EE 491 Weekly Report 4

Date: 9-27-16 -- 10-3-16

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:

This week we made a more detailed plan for the semester. The microcontroller we will be using has been ordered and we are waiting for them to arrive. We ordered three to allow each of the CPRE people to work independently. Research went into implementing the audio codec. Nick decided to take a step back from the technical side of things to work on the planning and documentation part. The group agreed that this would be fine. We discussed the separate parts of the project plan that Nick will be putting together. We filled the project backlog on our Trello board with things that need to be done and assigned roles.

Past Week Accomplishments

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| --- | --- | --- | --- |
| Name | Accomplishments | Time worked | Cumulative Time |
| Kyle Fischer | Looked into using the audio codec. Found we needed a receiver, gets saved as a .WAV format, can only receive SPI not send SPI. | 2 | 12 |
| Michael Linthicum | Expanded 9 degrees of freedom arduino program to all axes and printed them in a more readable format. | 2 | 12 |
| Daniel Shauger | Went to meeting (week off to wait for parts to arrive) | 1 | 9 |
| Sam Neff | Worked on pinout and looked at voltage regulators | 2 | 8 |
| Nick Juelsgaard | ‎Prepared for our meeting and presented a calendar of events moving forward. Got ready to write first draft of Project Plan | 2 | 12.5 |

Pending Issues:

* Kyle Fischer - Looking into bluetooth communications between our MCU and a computer
* Michael Linthicum - Expand 9 degrees of freedom program to magnetometer and gyroscope. I’m waiting to do more work on this until I get our MCU. The arduino program has served its purpose of familiarizing me with SPI.
* Daniel Shauger - n/a
* Sam Neff - n/a
* Nick Juelsgaard - No issues

Comments and extended discussion

Plan for coming week

* Kyle Fischer - research bluetooth and BLE protocols. Maybe find a demo to play with.
* Michael Linthicum - Expand 9 degrees of freedom program until MCUs arrive.
* Daniel Shauger - research audio codec implementation
* Sam Neff - examine peripheral requirements
* Nick Juelsgaard - Put together first draft of Project Plan

Summary of weekly advisor meeting:

Short meeting. Confirmed that parts are on their way.

Nick will be focusing more on documentation for the next week or two.