



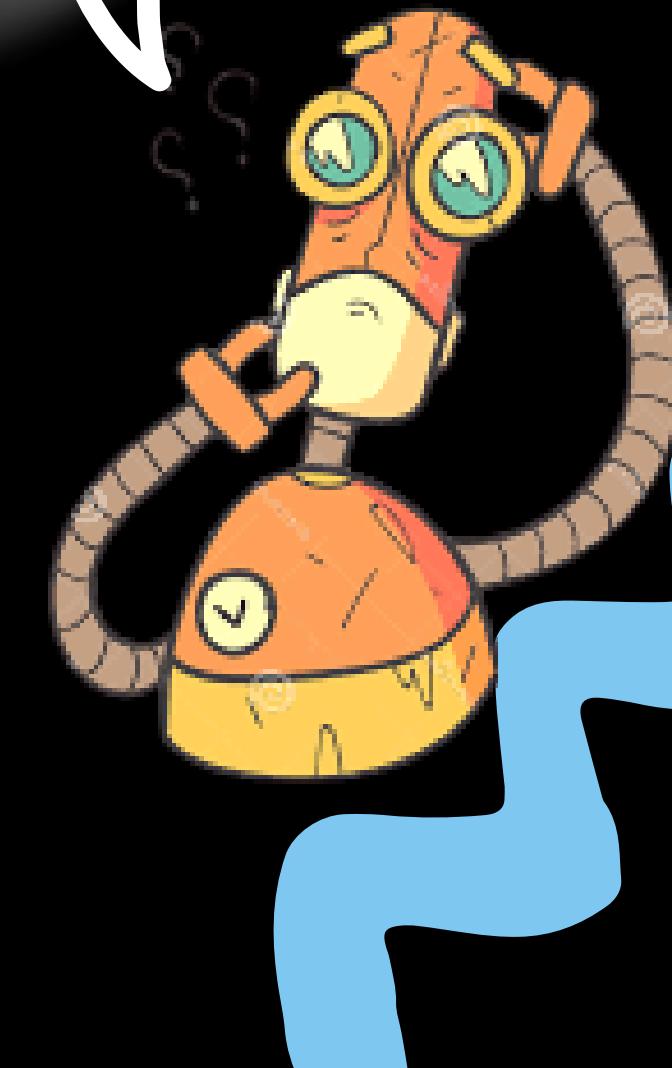
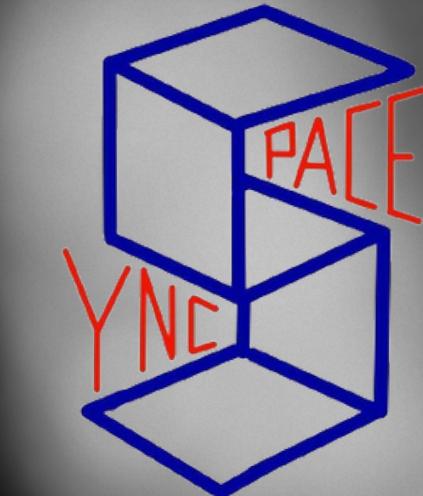
DE 250 Exhibition

Space Sync

Clean air, healthy you



Space Solution for Dual
Occupancy in Old Hostel Rooms



Content

The Problem, Inspiration and Objective

What is SpaceSync?

How it works

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Other Features ideated

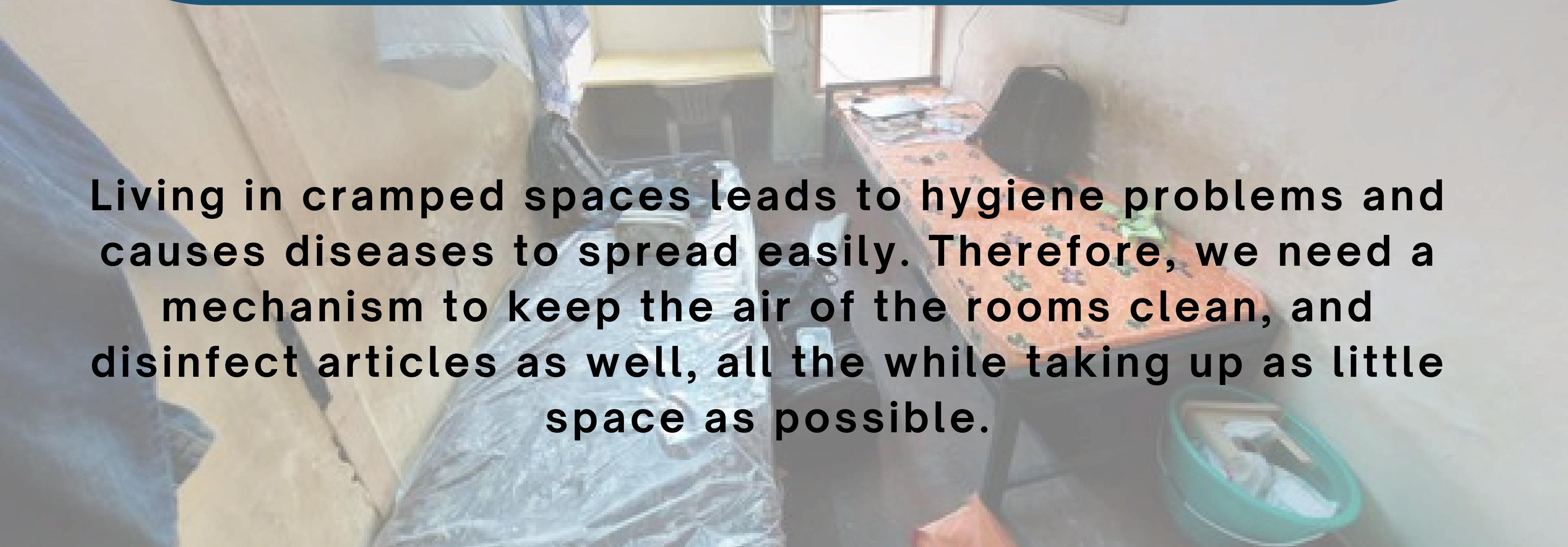
Our Team



The Problems

- 
- Hostel rooms often suffer from poor indoor air quality due to limited ventilation and high occupancy rates.
 - Airborne germs and pollutants can spread easily in such confined spaces, leading to increased health risks for students.
 - Existing solutions may not effectively address these issues, leaving students vulnerable to respiratory illnesses and allergies.

The Objective



Living in cramped spaces leads to hygiene problems and causes diseases to spread easily. Therefore, we need a mechanism to keep the air of the rooms clean, and disinfect articles as well, all the while taking up as little space as possible.

What is SpaceSync?

As small as can be

It can fit below your bed,
above your cupboard, on
the shelf, anywhere you
want.

Keeps the air clean

Designed for small hostel
rooms, discreetly runs in
the background when
you're working or not in the
room, and purifies the air.

Can be used as a disinfectant as well

When unplugged, it runs on
battery power and can be
used as a handheld
disinfectant for sterilizing
your phone, bed, clothes
etc.

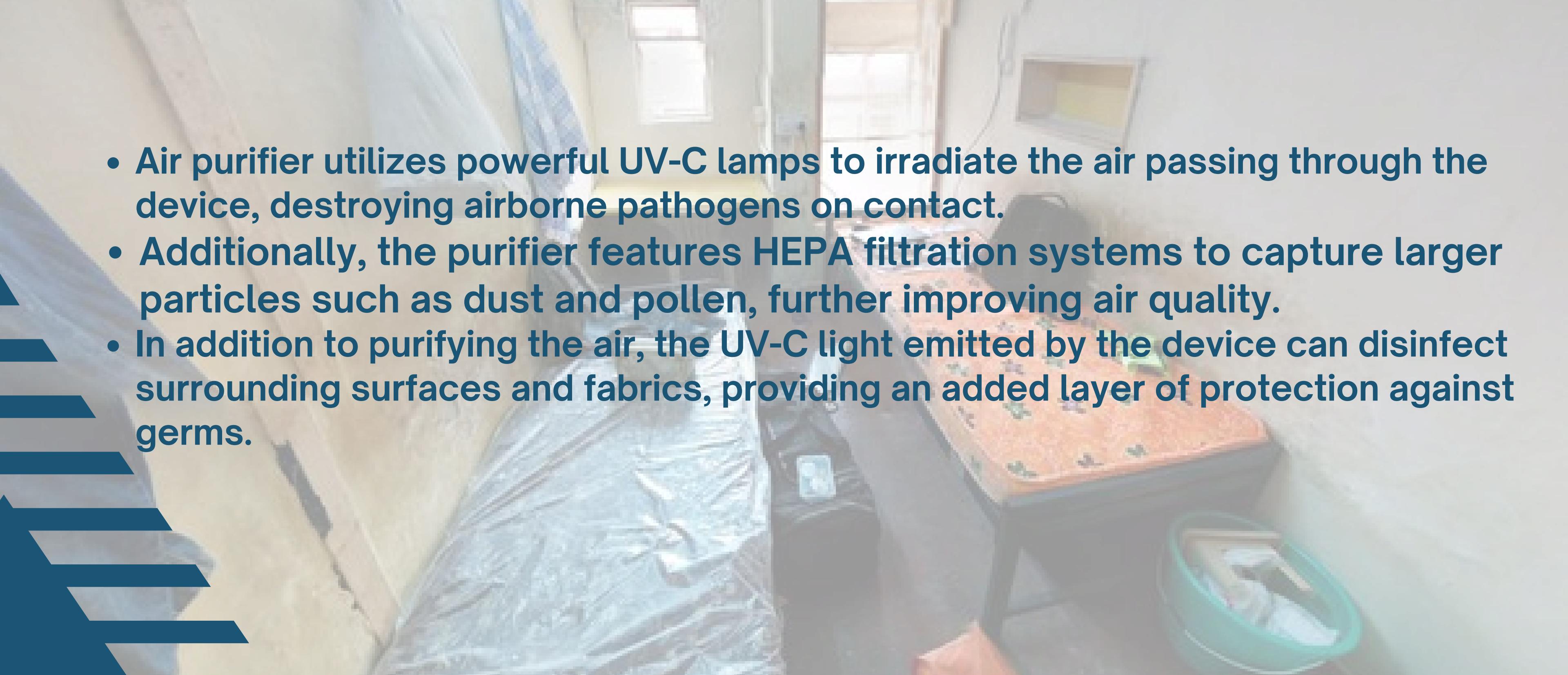
Intensity control

You can control the intensity of
the purifier fan as well as the UV
LEDs using the switches at the
back of the device, and in the
future using your phone as well.



BREATHE
CLEAN

How it works

- 
- Air purifier utilizes powerful UV-C lamps to irradiate the air passing through the device, destroying airborne pathogens on contact.
 - Additionally, the purifier features HEPA filtration systems to capture larger particles such as dust and pollen, further improving air quality.
 - In addition to purifying the air, the UV-C light emitted by the device can disinfect surrounding surfaces and fabrics, providing an added layer of protection against germs.

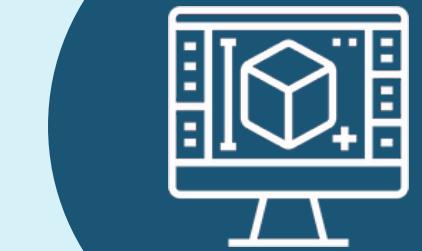
Design Process

An overview



Ideation

Brainstorming, research
Approaching people,
thought experiments



Modelling

Program flow, soft
design, refinement,
sketching, research



Prototyping

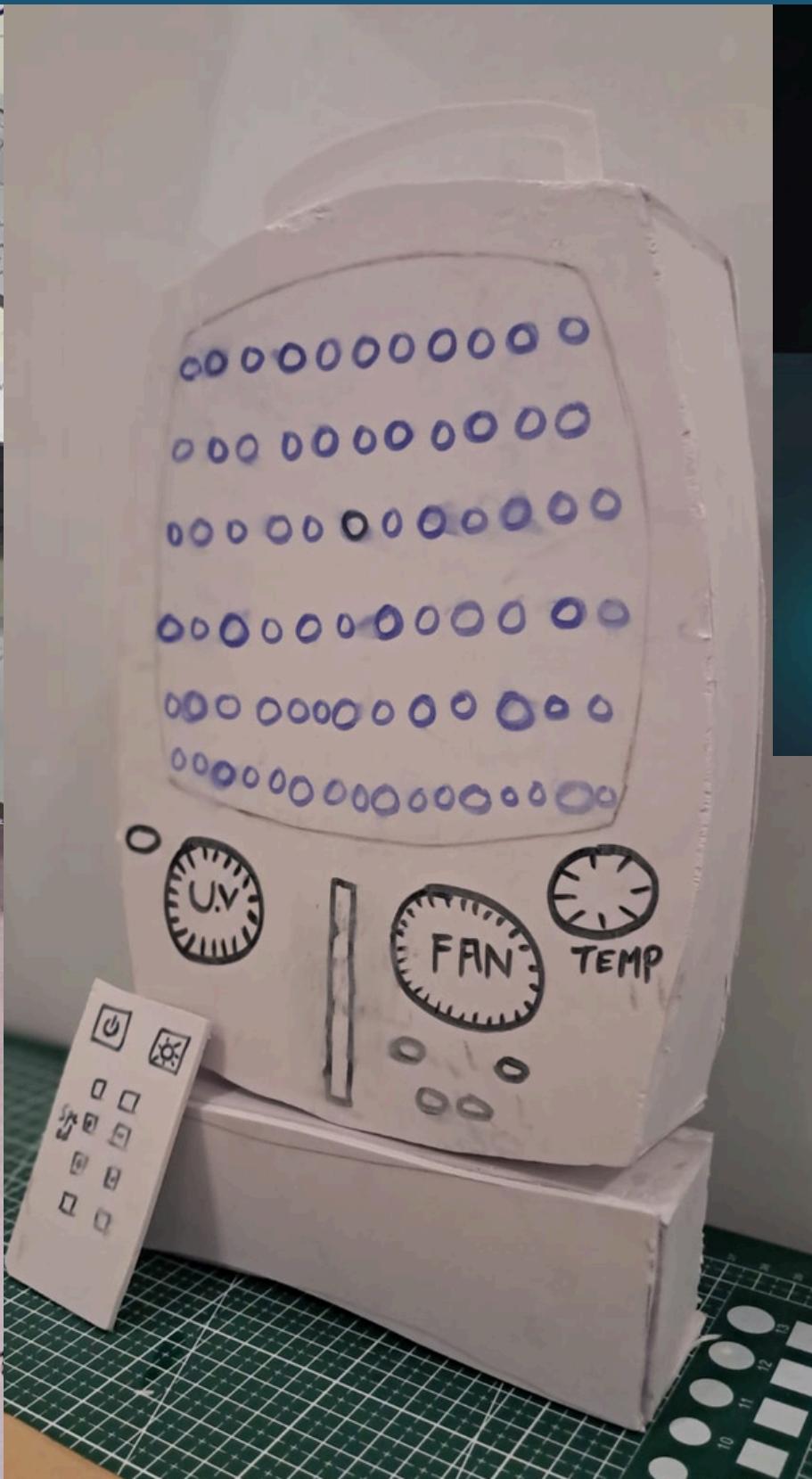
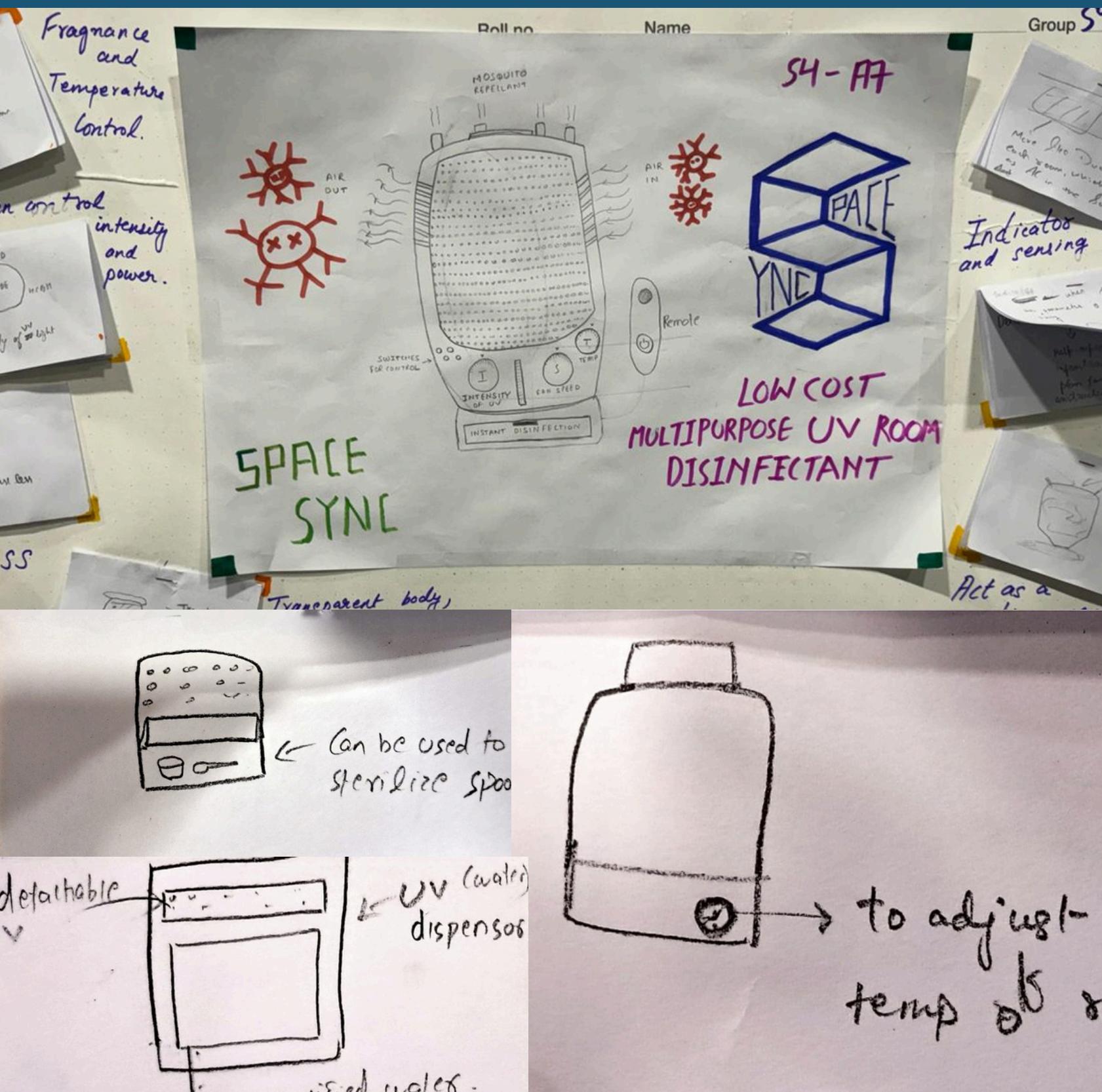
Procuring materials,
Stitching, Wiring,
Programming,
SOLDERING



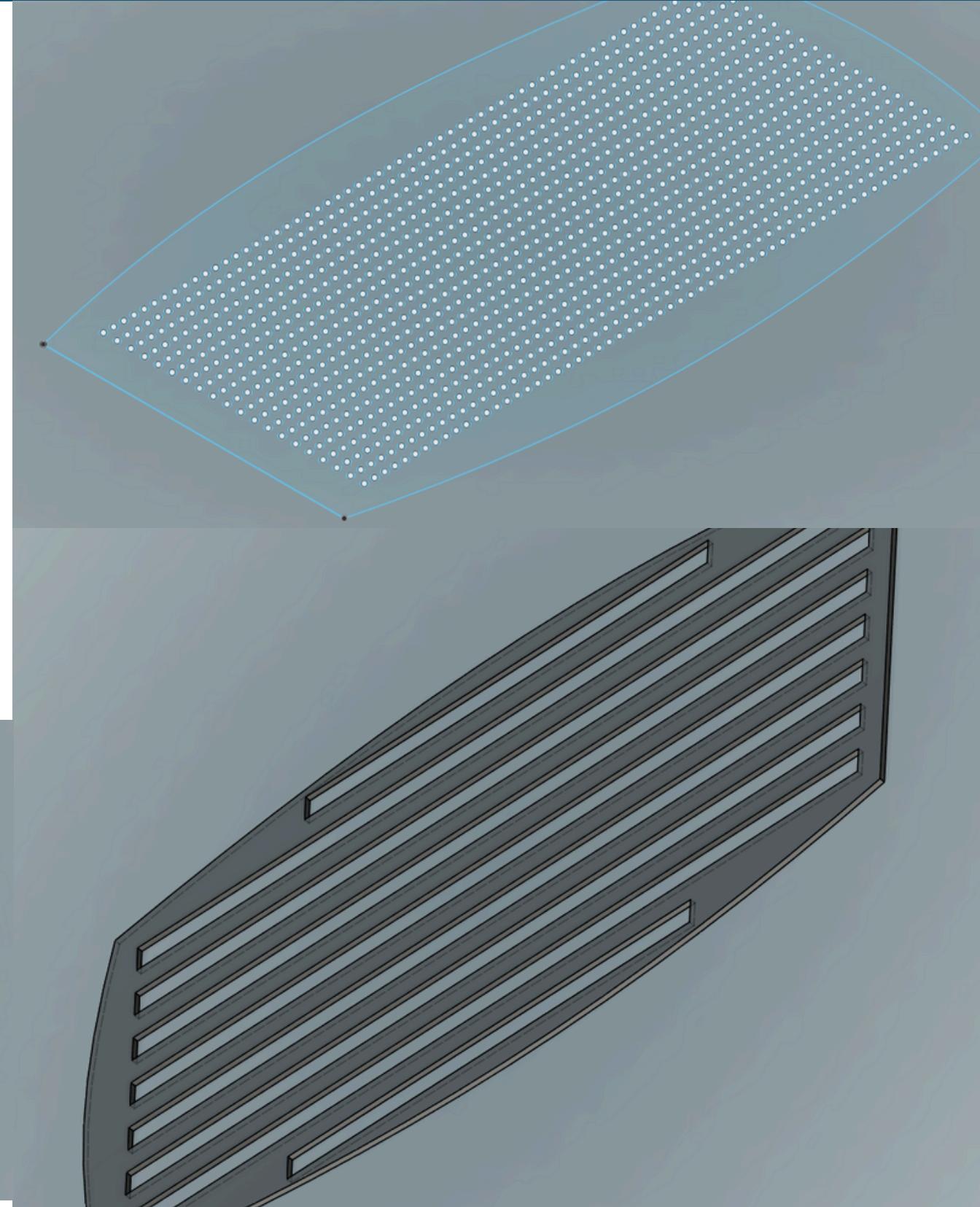
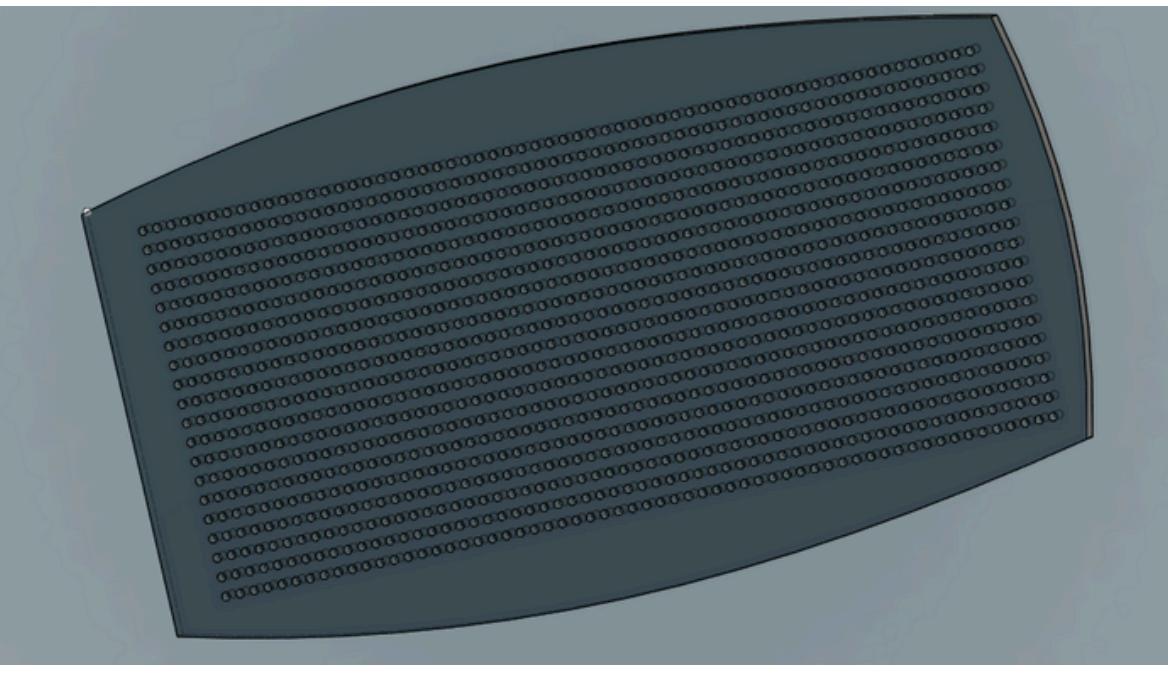
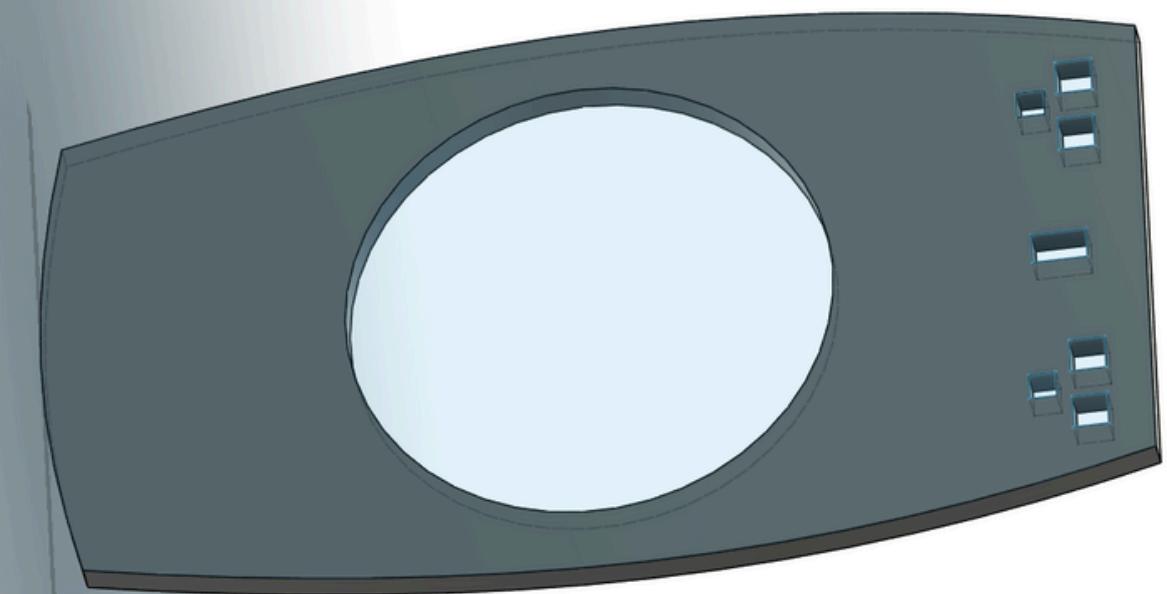
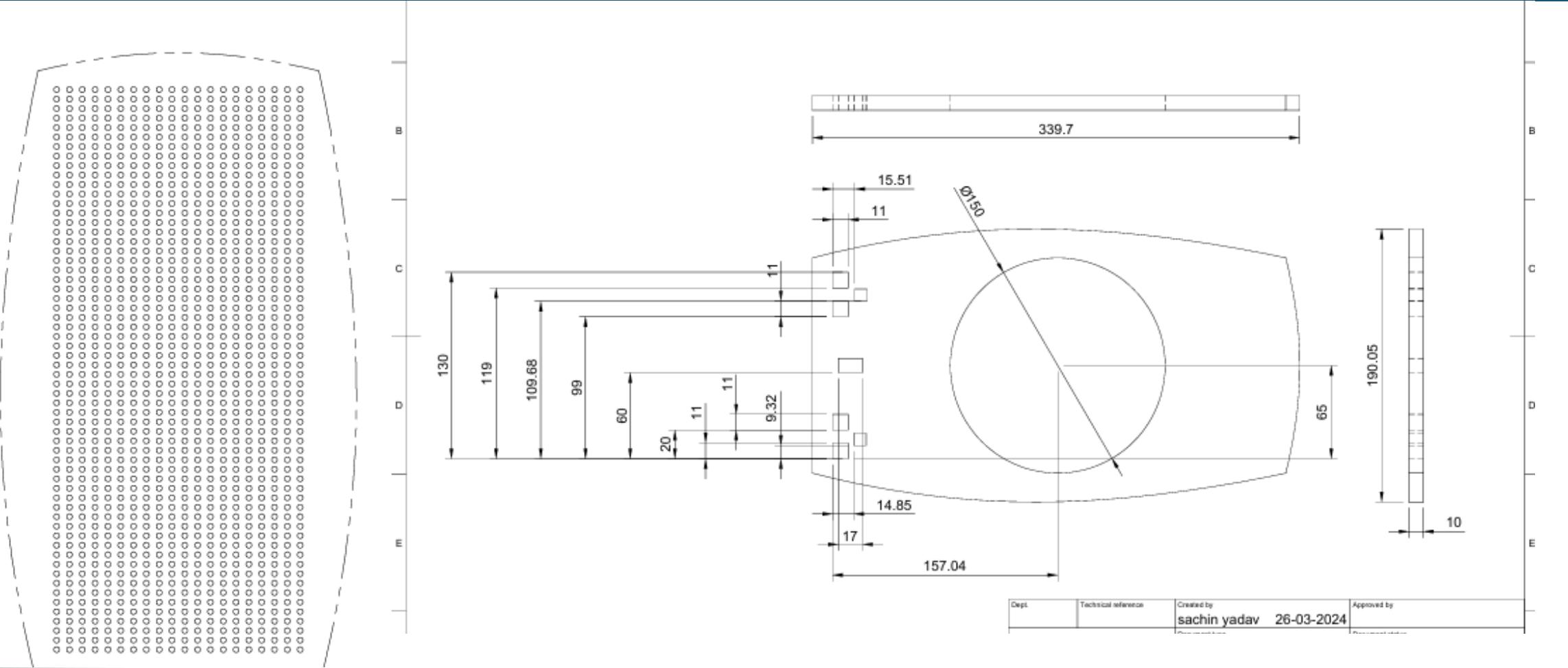
Testing T_T

Calibration, checking
the overall functions,
remodel.

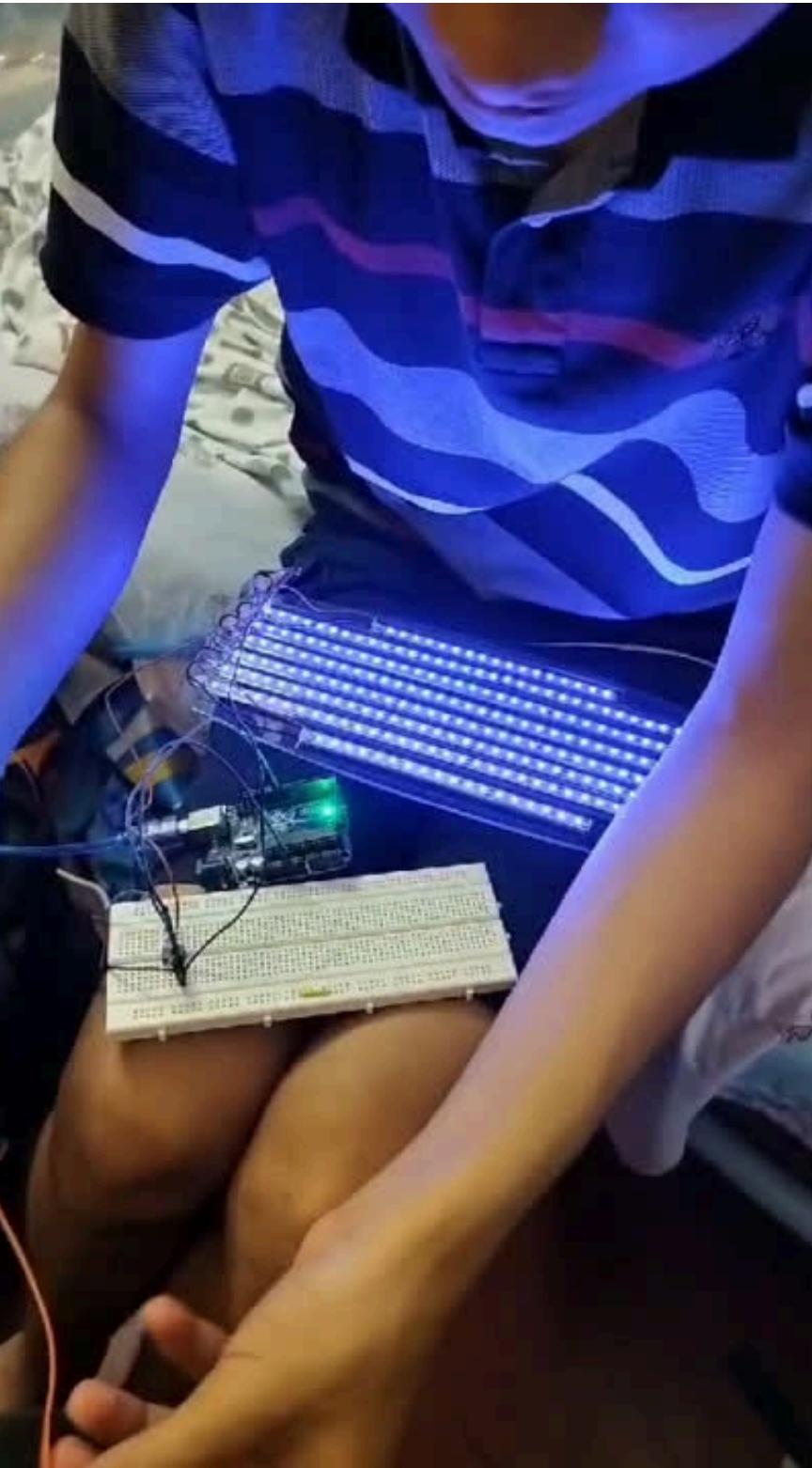
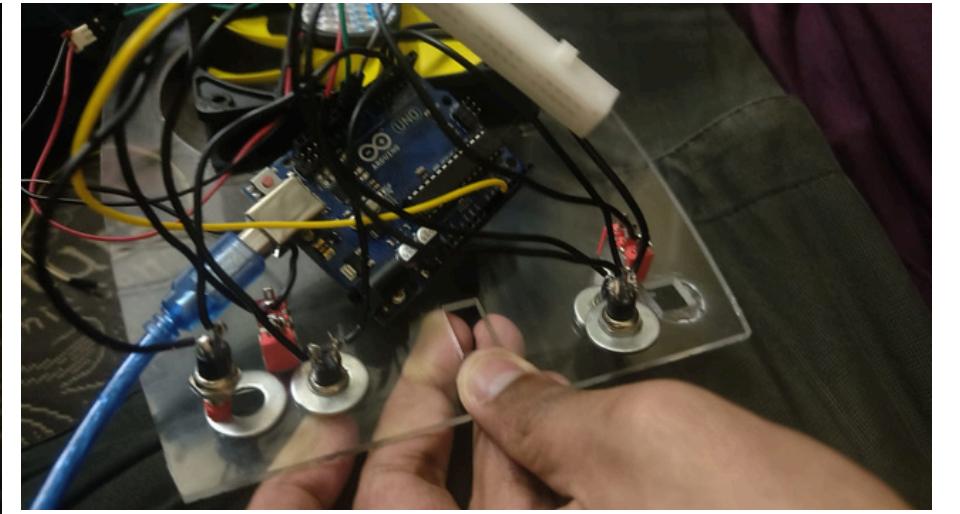
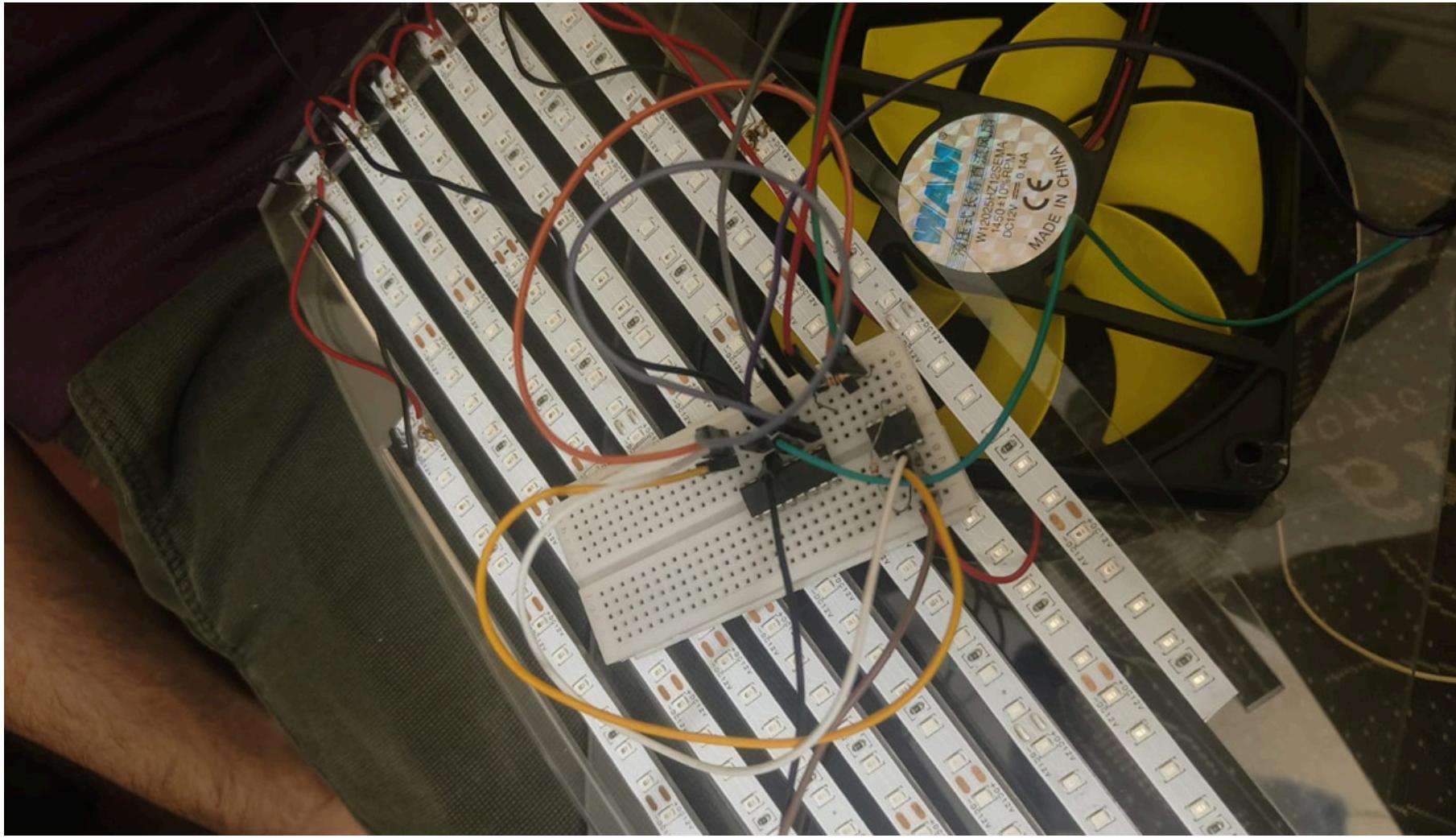
Ideation



Modelling



Prototyping



RESULTS



Results



Our Team



Abhineet
Agarwal



Sachin
Yadav



Preetish
Sathawane



Saurabh
Gupta



Garvit
Kulhari



Vidisha
Agarwal