

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 no meetings with the client, due to his being away. Dr. Neihart was away for a meeting so we met as a group during our regularly scheduled time. We worked individually for most of the week, and compiled all of our research on Friday. Our plan for this week was to have been to order parts, but complications came up as far as the process of doing so.

Past week accomplishments

- Selected candidate parts
 - Will be ordering prototype items this coming week
 - Microcontroller and breakout board
 - GPS breakout board

Pending issues

- Ordering parts through ETC
- Managing component power consumption
- Waking a microcontroller from a low power sleep mode
- Cellular Communication
 - Contacted Verizon, still trying to find a candidate cellular chipset that is compatible with their cell network
 - We have a 3rd party GSM chip that charges for activation and amount of data used per month if all else fails (communication with Verizon is difficult)
- Keeping microcontroller clock running
 - Only want to update location once or twice a week

Individual contributions

Name	Individual Contributions	Hours this week	Cumulative hours
Tristan Walters	Attended both group meetings, worked on design document, researched database specifics	4	22
David Carlson	Researched external antennas for GPS	1	18
Alex Sundholm	Worked on design document, worked on database creation, began learning IDE for TI development	3	21
Brandon Trent	Attended both group meetings, contacted Verizon again, researched modem	6	33
Tyler Dahle	Attended both group meetings, and worked on getting server working	4	25
David Dalo	Attended group meeting	1	13

Comments and extended discussion

Building from previous weeks, our next objective is to buy our candidate parts and begin prototyping. This week was rough on attendance as David Carlson (DC) and Alex could not attend the meeting on Friday and DC missed the Saturday meeting as well (Choir tour). Ordering parts got delayed as we found out the easiest process to do so is to have Dr. Neihart request them from Lee in the parts shop rather than us going in personally to order.

Plan for coming week

- Order parts
- Try and get more information from Verizon

Summary of weekly advisor meeting

N/A