Weekly Status Report 2

2/10/19 – 2/16/19

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
    - Continued Requirement Extraction
    - Discussed current system block diagram
    - Discussed current prototype idea
- Team Meeting
    - Recap what was learned in client/adviser meeting
    - Divvy out new tasks for continuing to work on project plan
    - Set new deadline for finishing plan and sending to client/adviser for approval
- Outside of meetings
    - Continued working on project plan

Weekly Adviser Meeting Summary

We went into the weekly meeting prepared with a plan to have a main arduino that would be used as a hub to communicate with all the other lights. At this point, we planned on having each light have its own Arduino. After discussing this with Manimaran, we decided that this is a slight waste of resources to be using an individual Arduino with every single light since all they need to do is be able to receive information on whether or not they should be lit. From there we clarified the plan and were given a good direction to go. The take-aways from the meeting were a slight block diagram change and that the light we are looking for may already exist, so we should do some research and see if we can find what we need for cheap. We decided on we only need 2 Arduinos for the hub that will communicate with each light, the 2nd Arduino is just in case the first one breaks.

Personal Contributions

Name	Personal Contributions	Hours this week	Cumulative Hours
Alexander Beaver	• Wrote/edited Project Plan document • Researched possible lights to purchase	5	10
John (Ryan) Bush	• Wrote/edited Project Plan document • Researched possible lights to purchase • Documented all meetings	6	10
Aaron Ramsey	• Wrote/edited Project Plan document • Created diagrams for system documentation • Created timeline for project	6	11
Logan Zasada	• Wrote/edited Project Plan document • Researched possible lights to purchase	5	11

Tasks in Progress

- Project Plan Document
    - Continued writing document
    - Working on editing and formatting
- Light module market research
    - Determining if lights currently exist that fit our needs
    - Performing decision analysis on lights we find
- Prototype design planning
    - Determining how the final system will work to come up with a plan for a prototype
    - Running ideas by client/adviser to see if we're on the right track

Pending Issues

- Finding lights that fit our requirements
    - Buying and testing these lights
- Get a solid plan made for the prototype