

SENIOR DESIGN MONTH 1 RECAP 8/22 – 9/25

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

Summary

Welcome back to Iowa State! This will be a recap of our first month back, with weekly reports occurring as usual here on out. We have accomplished a fair amount during this first month.

Accomplishments

- Cellular Chipset communicating with database
- GPS Reading in data
-

Pending issues

- Managing component power consumption
 - Will be addressed when we have working prototype
 - Will be higher than final product because the microcontroller Launchpad and cellular chipset both have parts that will not ultimately be used.
- Waking a microcontroller from a low power sleep mode
 - David is working on solution
- Communication with database
 - Brandon is working on solution
-

SENIOR DESIGN MONTH 1 RECAP 8/22 – 9/25

Individual contributions

Name	Individual Contributions	Hours this month	Cumulative hours
Tristan Walters	Attended 2 advisor meetings, attended meeting with instructor, met with the client. Worked on web application.	9.5	40
David Carlson	Attended 1 advisor meeting, attended meeting with instructor, attended hardware group meeting. Continued working on communication between GPS and MCU.	8	38
Alex Sundholm	Attended 2 advisor meetings, attended meeting with instructor. Met with software team, updated database.	7.5	38
Brandon Trent	Attended 2 advisor meetings, attended meeting with instructor, attended hardware group meeting. Worked on forwarding data from cell chip to server.	10	55
Tyler Dahle	Attended 2 advisor meetings, attended meeting with instructor, met with client. Researched and worked on web application.	10	45
David Dalo	Attended 2 advisor meetings, attended meeting with instructor, attended hardware group meeting. Worked on power management code and hardware solutions.	10.5	30

Comments and extended discussion

Most of the work needing to be done is on an individual basis, with each member working in their groups (hardware/software) to accomplish their goals.