

# EE/CPRE/SE 491: sddec22-11

## Mini Retrofit Blind Controller

Weekly Report #10 - & SEMESTER summary

Start date: April 11 (Monday), 2022- May 6th (Friday), 2022

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

### Accomplishments:

- Test code for UDP packet receiving for arduino
- Prototype from Server to blinds.

### Pending Issues:

- Ordering new parts
- PCB design learning

### Upcoming Tasks (next semester):

- Implement authentication
- Implement location services
- Fix Back-End
  
- Make PCB via KiCad
- Implement in TLA (put into box, use velcro)
- (optional) Solar charging capability

### Ordering

- Tubing arrived (3/8th and 5/16th)

- New additional mini microcontroller arrived

### Individual Accomplishments:

Team Member	Contribution: description of what you did (last 4 weeks)	Last 4 weeks (hours)	Total (hours)
Daniel Andrews	<ul style="list-style-type: none"> <li>• Helped with HTTP requests on back and on front end</li> <li>• Helped prepare for demo/presentation</li> <li>• Organized team meetings</li> </ul>	5+5+7+10 = 27	72
Andrew Deick	<ul style="list-style-type: none"> <li>• Created HTTP requests for the Front-End, researched Back end, and troubleshooting back end</li> </ul>	4+4+7+8= 23	71
Jacob Nett	<ul style="list-style-type: none"> <li>• UDP motor control code.</li> <li>• Controller to Arduino code</li> </ul>	5	75
Hieu Nguyen	<ul style="list-style-type: none"> <li>• Motor testing</li> <li>• Testing motor connect to blind for presentation</li> <li>• Did some work on pcb</li> <li>• Run around trying to find the missing part/ order / tubing.</li> <li>• Wiring prototype HW component.</li> </ul>	6+6+6+8= 26	70
Logan Shada	<ul style="list-style-type: none"> <li>• Prototype testing</li> <li>• Wiring in components</li> <li>• Material research for housing</li> <li>• Looking into the preferred PCB creation software</li> </ul>	5+6+6+5= 22	68
Caleb Townsend	<ul style="list-style-type: none"> <li>• Putting prototype HW components together</li> <li>• Testing different connections from motor to blinds</li> <li>• Supporting team members</li> </ul>	5+6+6+5 =22	59