

EE/CPRE/SE 491: sddec22-11

Mini Retrofit Blind Controller

Weekly Report #7

Start date: March 20 - March 27

Client: ECPE

Faculty Advisor: Lee Harker

Team Members:

- Daniel Andrews - TEAM LEAD
- Andrew Deick - Front-End Software LEAD
- Jacob Nett - Back-End Software LEAD
- Hieu Nguyen - Communication LEAD
- Logan Shada - Design editor, Hardware director, Team overlap connection
- Caleb Townsend Hardware Lead and Maintenance Lead

Weekly Meeting time (decided):

- Team Meeting:
 - Monday: 9:55 AM - 10:50 AM
 - Friday: 9:55 Am - 10:50 AM
- Individual Hardware and Software meeting:
 - Thursday: 2:10 PM - 3:10 PM
- Advisor Meeting: (bi-weekly)
 - Monday: 9:55 AM - 10:50 AM

Weekly Accomplishments:

- Test unit built
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Pending Issues:

- Authenticating users via software
- State Management
- ci/cd not working

Upcoming Tasks:

- Arduino programming
- Speed test to determine rates for motor control

Individual Accomplishments:

Team Member	Contribution: description of what you did	Weekly hour	Total hour
Daniel Andrews	<ul style="list-style-type: none"> • Work with login • Research into sending signals to arduino 	4	36
Andrews Deick	<ul style="list-style-type: none"> • Research into state management (ie Redux) to see how it will interact with security/authentication. 	4	42
Jacob Nett	<ul style="list-style-type: none"> • Worked to fix cicd autodeploy still not working • Receive arduino device • Downloaded arduino ide and research library required for wireless control (WifinINA) • Research into device data sheet pins required for device movement 	6	41
Hieu Nguyen	<ul style="list-style-type: none"> • Research on battery and making order list • Went to lab, and sorting part order. 	5	31
Logan Shada	<ul style="list-style-type: none"> • Rewiring connections between motor units, speed controllers, and batteries • Constructing blinds • Sorting new parts 	5	36
Caleb Townsend	<ul style="list-style-type: none"> • Researched tubing for connection • Took a part screwdrivers • Sorted and analyzed parts • Brainstorming design approaches with parts 	5	25

Going to try a tubing connection: three options: 7mm, 8mm, or 9mm.

https://www.freshwatersystems.com/products/8mm-od-ldpe-polyethylene-tubing?variant=13266990858283&c1=GAW_SE_NW&source=PLA_USA_SS&cr2=shopping_-_nw_-_smart&kw=13266990858283&cr5=&cr7=c&utm_source=PLA_USA_SS&utm_medium=cpc&utm_term=13266990858283&qclid=CjwKC_AjwloCSBhAeEiwA3hVo_b8pumYHa-m7j2dgDIDRQ3OhsxNLL3aCfsLMYWX48Xr7OxGR-ZlrwhoCT2MQAvD_BwE

