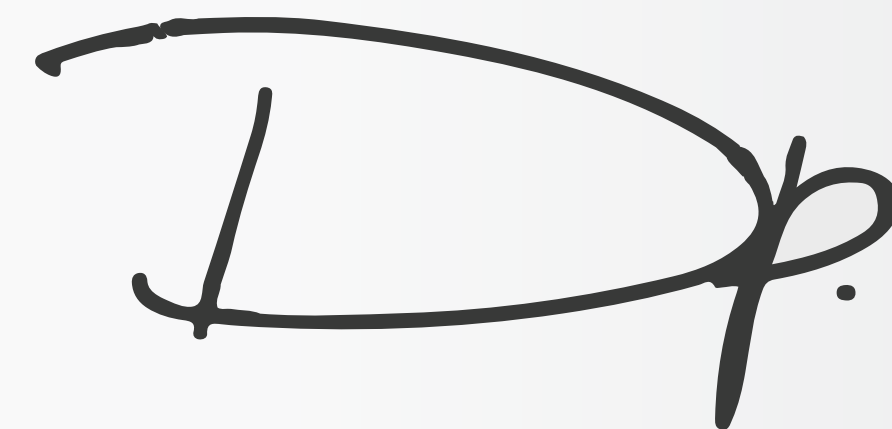
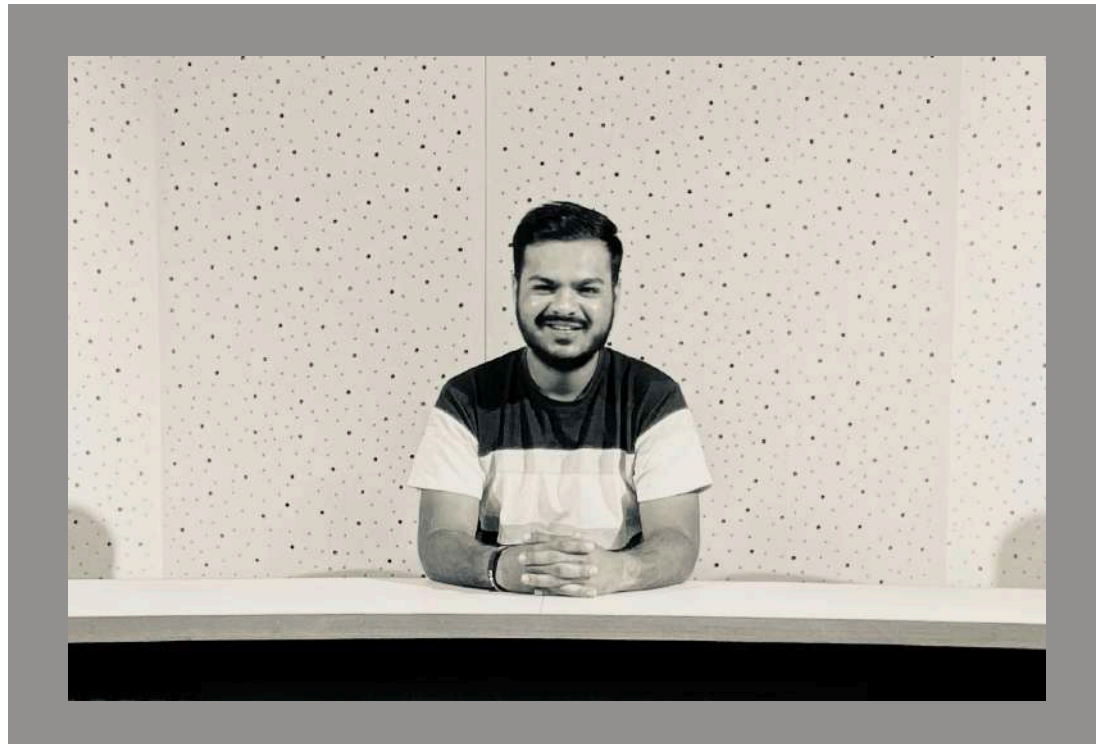


INDUSTRIAL DESIGN  
**PORTFOLIO** | 2021



DEVARSH PATEL

# Resume



## Devarsh Patel

Industrial Designer  
Ahmedabad, Gujarat

## CONTACT



+91 9898034339



devarshpatel2323@gmail.com



<https://www.linkedin.com/in/devarsh-patel>

## EDUCATION

**Institute of Design, Nirma University**  
Bachlor of Design (B.Des)  
2018 to 2022

**Shree Vidhyanagar High School**  
Higher Secondary School  
2005 to 2017

## EXPERIENCE

**Praspack packaging**  
as a Graphic Designer  
2019

**Modroof, Changodar**  
as a Graphic and Packaging Designer  
2020

**ProBono**  
as a Graphic Designer  
2020

**Sun Robotics**  
as a Product and UX Designer  
2021

## LANGUAGES

English  
Hindi  
Gujarati

## INTERESTS

Cricket  
Snooker  
Travel  
Photography

## ANALOG SKILLS

Sketching  
Prototyping  
Team player  
Wood & Metal work  
Cad Model  
Rendering  
Documentation

## DIGITAL SKILLS

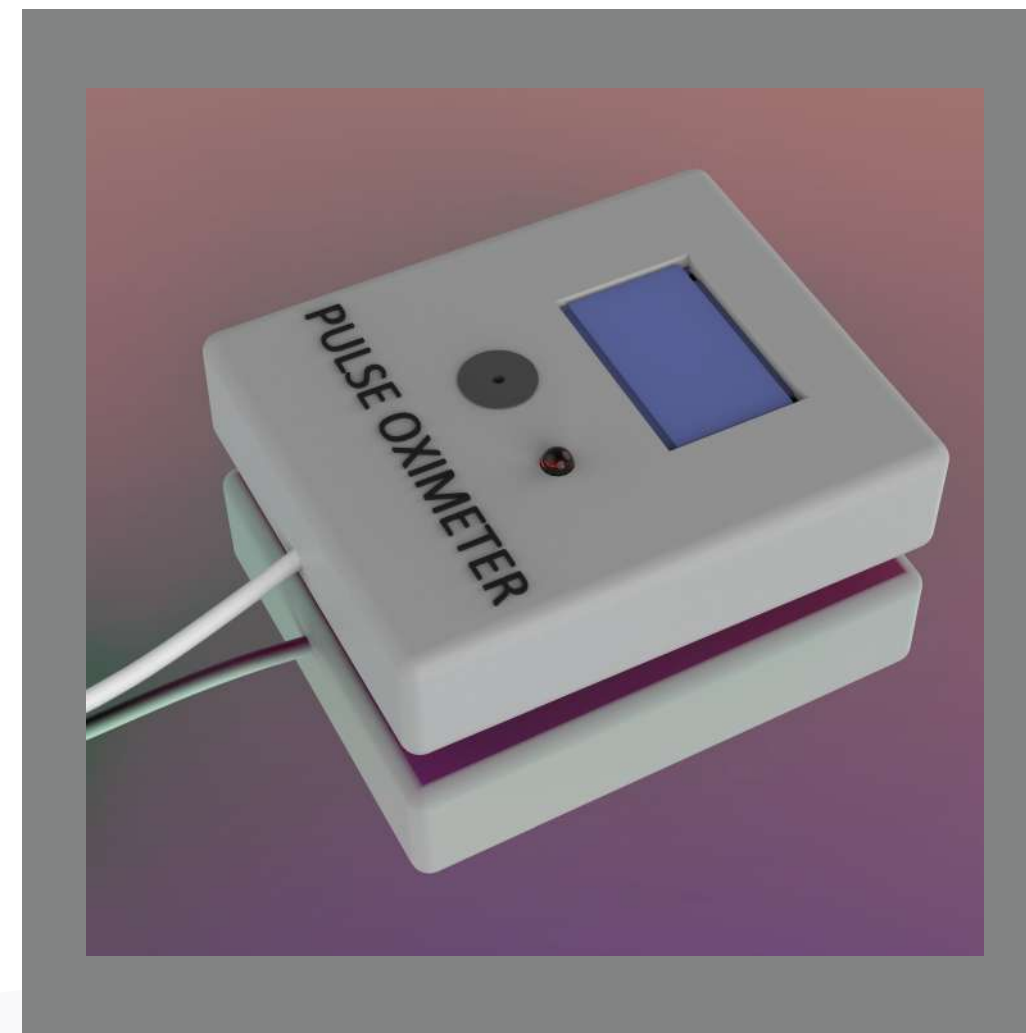
Autocad  
Adobe Illustrator  
Adobe Photoshop  
Adobe Indesign  
Adobe XD  
Rhino 3D  
Keyshot  
Creo Parametric  
solid works

1.



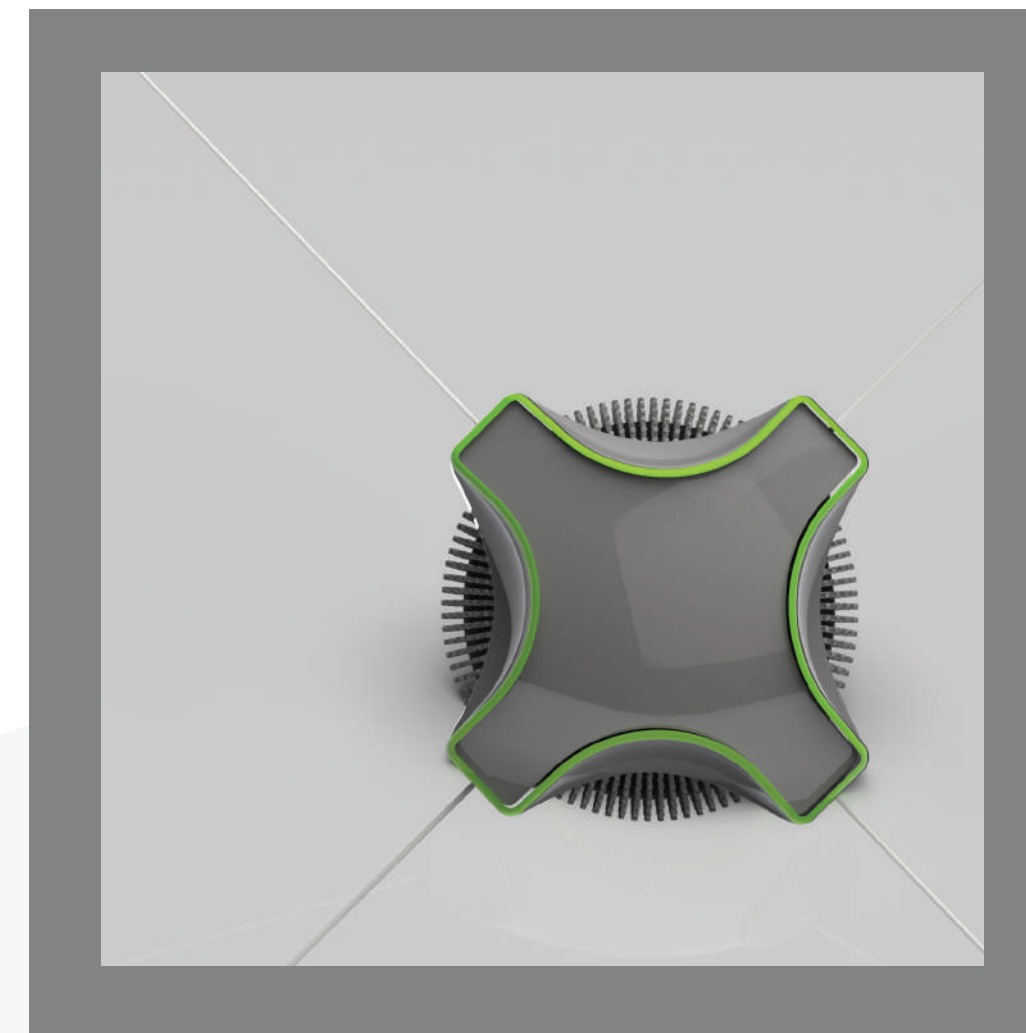
 **ComfyPill**  
The comfortable Phone Viewer


2.



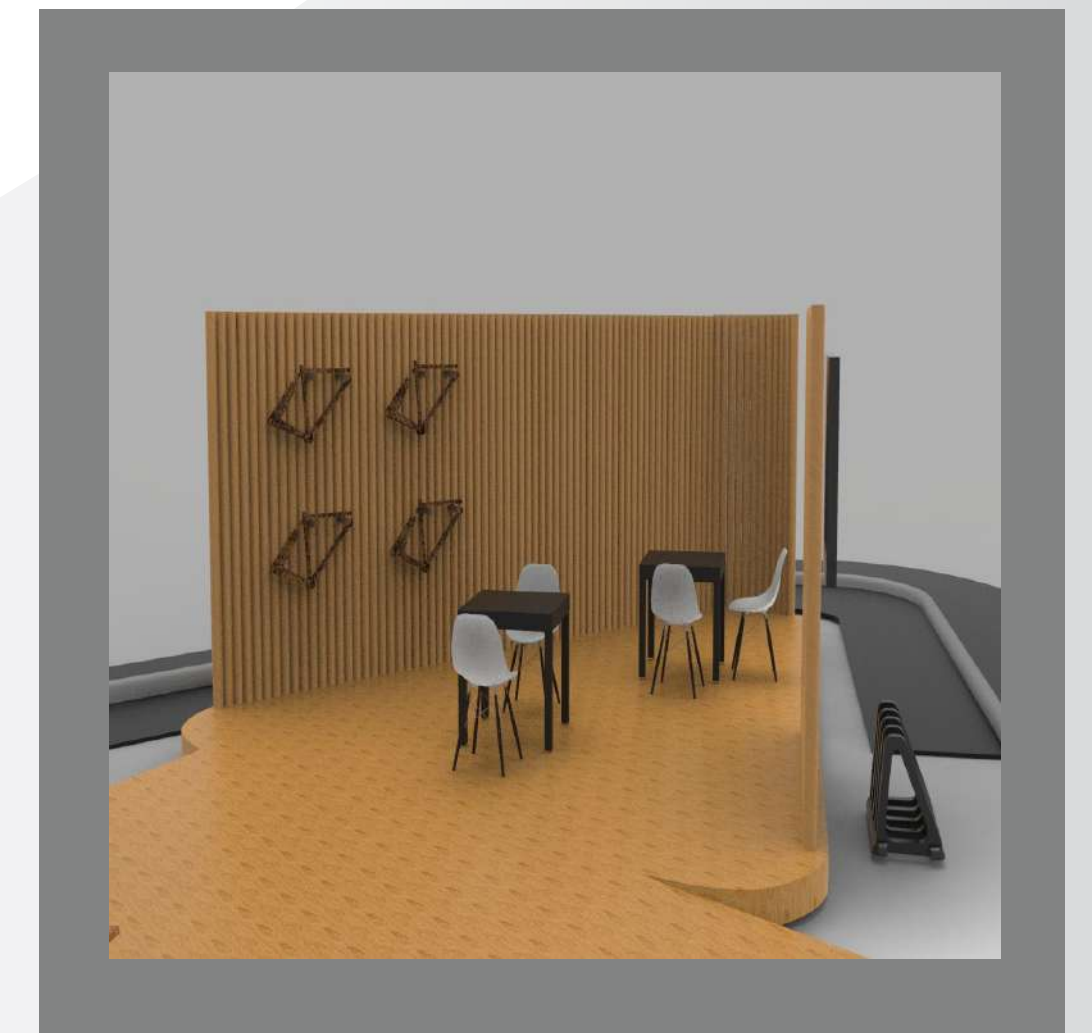
**Pulse  
Oximeter**

3.



 **SOLIS**  
The Automatic Solar Panel Cleaner

4.



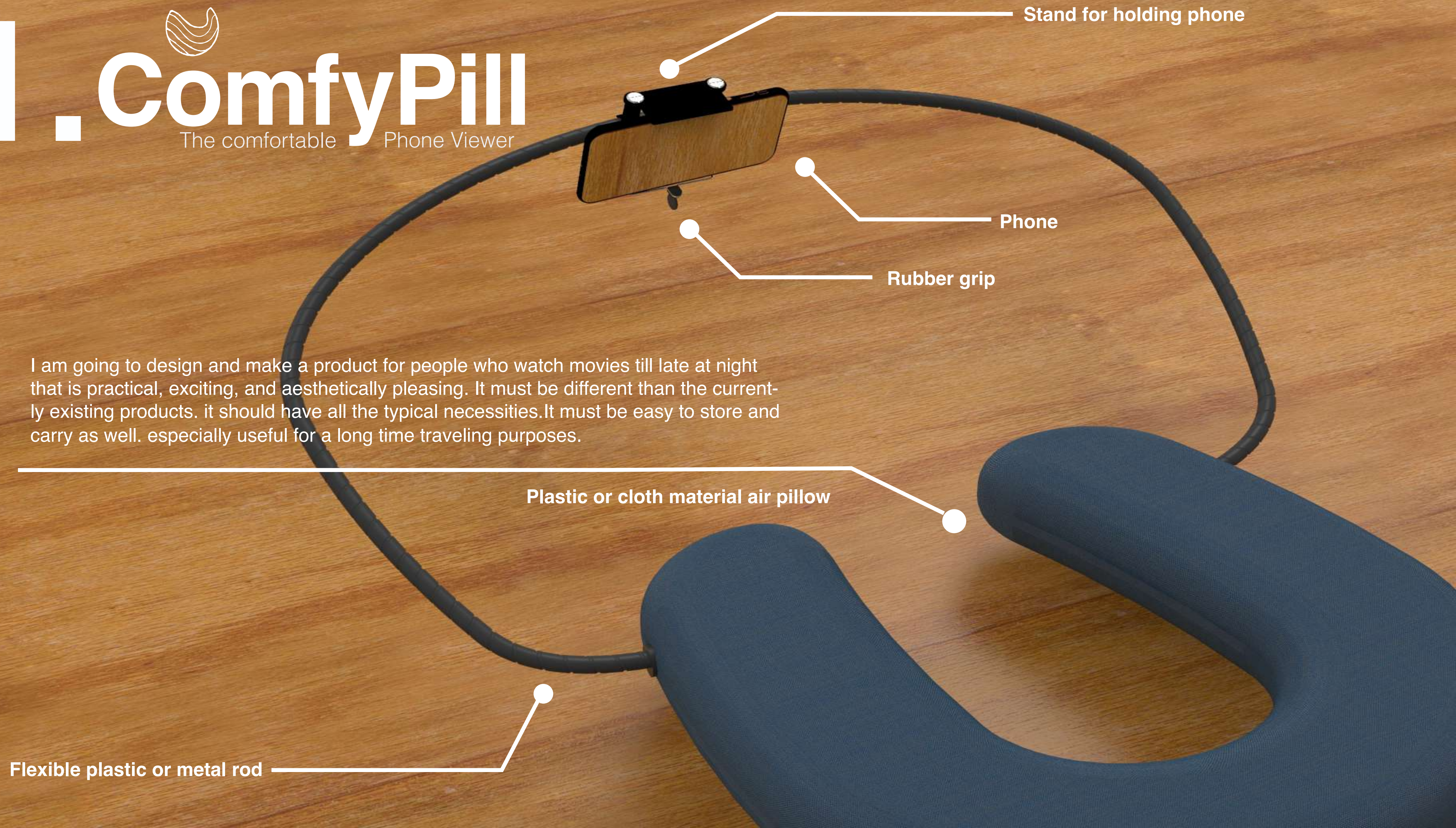
**Bicycle  
Display  
Structures**



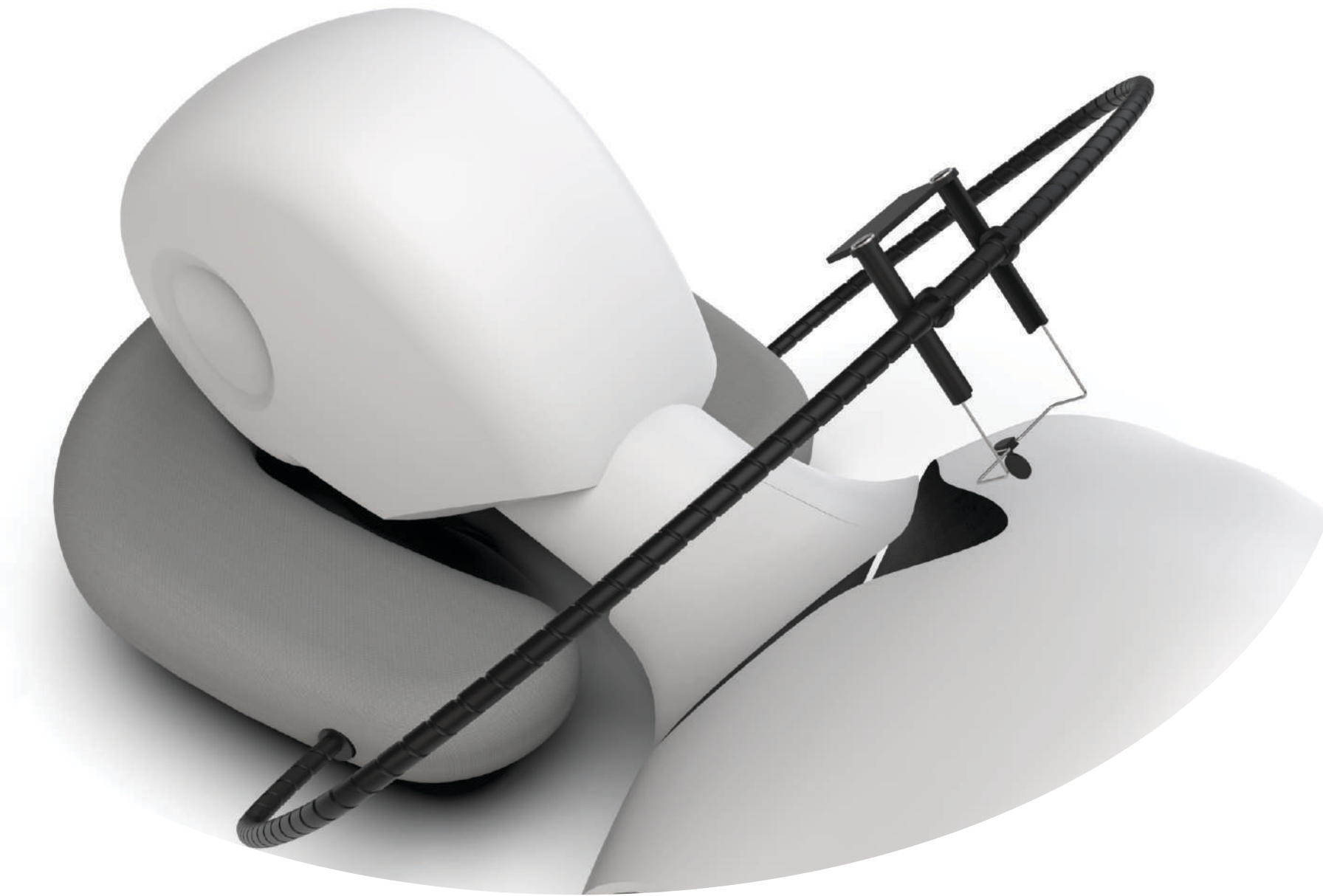
# 1. ComfyPill

The comfortable Phone Viewer

I am going to design and make a product for people who watch movies till late at night that is practical, exciting, and aesthetically pleasing. It must be different than the currently existing products. It should have all the typical necessities. It must be easy to store and carry as well. especially useful for a long time traveling purposes.





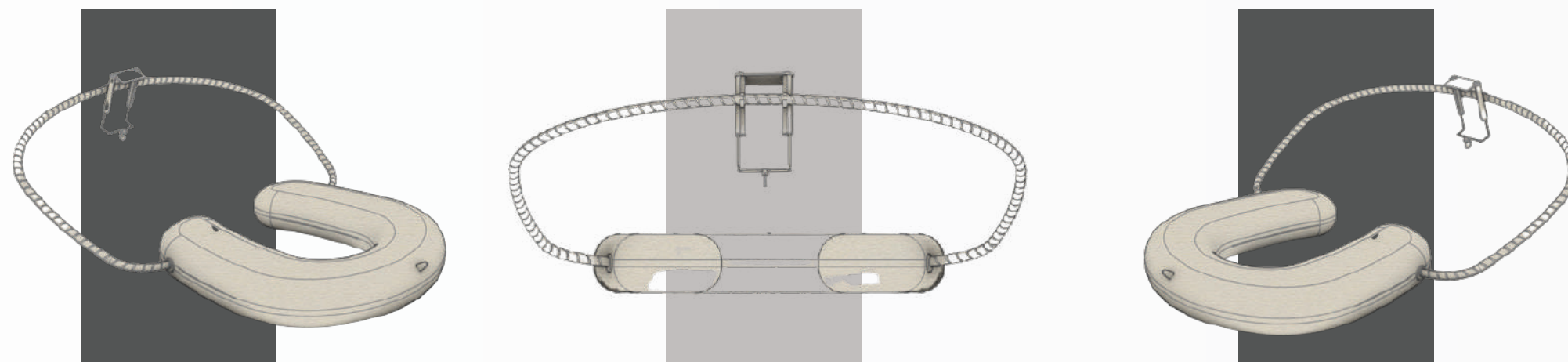


# ComfyPill

The comfortable Phone Viewer

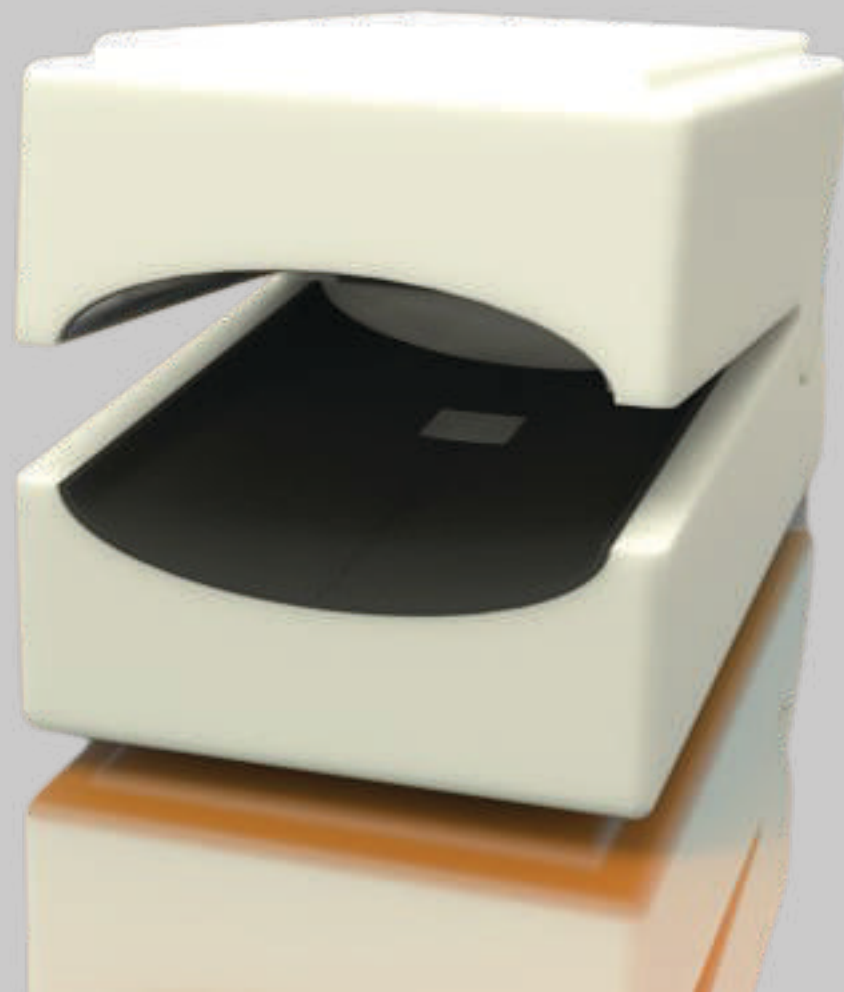
- Easy to use and carry as well.
- Specially for travelling perposes.
- Portable.
- Proper sleeping position.
- Maintaining distance between eyes and phone.

Alot of people use their mobile phones to watch movies especially while travelling or while in the public space. While watching movies on their mobile phones the users are unaware of their body posture and tend to remain in the same body structure for a longer period of time.



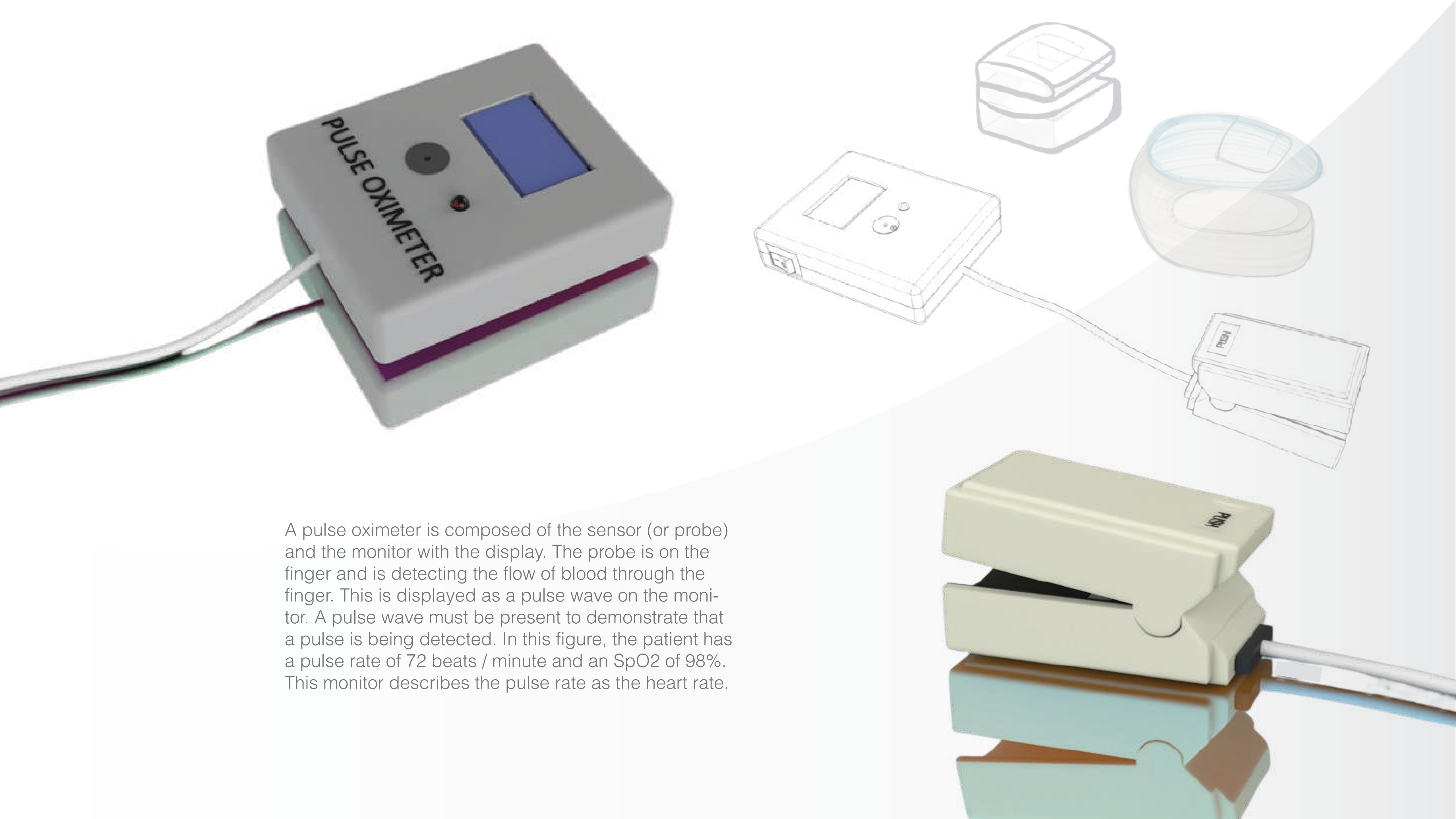
# 2 ■ Patient's Self Monitoring Device mainly to measure Oxygen level

During the covid crisis a lot of patients suffer from lack of oxygen in their lungs. There is a continuous need of checking of oxygen level for in each and every patient. There is a cycle of patients followed by the nurses when going to check the oxygen level. It is followed that when the nurse completes the cycle and comes back to the first patient, it takes mini. 8hrs. Its very much possible that in those eight hrs the patient's oxygen level may fluctuate.



The patient needs regular checking of oxygen levels every hour or two. The readings are manually noted from patient to patient which is time consuming. Oximeter is to be carried to patients individually. A person with COVID-19 monitoring his or her clinical status at home will want to ensure that the SpO2 reading stays consistently at or above 90 to 92%.





A pulse oximeter is composed of the sensor (or probe) and the monitor with the display. The probe is on the finger and is detecting the flow of blood through the finger. This is displayed as a pulse wave on the monitor. A pulse wave must be present to demonstrate that a pulse is being detected. In this figure, the patient has a pulse rate of 72 beats / minute and an SpO<sub>2</sub> of 98%. This monitor describes the pulse rate as the heart rate.

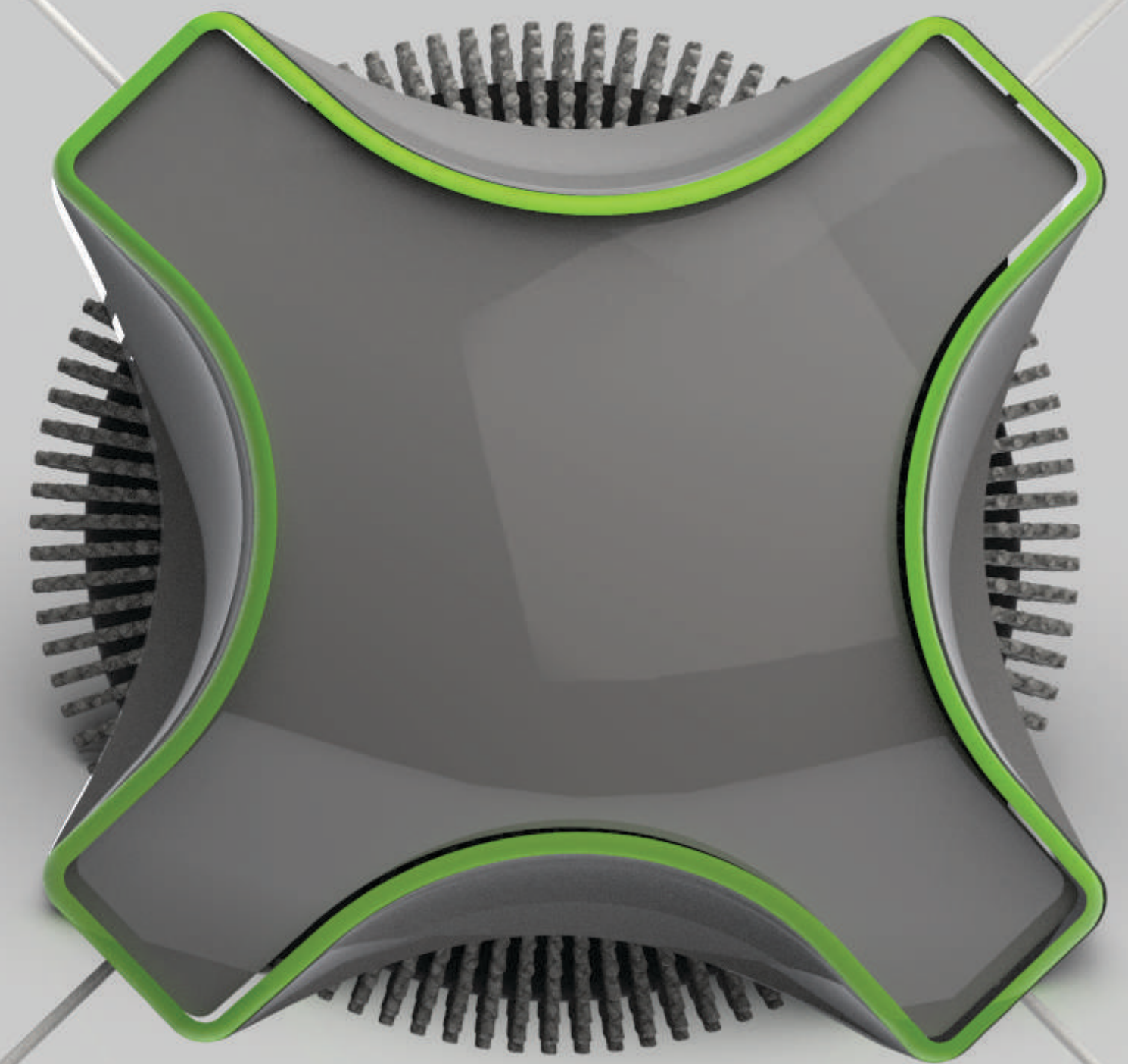
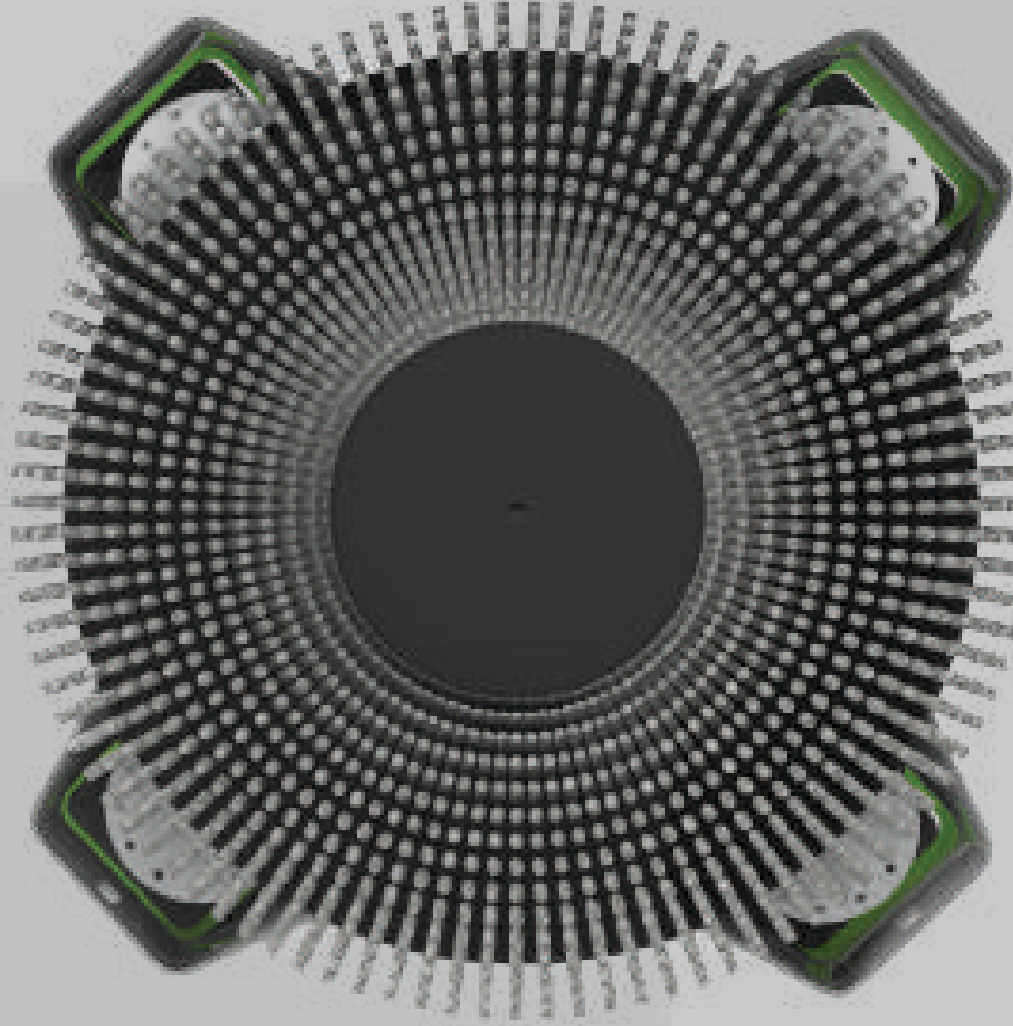
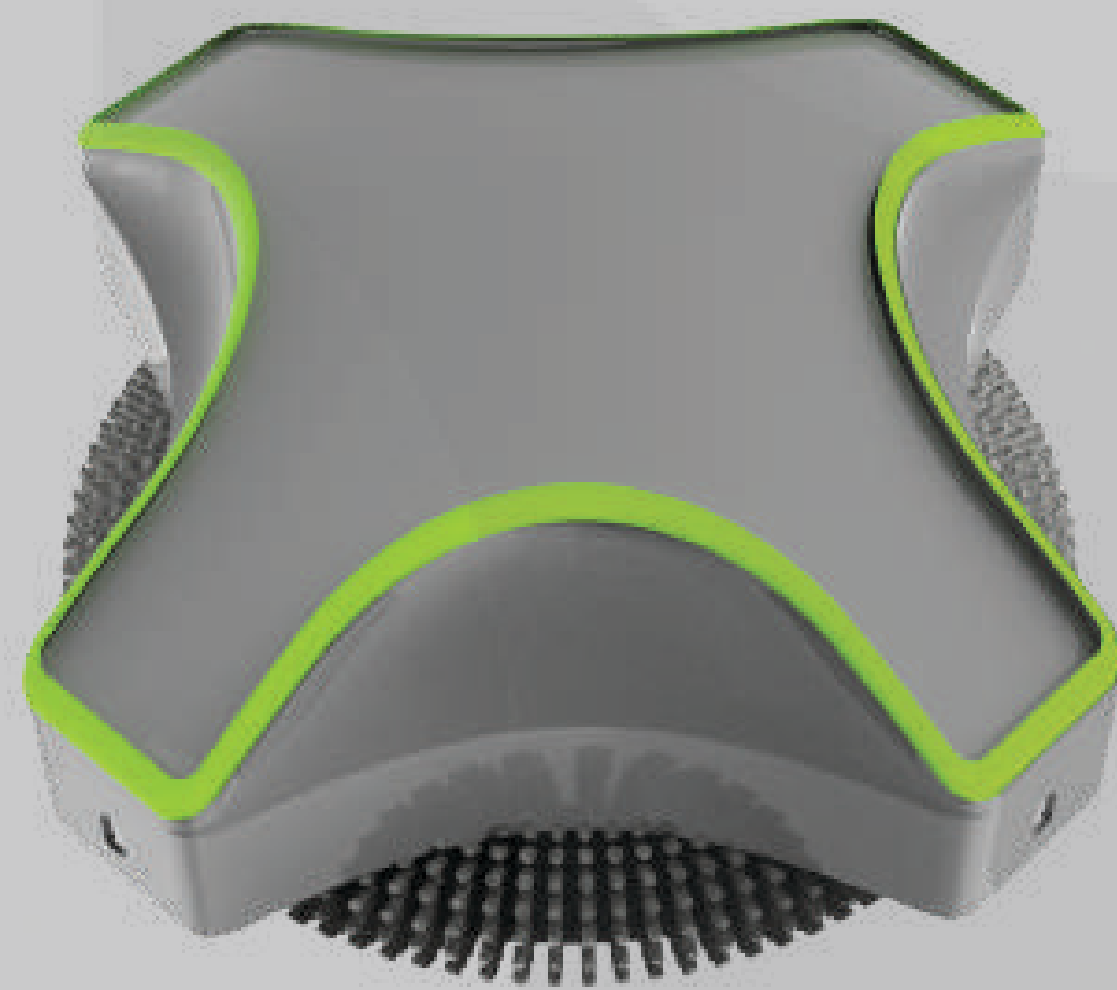






# 3. SOLIS

The Automatic Solar Panel Cleaner



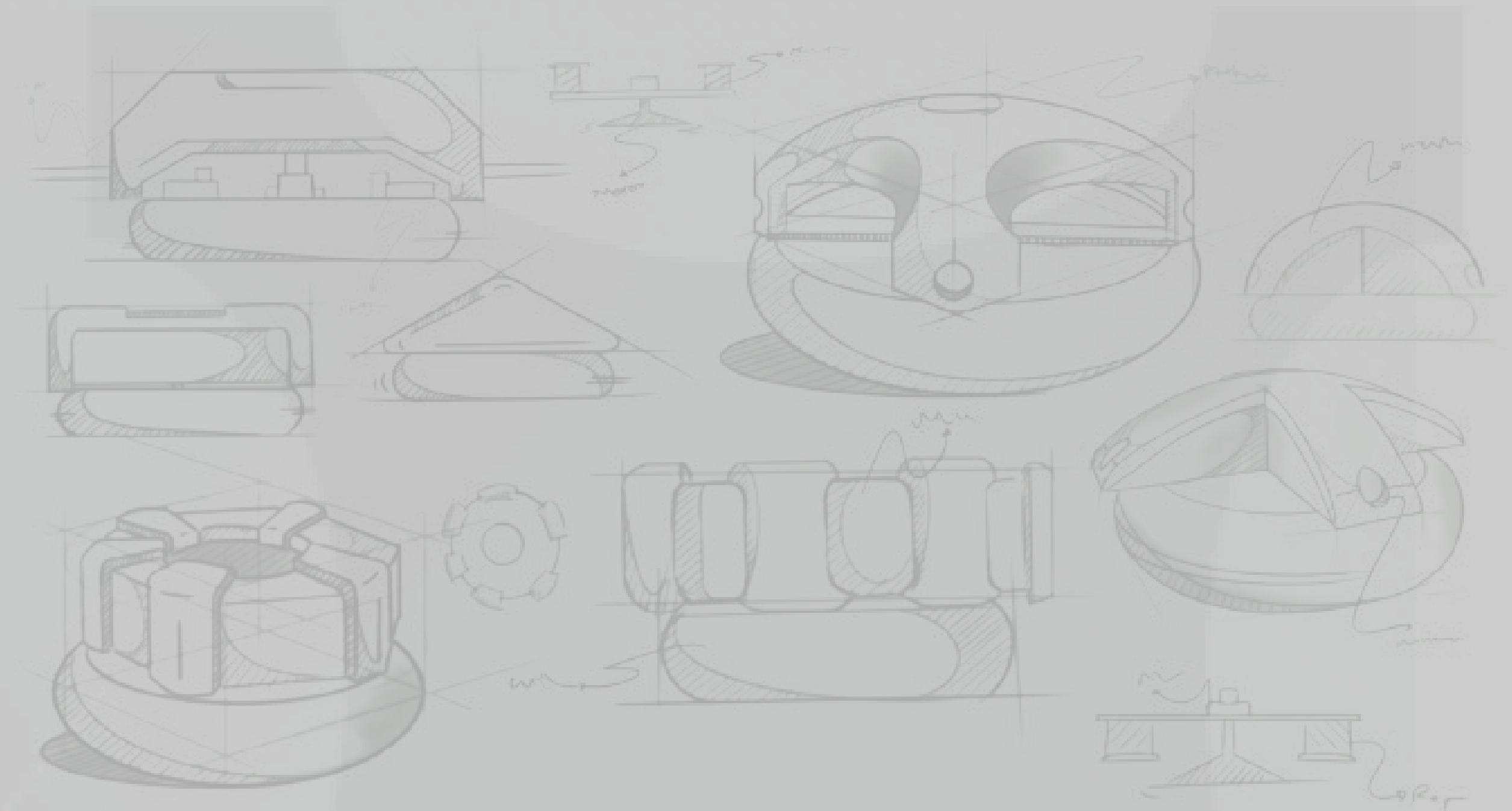
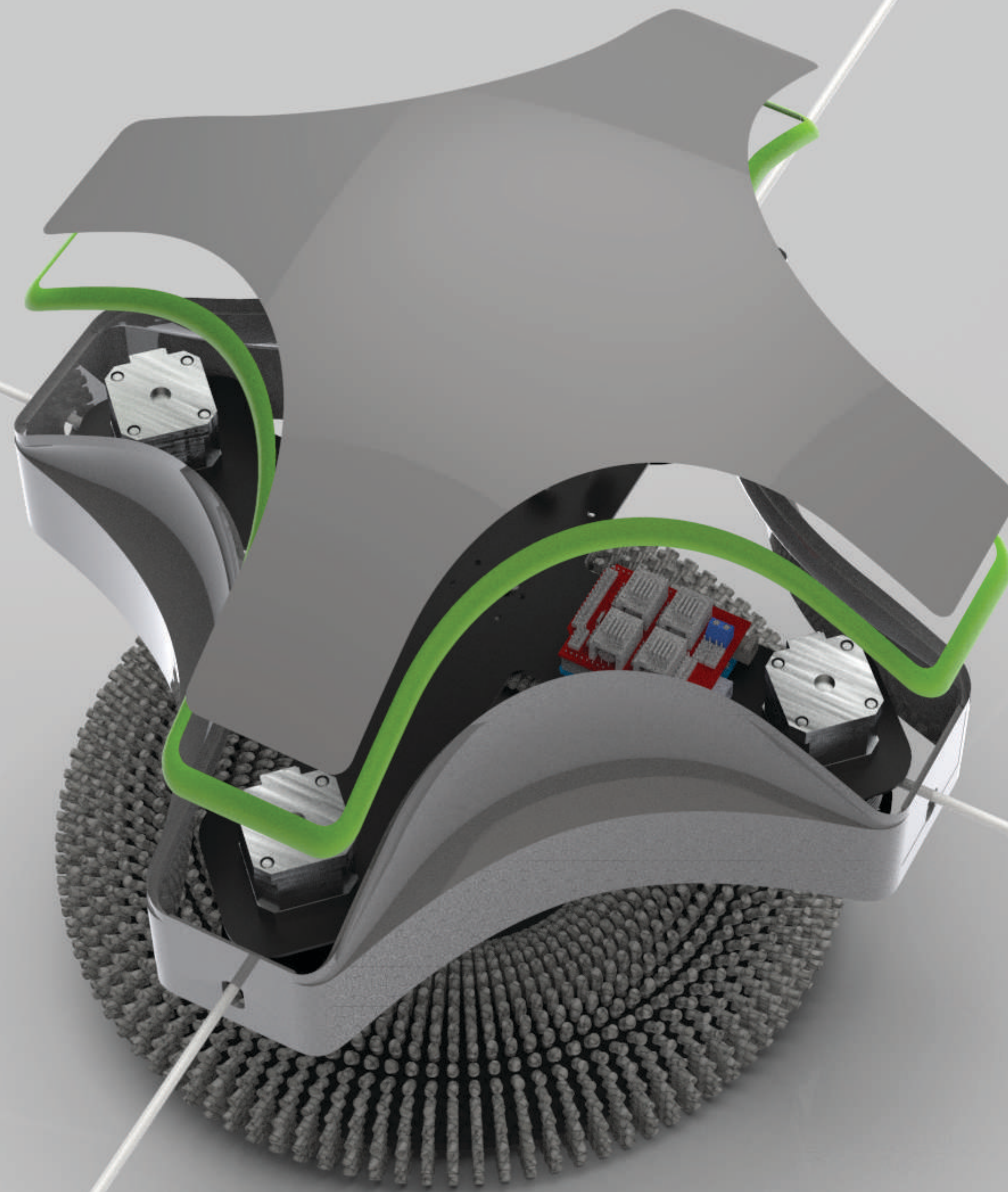
**Weatherproof and a scalable solution to cleaning of rooftop PV panels.**

Efficiency of solar panels reduces in relation to dirt or dust gathered over the top of panel. This product is aimed towards cleaning of panels in an effort less and automatic way.





The Automatic Solar Panel Cleaner



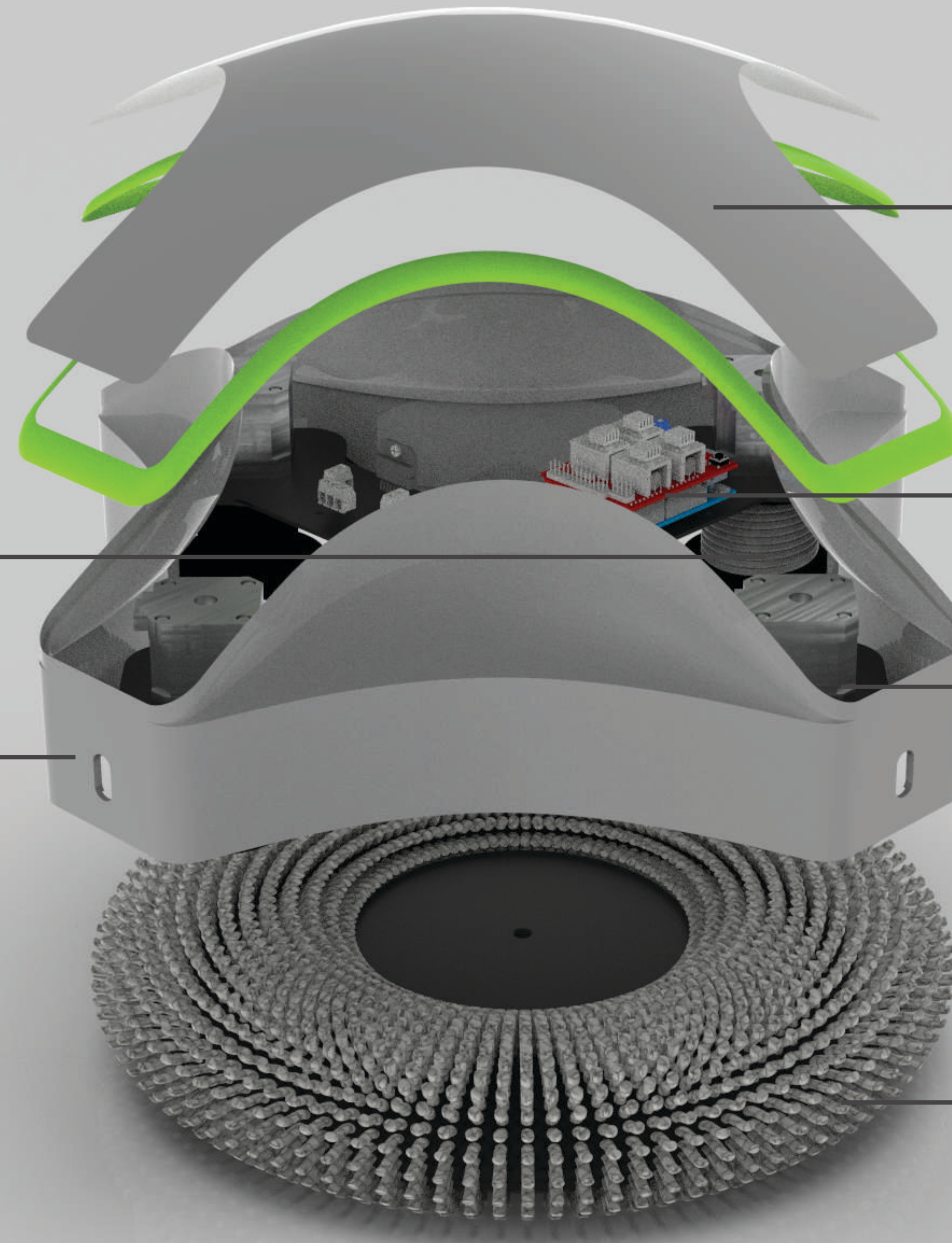
### Impact of Solis

The dust on the pv panels decreases the power generation Solis ensures that the panels remain clean and the output of the panels is the highest. It becomes difficult and dangerous for people to clean the panels at a height. Solis does the job seamlessly without any complication. Cleaning of the panels requires time and effort for a person. Solis being pre programmed and automatic does the job easily, saving the time and energy.





The Automatic Solar Panel Cleaner



HDPE (High Density Polyethelyne)

Pump & Motor Controller

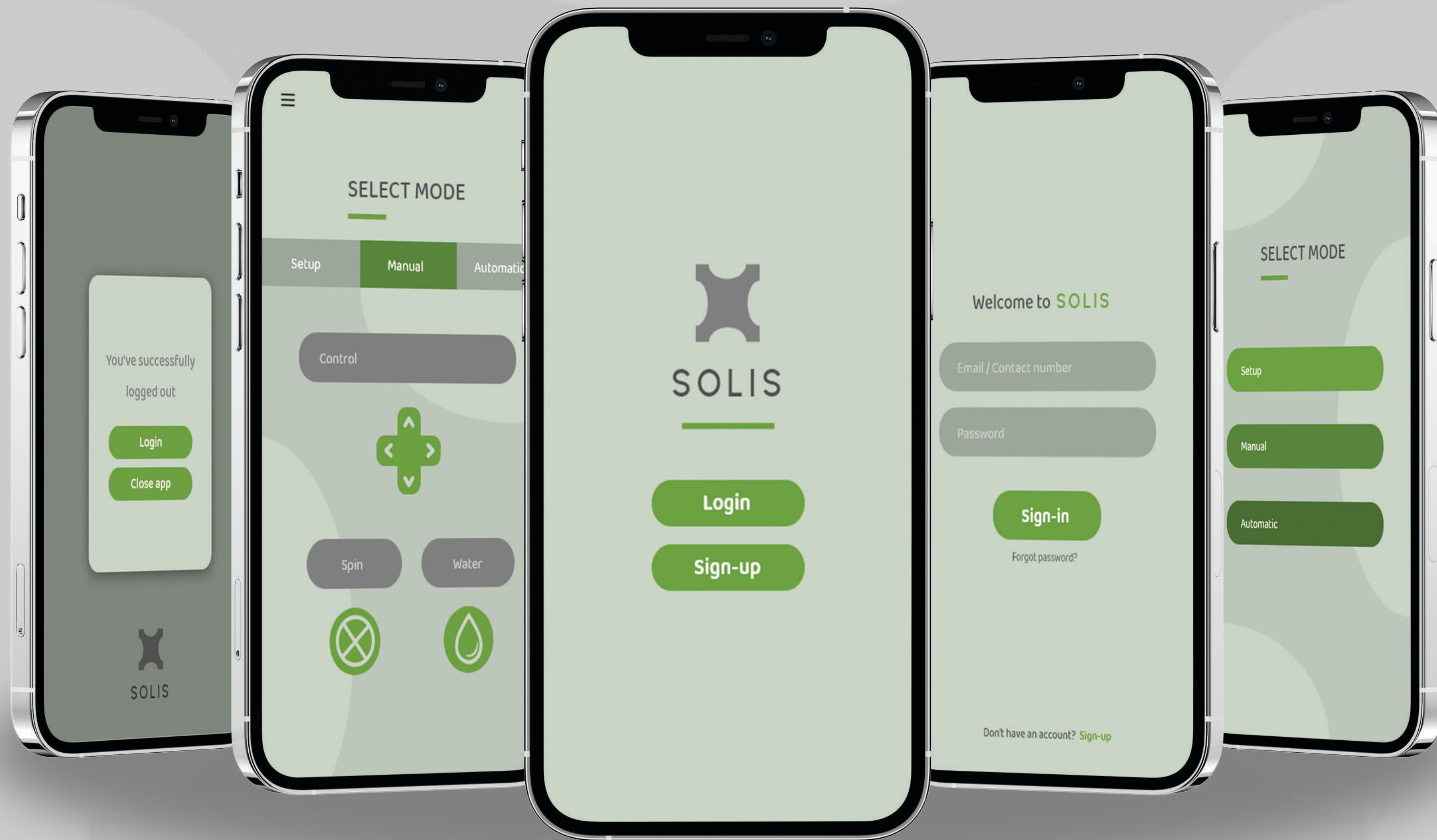
Stepper Motor

Scrach Proof cotton fabric mop

3D Printed parts

HDPE (High Density Polyethelyne)





The Future is **GREEN,**  
**DIGITAL & UNMANNED.**

The Future is **SOLIS.**



# 4. Design of Exhibition & Display Structures

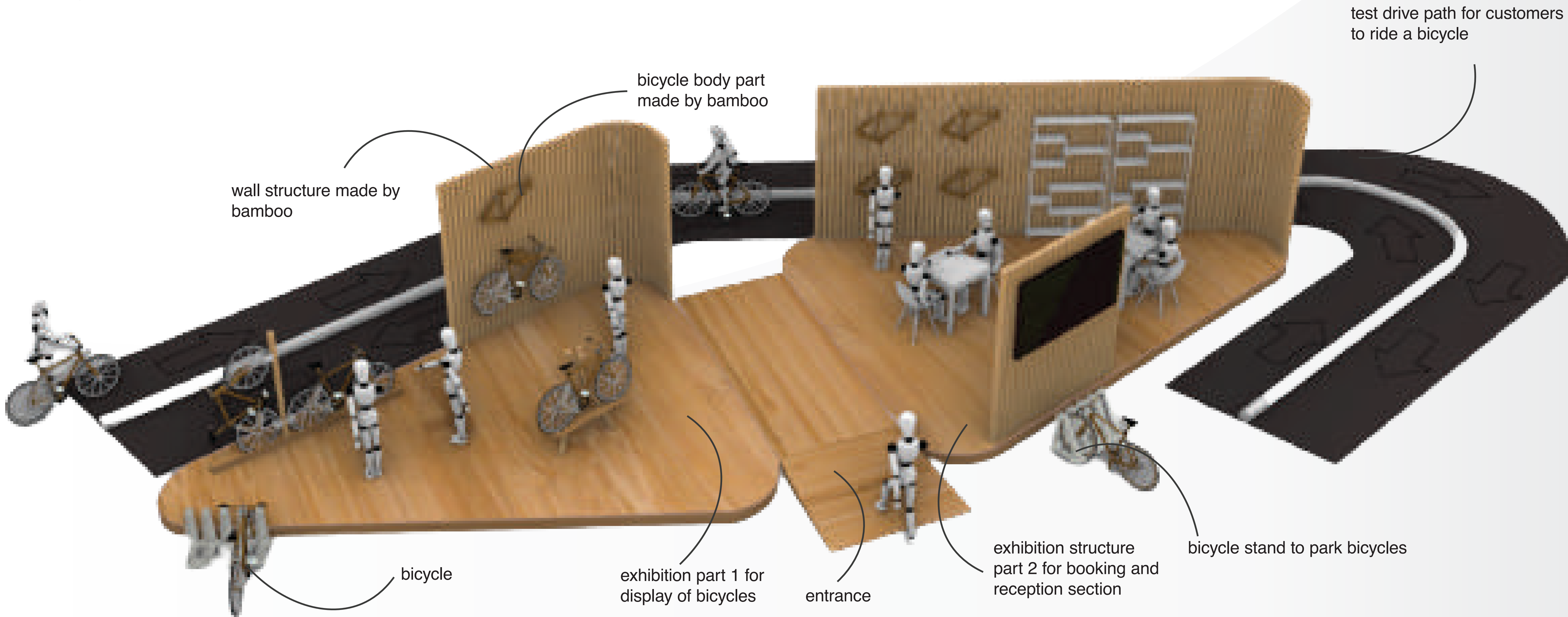
Bamboo is one of the strongest materials in nature, it can withstand up to 1ton/cm<sup>2</sup> of compression force, this is twice the tolerance of steel. Bamboo is also lighter, making it ideal for bicycle construction. Other incredible quality is that it absorbs as much as x4 more vibrations than carbon fiber, making our bikes, the smoothest bicycles (ideal for long rides). Neither bamboo nor carbon fiber are subject to fatigue. Your bike can endure daily use and falls without losing its strength.



**bamboocycles**

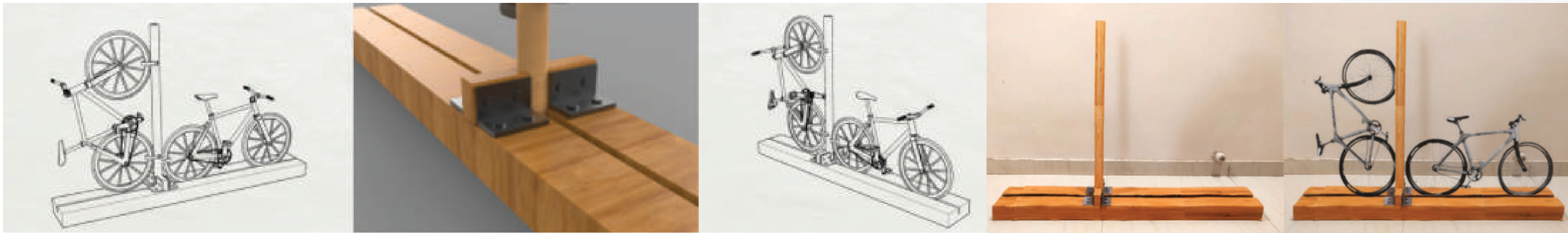


A semi-curved structure designed with bamboo that acts as a parking station for bicycles. The design is open air and does not have walls,thus providing an easy view of the elements within it. Surrounding it,lies a track where a person can ride the bicycle. The structure holds all the amenities required for a person, cafeteria,stand exhibition space.



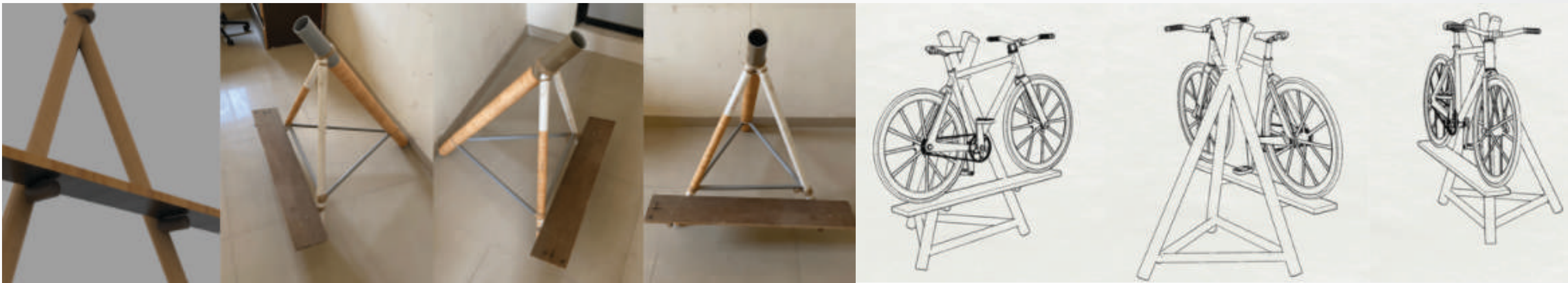


Various joineries are used to provide support for the stand. The elaborate design of it holds the whole structure well despite not being closed from either of the sides.



Our first structure of this exhibition which is made by our team. which is also made by bamboo it self to display those bicycles in bamboo cycles exhibition.

Our second structure of this exhibition which is made by our team. which is also made by bamboo it self. we create its prototype using plastic water pipes and plywood for display of those bicycles in bamboo cycles exhibition.





**THANK YOU!**