

SENIOR DESIGN WEEKLY REPORT 11/14 – 11/20

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 this Thursday where we went over how our presentation went and what progress needs to be made for us to finish this project strong. He voiced concerns over the fact that we do not yet have a finished prototype, and we expressed our own frustration with a couple members of our group not performing and pulling their weight. DC and Brandon have completed a working GPS/Cell prototype with a switch for power between them. We do not have power functions from David Dalo. Sunny is working on parsing data into the database, which then can be passed to the web application for implementation.

Past week accomplishments

- Website updated
- GPS data saved and Sent
- Working Breadboard minus Load switches
- Timeout function implemented
- Verification of data sent function implemented
- Porting of code from MSP430G2553 to MSP430FR2433

Pending issues

- Managing component power consumption
- Web Application and Design
 - Testing application in all standard browsers
 - Desktop vs. mobile browsers
- Power functions to toggle between devices
- Finishing a prototype with enclosure
- Use final MCU Rather than G2553 Testing FET

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Individual contributions

Name	Individual Contributions	Hours this week	Cumulative hours
Tristan Walters	Attended advisor meeting, worked on web app	11	87
David Carlson	Attended advisor meeting, developed UART code, developed functions and breadboarded	12	85
Alex Sundholm	Out sick	0	51
Brandon Trent	Attended advisor meeting, worked on UART code and breadboarded	14	111
Tyler Dahle	Attended group meeting, web app development	7	75
David Dalo	Attended advisor meeting, lab work	4	48

Plan for coming week

- Hardware Group:
 - We've hit the final stretch, with only the Power controls and the port to the final MCU remaining. Over break, we will try and finish the final product.
- Software Group:
 - Work together to tie together the web app and database for ease of use between all standard browsers. Debug and polish.