SENIOR DESIGN WEEKLY REPORT 11/7 – 11/13

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

Rather than our regular meeting, we had our mock final presentation on Thursday. The cellular chip is successfully sending dummy data and has written functions for handing off control from the GPS. However, a bulk of this week's work will be put into preparing for our mock final presentation this Thursday, and then buttoning up a final product.

Past week accomplishments

- Database communication successful
- Website updated
- GPS data saved
- Cell chip implemented in conjunction with GPS

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
- GPS Timeout functions
- Data sent confirmation from Cell Modem
- Updating size of jobsite locations in web app

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Individual contributions

Name	Individual Contributions	Hours this week	Cumulative hours
Tristan Walters	Attended advisor meeting, presentation prep.	5	76
David Carlson	Attended advisor meeting, developed GPS code, developed functions and breadboarded	12	73
Alex Sundholm	Met to work on presentation and worked on parsing input to the database	2	51
Brandon Trent	Attended advisor meeting, worked on UART code and breadboarded	14	97
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:
    - 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.