

EE/CprE/SE 492 BIWEEKLY REPORT 6

11/6 - 11/19

Group number: 10

Project title: Holiday Arboreal Light Project

Client &/Advisor: Tom Daniels x 2

Team Members/Role:

Aaron - Raspberry Pi and Inter-process Communications

Rob - Android Developer

Rajiv - Web App Dev/Android Dev

Justin - Web App Dev

Michael - Image processing/data storage

Weekly Summary:

For this week we got a large portion of the communication channels figured out, which need to be implemented in the upcoming week. The LED manager code has all of the state frameworks implemented. The web server is now able to control the state of the LED manager code via the creation/deletion of the .lck files, as well as pass messages between the two.

Past Week Accomplishments:

Communication between android app and web server has been figured out, and is being implemented in the coming week. The android app can sequentially send images to the server after each of them have been taken. The LED manager can change between states being controlled by the web server and different pages on the server.

Pending Issues (if applicable):

Individual Contributions (optional but must include hours worked):

Name	Individual Contributions	Hours this week	Cumulative hours
Aaron	Completed framework for the tree state machine, worked out the implementation of communication between web server and LED manager	6	39
Rob	Added a function in the android app to send a sequence of images after they have all been taken	6	40
Rajiv	Created lock files for calibration and other features	6	36

Justin	Successfully create and change lock file states for updating patterns from web app.	6	37
Michael	Completed the code to take LED position values from images of tree sides and calculating the corresponding polar value.	6	32

Comments and Extended Discussion (optional):

Plans for Upcoming Week:

Name	
Aaron	Turn strand.py into a class that can be imported into the led manager code, and get the communication for light values working.
Rob	Add method to request a certain LED to be lit, then take a picture and immediately send it to the web application.
Rajiv	Need to work on sending picture from android application to web server
Justin	Work on pattern file creation for preset patterns.
Michael	Complete the code described above with a more fluid analysis and display of information and possibly start working on mapping the polar cords.

Summary of Weekly Advisor Meeting: