

EE/CprE/SE 492 WEEKLY REPORT 1

Feb 4th 2019 - Feb 10th 2019

Group number: 45

Project title: IoT environmental monitor

Client &/Advisor: Dr. Geiger

Team Members/Role:

Tyler Fritz – Software Developer,

Dong Xing – Hardware developer,

Ahmed Abuhjar – Hardware Developer,

Haoyue Ma – Hardware developer,

Yuanzhe Wang – Hardware Developer

o **Weekly Summary**

This week, we have met with our advisor to discuss further about the expectations and deliverables for our project this term. We scheduled a weekly one hour meeting with our advisor to discuss about the progress in our project.

o **Past week accomplishments**

Tyler Fritz: worked on setting up web server. Installed database software and laravel on our VM. Working on configuring the the previous senior design groups code to use the database.

Ahmed Abuhjar: Last week, I have created more substrates (10) that will form the base of our humidity sensors, and so we will be able to test our implemented protocol and functionality of the network communication between the sensor-nodes.

Dong Xing: Reworked on data transmitting part by checking and improving some codes on both web server and homenodes.

Haoyue Ma: Worked on the code for data transmitting to the web server. Tried to solve the issues we left last semester (APN and SIM) for the code testing.

Yuanzhe Wang: Reviewed what we did before the winter break.

o **Pending issues**

- We still need to work on the website or the web server, which is still not functioning properly.
- More humidity sensors needed to be made for testing purposes.
- We still need to solve some issues on data transmitting to the web server.

o Individual contributions

<u>NAME</u>	<u>Individual Contributions</u>	<u>Hours this week</u>	<u>HOURS cumulative</u>
Tyler Fritz	Started setting up our webserver and database. Installed required software on our VM.	3	3
Ahmed Abuhjar	<ul style="list-style-type: none"> Created substrates for humidity sensors. Contacted the advisor and planned for a weekly meeting schedule. 	3	3
Haoyue Ma	Debugged the code for transmitting data to the web server. Worked on issues we left last semester.	3	3
Dong Xing	Reworked some codes transmitting things, get some improvements compare with what we left the last semester.	3	3
Yuanzhe Wang	Reviewed what we did before and listed the unsolved problem.	2	2

o Plans for the upcoming week *(Please describe duties for the upcoming week for each member. What is(are) the task(s)?, Who will contribute to it? Be as concise as possible.)*

- **Tyler Fritz:** have web server set up and ready to recieved packets.
- **Ahmed Abuhjar:** Will complete making humidity sensors and will test them individually to make sure they're working as expected.
- **Haoyue Ma:** solve the connection issues between the homenode and the webserver.
- **Dong Xing:** Reworked on web server receiver codes in order to get better connections between itself and homenodes.
- **Yuanzhe:** Work on the code of data transmittion.

o Summary of weekly advisor meeting

Since this is actually our first time meeting the advisor this semester, (last week's meeting was canceled because of the bad weather issue) our group reworked on some issues what we left from the last semester based on our understandings and advisor's recommendations.