

EE / CprE / SE 491 - sddec24-21

CdSe Solar Cell

Week 1 Report

Jan 23rd – Feb 6th

Client: Vikram Dalal

Faculty Advisor: Vikram Dalal

Team Members:

Payton Bills – Team Lead | Client Interaction

Anders Peterson – Client Interaction | Component design

Michael Thomas – Individual Component Design | Testing

Drew Jensen – Individual Component Design | Testing

Jacob Steffens – Simulation research | Research aid discovery and distribution

Jonathan Timm – Simulation research | Simulation testing

Past Week Accomplishments

This week was spent doing individual research, setting up our team/client meetings, doing group research (via EE 590), and gaining a better understanding of what we need to know in order to proceed with the project.

- Determined group roles
 - Held our first team meeting and set a weekly meeting time with our client
 - Created and signed a team contract
 - Began sitting in on an additional course as a supplement to our research
 - Determined our main semiconductor for the solar cell to be CdSe
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Pending Issues

For now, our immediate issues at hand include completing our first meeting with our advisor to help us get some initial questions answered.

- Client meeting this week
- Get a clear understanding of what concepts are most important to least important to know at this time
- Get a better understanding of how in-depth this project will be and a rough understanding of time requirements to meet our deadlines

Individual Contributions

Team Member	Contribution	Weekly Hours	Total Hours
Payton Bills	EE 590 Lecture, Team Contract, Research and Team meeting.	8	8
Anders Peterson	EE 590 Lecture, Team Contract, Client interaction, Team Meeting	7	7
Michael Thomas	Team Contract, weekly meeting, attended EE 590 lecture, personal research, created a weekly report template, and created an Excel sheet for sharing research resources & websites.	11	11
Drew Jensen	EE 590 Lecture Attendance, Team Contract, read book on solar cells for research.		
Jacob Steffens	Team Contract, and personal research: Solar Cell operation @ pveducation.	7	7
Jonathan Timm	Team contract, weekly meeting, personal research, began researching semiconductor/solar cell simulation tools	8	8

Plans for Coming Week

Over the next week, we plan to further our understanding of the main concerns and lay out the fundamental knowledge we may need to succeed.

- Weekly team & client meetings
 - Get a baseline for what we need to research initially and split the concepts up among the team
 - Find and share research resources among the team
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Gitlab Activity Summary

Nothing to report.
