

EE 492 Weekly Report 1

Title: Development of a strain visualization microsensor based on Moiré fringes

Week 1: August 17 - August 31

Team Members: Christian Tanberg, Matthew Thies, Ki Jun Shin and Parvaraj Bhatt

Client & Advisor: Dr. Long Que

Summary of the Progress:

To start this semester we met to discuss how we plan to communicate and divide up tasks with some of our members working online. We decided that we would have a team meeting once a week through discord to discuss what we are working on and if we needed any help. We also contacted our technical advisor Dr. Long Que, to see how our project changed with the switch to an online format. Our advisor informed us instead of building the moire fringe filter in a lab we were going to build and simulate the filter through matlab. Due to the switch our team members have spent the last week practicing and learning how to use the simulator to build the moire fringe filter.

Pending Issues:

Christian Tanberg: None

Kijun Shin: None

Matthew Thies: None

Parvaraj Bhatt: None

Individual Contributions:(Individual)

Name	Contribution	Working hours	Total Hours
Project Manager: Christian Tanberg	This week I experimented with the matlab simulator, so I can have a better understanding of how to make the filter on matlab. I also worked on an updated calendar for the rest of the semester so our team can stay on track	7	7
Research Lead: Ki Jun Shin	Studied about the matlab simulator to get an idea of what we will work for this semester and watched some of the examples by using the simulator.	6	6
Test Engineer: Matthew Thies	Worked with the simulator in MATLAB. Went in depth on how to manipulate the Moire fringes to get certain patterns.	6	6
Design Engineer: Parvaraj Bhatt	Emailed the professor, experimented with the matlab simulator to get an understanding of it	6	6

Future Plans

1. Christian Tanberg: In the future I plan to finish up the calendar for the rest of the semester and share it with my group. I also plan to build the filter on Matlab next week so we can start running simulations.
2. Parvaraj Bhatt: I will set up a meeting in the upcoming week with the team and our adviser to discuss what will be the deliverables for this project
3. Kijun Shin: For the near future, I will make sure to let all members understand the concept of our filter and matlab simulator.
4. Matthew Thies: I will continue to learn about the simulator and try to create a pattern we will eventually use for our project.