

Weekly Status Report 10

4/14/19 – 4/20/19

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 methods to continue working on Zigbee
 - Gave progress reports with each module of the project
- Team Meeting
 - Divvied out the tasks for the project plan and final presentation
- Outside of meetings
 - Relay-to-Server
 - Flushed out server interface
 - Server
 - Created light database and table
 - Server-to-Light
 - Worked on RF Prototype to try to model communication from server to light with RF
 - Achieved communication between different XBee modules

Weekly Adviser Meeting Summary

This week, our advisor/client recruited another student to help out with the project. His name is Alex and he has much experience with Arduinos. With Alex's help, we will be able to speed up the project a bit. We also discussed how we will start to interface each of the different parts of the project and the design of the final light module.

Personal Contributions

Name	Personal Contributions	Hours this week	Cumulative Hours
Alexander Beaver	<ul style="list-style-type: none">• Created the light database and table• Attended all meetings	4	44
John (Ryan) Bush	<ul style="list-style-type: none">• Succeeded in communicating between zigbee modules• Met with Jiztom to work on zigbee communication and figure out how to set up final light module• Attended all meetings	6	54
Aaron Ramsey	<ul style="list-style-type: none">• Met with Alex to talk about server interface• Started learning mysql commands to update arduino code	5	43
Logan Zasada	<ul style="list-style-type: none">• Worked on RF Prototype	7	52

Tasks in Progress

- Working on final project plan and final presentation
- Relay-to-Server
 - Update Arduino code to work with mysql database
- Server-to-Light
 - Working on RF and Zigbee prototypes in parallel to discover which is the better route to go

Pending Issues

- Deadlines approaching, struggling to get stuff done
- Still struggling to get Zigbee to communicate