Biweekly Status Report #3

Group sdmay20-31

AUTOMATIC TRACKING OF ACTORS WITH INTELLIGENT THEATRICAL LIGHTING SYSTEMS

Week Summary:

During these last two weeks, we had a major set back with one of our chips breaking. We have ordered a new one which just got here in the last few days. We have been synchronizing our system parts to set up the system for our initial demo and see what is actually missing and how accurate the system is performing.

Past week accomplishments:

- Got the Wifi ESP8266 into flash mode and flashed both the wifi chip and localino
- Ordered and got a new board to replace the broken one.
- Got the spotlight to work with a stream of data
- Further analysis and testing for the provided software to implement our dmx functions in it.

Advisor Weekly Meeting:

We got the chance this week to meet up with our client as well as our advisor. We gave an estimated timeline for the project to be in a demo mood and being ready for testing in theater to make sure how accurate it is. We also got some direction in our final deliverables that the client wanted in the product.

Individual contributions:

- Joel Ohge - Continued to create the spotlight control python code, Created new functions for testings mock data
- Hassan Alhaddad - Working on trying to fix the broken chip and soldering it.
- Hassan Almohammedsaleh - Analyzing the localino software to connect our built functions for the DMX channels to the localino.
- Raed Albloushy - Flashed the localino software, Tested the localino system with his phone wifi

- Mouez Zayed - Soldering and flashing the new board to get up to speed with the rest of our system.

Pending issues:
- We are still working on the localization of the tag in reference to the other boards.
- The documentation of the board is no help, so we are still in contact with the company for better support.
- The provided software from the company keeps lagging and crashing and we are still figuring out why it is happening.

Name	Individual Contributions	Hours this week	Hours cumulative
Joel Ohge	Spotlight Programming And Testing	12	36
Hassan Alhaddad	Soldering and fixing the broken board	12	36
Hassan Almohammedsaleh	Software analyzation/ synthesis	12	36
Raed Albloushy	Flashing localinos and system setup	12	36
Mouez Zayed	Soldering Flashing localinos	12	36

Plans for the upcoming week:
- Having a working system that could at least give us an (x, y, z) coordinations from the localino system.
- Setting up a testing stage to see how effective the demo system is.
- Test the approximate accuracy and jitter of the 3D coordinates given by the localino
- Link the hardware and the software of the project.