EE 491 Weekly Report 3

Date: 1-30-17 -- 2-6-17

Group Number: May1735

Project Title: Cy-Mote

Advisor: Dr. Daniels

Team Members:

Kyle Fischer - Team Lead

Michael Linthicum - Communications Lead

Daniel Shauger - Concept Holder Lead

Sam Neff - Webmaster

Nick Juelsgaard - Schedule and Planning Lead

Summary of the Week:

We continued our development of our project. The electrical team found and ordered some new parts, found a case, and have almost completed the design for the PCB. Issues with BLE persist. We decided on a time for our first presentation and have begun planning for the presentation

Past Week Accomplishments

|  |  |  |  |
| --- | --- | --- | --- |
| Name | Accomplishments | Time worked | Cumulative Time |
| Kyle Fischer | Learned why visual studio wouldn’t let me use its BLE library | 3 | 8 |
| Michael Linthicum | Got the magnetometer on the LSM9DS0 to work with the B11.  Probably not going to pursue the SPI hardware implementation. Stick with my bitbanged implementation and work on speed issues on it. | 4 | 13 |
| Daniel Shauger | Created a bluetooth (not ble) console application that could communicate with an android phone | 3 | 8 |
| Sam Neff | Nothing, was very sick this week | 0 | 9 |
| Nick Juelsgaard | Worked on finishing the multisim design | 4 | 12 |

Pending Issues:

* Kyle Fischer - Need to find a new BLE library or change the scope of our PC wrapper.
* Michael Linthicum - Need to figure out an interrupt system to speed up bitbanged program or speed it up other ways. Implement a false floating point calculation for the calculated output because our board does not support floating point math apparently.
* Daniel Shauger - Same as Kyle
* Sam Neff - Sick, need to get better
* Nick Juelsgaard - This MultiSIM is harder than I thought, I want to make sure I get it right

Comments and extended discussion

Plan for coming week

* Kyle Fischer - Help Sam with presentation if he needs it. Work on BLE wrapper.
* Michael Linthicum - Gyroscope implemenation.
* Daniel Shauger - Work on BLE implentation
* Sam Neff - Work with Nick on MultiSIM and presentation
* Nick Juelsgaard - Finish the MultiSIM

Summary of weekly advisor meeting:

Didn’t meet this week.