

EE 491 Weekly Report MAY15-23 Week 4 (9/22/14-9/28/14)

Advisors: Daji Qiao

Client: Halil Ceylan

Members (roles): **Brandon Wachtel, Tyler Fish (Team Communicators)**

Mitch Balke (Team Leader)

Brandon Maier, Johnnie Weaver (Web Masters)

Trieu Nguyen, Christofer Sheafe (Key Concept Holders)

Project Title: Wireless Embedded Roadway Health Monitoring

Weekly Summary

Advisor meeting was cancelled but Jeremy attended our weekly group meeting on Thursday. We discussed the next steps in the project such as finalizing our components and looking to build a prototype. We are hoping to have our parts picked out by the end of this week. Plan to finish Project Plan finished during our weekly group meeting coming this next Thursday.

Meeting notes:

Keep looking into frequency ranges

Look into transmitting 1 time a day instead of every time data is taken

Detailed project plan for next Friday

Timeline schedule for next Friday

Start dividing tasks up for each subgroup

Start ordering samples (get extras)

Possibly get a launch pad for MSP

Look into commercial off the shelf charger systems

Look into super/ultra capacitors and different battery types

OSH Park for PCBs

Tentative Schedule:

End of October, microcontroller and transmitter communicating

Board design by Thanksgiving

2 devices talking to one another by end of semester

9/19/14 Group Meeting with Advisors

Duration: 45 minutes

Members Present: All

Purpose and Goals:

The purpose of the weekly meeting was to get all of our group members on the same page for the project and discuss what we need to do for the following week. Met with Jeremy to discuss our progress so far and start finalizing ideas before we begin purchasing components.

Pending issues

Need to find a frequency for information transmission and charging

Finalize ideas on a battery type

Plans for next week

Finalize components/start ordering samples for basic prototyping (tentative)

Start designing PCB (tentative)

Create Detailed Project Plan

Create timeline for project

Plan to wear suits to weekly advisor meeting for photo in front of Coover

Individual Contributions (this week)

Johnnie Weaver: Attended group meeting (0.75hr),

research for weekly meeting (1hr), updated website

(1hr)

Brandon Wachtel: Attended Advisor Meeting (0.75hr),
researched different types of batteries (2hr)

Tyler Fish: Attended Advisor Meeting (0.75hr), researched
frequencies for communications (0.5hr)

Mitch Balke: Attended Advisor Meeting (0.75hr),
microcontroller component research (2.5hr),

Brandon Maier: Attended Advisor Meeting (0.75hr),
researched network algorithms (1hr)

Trieu Nguyen: Attended Advisor Meeting (0.75hr)

Christofer Sheafe: Attended Advisor Meeting (0.75hr),
researched RLC circuit design for charging (2hr)

Total weekly contributions (this week) for the project

Johnnie Weaver: 2.75 Hours

Brandon Wachtel: 2.75 Hours

Tyler Fish: 1.25 Hours

Mitch Balke: 3.25 Hour

Brandon Maier: 1.75 Hour

Trieu Nguyen: 0.75 Hour

Christofer Sheafe: 2.75 Hour

Total contributions for the project

Johnnie Weaver: 10.5 Hours

Brandon Wachtel: 10 Hours

Tyler Fish: 9 Hours

Mitch Balke: 15 Hours

Brandon Maier: 7.75 Hours

Trieu Nguyen: 6.5 Hours

Christofer Sheafe: 8.5 Hours