EE 491 Weekly Report 13

Date: 4-10-17 -- 4-17-17

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:

Stuff and things.

Past Week Accomplishments

|  |  |  |  |
| --- | --- | --- | --- |
| Name | Accomplishments | Time worked | Cumulative Time |
| Kyle Fischer | Got esplorascope working with our board. Wrote the things that people told me to. | 4 | 71 |
| Michael Linthicum | Tested LSM9DS1 functionality and verified that it worked. | 4 | 59 |
| Daniel Shauger | Worked on making sure all the formatting on the wrapper is how Kyle wants it to work. Started investigating why ADC stopped working. | 6 | 51 |
| Sam Neff | Helped troubleshoot and assemble board. Found the manufacturer shorted the inductor to ground. Created the poster. | 8 | 61 |
| Nick Juelsgaard | Assembled two of the final boards. They showed major errors on the voltage regulation. After LOTS of hours of troubleshooting, we found that the manufacturer made an error. There were two pads connected that shouldn’t have been. Lee was able to fix it, and then I reassembled one of the CyMotes. We are waiting for more voltage regulators to show up to finish the other two. Kyle and I worked on the one working CyMote and had varied success. We could get the RGB LED to come on occasionally, and we saw the board over BLE once. | 17 | 106.5 |

Pending Issues:

* Kyle Fischer - Board seems to be crashing every so often. Gotta fix that.
* Michael Linthicum - None.
* Daniel Shauger - ADC issues, exception handling for disconnects
* Sam Neff - Boards still don’t work
* Nick Juelsgaard - No voltage regulators, board isn’t working and we’re not done.

Comments and extended discussion

Plan for coming week

* Kyle Fischer - try to get cymote beta working with Nick. Make board stop crashing. Bring demo model up to speed.
* Michael Linthicum - Final report work.
* Daniel Shauger - Work on integrating ADC and buttons, fix exception issues
* Sam Neff - Help assemble boards, go through presentation, update, and ensure requirements are met. Update website.
* Nick Juelsgaard - Order parts, assemble boards when they show up, write part of final report, help software team, put together Demo model based off Alpha

Summary of weekly advisor meeting:

n/a