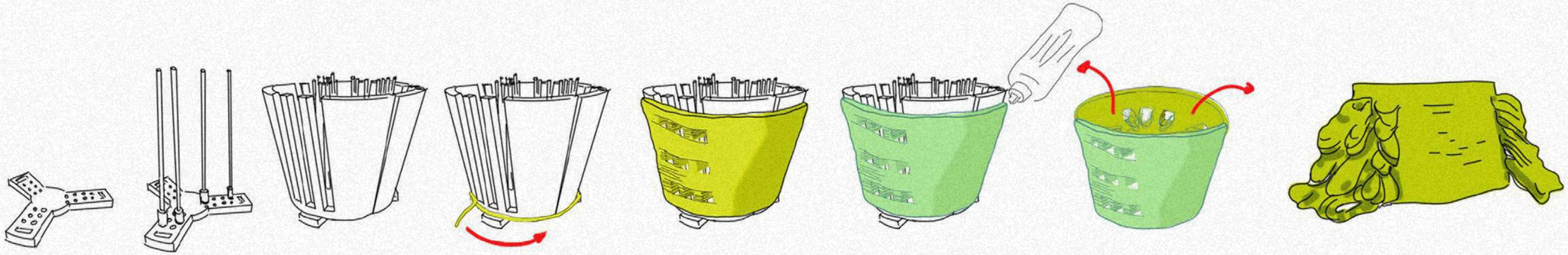
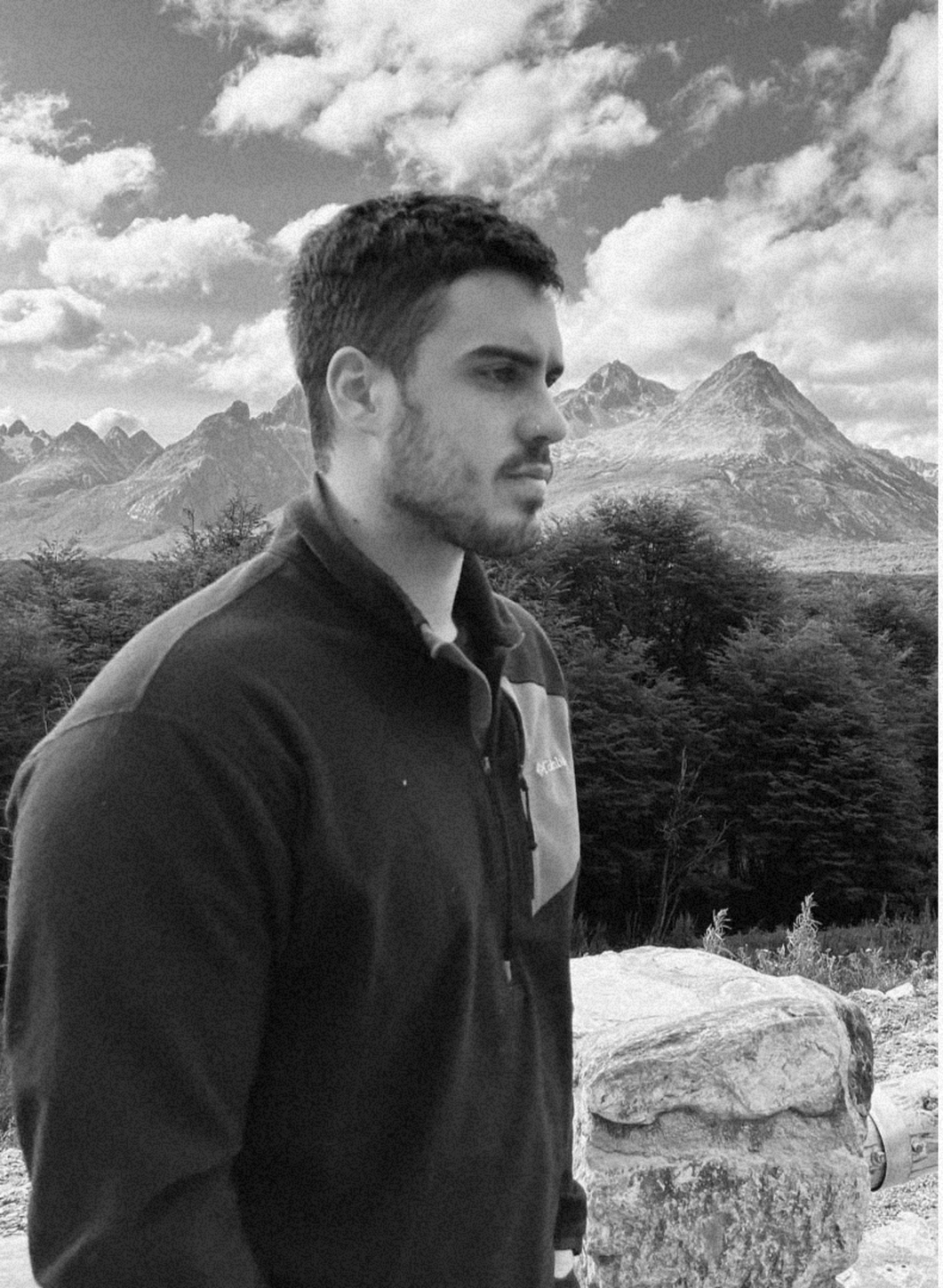
Portfolio

Dante Gutierrez

Industrial design

2025





Hi!, I'm Dante

This is my portfolio

I'm an Industrial Designer focused on product development, 3D visualization, and technical design. I work at the intersection of design, technology, and prototyping, combining strong CAD skills with a growing specialization in robotics, mechatronics, and interactive systems. My approach blends precision, experimentation, and aesthetics to create products and experiences that connect engineering with thoughtful design.

Skills

SOLIDWORKS · KeyShot

Education

Industrial design
2018-2024
— **UBA- FADU**

Experience

Industrial designer
2024-2025
— **MCL STUDIO**

Industrial designer
2022-2025
— **Estudio Alpina**

What’s inside?

01.

OSMO

Single-person electric vehicle for transportation and soda production..

02.

MÜTEK

Mülching system for small agricultural bussineses

03.

Process laboratory

Search for an alternative production process using conventional methods.

04.

ELUVIO

Hidroponic system for urban environments

05.

FUE-GO

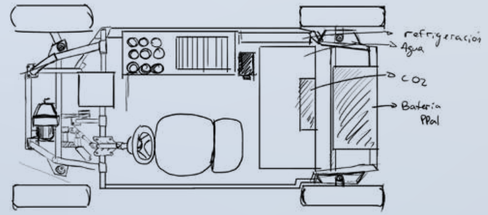
Fire igniting tool

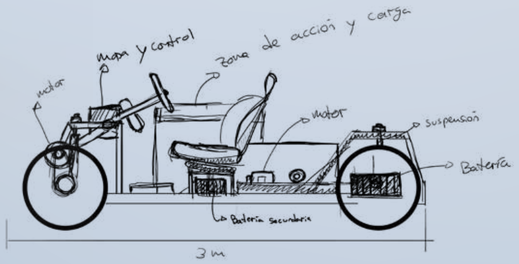
osmo

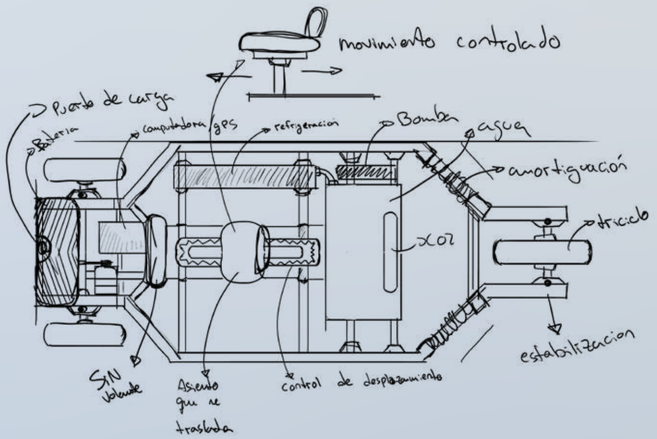
01.

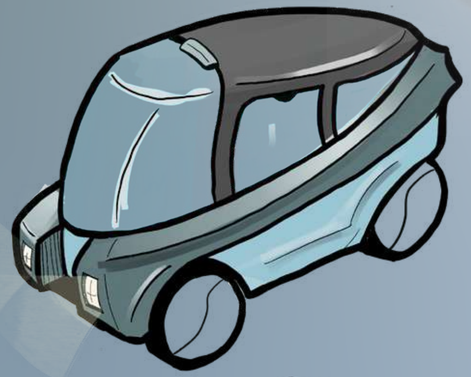
Single-person electric vehicle for transportation and soda production.

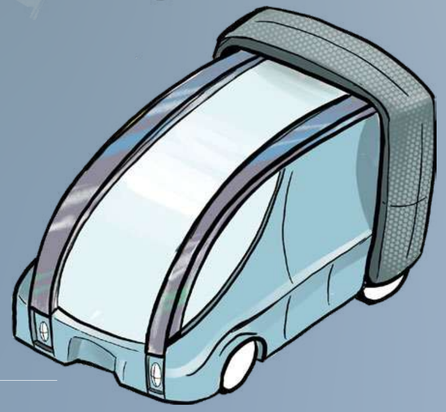
Design process

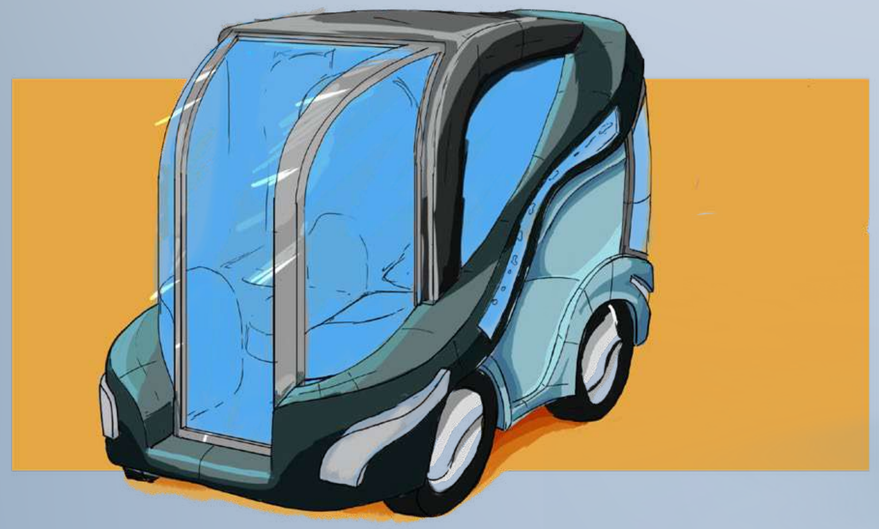













osmo

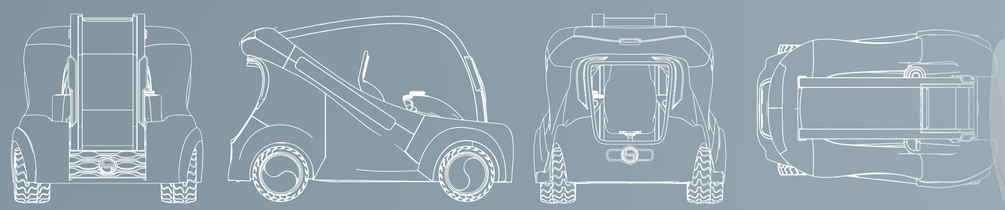

START
STOP


VELOCÍMETRO
90
35
0,2

Osmo - Fundamentals

After investigating, we design a unipersonal vehicle that It's the user to mak e the sparkling water inside it. The vehicle is autonomous and it's designed for a private suburb area, working for the sodastream brand.
This process requires a standarization for the costumers to obtain the quality they are aiming, giving a added value by adding custom flavour. It's also important to mantain a specific temperature for the gasification of the water to be optimal.

Technology

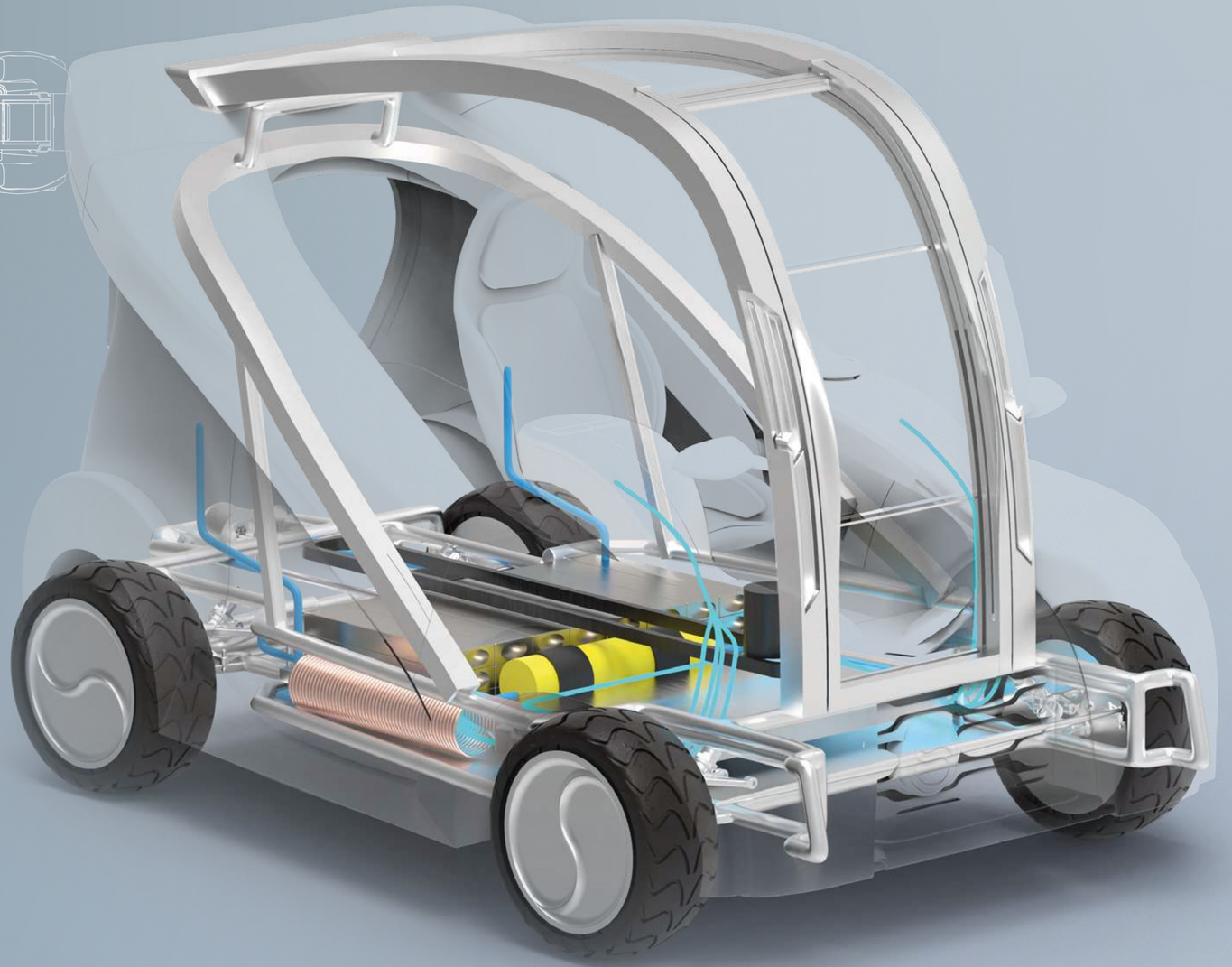


Suspension Monroe

This type of suspension give a wide range so that it can carry The diferent water weights.

Electrical vehicle

Operates on electrical power, which is charged through a charging pin, with the design adapted to the brand's semantics.

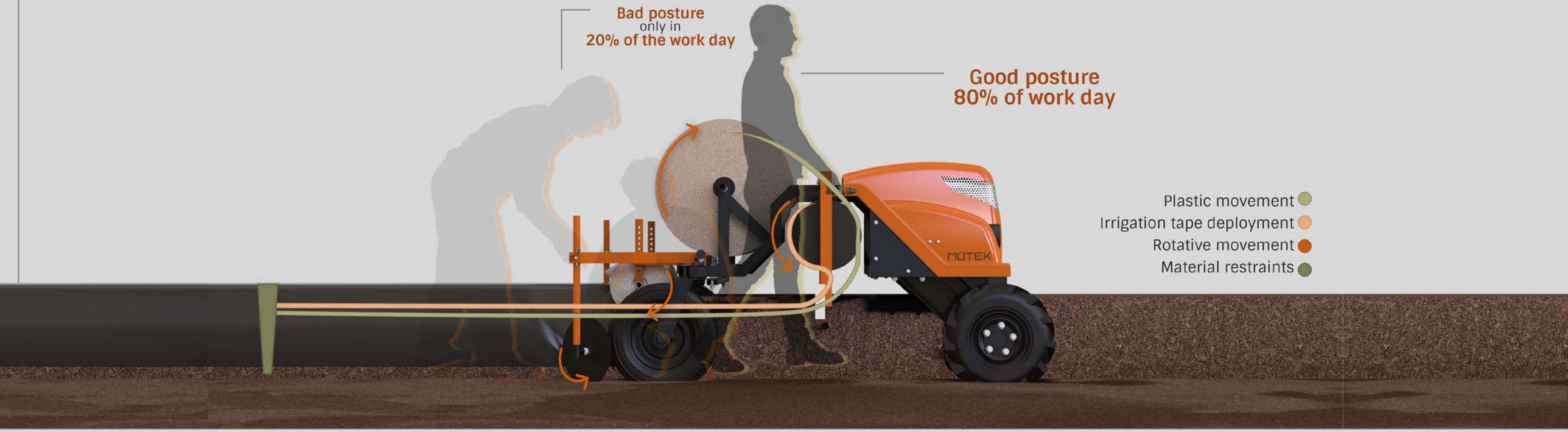


MÜTEK

02.

Mulching system for small agricultural bussineses

Effortless process *
55% reduction of bad posture *
Time and work **optimization** *



1 Plastic colocation

25 microns polietilene

2 Irrigation tape colocation

Under the plastic

3 Mud movement

On top of polietylene

4 Plastic cutting

For optimal plantation

Irrigation tape
Rollo de 3000mts

Bodywork
Termoformado PAI 3mm

Plastic
Rollo de 1000mts de
Polietileno de 25micrones

Plastic arms
Desplegables de SAE 1010

Lights
Led Barra Auxiliar Flood
48w 6500k

Plastic guide

Dented front wheels
3,50-6

Back wheels
400mm

Motor, chain and guide
Cadenas de Rodillo

Structure
SAE 1010

Autoleveling support
Ucp 205

Pins

Benches
SAE 1045

Clutch
Centrífugo

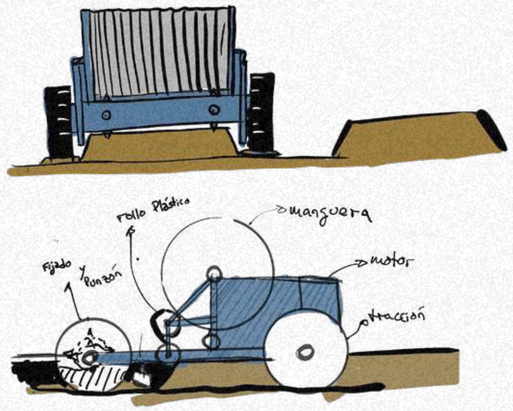
Motor
Eje Horizontal 6,5hp

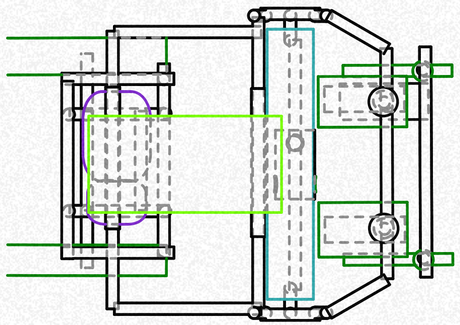
Cutting roll
Cilindro y Cuchillas Zincadas

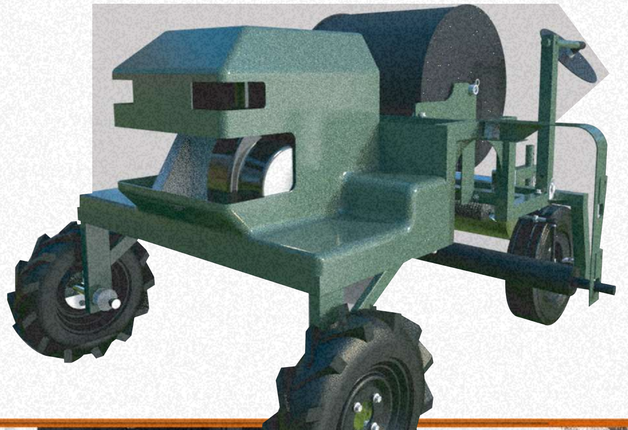
Asas
Discos de SAE 1045

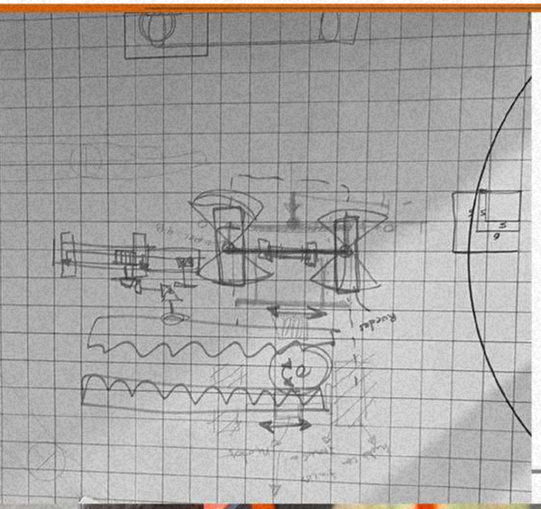
Mazas

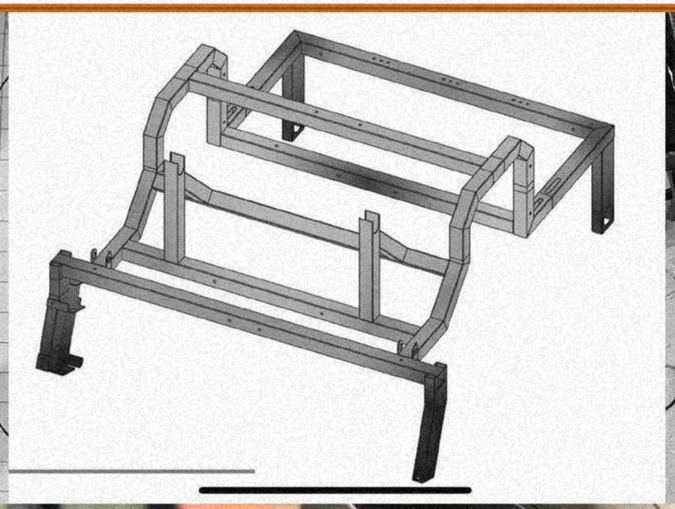
Design and prototype process

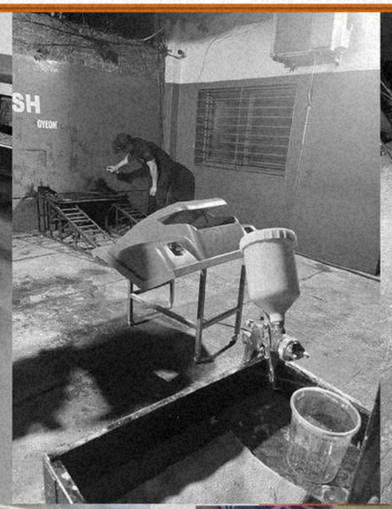












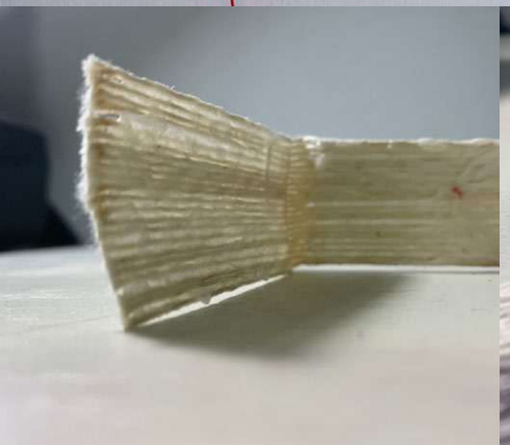
Process laboratory

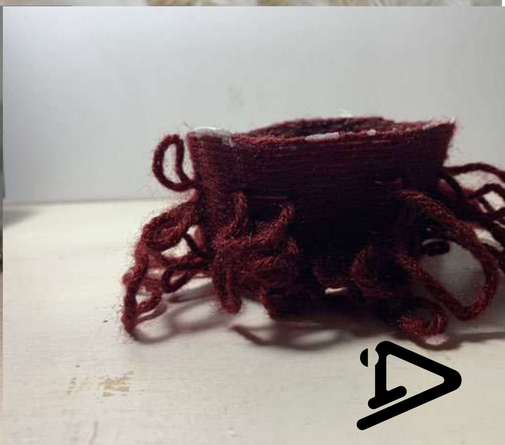
03.

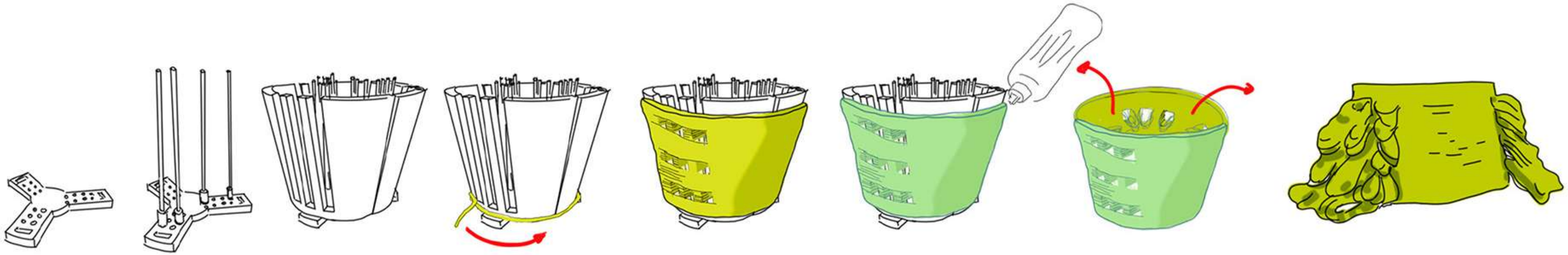
Search for an alternative production process using conventional methods.
Materials used: vinyl glue and cotton thread.

A container made of cotton thread, which, due to its simple morphology, being a thread wound in a tubular mold; but with apparent complexity, due to its changes in shape and its empty spaces, attracts the viewer's attention.

Conformation and design process







Components

- Thread: Cotton thread
- Adhesive: Carpenter's white glue (PVA glue)
- Mold: 3D-printed mold

Manufacturing Process

- Select the desired morphology using the mold's walls and towers.
- Position the walls on the base and place the towers in their corresponding locations.
- Begin wrapping the cotton thread around the mold.
- When reaching the openings, make five loops of thread that pass through them, hook onto the farthest towers, and return through the same opening they entered.
- Then make five additional loops without going through the openings.
- As the product takes shape, the threads that pass through the openings should now hook onto the closest towers to follow the geometry.
- Once the desired height is reached, apply PVA glue over the entire outer surface, allow it to dry completely, and then demold.

Characteristics

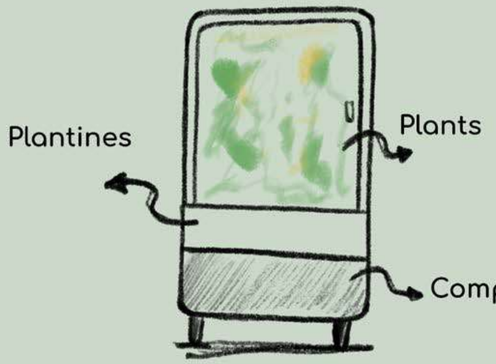
- This process creates a visual tension between the glued and unglued areas due to their differing rigidity. As a result, the object gives the impression that it might come apart in certain sections, while still consistently maintaining its overall form.

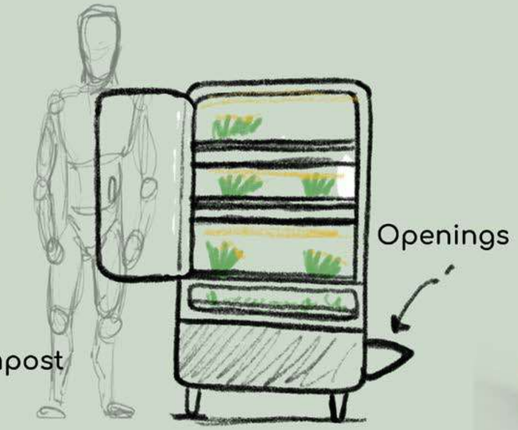
ELUVIO

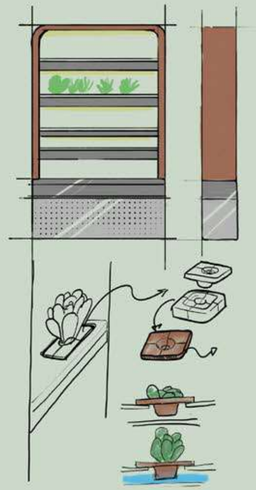
04. *Hydroponic cultivation furniture for urban environments*

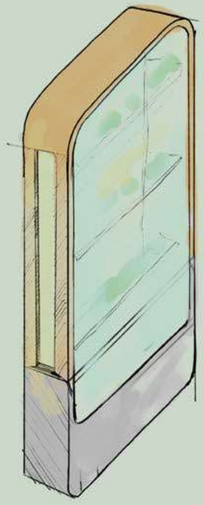
Context
The artifact is designed for the home living room in urban environments.
User
An active grower seeking to make the practice more technical, knowledgeable about vegetable cultivation, and aiming to produce their own food inside their home without compromising its aesthetics.
Concept / Guiding Idea
To enable people to connect with their food, create a space for critical thinking, and reduce the carbon footprint associated with food production.
Positioning
Food cultivation seen from a healthy perspective and as an opportunity for connection,
creating cultural bonds and providing a space for critical thinking through the generation of interest.

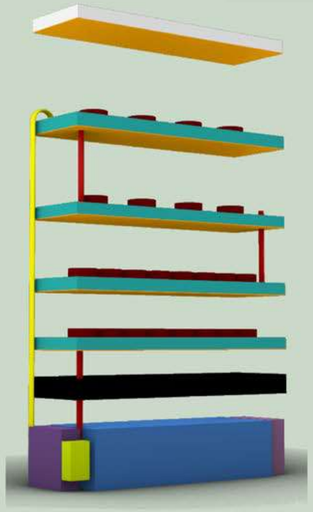
Iterations

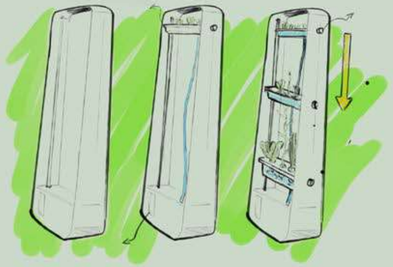


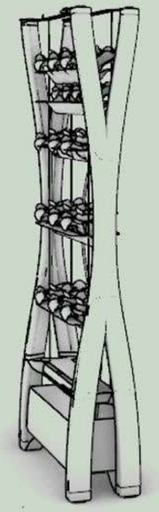


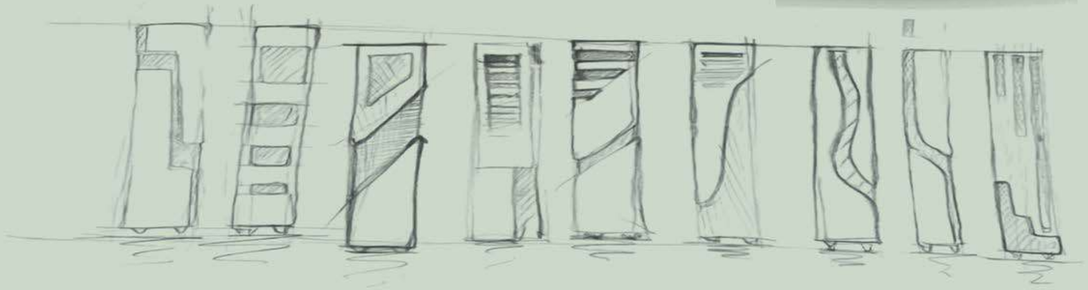










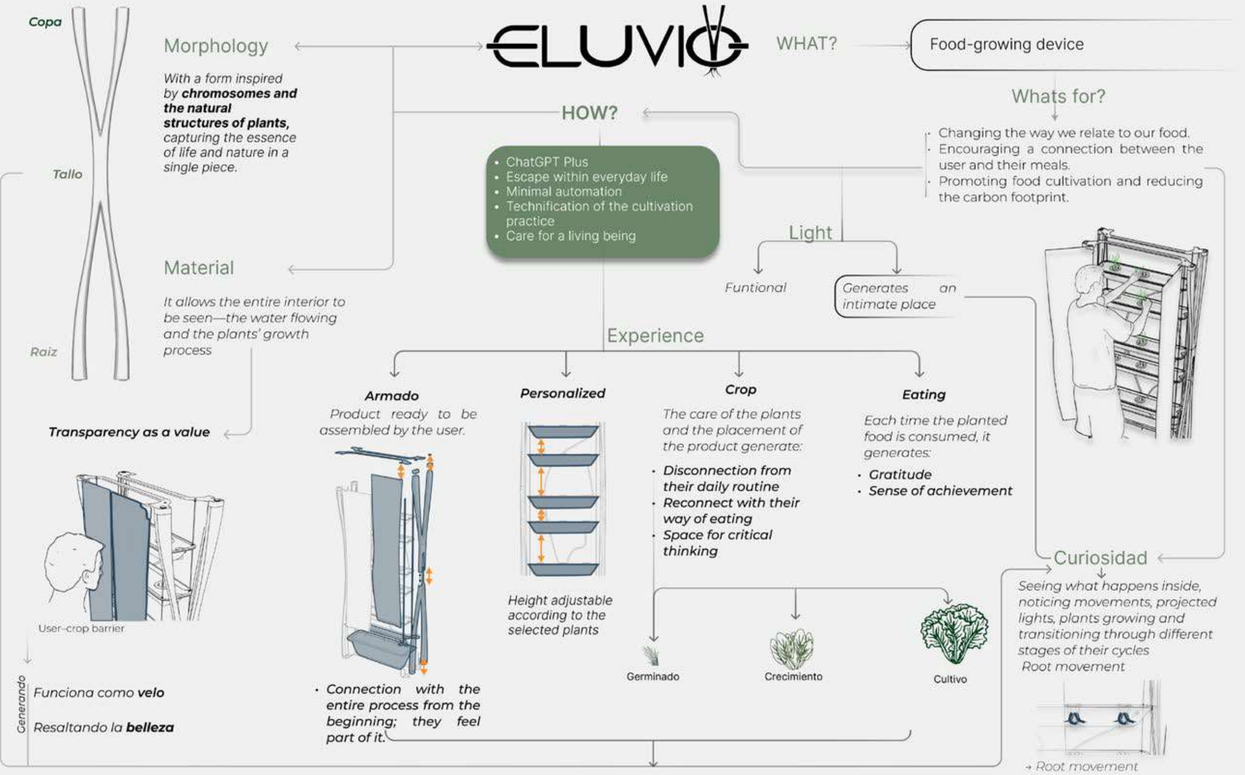






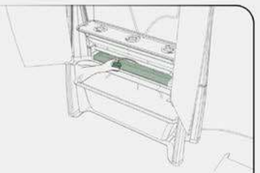




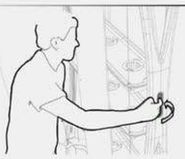


1


The pH of the water is measured and the nutrient solution is added

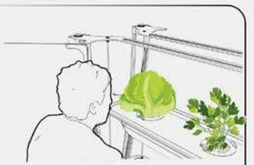

Seeds are placed to germinate


The height of the trays is adjusted according to the type of crop


The pump and lights are turned on


The plants are transplanted into the system


Every one or two weeks, nutrients and pH are checked to ensure proper levels


Leaves are checked for discoloration or insects


After the plant's growth period, when it is ready, it is harvested

PEABODY | FUE-GO

Fire is part of the culture and tradition of our country and many others around the world. It symbolizes history, stories, and togetherness, living both inside and outside our homes. The fire oxygenator is a tool that helps ignite and revive the fire in a safe and efficient way.

Eficient Ecologic Social Safe

PEABODY

PEABODY

Difuser
movimiento angular

Bioplastic grip

UX

Allows for faster and more efficient fire ignition, without the need to blow on it or use dangerous techniques.

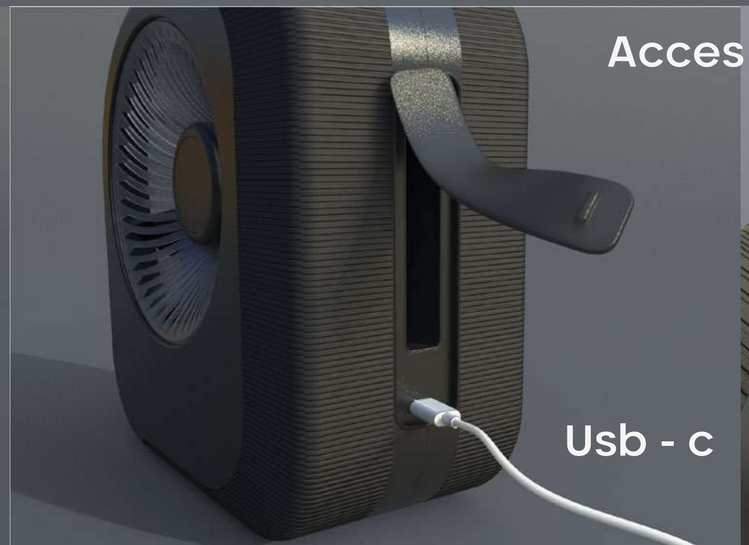
Charging pin

1500 rpm — 3500 rpm

Temperature sensor

Acces to the lighter container

Saved for transport

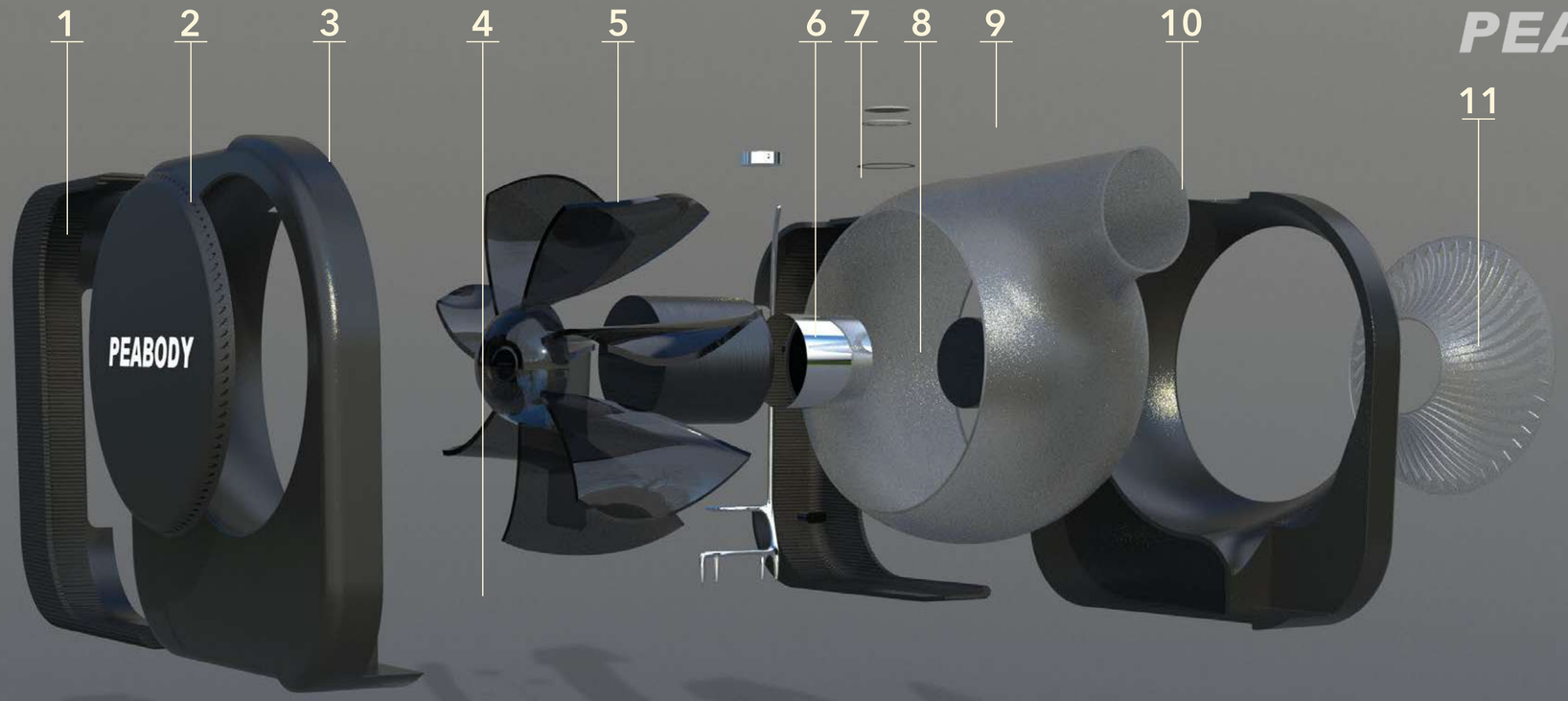


Usb - c

Botón on/off

Optimized fins

N°	Nombre	Material
1	.Grip	.Plastic
2	.Fin casing	.Metal
3	.Casing	.Metal
4	.Battery	———
5	.Fins	.Plastic
6	.insterlock	.Plastic
7	.Charging pin	———
8	.Motor	———
9	.Button	.Plastic
10	.Turbine	.Plastic
11	.Air entrance	.Plastic Translucid

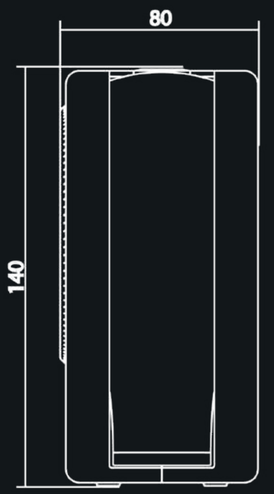


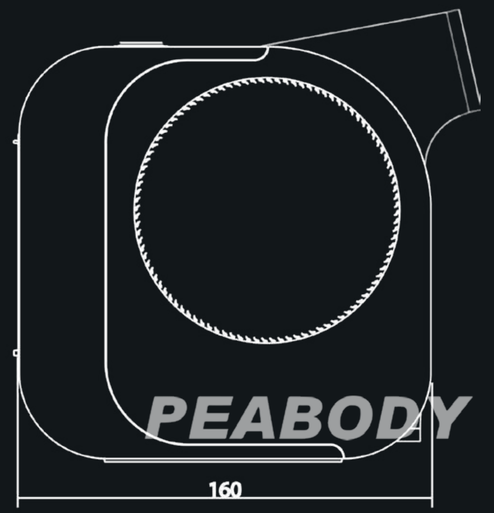
Sustainability

Regarding sustainability, the product is used to avoid relying on combustible materials when starting a fire, while also incorporating an environmentally conscious approach by reducing the use of materials that, when burned, release unwanted gases.
Additionally, it reduces the need for paper and other types of fuel, lowering the amount of waste generated.

Technology

Action distance



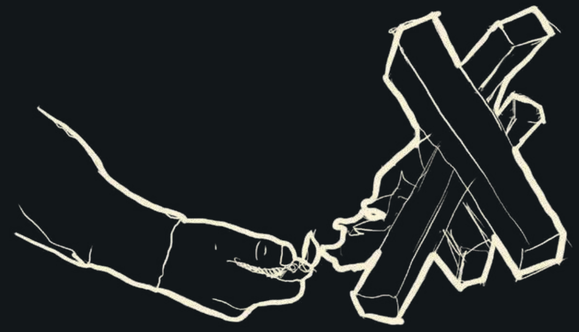


Use

1

Building the fire

2



Lighting the fire

3

Positioning the product

4

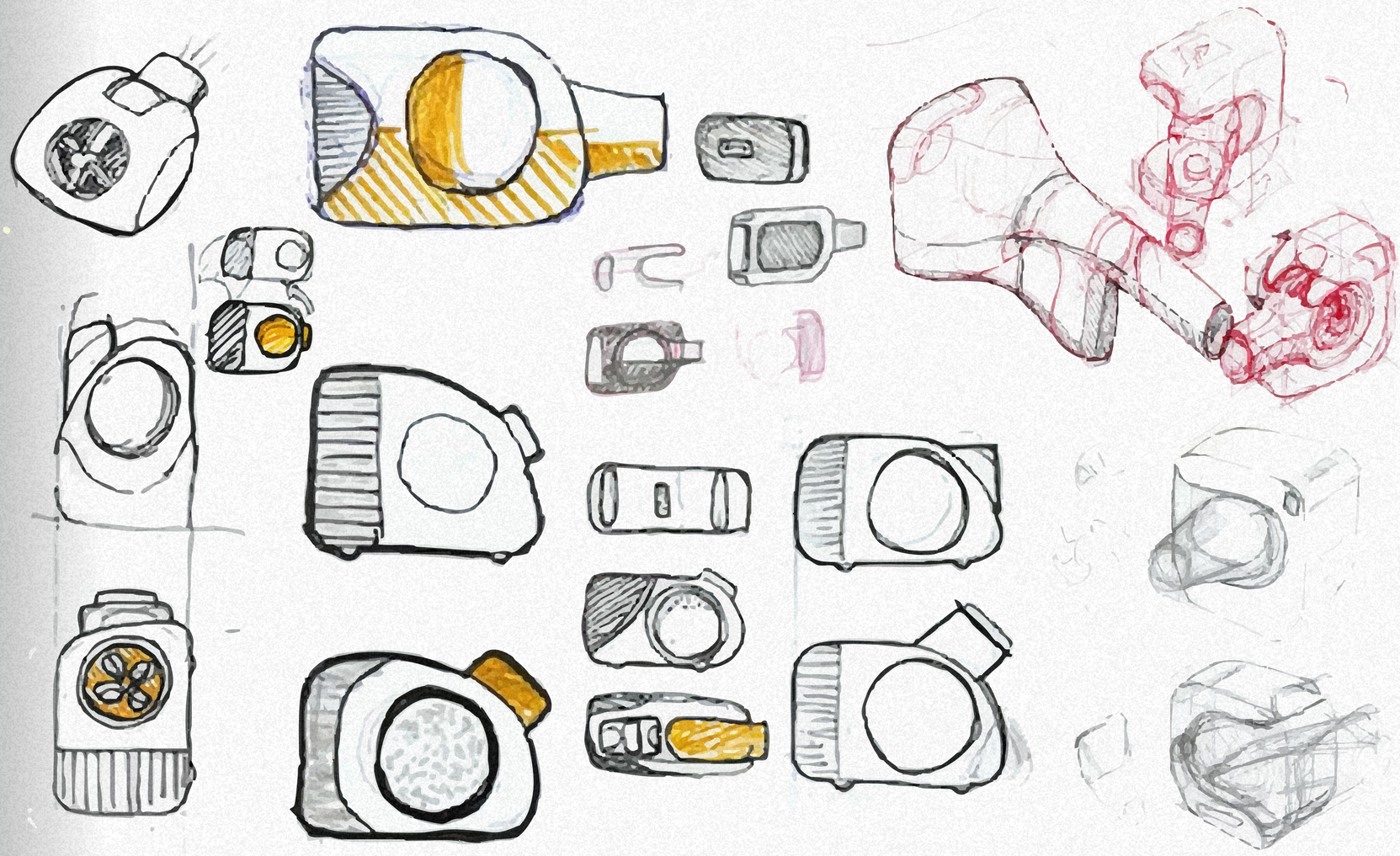
Pointing it to the fire

5

Turning on the product

Iterations and design process

We went throught a lot of iteration searching for a funcional but esteathically pleasing product, that could be near the fire but also could be savend in a kitchen cabinet



Thank you for your time!

Dante Gutierrez

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