

## EE/CprE/SE 491 WEEKLY REPORT #6

August 2019 - May 2020

Group number: 30

Project title: Building a 3D Micro-Manufacturing System using Digital Micromirror Device.

Client &/Advisor: Meng Lu

### Team members:

Tong Di - Software

Di Meng - Hardware

Yu Cheng - Hardware

Shengpu Zou - Hardware

Haolun Ping - Software

### Weekly Summary:

We get 4 samples with a single layer produced by lithography. And the team have a discussion about the final presentation and prepare for it.

### Past Week Accomplishment:

- Test 2-D photolithography with AZ-5214 and curable polymer.
- We done optical experiments and try to align UV.

### Pending Issues:

- The process of lithography is a long process (4.0 mw/cm<sup>2</sup>)
- We can't not use the "LabVIEW" created by ourselves to operate the motorized stage.

### Individual Contributions:

Name	Contribution	Weekly Hours	Cumulative Hours
Tong Di	Learning on "LabVIEW" and prepare for the final presentation.	7	43
Di Meng	Find the place to machining the designed model and prepare for the final presentation.	7	43
Yu Cheng	Find the place to machining the designed model and prepare for the final	7	43

	presentation.		
Shengpu Zou	Operate the projector to produce simple product and find the areas for improvement.	10	50
Haolun Ping	Keep learning on "LabVIEW", write paper works for the senior design and prepare for the final presentation.	7	43

**Plans for the upcoming week:**

Tong Di - Prepare for the presentation.  
 Di Meng - Prepare for the presentation.  
 Yu Cheng - Prepare for the presentation.  
 Shengpu Zou - Prepare for the presentation.  
 Haolun Ping - Prepare for the presentation.

**Summary of weekly advisor meeting:**

Dr. Lu suggests we add a pair of lenses in front of the projector improve the light intensity. And he also suggests we make full use of the winter break to prepare for the works in the next semester.