

# SENIOR DESIGN WEEKLY REPORT 10/17 – 10/23

**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**

Dr. Neihart was unavailable for our group meeting on Thursday, and we met to go over progress. Progress is being made in all areas. Software has scheduled an appointment to meet with the client to go through the design of the web application for next week.

## **Past week accomplishments**

- Database communication verified
- Website updated
- GPS data saved in variable

## **Pending issues**

- Managing component power consumption
  - Theoretical power consumption calculated, need prototype to measure actual output
- Waking a microcontroller from a low power sleep mode
- Keeping microcontroller clock running
  - Only want to update location once or twice a week
- Web Application and Design
- Sending saved GPS data using Cell chip
- Cutting power to GPS and turning on cellular chip

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### Individual contributions

Name	Individual Contributions	Hours this week	Cumulative hours
Tristan Walters	Attended group meeting, developed website.	6	68
David Carlson	Attended group meeting, worked on GPS data manipulation	2	59
Alex Sundholm	Attended group meeting, worked on database	2	46
Brandon Trent	Attended group meeting, worked on GPS data manipulation for cell chip.	3	73
Tyler Dahle	Attended group meeting, researched web application development, developed website.	8	63
David Dalo	Product research.	1	42

### Plan for coming week

- Hardware Group:
  - DC: Parse GPS data and store to char arrays to be sent
  - Brandon: take data from GPS and send to database
  - David: MCU Coding and product acquisition
- Software Group:
  - Tristan: Develop website, contact client
  - Tyler: Develop website/web app
  - Sunny: Develop database