

Weekly Status Report 9

4/7/19 – 4/13/19

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
 - Each person updated client/team on their individual progress of past week
- Team Meeting
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- Outside of meetings
 - Began working on end of semester presentation
 - Tested Arduino Ethernet Shield

Weekly Adviser Meeting Summary

This week, we talked about what each individual member did over the past week. Aaron talked about his plans to continue working with the Ethernet shield and try to send some packets. Alex talked about how his progress went and his plans for the week. Ryan and Logan talked about what they learned meeting with Jiztom trying to get Zigbee to connect. In the meeting with Jiztom, they concluded that we needed different hardware to get modules to communicate with each other, so we then began discussing a new parts order. Logan brought up the possibility of creating an additional prototype to investigate communication methods other than Zigbee. Gelli asked for deliverables from Ryan and Logan of a description of each prototype and the parts needed.

Personal Contributions

Name	Personal Contributions	Hours this week	Cumulative Hours
Alexander Beaver	<ul style="list-style-type: none">• Attended all meetings• Discussed server-side things with Aaron• Began figuring out what language the web front-end should be coded in.	4	40
John (Ryan) Bush	<ul style="list-style-type: none">• Created schematic and parts list for Zigbee Prototype• Attend all meetings• Worked with graduate student who has experience with ZigBee	5	48
Aaron Ramsey	<ul style="list-style-type: none">• Discussed Server-side communications with Alex• Tested Arduino Ethernet Shield• Began Arduino code for server communication	5	38
Logan Zasada	<ul style="list-style-type: none">• Created schematic and parts list for RF prototype	5	45

Tasks in Progress

- Working on final Project Plan document
- Prototyping each module
- Working on end of semester presentation

Pending Issues

- Behind on server-to-light module which is resulting in us being behind on light charging stations development.
- Still trying to decide how we should put together the server-to-light module