SENIOR DESIGN WEEKLY REPORT 9/26 – 10/2

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

As a group, we met on Thursday for our regular advisor meeting with Dr. Neihart. He challenged us to answer a lot of questions that hadn't been explicitly stated, including what pins we are using, what functions we are going to create, and how far we are planning to take this project. A fair amount of work was done individually on the database, server, and the website.

Past week accomplishments

- Spreadsheet containing current and power draw calculations (updated)
- Database cleaned up
- Website updated

Pending issues

- Managing component power consumption
    - Theoretical power consumption calculated, need prototype to measure actual output
- Waking a microcontroller from a low power sleep mode
- Keeping microcontroller clock running
    - Only want to update location once or twice a week
- Web Application and Design

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Individual contributions

Name	Individual Contributions	Hours this week	Cumulative hours
Tristan Walters	Attended advisor meeting, attended meeting with Tyler, developed website.	10	50
David Carlson	Attended advisor meeting, worked on GPS data acquisition.	6	44
Alex Sundholm	Organized database information.	2	40
Brandon Trent	Attended advisor meeting, successfully sent data from cell chip to database.	3	58
Tyler Dahle	Attended advisor meeting, attended meeting with Tristan, developed website.	5	50
David Dalo	Developed MCU code	4	34

Comments and extended discussion

Progress has been expedited for next week after our meeting with Dr. Neihart. He challenged us to show meaningful progress in all areas and we made plans to meet as separate groups both hardware and software.

Plan for coming week

- Hardware Group:
  - Brandon and DC meeting Monday night
  - Brandon, DC, and David meeting Tuesday afternoon
  - DC: Parse GPS data and store to char arrays to be sent
  - Brandon: take data from GPS and send to database
- Software Group:
  - Tyler and Tristan meet to develop website
- Continue development of MCU Code