

SENIOR DESIGN WEEKLY REPORT 10/24 – 10/30

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. Progress is being made in all areas.

Past week accomplishments

- Database communication verified
- Website updated
- GPS data saved in variable, need to

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
 - Hardware ordered, implementation coming

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Individual contributions

Name	Individual Contributions	Hours this week	Cumulative hours
Tristan Walters	Attended advisor meeting, met with client.	2	70
David Carlson	Attended advisor meeting, developed GPS code.	2	61
Alex Sundholm	Attended advisor meeting, worked on parsing incoming data to the database.	2	48
Brandon Trent	Attended advisor meeting, worked on UART code, and practiced soldering.	2	75
Tyler Dahle	Attended group meeting, met with client	2	65
David Dalo	Attended advisor meeting.	1	43

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 for power management
- Software Group:
 - Tristan: Develop website/web app
 - Tyler: Develop website/web app
 - Sunny: Develop database