

Weekly Status Report 7

3/24/19 – 3/30/19

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
 - Client checked in with us and asked us if we needed anything
 - We worked on our projects in the lab while he was there
- Team Meeting
 - Discussed progress with each other
 - Worked on Design Document
- Outside of meetings
 - Relay-to-Server
 - Completed testing of Shift Register IC (parallel to serial conversion)
 - Sample code prepared for getting Shift Register output
 - Started investing Ethernet Shield for Arduino
 - Server
 - Continued work on the database program
 - Server-to-Light
 - Worked on getting Zigbee hubs to talk to each other
 - Tried to get something to connect to a light

Weekly Adviser Meeting Summary

This week's meeting was basically just a check in meeting. We wanted to make sure things are on track with the relays, the server, the Zigbee devices and the light.

Personal Contributions

Name	Personal Contributions	Hours this week	Cumulative Hours
Alexander Beaver	<ul style="list-style-type: none">Continued work on the database program	4	31
John (Ryan) Bush	<ul style="list-style-type: none">Worked on getting ZigBee hubs to talk to each other	5	37
Aaron Ramsey	<ul style="list-style-type: none">Wrote and edited design document sectionsCompleted Shift Register sample codeStarted Ethernet Shield investigation	6	30
Logan Zasada	<ul style="list-style-type: none">Worked on getting Zigbee hubs to talk to each otherTried to get something to connect to a light	7	33

Tasks in Progress

- Ethernet Shield testing
- Ethernet Shield Programming

Pending Issues

- Struggling to get any Zigbee communication to work
- Discovering that we need more parts than we have and we bought a couple incorrect parts