

## **EE/CprE/SE 491 WEEKLY REPORT #4**

**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 disassemble the projector and change the light source to the UV light LED source. When we do some tests based on the UV light source, we meet some problems. Since we change the light source, the size of the models that are used to cover the projector is changed, so we need to design new models to cover the projector.

### **Past Week Accomplishment:**

- Disassemble the projector, and change the light source.
- Assemble the projector, and test the new light source.
- Design the models to cover the projector(Before changing light source).

### **Pending Issues:**

- After we change the light source, we find that the light intensity is very weak after it comes out from the projector.
- After we change the light source, it's difficult to focus.
- The software "LabVIEW" is still a big issue.

### **Individual Contributions:**

Name	Contribution	Weekly Hours	Cumulative Hours
Tong Di	Use the driver to operate the motorized stage	7	29
Di Meng	Use "SOLIDWORKS" to design new models to cover the projector.	7	29
Yu Cheng	Use "SOLIDWORKS" to design new models	7	29

	to cover the projector.		
Shengpu Zou	Adjust the projector, and find the problems after we change the light source	7	33
Haolun Ping	Adjust the projector. Keep learning “LabVIEW”	7	29

**Plans for the upcoming week:**

Tong Di - Keep learning on “LabVIEW”, and find how to drive operate the motorize stage by “LabVIEW”.

Di Meng - Design the new model to cover the projector.(make sure the size is suitable)

Yu Cheng - Design the new model to cover the projector.(make sure the size is suitable)

Shengpu Zou - Find the solutions to solve the light source issue.

Haolun Ping - Keep learning on “LabVIEW” and help adjust the projector.

**Summary of weekly advisor meeting:**

Dr. Lu suggests to us the original light source to check whether the light intensity is strong enough, make sure the projector can be used as quick as possible.