Portfolio

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https://aksavio.github.io/work.html

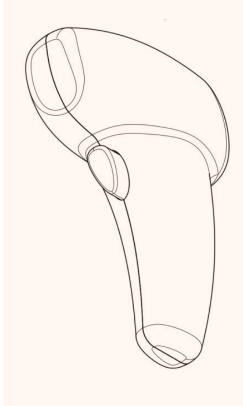
Voodoo



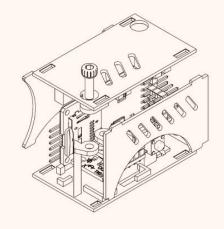


Project voodoo is a **motion control system** designed for RC planes. The idea was to explore an alternative method to control RC planes, and design the whole system around it.

Voodoo controller



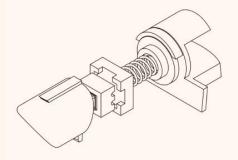
Alpha Module

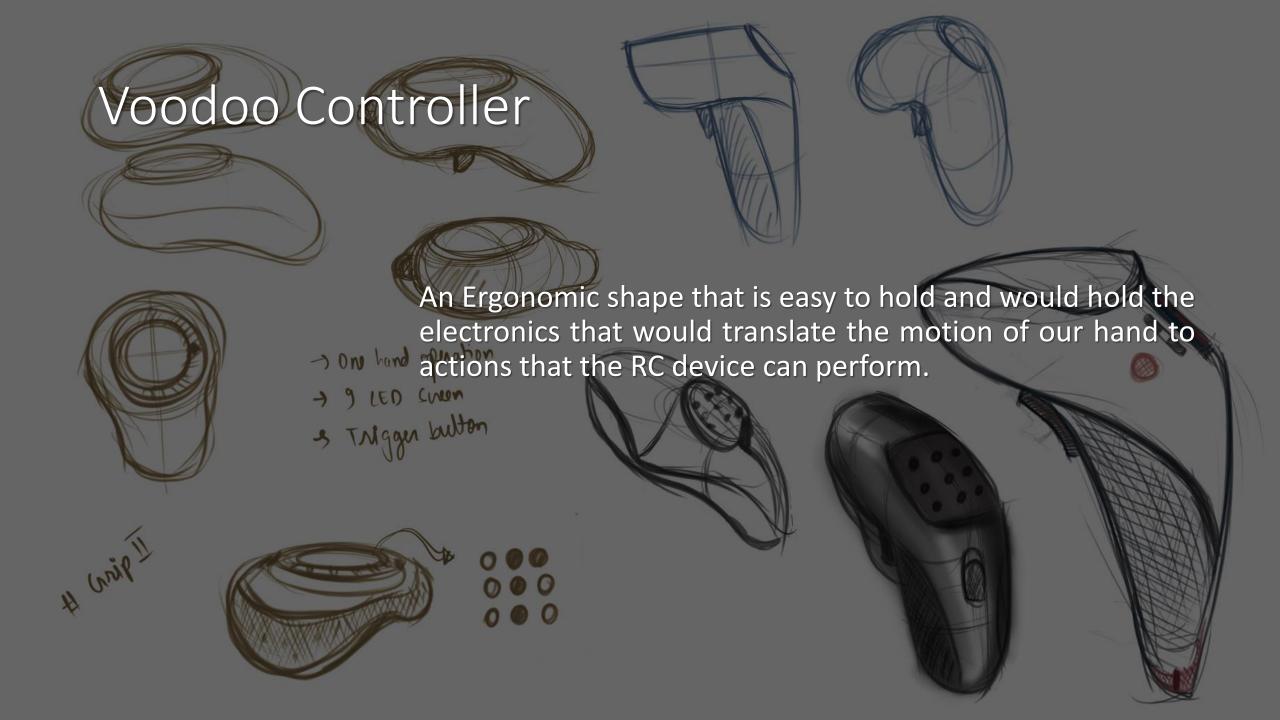


Display system



Trigger module





Alpha Module



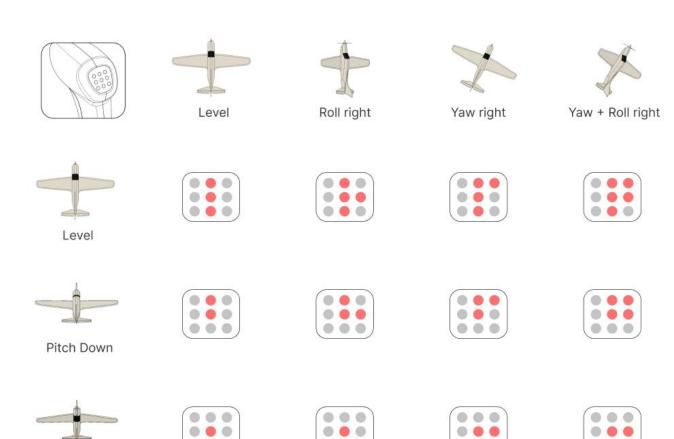
An Arduino based Flight Computer with sensors such as gyroscope and barometer and data recording capabilities.

Enough Inputs and outputs to connect servos and other electronics which use PWM signals, and sensors with i2c or SPI interfaces.

Pitch (deg) — Roll (deg) — Yaw (deg) — Accy (g)

Display System

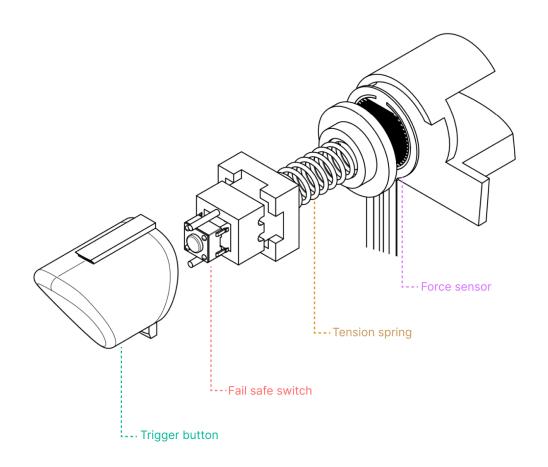
This display system was developed for the flyer to know the orientation of the airplane without much cognitive load of information.

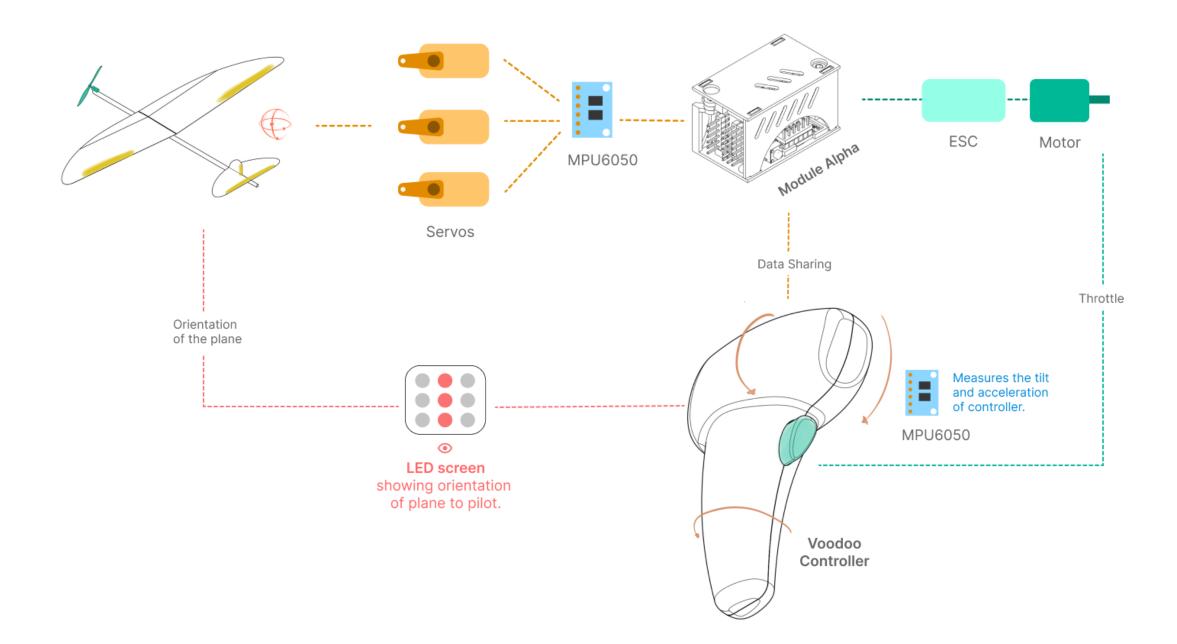


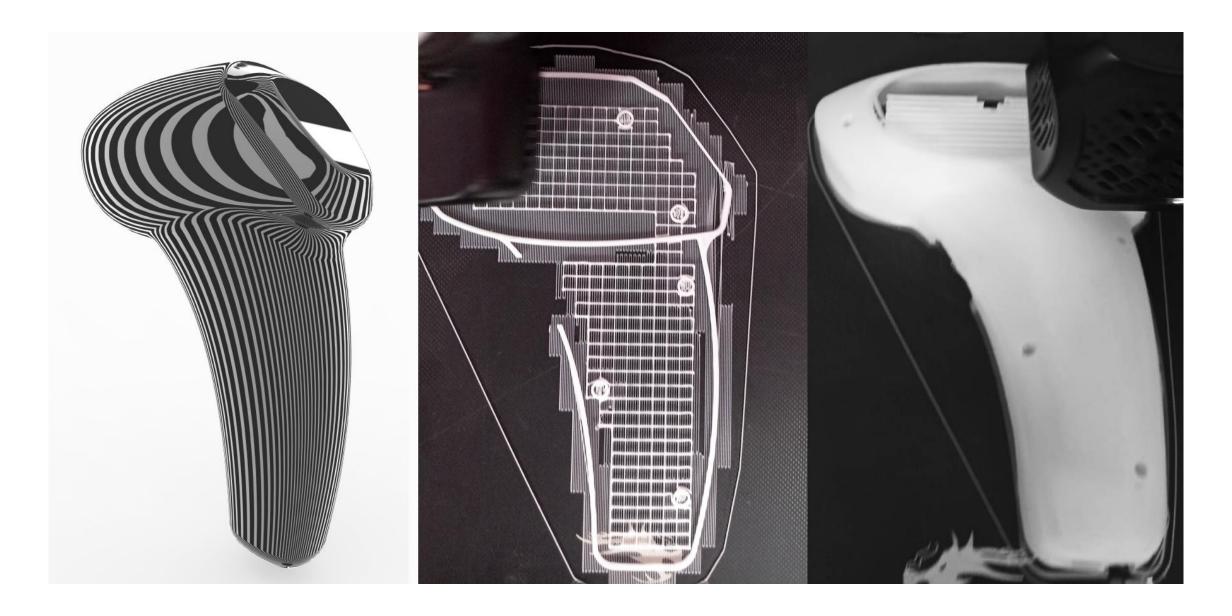
Pitch Up

Trigger Mechanism

Throttle trigger mechanism was inspired by the F-22 raptors control which stress upon accuracy while the pilot would be under stress from external forces.



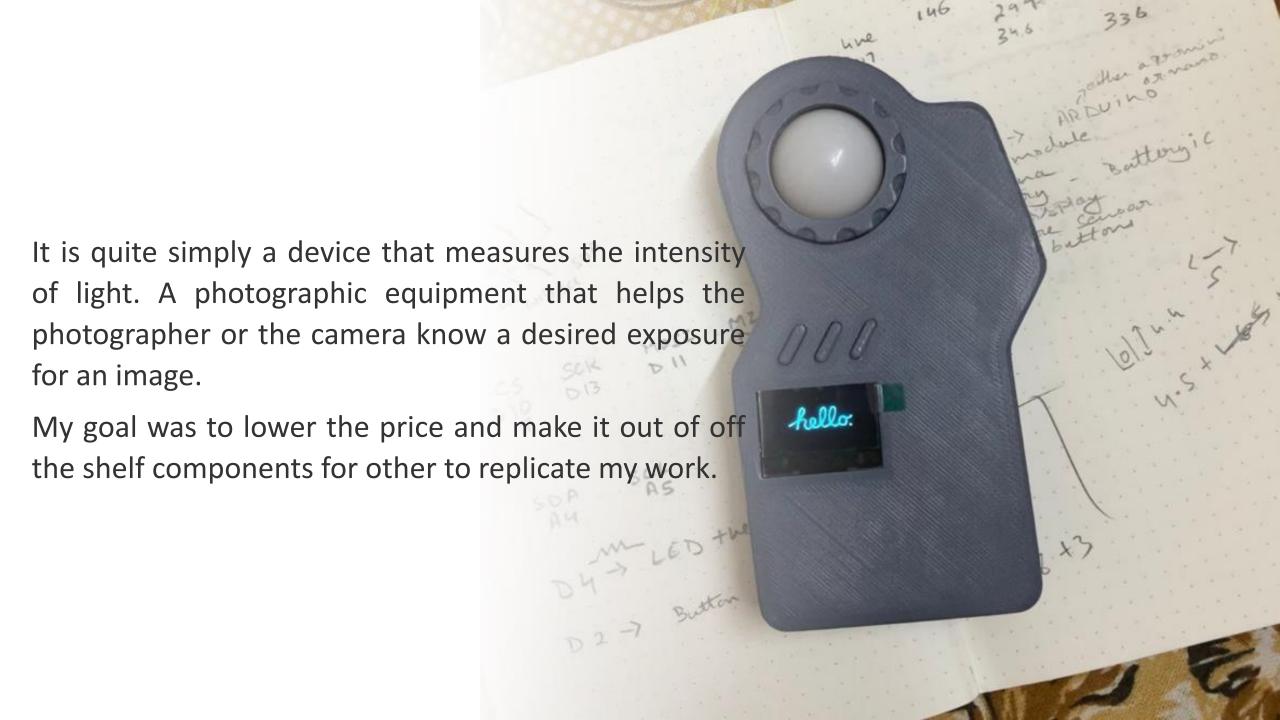


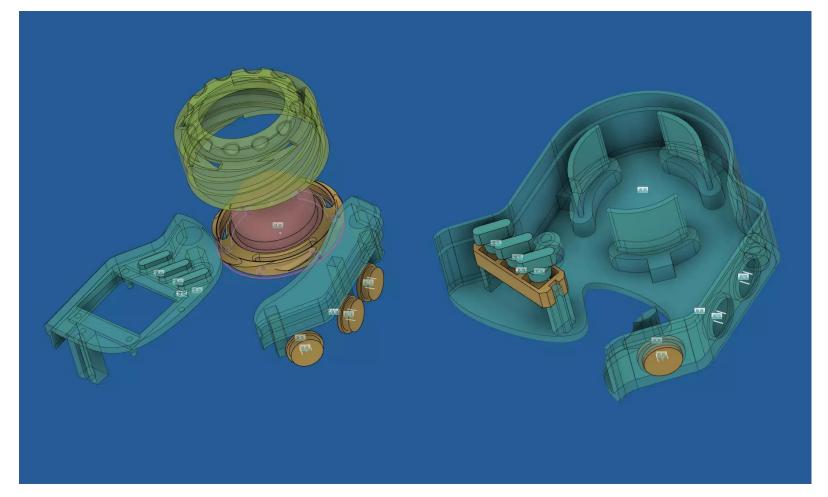




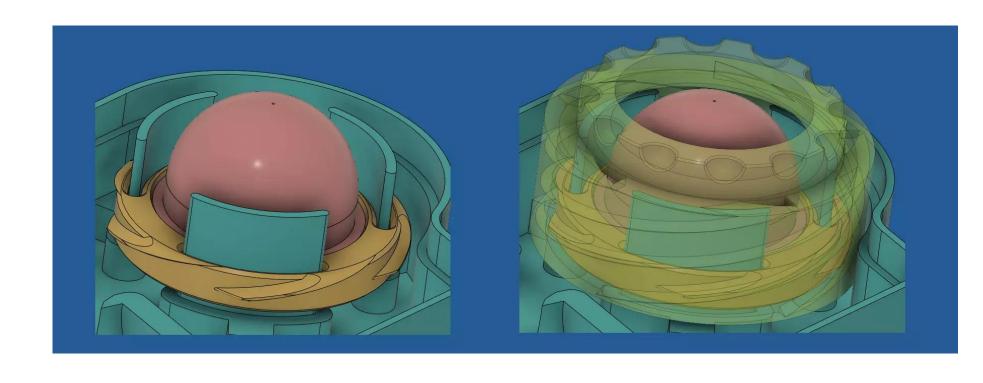
Light Meter







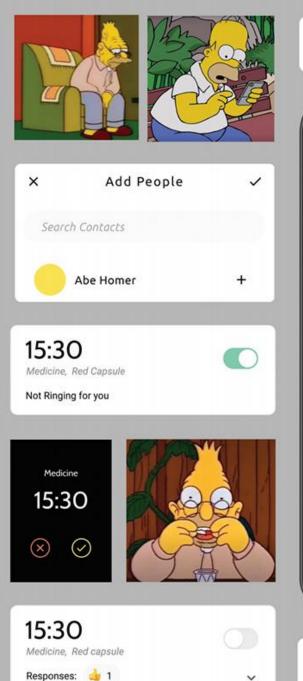
Explored ways to test 3D printed parts in order to save printing material and to reduce time in the prototyping stage.



Getting tolerances right for making movable 3D printed parts

Pings





V



Wake your gang up

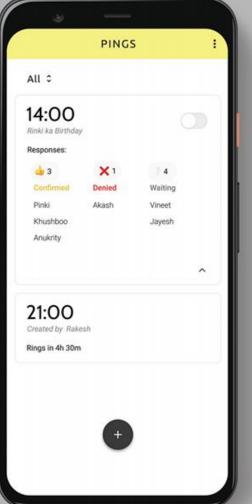


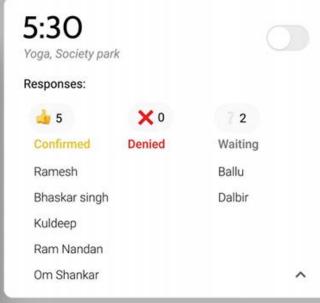
Check

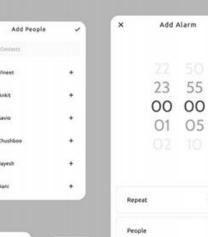
The

Status

X1







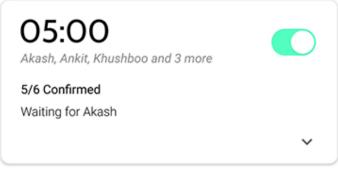
Label



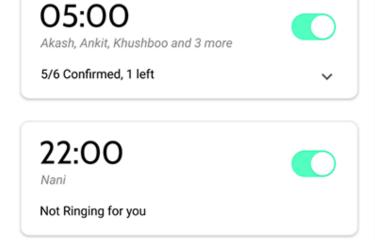
Once >

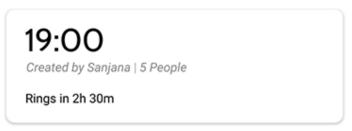
Remind your Loved ones

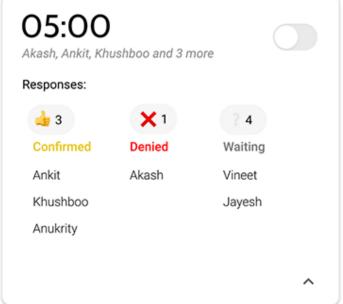




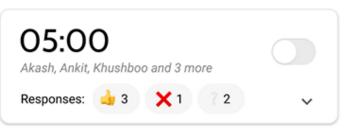


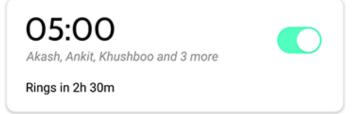












Digital Audio Player

There is some aspect of the product which is directly linked to its usability that makes the owner attached to the product. Explored a new way to interact with the product with the help of pressure sensors.



All Projects

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Datestamp Domain Title

15.05.2022 Product Voodoo

31.01.2022 Product Module Alpha

23.07.2021 Product Light Meter

13.12.2020 UI/UX Pings

30.07. Product Digital Audio Player

07.05 Visual Emoji

...03. Visual Pictures from a phone

18.11.2019 Visual Bottle Book

09.10 Visual Exploring Delhi (Chandni Chowk)

15.05.2016 Visual Star Wars
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