Weekly Status Report 8

3/31/19 – 4/6/19

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
    - Gave detailed update to client of each module's status
    - Showed client the finished design document
    - Discussed presenting to client/adviser on options for Zigbee
- Team Meeting
    - Since the team seems to be on pace for the server and the relay portion of our project, mainly Logan and Ryan met to work on zigbee interfacing
    - In our meeting with the graduate student who has experience with zigbee, we realized we will need to spend a couple of hours on this in order to figure it out so we have set up an additional meeting
- Outside of meetings
    - Relay-to-Server
        - No tangible accomplishments
    - Server-to-Light
        - Met with grad student to learn how to connect devices in Zigbee
        - Continued trying to connect Zigbee devices on our own

Weekly Adviser Meeting Summary

This weeks meeting took an emphasis on figuring out how to interface zigbee, since this seems to be the part of the project that is holding us back the most. We met with our Client/advisor Manimaran and Gelli and determined we needed some outside help to figure it out, so Manimaran set up a meeting with a graduate student who has experience with Zigbee.

Personal Contributions

Name	Personal Contributions	Hours this week	Cumulative Hours
Alexander Beaver	• Attended all meetings • Tried to help troubleshoot why the Zigbee devices would not connect	5	36
John (Ryan) Bush	• Met with grad student to learn how to connect devices in Zigbee • Continued trying to connect Zigbee devices on our own • Attended all meetings • Organize future meetings	6	43
Aaron Ramsey	• Attended Client Meeting • Researched ethernet protocol	3	33
Logan Zasada	• Met with grad student to learn how to connect devices in Zigbee • Continued trying to connect Zigbee devices on our own	7	40

Tasks in Progress

- Relay-to-Server
  - Learning how to work with Ethernet shield
  - Work with server team to establish interface protocol
- Server-to-Light
  - Learning how to communicate with lights
  - Discovering different methods of communicating between server and lights

Pending Issues

- Interfacing the different ZigBee devices