

EE/ CprE 491 – ssddec18-19 Weekly Report

3/27/18 – 4/3/18

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: Reasearch Engineer

Taylor Mullen: Testing Engineer

Kenny Nguyen: Testing Engineer

Damon Stubbs: Research Engineer

Andrew Wassenaar: Team Leader

Past Week Accomplishments:

- Reviewed lab and notice some issues that were present.
- Were unable to have the solar panels moved to the roof.

Issues:

- Due to coming back from spring break and meeting time is only on Monday, Group could not meet with professor due to conflict with a review session professor had for a course.

Individual Contributions:

Name	Individual Contribution	Hours this Week	Cumulative Hours
Christopher Goodrich	Developed a proposal of other options that could be done to improve the power output of solar panels and considered possible additions of new panels. Took pictured of name plates on solar panels.	6	36
Taylor Mullen	Continue to look into lab problems and think of possible solutions	2.5	26

Kenny Nguyen	Continued review of lab and notice re-occurring problems with lab setup and values obtained by the lab	3	28
Damon Stubbs	Researching problems with lab and possible reasons for them. Brainstorm solutions and possible design ideas	3	27
Andrew Wassenaar	Looked further into the idea of a model house variable DC resistive load. Tested existing power resistors and determined none have a high enough rating to be directly placed into our design	6	33.5

Plans for coming Week:

- Continuation of reviewing and experimentation with lab components.
- Make note of problems that persist in lab and notify professor of findings.
- Create plan to fix problems and learn about how to fix those problems if no one had any experience with components that needed to be fixed.