

Peer Evaluation Report

Team sdmay20-30

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We received questions/ideas/suggestions/feedback from team13, team 44, team 33. The following are the team comments.

Team 30:

1. Some of the concepts were hard to understand, but that's likely because we're unfamiliar with the topic and terms. We should recommend having a few more pictures or diagrams of the parts of the project so that they can be seen while you talk about them.

Answer: Thanks for your suggestion, some of the concepts are the new concepts for us, we will provide some background information before the presentation. And we will also add more pictures as you suggested.

2. What are the desired numbers for efficiency/accuracy?

Answer: We are not sure about the desired numbers for efficiency, because 3D printing needs a lot of time, so we will not consider efficiency in our project. But for accuracy, we would like to say, it's the nano-meter level.

3. Having someone spell/grammar check would be good.

Answer: Thanks for your suggestion. All the members in the team aren't native English speakers, so we will make some mistakes on spell/grammar. But we will try our best to avoid those issues.

Team 13:

1. What experience/knowledge did your team have going into this project about lithography and 3D printing? What resources did you use in any research you may have done?

Answer: We need knowledge on semiconductor materials and devices, semiconductor fabrication, and programming. We use the resources which are the datasheet of the device, and some articles were given by our advisor.

2. In potential risks and mitigation, one of the risks is that the "system is fragile" with your mitigation being "build stable frame structure". How will frame structure be made in a way that it is stable?

Answer: We design some boxes and frames which would be used to protect and place the device in the system. The boxes and frames will make the system stable.

3. Have there been difficulties in using the MP285 and DLP4500 in Labview? If so, what were they and how did you solve them?

Answer: Using MP285 and DLP4500 in Labview individually is not difficult, but letting these two devices work together is difficult. We need to re-programming the code to make sure the MP285 can receive information from DLP4500 and respond.

Team 44:

1. Are there other similar products as this? If so, what does your project do differently?

Answer: There are other similar products, but we use different materials in 3D printing. We may use different ways to create patterned light sources.

2. Do you have any timing or accuracy requirements?

Answer: We are not sure about the desired numbers for efficiency, because 3D printing needs a lot of time, so we will not consider efficiency in our project. But for accuracy, we would like to say, it's a nano-meter level.

3. How long does it take for the printer to print out a circuit ?

Answer:

It cannot print the circuit because the material we use is resin only.