EE 491 Weekly Report 12

Date: 4-3-17 -- 4-10-17

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:

Spent a significant amount of time organizing roles for end of semester documentation. Sam will be taking the bulk of the poster, Michael and Nick will be taking the bulk of the final report, Kyle and Dan are continuing to work on the BLE transfer rate issue and the PC Wrapper. The third iteration of the PCB is en route (hopefully). It is our last iteration regardless of functionality. We are wrapping up (puns hahahahahhahah) for the end of the semester.

Past Week Accomplishments

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| --- | --- | --- | --- |
| Name | Accomplishments | Time worked | Cumulative Time |
| Kyle Fischer | Got BLE back to a working state. Tried to send time over BLE instead of from pc’s system time. BLE doesn’t transfer bytes well. Notifications aren’t going to work. | 8 | 63 |
| Michael Linthicum | Met with Nick to brainstorm and assign tasks for the final report. Implemented magnetometer operation for the LSM9DS1 on the ATSAMB11. Finalized calculations and began testing for PC Wrapper BLE transfer. | 5 | 55 |
| Daniel Shauger | Worked on getting time from the MCU to the wrapper side. | 7 | 43 |
| Sam Neff | Looked at 3D modelling. Went through poster and presentation requirements and took notes on what needed to be done. | 3 | 53 |
| Nick Juelsgaard | Met with Michael to start working on the final report documentation. Also worked on the Final version of the BOM and tried to put a 3D model together. (I am no genius about 3D modelling apparently) | 7 | 89.5 |

Pending Issues:

* Kyle Fischer - BLE speed.
* Michael Linthicum - None.
* Daniel Shauger - What Kyle said + time interrupts on MCU
* Sam Neff - Waiting on boards
* Nick Juelsgaard - Waiting for next board to come in

Comments and extended discussion

Plan for coming week

* Kyle Fischer - Try packing data as much as possible.
* Michael Linthicum - Final report work. Testing LSM9DS1 functionality.
* Daniel Shauger - Help Kyle with BLE stuff, get MCU time vs PC time
* Sam Neff - Assemble board and keep working on presentation materials
* Nick Juelsgaard - Assemble board when it arrives

Summary of weekly advisor meeting:

n/a