Senior Design BiWeekly: Status Report 2

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

Week 2: Report February 3 - February 16

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

Client & Advisor: Dr. Long Que

Summary of the Progress: Over the last two weeks, we met with our advisor to discuss what he wanted the final product to look like. We then met as a group a couple of times and assigned jobs associated with our roles. Our advisor gave us an article to read to understand how to use moire fringes. We read other articles and watched videos on moire fringes to get a complete understanding so that we can come up with ideas for our design of the strain visualization microsensor.

Pending Issues:

Christian Tanberg: Logistics regarding the microsensor such as the design specifications

Kijun Shin: None

Matthew Thies: None

Parvaraj Bhatt: None

Individual Contributions:(Individual)

Name	Contribution	Working hours	Total Hours
Project Manager: Christian Tanberg	Read articles given to us from our advisor (Long Que). I also spent time brainstorming microsensor designs for our project.	4	7
Research Lead: Ki Jun Shin	Read articles that were assigned to us by our supervisor, Dr.Long Que. Spent extra hours understanding Structure of strain visualization Sticker.	4	7
Test Engineer: Matthew Thies	Read articles given to us by our project advisor, Dr. Long Que. Also read articles and watched videos about microsensors to better understand microsensor design.	4	6
Design Engineer: Parvaraj Bhatt	Read the article that was sent by Dr. Long Que. Spent time watching microsensor videos to help come up with possible designs	4	6

Future Plans

1. Continue brainstorming design ideas for the microsensor
2. If plan above is viable, then start sketching microsensor
3. Discuss methods of testing