

Weekly Status Report 6

3/10/19 – 3/16/19

Senior Design Dec19 Group 16

Wireless-enabled Smart-Lights Hub Prototype

Advisor/Client - Manimaran Govindarasu

Team Members

Alex Beaver

Ryan Bush

Aaron Ramsey

Logan Zasada

Past Week Accomplishments

- Client/Adviser Meeting
 - Discussed new parts order
- Team Meeting
 - Decided who does what for design document
 - Gave progress reports for each module
 - Talked about the serverside progress
 - Talked about how far the relay-to-server system is
 - Talked about progress with Zigbee
 - Talked about new parts that need to be bought
- Outside of meetings
 - Created and sent new parts list
 - Continued to research Zigbee and Zigbee lights
 - Continued building server platform
 - Continued prototyping relay-to-server system

Weekly Adviser Meeting Summary

At our advisor meeting we realized we needed to order more parts for the interfacing between XBee devices to commence. We managed to get that order in and will hopefully get those parts by some time over spring break or just afterwards. We also did a photo shoot for the engineering college which was a new experience for all of us but enjoyable non the less.

Personal Contributions

| Name | Personal Contributions | Hours this week | Cumulative Hours |
|------------------|--|-----------------|------------------|
| Alexander Beaver | <ul style="list-style-type: none">• Worked on the python database CLI• Attended all meetings | 6 | 27 |
| John (Ryan) Bush | <ul style="list-style-type: none">• Take notes at different meetings• Continued research on how to interface XBee products• Sent in new parts list with necessary supplies | 5 | 32 |
| Aaron Ramsey | <ul style="list-style-type: none">• | 0 | 24 |
| Logan Zasada | <ul style="list-style-type: none">• Researched how to work with Zigbee• Found new methods of connecting to lights• Worked on creating one prototype for server-to-light | 6 | 26 |

Tasks in Progress

- Finish relay-to-server-system
- Finish and demo server and server interactions
- Come up with server-to-light block diagrams and a prototype

Pending Issues

- Zigbee is not easy to work with
- Need the XBee gateway (Hub) to connect with the Zigbee light (Which is AC)
- We're finding we need more parts than we have/originally thought
- Parts take a long time to arrive
- Some parts didn't get ordered when we asked them to be
- Don't always get a response from advisor when we reach out through email