521159P PRINCIPLES OF DIGITAL FABRICATION

Group DIGIFAB6 - FANCY MECHANICAL FLOWER

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SUMMARY REPORT

- Wrap up of the project.
- Lesson learned.
- Feedback to course responsible.

Describe the elements of your final artifact and how they were produced (who has done what, how has been produced: what software, hardware, equipment, processes, practices have been employed).

Illustrate the process, steps, intermediate and final results with pictures and videos.

Add links to the source files. All the source files should be stored in the repository.

Add links to binary files (if they are created) and store the binary file in the repository.

Add the presentation file (e.g., the power point file) and the link to it.

SUMMARY

Wrap up of the project.

The project is finished on time and meet all the expectation from own group.

The mechanical flower made by 3D printing Formlabs Form 2

https://github.com/kotobuki09/521159P-Principles-of-Digital-Fabrication---DIGIFAB6/tree/master/FlowerMechanical

The control part is managed by Arduino UNO with code function through this link

https://github.com/marsukhongduoi/DigitalFabrication

The presentation for midterm and final project can also find over here:

https://github.com/kotobuki09/521159P-Principles-of-Digital-Fabrication---DIGIFAB6/tree/master/Presentation

Some picture and video related to working process. Every also can find in Document Pages:

https://sites.google.com/view/pdf-flower-project/home

Lesson learned

All the progress has been reported in the Documentary Page and also all the file and sources which we are used also including in repository in GitHub.

From all the sketch, we are looking for all the sources and material which is required to build own product. We have learned all the steps from the design paper to finish final product. Each member of own group had different study background, which lets own group have different perspective and advantages. After going through the project, we are learned how to work together to achieve the same goal.

Throughout the courses, we also learn more about all the current technology and Fab Lab Oulu. This is the cool place to explore and learn at the same time. We also study some basic knowledge in the different areas, such as Electronics, Schematic and Layout design, PCB broad, 3D design and printing, 2D design and Embedded programming basics.

Feedback to course responsible

The principle of Digital Fabrication is really essential course for students in a different background, who want to learn and get involved with technology field. This course will encourage more and more people fell technology is something fun and useful at the same time to discover.

Each year, we feel like the course may choose some theme such as education, mobile, etc. The course can teach and discuss more about that part, and it also leads each group idea to close to each other. Through that, we can learn from each group to make a better product in the future.