

EE/ CprE 491 – ssddec18-19 Weekly Report

11/19/18 – 12/2/18

Group number: 19

Project Title: Design and Implementation of a small scale standalone Hybrid Solar PV and Wind Energy Generation System

Client & Advisor:

Venkataramana Ajjarapu

Team Members/Role:

Christopher Goodrich: Circuit Design Lead

Taylor Mullen: Testing Engineer

Kenny Nguyen: Webmaster/Circuit Design Engineer

Damon Stubbs: Software Lead

Andrew Wassenaar: Team Leader

Past Week Accomplishments:

- **Finished Resistor Box**
- **Finished Enclosure for Overall Circuitry**
- **Created and Finished Poster**

Pending Issues/Finishing Touches:

- **Rewiring of Enclosure**
- **Lamination of Poster**
- **Updating and finishing Website**
- **Start final documentation**
- **Start final presentation and prep**
- **Focus on validating circuitry and testing overall system for results**
- **Create folder that encompasses all material used for senior design, allows for future students to understand the design process and how every component works.**
 - **Includes cost analysis of overall implementations**
 - **Schematics of circuitry**
 - **Final documentation**
 - **Literature material used**
 - **Schematics of components in circuitry**
 - **Simulation, Simulink, and Arduino codes**
 - **Previous groups work and documentations**

Individual Contributions:

Name	Individual Contribution	Hours this Bi-Week	Cumulative Hours
Christopher Goodrich	Finished the enclosure and moved to rewiring the circuit. I worked with Taylor to finish mounting everything into the new enclosure, and developed a plan for wiring. The next two weeks we are going to finish wiring, help with testing and have everything done for our presentation.	30	140
Taylor Mullen	Helped Chris with getting everything mounted in the display box and finished the poster and getting it ready for display and will continue to help Chris with getting everything rewired as well as helping with testing for the next week or so.	25	97
Kenny Nguyen	Helped Drew finish the resistor box and started working on final documentation. Will continue to work on final documentation and finishing up the website. Will help create final presentation and prepare folder for all material used in this senior design, and previous groups documentation to send to Professor Ajarapu. Will help test circuitry by going through lab manual and validate results.	30	131
Damon Stubbs	Worked on finding an enclosure for the new display. In the future I will work on coding the new Arduino to find compatibility issues and fixing them.	15	105
Andrew Wassenaar	Worked with Kenny to complete the resistor box load. Also working with Kenny to finish	30	141

	final documentation. Will present final solutions both to Professor Ajarapu and to the industry review panel this week. Also will test final circuitry to ensure accurate results		
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