

Tyler:

- Began assembly of the solar/power system
- Ordered additional parts that we needed for this system

#### Pending Issues:

### Individual Contributions:

| Team Member | Contribution                            | Weekly Hours | Total Hours |
|-------------|---|--------------|-------------|
| Dylan       | Worked on implementing sensor and lora  | 2            | 12          |
| Nithin      | Continued working on adding to LED code | 2            | 9           |
| Brandon     | Researched similar sensor projects      | 3            | 11          |
| Jacob       | Continued Battery Research              | 2            | 7           |
| Tyler       | Continued work on the power system      | 4            | 17          |

### Plans for Upcoming Week:

Dylan:

- Continue to work on implementing sensor and lora
- Research multiple baud rates on single arduino
- Read datasheets for lora module

Nithin:

- Continue working on adding to LED code to integrate with LoRa
- Do more research about reflective detail of sign

Tyler:

- Continue setting up the wiring for the power system when our new parts arrive

Brandon:

- To look up how to utilize most of the AT commands provided
- To figure out baud rate conflictions

Jacob:

- Deciding on Battery container
- Setting up Power System