

SENIOR DESIGN WEEKLY REPORT 10/31 – 11/6

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

This week, we had our regular meeting with Dr. Neihart. We met after the meeting to schedule meetings for Hardware and Software. A massive amount of progress has been made coming into this week, with the web app 90% up and running, and the GPS output has been parsed and turned into a function that

Past week accomplishments

- Database communication verified
- Website updated
- GPS data saved and parsed to save only necessary GPS data in the format we need
- Cell chip implemented in conjunction with GPS

Pending issues

- Managing component power consumption
 - Theoretical power consumption calculated, need prototype to measure actual output
 - Cutting of power from each component to ensure they each have enough to run
- Web Application and Design
 - Testing application in all standard browsers
 - Desktop vs. mobile browsers
- 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 advisor meeting	1	71
David Carlson	Attended advisor meeting, developed GPS code	8	61
Alex Sundholm	Worked on parsing incoming data to the database.	1	49
Brandon Trent	Attended advisor meeting, worked on UART code	8	83
Tyler Dahle	Attended group meeting, web app development	3	68
David Dalo	Attended advisor meeting	1	44

Plan for coming week

- Hardware Group:
 - Work together to combine the efforts of all three group members into a cohesive program. By its completion, it should step through multiple states and cycle power between components. Functions for the GPS and the Cell Modem have been debugged and finished.
- Software Group:
 - Work together to tie together the web app and database for ease of use between all standard browsers. Debug and polish.