

# SENIOR DESIGN WEEKLY REPORT 11/21 – 12/4

**Group number:** DEC1620

**Project title:** Miniature Tracking FOB

**Client & Advisor:** Flagger Pros USA, Advisor Nathan Neihart

**Team Members/Role:** Tristan Walters – Team Leader

David (DC) Carlson – Team Communication Leader

Brandon Trent – Secondary Team Lead

David Dalo – Key Concept Holder

Alex (Sunny) Sundholm – Secondary Communication Lead

Tyler Dahle – Team Webmaster

## **Weekly Summary**

We had our regularly scheduled meeting with Dr. Neihart on Thursday Dec. 1st where we went over the little bit that is left. We showed him our working device, minus the load switches and voltage regulator. We show that real data is being sent and acknowledged to the Konekt server. Website and web application progress is being made. Our final poster was submitted and we're proud of the way it turned out. Final push, let's get it done.

## **Past week accomplishments**

- Website updated
- GPS data saved and Sent
- Load switches integrated
- Timeout function implemented
- Verification of data sent function implemented
- Debugging of new MCU code

## **Pending issues**

- Load switches turning on both devices at once
- Power consumption
- All the design documents
- Implement RTC code

## SENIOR DESIGN WEEKLY REPORT 11/21 – 12/4

### Individual contributions

| Name            | Individual Contributions   | Hours this week | Cumulative hours |
|-----------------|--|-----------------|------------------|
| Tristan Walters | Attended advisor meeting, worked on web app, worked on final document, worked on poster  | 24              | 111              |
| David Carlson   | Attended advisor meeting, developed UART code, developed functions, debugged, worked on poster                                   | 14              | 113              |
| Alex Sundholm   | Attended advisor meeting, researched parsing, hashing, and worked on database  | 13              | 64               |
| Brandon Trent   | Attended advisor meeting, worked on UART code, soldered final product, worked on final documents, worked on server communication | 20              | 131              |
| Tyler Dahle     | Attended advisor meeting, worked on website, worked on final poster, added documents to website                                  | 24              | 102              |
| David Dalo      | Attended advisor meeting, coding   | 3               | 53               |

### Plan for coming week

- Hardware Group:
  - Finish final product, implement load switches, implement rtc and timeouts
- Software Group:
  - Work together to tie together the web app and database for ease of use between all standard browsers. Debug and polish.