

EE 491 Weekly Report MAY15-21 Week 3 (9/22/14-9/28/14)

Advisors: Venkataramana Ajarapu

Client: Venkataramana Ajarapu

Members (roles):

- Daoxi Sun- *web master*
- Riley O'Connor- *team leader*
- Trevor Webb-*communication leader 1*
- Shihao Ni
- Xiaokai Sun- *communication leader 2*
- Ben Ryan- *concept holder*

Project Title: Hybrid Solar Wind Generation System

Weekly Summary

The main goal this week was to create a first model of our design in Simulink. The solar team and wind team each began separate models, and once each model simulates the way we want it to the two will be put together for one comprehensive model.

Also our entire group was able to meet with our advisor and his grad student. They looked over what we had done so far and gave us some helpful advice for moving forward. Then they tasked us with having more complicated models to show them next week.

Meeting notes:

General Notes

- I. Present solar material and wind material to our advisor
- II. Focus on simulation over hardware
- III. Saw the equipment that we will be working with

9/25 Group Meeting with Advisors

Duration: 60 min

Members Present: All

Purpose and Goals:

Present relevant background information over our project to both our advisor and our fellow group members. The solar team presented for the wind team and the wind team demonstrated for the solar team. The solar team was also able to show the results of a basic matlab simulation.

Achievements:

As a group, we developed a better understanding of each side of the hybrid solar and wind power generation project. We met in the lab and were able to see the equipment that we will be working with.

After seeing how much we understood about the project and how much we were able to simulate the advisor was able to give us useful advice for moving forward. His grad student also pointed us in a good direction for finding help with simulation in Simulink.

Pending issues

1. Simulating the solar generation and wind generation aspects in Simulink.

Plans for next week

1. Wind team: (Ben, Xiaokai, Shihao) will meet to begin work on wind simulations
2. Solar team: (Riley, Daoxi, Trevor) will meet to advance work on solar simulations
3. Each team will also develop results that can be presented at our next meeting with our advisor and his grad student.

Individual Contributions(this week)

Daoxi Sun: 3

- Attended meeting with advisor and mentor and research. Work on solar simulation

Riley O'Connor: 4

- Attended meeting with advisor and mentor and research. Work on solar simulation and began organizing the project plan

Trevor Webb: 3.5

- Attended meeting with advisor and mentor and research. Work on solar simulation and updated/edited project report 4

Shihao Ni: 3

- Attended meeting with advisor and mentor and research. Work on wind simulation

Xiaokai Sun: 3

- Attended meeting with advisor and mentor and research. Work on wind simulation

Ben Ryan: 4

- Attended meeting with advisor and mentor and research. Work on wind simulation and began organizing the project plan

Total contributions for the project

Daoxi Sun (6 hr) ,

Riley O'Connor (7 hr)

Trevor Webb (6 hr)

Shihao Ni (6 hr)

Xiaokai Sun (6 hr)

Ben Ryan (7 hr)