

EE/CprE/SE 491 WEEKLY REPORT #1

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:

The major task of this week was to obtain hardware from TI, we purchased a new projector for setting up the 3D lithography printing platform. Additionally, my team started the first meeting with our advisor Dr. Lu to understanding how our final design will work. Due to lack of background knowledge of lithography, we are offered by Dr. Lu a few articles and visible diagrams to get familiar with it. For now, we have completed these two tasks well, my team has got the new projector and we have a good understanding how to set up the platform as well.

We also were suggested by Dr. Lu to split our task to small pieces. In the first week, we will focus on hardware issue instead of software. Because we are going to set up the light source firstly in next week.

Past Week Accomplishments:

- Lightening talk
- Reflection
- Weekly report 1

Pending Issues:

- documenting our ideas in paper.
- Getting familiar with solid work.
- How to cover the new projector economically.

Individual Contributions:

Name	Contribution	Weekly Hours	Cumulative Hours
Tong Di	Researching how the 3D printer work by YouTube.	8	8
Di Meng	Researching how the 3D printer work by YouTube.	8	8
Yu Cheng	Researching how the 3D printer work by YouTube.	8	8
Shengpu Zou	Communicating with clients and advisor to talk about our initial preparation and following progress. Researching how the 3D printer work by YouTube.	10	10
Haolun Ping	Researching how the 3D printer work by YouTube.	8	8

Plans for the upcoming week:

Tong DI – writing the homepage for the 3D printer and setting up the driver of the new projector.

Di Meng – getting familiar with solid works and build a simple 3D box model.

Yu Cheng - getting familiar with solid works and build a simple 3D box model.

Shengpu Zou – Decomposed the new projector and replaced the light source with UV.

Haolun Ping – Writing the homepage for the 3D printer and setting up the driver of the new projector.

Summary of weekly advisor meeting:

Dr. Lu offers a few materials for our project, and we also do own research on how to build a 3D Micro-Manufacturing System using Digital Micromirror Device. After all, my team members exchange information each other.