492 - Group 11

Auto Window Blinds

Week 4 Report

9/17-9/30 Client: Lee Harker Faculty Advisor: Lee Harker

Team Members:

Andrew Deick - Front-end Software Lead Caleb Townsend - Hardware Lead Daniel Andrews - Team Lead Hieu Nguyen - Communication Lead Jacob Nett - Back-end Software Lead Logan Shada - Design Lead

Past Week Accomplishments

- Frontend Backend Connectivity Jacob
 - Research into making http request in nodejs
- Frontend Andrew & Daniel
 - Work in Authentication Services
 - Implemented Prototype with GitHub single-sign on
 - Research into using Google or Okta SSO
 - Location Services
 - Testing on location accuracy
 - Working to integrate into frontend html/js
- Hardware HW team Logan, Hieu, and Caleb
 - Re-built prototype
 - Wiring/connection problem unknown
 - Need to fix wiring problem so first prototype will work again
 - Found parts and ordered them
- Ordered parts Caleb

- Step motor
- Shaft encoder
- \circ Step motor controller

Pending Issues

- Authentication Implementation
- Long-term battery
- Fix prototype
- Ki-cad design for PCB

Individual Contributions

Team Member	Contribution: description of what you did (last 2 weeks)	Last 2 weeks (hours)	Total (hours) Since 9/5
Daniel Andrews	 Location Service Testing Location Service Integration Setting/organizing team meetings 	10	20
Andrew Deick	 Learn details of oauth Implement GitHub Authentication Research Google and Okta setup 	12	22
Jacob Nett	Precision motor researchHTTP on js research	10	22
Hieu Nguyen	 Got COVID the first week and half didnt do anything PCB board research and design 	5	15
Logan Shada	 3D model creation and printing Determined stepper motor to use Determined precision rotation measurement device to use with shaft Helped to find stepper motor driver 	10	19
Caleb Townsend	 Researched and ordered parts including shaft encoder, stepper motor, and stepper motor controller More TLA research time Spent time with old model remembering how it works and goes together 	5	12

Plans for coming weeks

- Location Service implementation
- Test current prototype
- Find new parts (motor, control, battery, etc.)
- Work with ordered parts as they arrive
- Work on PCB design