

# *EE/CprE/SE 491 Weekly Report*     *MAY1622 Week IX*

*Date* (10/28/15-11/3/15)

Advisors:        Daji Qiao  
Client:          Halil Ceylan  
Co-Advisor:     Christofer Sheafe ()  
Members (roles):

Shen Fu (Team Leader)  
Matt Rose (Team Communication Leader)  
Qichen Yan (Team Webmaster)  
Darnell Melvin (Team Key Concept Holder)

*Project Title: Wireless Embedded Roadway Health Monitoring*

## **Meeting notes**

10/30

- No meeting next week
- New goal to have first draft for board design done by 11/13
- Set up master repo and start Android app on Monday
- Use vias to save space on the board
- Look into minimum frequency required to print antenna on board
  - Or attach the antenna directly to board
- Think about how to attach battery
- How close can board components be to each other and to the edges of the board?
- Wires will burn if they are too thin - look at minimum width and make them slightly larger
- Choose a sensor
  - SHT71
  - SHT10

11/2

Team decided to all participate in the circuit design for two reasons: firstly, we can get the board done sooner if all group members participate, and then split up into our focus groups. Secondly, down the line when we need to make changes to the board, all group members will have a basic understanding of the design process so that anyone can make the changes necessary.

## *10/23/2015 Group Meeting with Advisors*

Duration: 1 Hour

Members Present: *All*

Purpose and Goals:

We talked mostly about the board design during this meeting, setting a goal to have the first draft of the design done by the 11/13.

## **Weekly Summary**

Parts have arrived and they are currently being stored in a locker in the senior design lab. We have set up a master repository on gitlab for the Android and embedded projects. This week, we'll write the second draft of the project plan.

## **Pending issues**

None

## **Plans for next week**

Next week, we plan to get most of the circuit design done as well as nearing completion of the Android app. We want to start testing the MCU with the breakout board, and start writing code to set up the MCU and its peripherals.

## **Budget**

N/A

## **Next Meeting**

11/5/2015 4:00 PM, Coover Senior Design Lab

## **Hourly Contributions**

Team (together): 5 hours

Matt: 4 hours

Shen: 4 hours

Qichen: 4 hours

Darnell: 4 hours