

Sprint 3 Report

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Class: Senior Design
Subject: Sprint 3 Report
Sponsor: L-3: June Alexander-Knight

Backlog

Completed

- ✚ Put Christmas lights on house for demo
- ✚ Film demo of Christmas lights blinking in sync to music
- ✚ Design display case for electronic components
- ✚ Have the display case made and assembled (went with pre-assembled case)

Remaining

- ✚ Program and configure Raspberry Pi to act as midi sequencer for lights
- ✚ Develop and implement iPhone app which controls the Christmas lights

Christmas Light Controller Progress

Austin Wentz

We made substantial progress on the Christmas light controller during Sprint 3. A display case was purchased to house the embedded hardware, I put up Christmas lights on my house, and a demo was filmed of the Christmas lights blinking in sync with music.

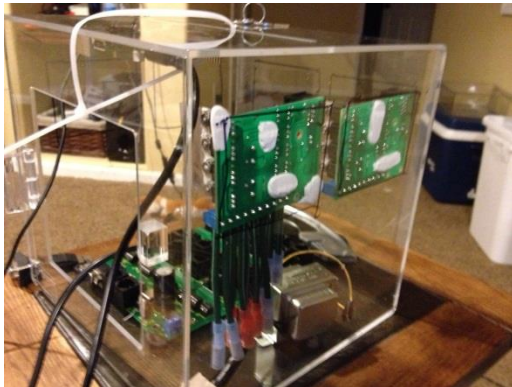
Display Case

Designing a display case and having it assembled was taking more time than originally anticipated, so we went with a premade temporary solution. An 8" x 8" x 8" acrylic display case, originally designed to be a ballot box, was purchased and modified. Before and after photos are shown below:

Before



After



Christmas Lights



iPhone App

Jordan Doell

Prototype

The prototype app GUI was primarily made during sprint 2, but some of sprint 3 was spent researching some more of how we want the app to look. Hopefully during Christmas break, some more progress will be made.

Also, more time was spent learning a little more about iOS. I'm still getting through the podcast class, so hopefully the app will begin gaining some functionality soon. James is putting the final touches on his framework, so as soon as he gets that finished, that will be put into the app as well. The communication between the iPhone and base station will probably be the biggest challenge to get working.