

EE/CprE/SE 492 Weekly Report 13 *MAY1622*

Date (1/11/16-1/25/16)

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 Network

Meeting notes

Thurs 1/21:

- Order antenna
 - order spare parts as well
- Daji - Reach out to civil department to see if they have sensors (Sensirion SHT10)
- Coordinate with civil dept to see whether they can help build enclosure
- By spring break, we should have a prototype of the board and system
- No advisor meeting this week
- Work on data acquisition and processing
- Figure out resistors and capacitors needed

Monday 1/25

- Elaborate testing procedures - what does it mean to succeed?
- Wireless network security - e.g. password protection between phone and base station?
- Formal presentation at week 10
- Get Zigbee receiver for base station - include in parts order
- Find Android/TI Zigbee library?
- Talk to Lee about 3D printing for enclosure
- Reach out to George if we need help with networking.

1/21/2016 Group Meeting with Advisers

Duration: 1 Hour

Members Present: *ALL*

Purpose and Goals:

The team caught up with the advisers and laid out a plan for the following months. We prioritized getting a physical board - rather, multiple - as we need to start assembling the board and begin testing.

Weekly Summary

Since the semester has started, we have been trying to find a way to expose the sensor to the concrete environment without destroying the delicate circuitry.

Pending issues

None

Plans for next week

Next week we plan on having much of the Android code done (for the smartphone and base station), having at least started the microcontroller code, and having made progress on the physical board layout.

Budget

N/A

Next Meeting

1/28/2016 2:00 PM, Coover Senior Design Lab

Hourly Contributions

Team (together): 5 hours

Matt: 4 hours

Shen: 4 hours

Qichen: 4 hours

Darnell: 4 hours