



521159P PRINCIPLES OF DIGITAL FABRICATION

Group DIGIFAB6 - FANCY MECHANICAL FLOWER

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INTRODUCTORY REPORT

In the introduction part of your Documentation Page you should describe the concept of your prototype. Note that this section should describe your starting point. Even if you end up making something entirely different, this section should document your initial idea. This section should contain the following information:

- Short description of the concept
- Description of how you arrived at your design
- Other options you considered while deciding on your design
- Design sketches
- Bill of Materials: List of electronic components you need for your project.

Length: between 100 - 250 words + min 1 picture showing design sketches.

SHORT DESCRIPTION OF THE CONCEPT

From the beginning, we are collecting each member's idea about the own final project.

Lan came up with the concept of snowflake flower can blooming active by human voice or people touching it. It is a really cool idea, and it could be great to develop more become home assistant for smart house. Etc.

Anastasiya wants created alarm device for disabled people, such as a deaf person. It can notify for disable people by vibrating through specific devices or smartwatch. In can be applying in some scenario, for example when the baby is crying from another room, the disable parents will not notice it by normal way. That is the reason why she came up with that idea can help disable person having a more comfortable life.

Kien has an idea to build some kind gambling machine which can randomly choose the number, and if both number is correct, the machine will give a song for congratulation or let people open the box to getting credit inside.

After long discussion, we finally choose Lan's idea for own final prototype. The beautiful flower can active by touch then automatic blooming right after that. It is can play some simple song to give people more exciting and fun experience.

Bill of Materials: List of all component which we need to used to build own prototype

For the mechanical flower:

- M3 nuts (5)
- M3x6 screws (5)
- M3x10 screws (10)
- M3x30 screw (1)
- 3mmx15mm pins (or screws with heads cut off)

- Stainless Cable (~20cm)

For the circuit:

- Copper plate
- Servo
- Speaker

The Sketch for own final prototype

