

Senior Design Weekly: Status Report 1

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

Week 1: Report January 13 - February 2

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

Client & Advisor: Dr. Long Que

Summary of the Progress:

So far, our group has met with our advisor (Long Que) to discuss the overall scope of our project, so we could better understand the nature of what's required. After our meeting with our advisor, we had a team meeting to discuss the individual roles of each of our group members. After determining what tasks each person is going to do we started researching each task.

Pending Issues: 1. Due to the business of our schedules we are having issues determining set work days to work together. 2. Most of our group members have little to no experience working with Moire fringes.

Individual Contributions:(Individual)

Name	Contribution	Working hours	Total Hours
Project Manager: Christian Tanberg	1: Contacted group members, set up group meeting and set up meeting advisor (Long Que) 2: Read "On the Industrial Applications of Moiré and Fringe Projection Techniques" this paper described how moire fringes are used in current industries. 3: Watched a video over how Moire Fringes can be made using everyday objects	3	3
Research Lead: Ki Jun Shin	1. Watched a video about "a strain visualization microsensor". 2. Read articles about Prototype strain microsensor & Moiré Fringe. 3 Communicated with team members about further details for our project plans.	3	3

Test Engineer: Matthew Thies	1. Read and distributed articles about the relation between microsensors and Moiré Fringes. 2. Watched videos regarding contemporary microsensor technology.	2	2
Design Engineer: Parvaraj Bhatt	1. Read a report titled "Moire Fringes in Metrology" to understand how measurement is used with moire fringes 2. Watched a video on how to create moire patterns	2	2