



**ROMARIC  
DELAHAIE  
BOOK.**

2

0

2

0



ME.



ROMARIC.DELAHAIE@GMAIL.COM

+33 6 61 76 56 94

VISIT MY CV



### ► **Engineer, Product Designer, Entrepreneur**

Hi, I am Romaric and this Portfolio showcases 3 years of both school and personal projects. My Mechanical Engineering Degree combined with my Master's degree in Industrial Design allows me to think products as a whole from A to Z. Every single product you will see were thought, designed and engineered by myself.



### ► **My vision of high-end value products**

To me, one of the keys to a cleaner future is for users to have fewer objects that do more. It is part of my engineering and designer role to take part in this evolution, by developing clever and appealing products that combined several features together.

# JUMBLE.

## ► A modern shopping trolley bag

The goal was to imagine a shopping trolley to fit young adults needs. I wanted a cute robot type product that could follow you everywhere and extend itself when needed.



2 M



SOLO



2018

SKETCH

DESIGN

ENGINEERING

CAD

RENDERING

PROTOTYPING



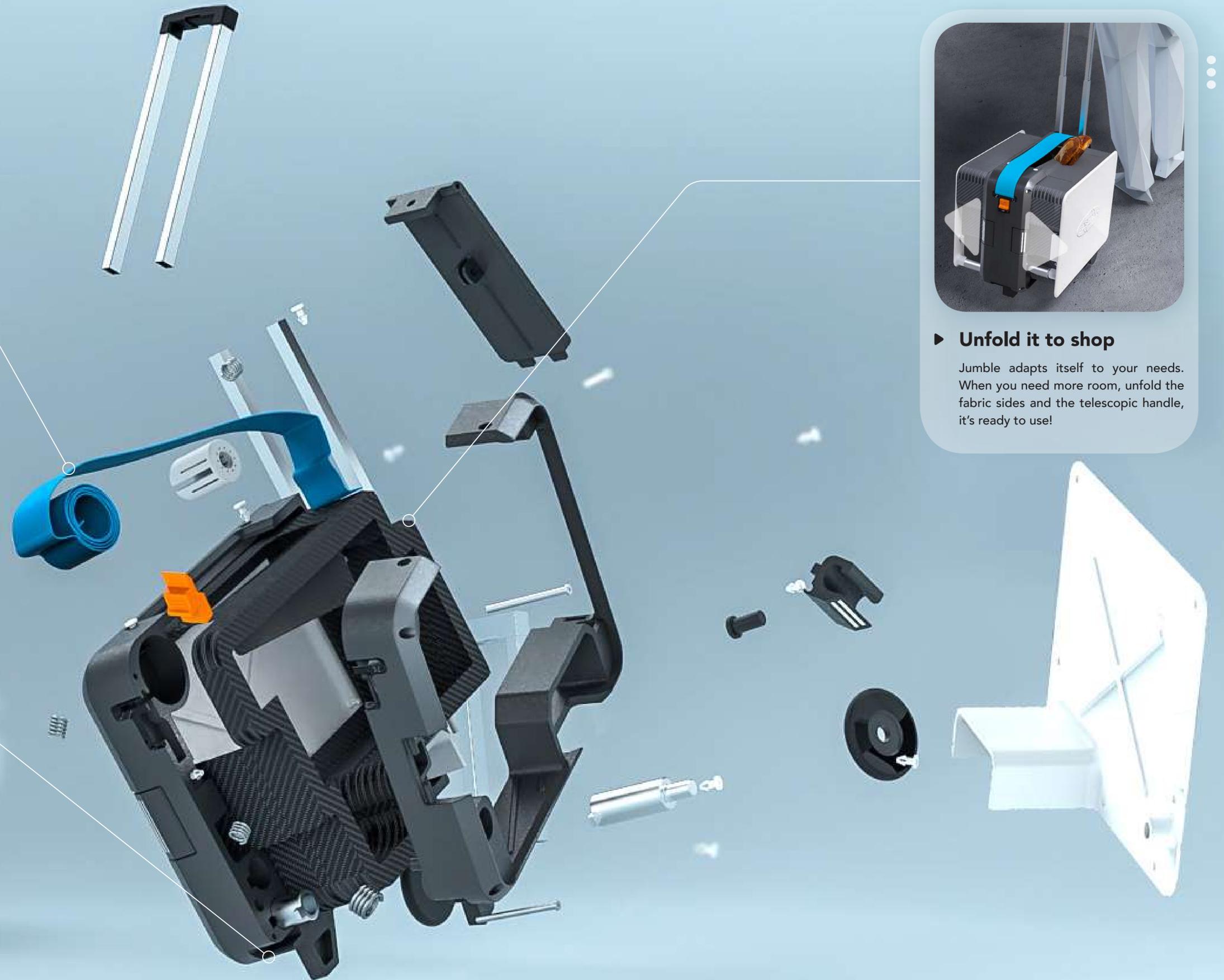
### ► Your daily bag

Because young active people do small food shopping at random times, they always need a shopping bag with them.



### ► Ride with it

Combination with the bike was key to build a clever city device. The dock was fully designed and engineered as well.

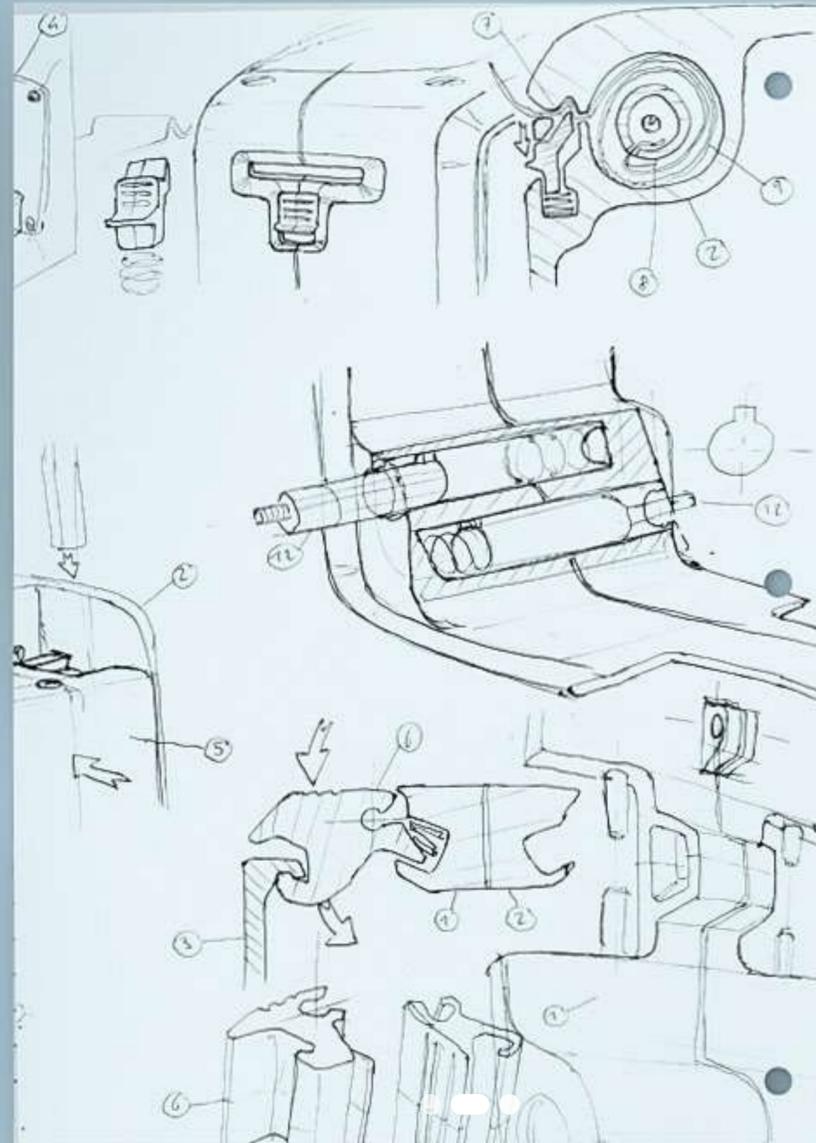
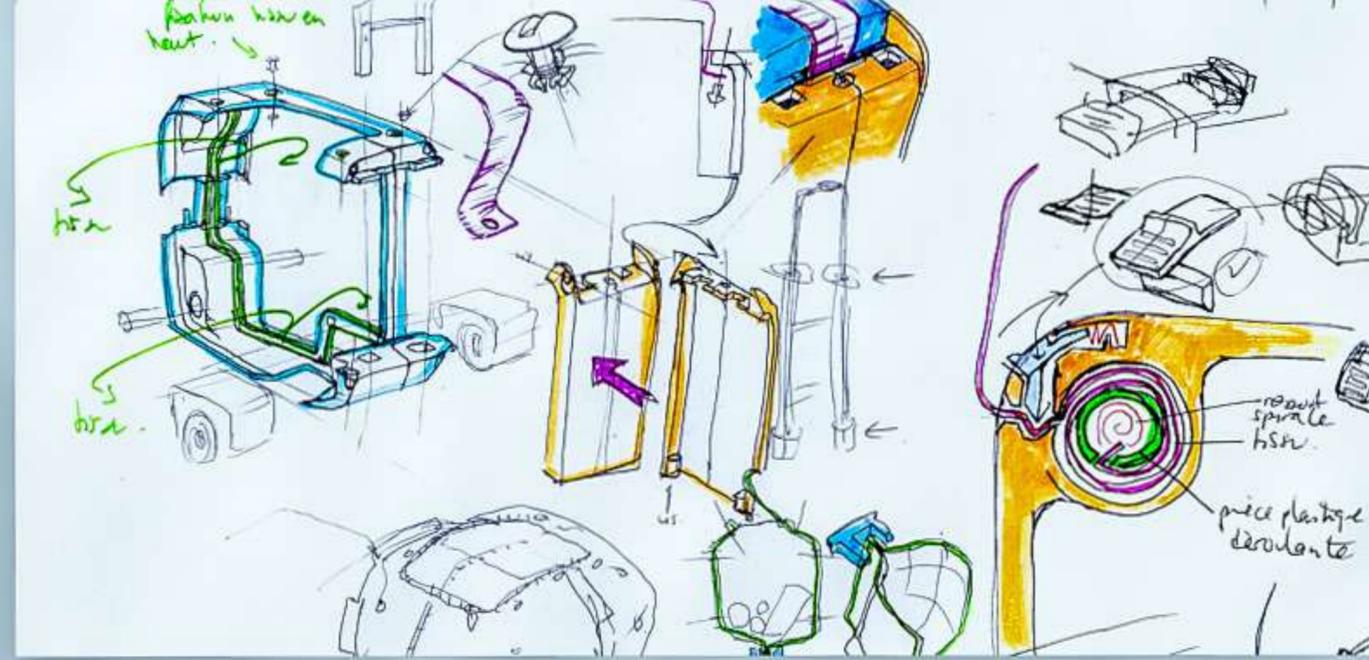
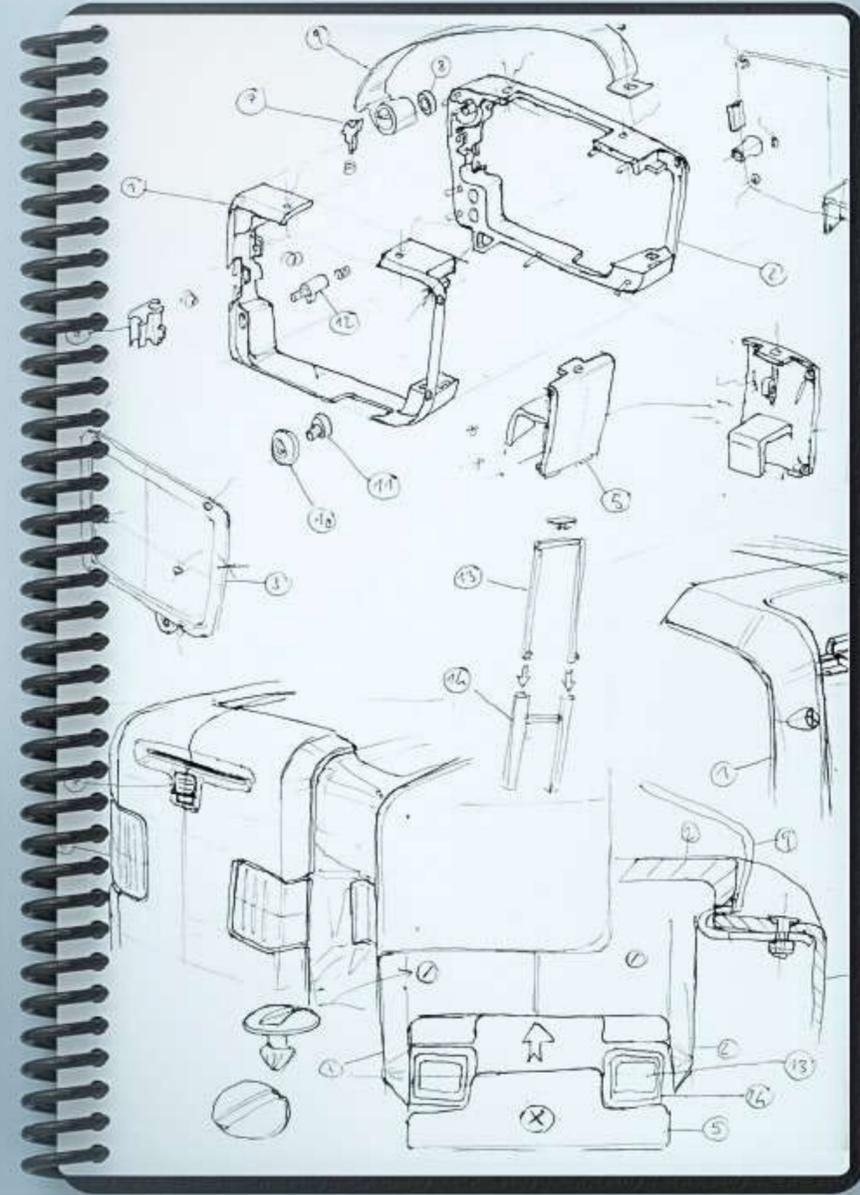


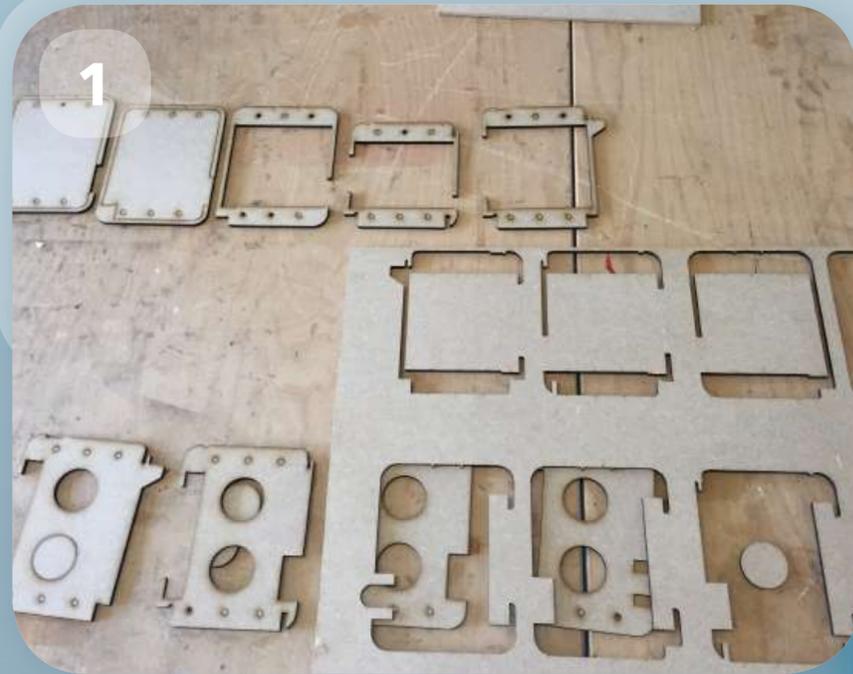
### ► Unfold it to shop

Jumble adapts itself to your needs. When you need more room, unfold the fabric sides and the telescopic handle, it's ready to use!

► **Carefully engineered**

I worked on both CAD and paper sketches to achieve various technical challenges. Jumble has been carefully crafted to be appealing and manufacturable.





► **A 1:3 scale mock-up**

I wanted the prototype to be highly loyal to the shapes of the real product. To do so, I decided to use a sandwich approach, by combining 12 medium boards designed in CAD beforehand.



► **Semi-functional prototype**

I used a simple telescopic plastic tube mechanism to enable one door to open as the final product would do.



► **Surface quality work**

I used numerous amount of finishing coating to finalized the exterior aspect of the product. Only then, I covered it with several layers of paint.



► **A faithful 1:3 size mock-up**

The final mock-up validated my product assumptions in terms of shape and volume.

[SEE MORE ON MY WEBSITE](#)

# B-EVE.

## ► From an anti-aggression bracelet

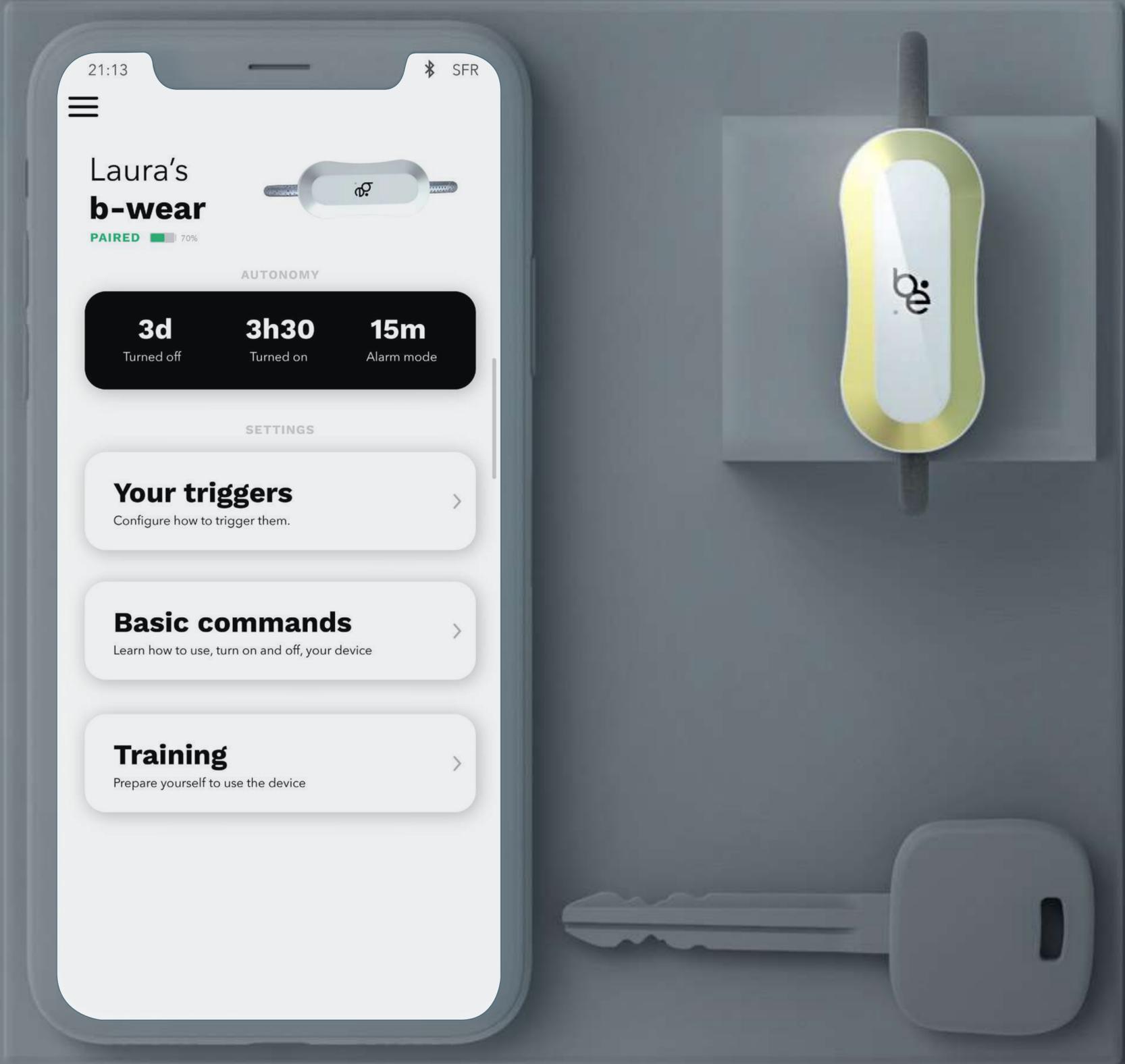
In 2018 I started a project with one simple goal: find an ingenious way of answering women street aggressions. Our answer was a revolutionary bracelet that won 3 awards including the Dyson Award in 2019.

## ► To a french start-up

After receiving great feedback from public and victims of aggressions, and followed by several industrial actors willing to help me, I decided to start my own start-up to launch this product. 8 months later, after an incredible adventure, I am now moving forward.

2 YEARS    DUO    2020

SKETCH    DESIGN  
ENGINEERING    CAD  
RENDERING    PROTOTYPING  
UX | UI DESIGN    BRAND IMAGE





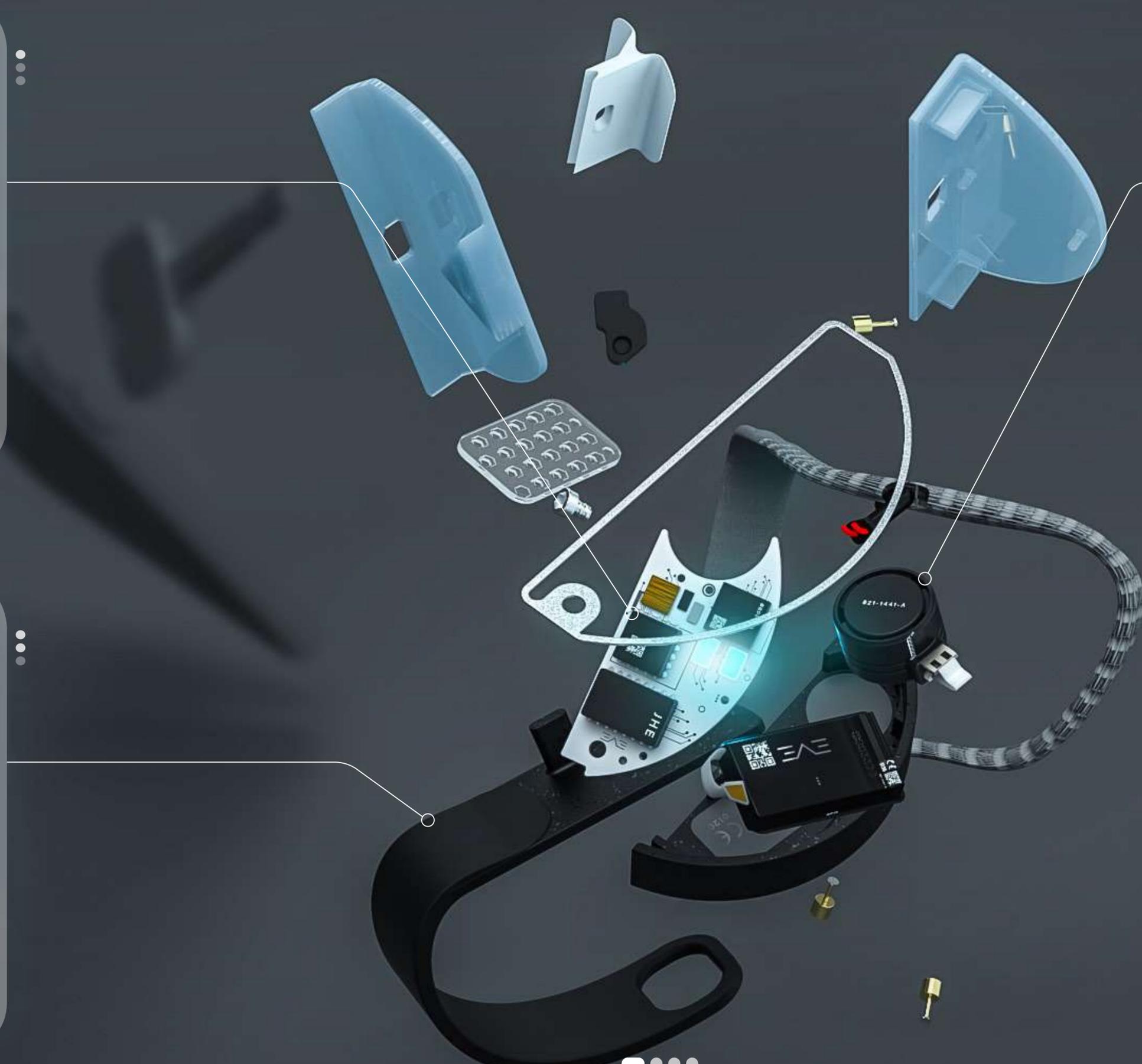
► **Shake it to activate it**

Once on your wrist, the device detects it allowing you to turn it on by shaking it 3 times.



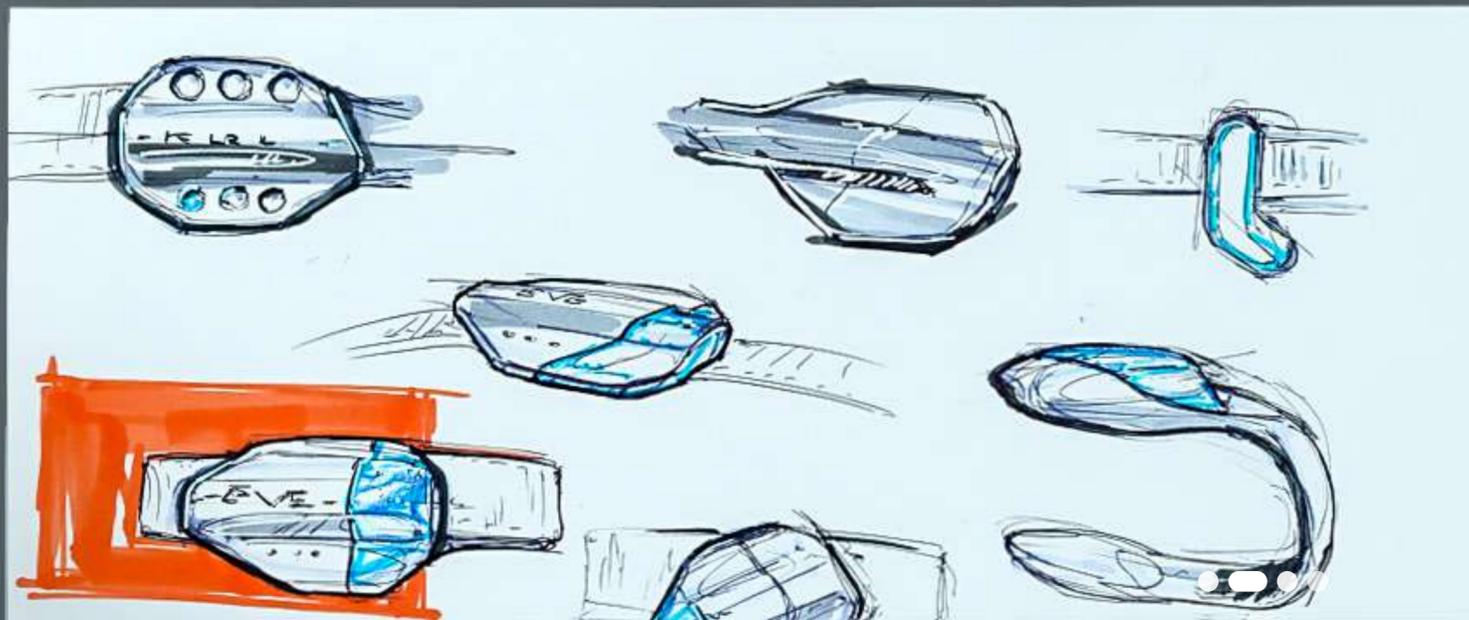
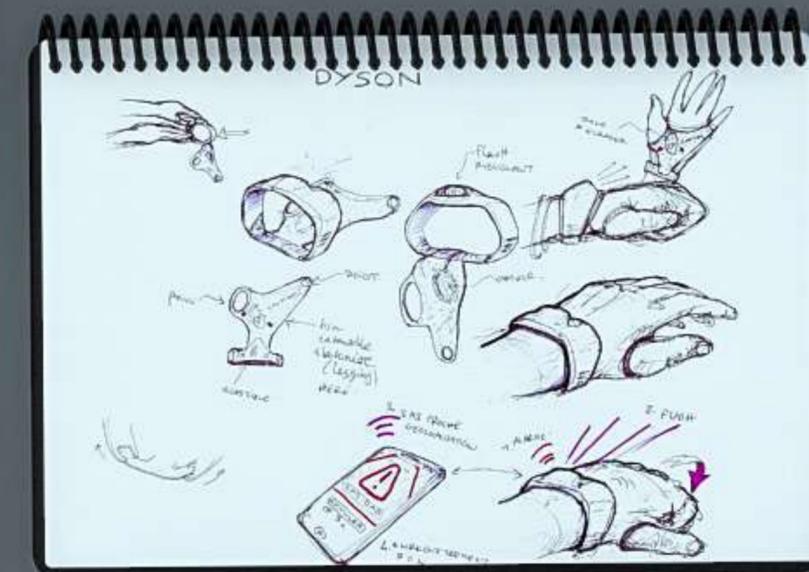
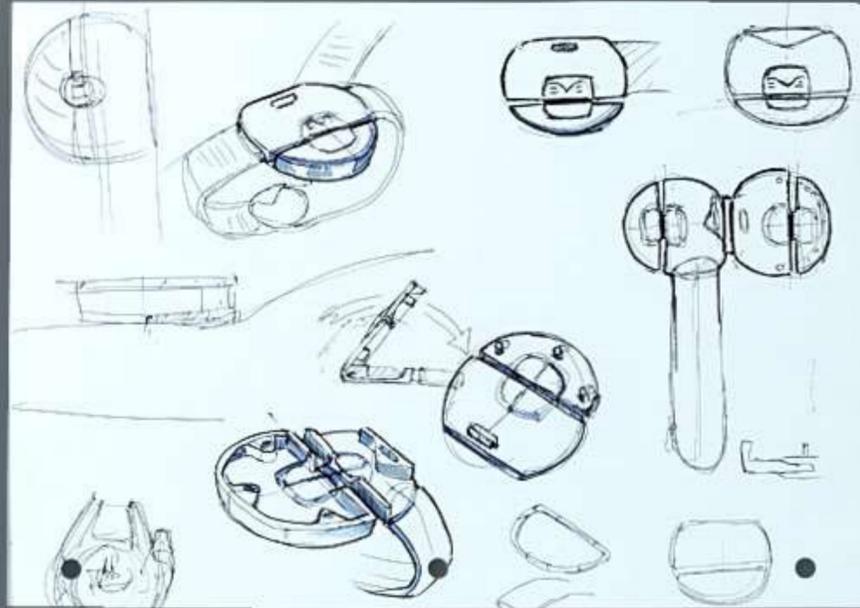
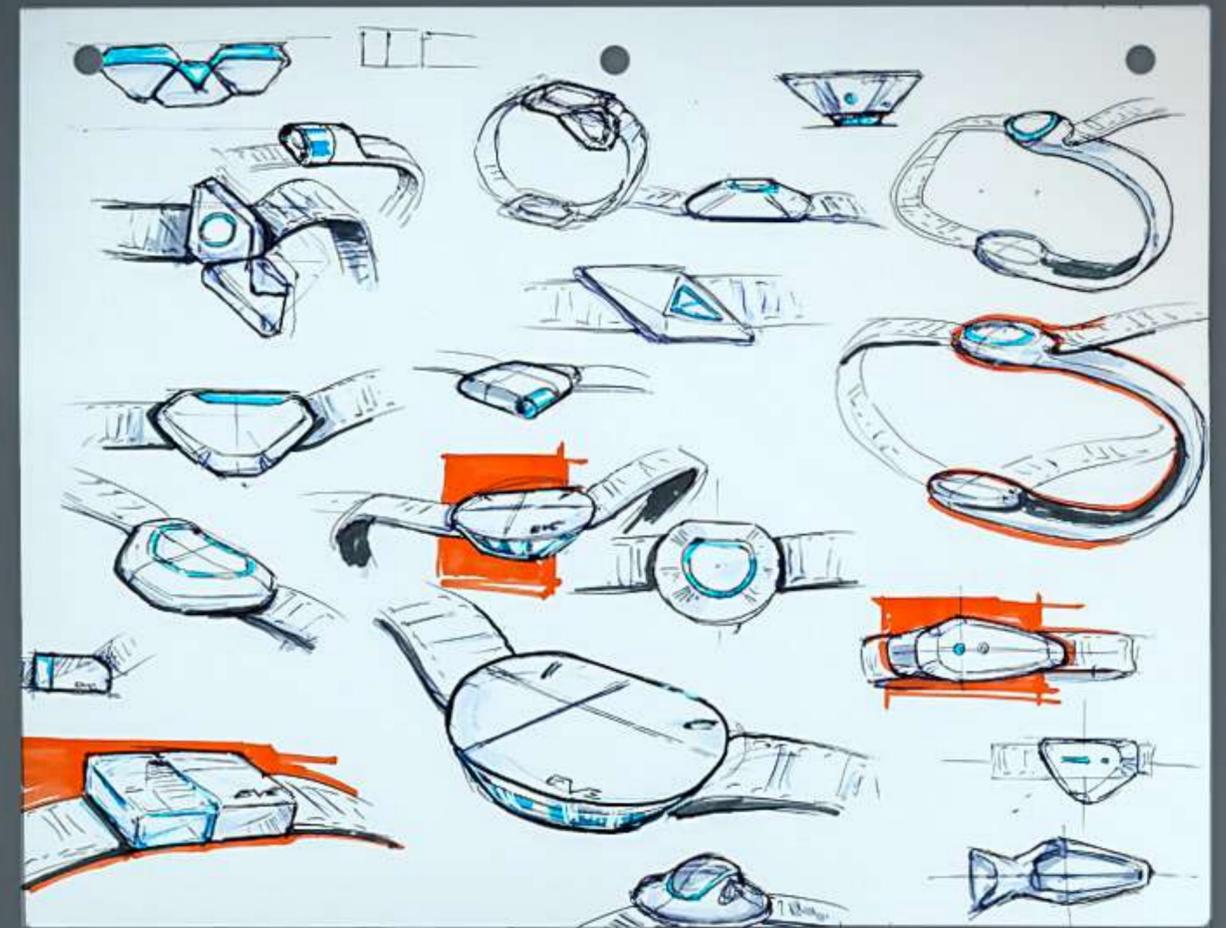
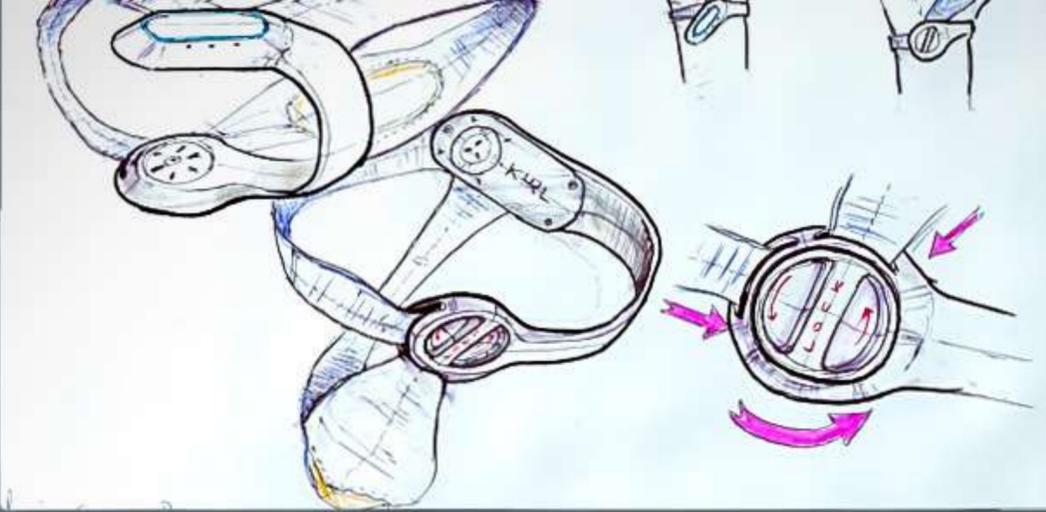
► **The original design**

This is the concept that won the Dyson Award. When I created the brand b-eve, I redesigned it and evolved some features to fit the target better.



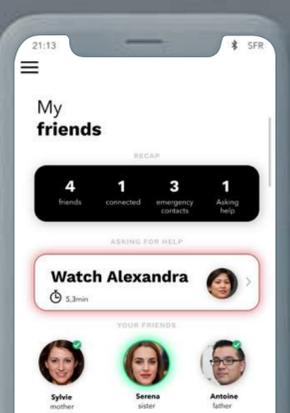
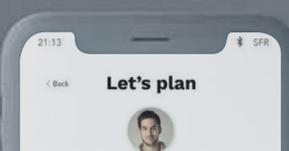
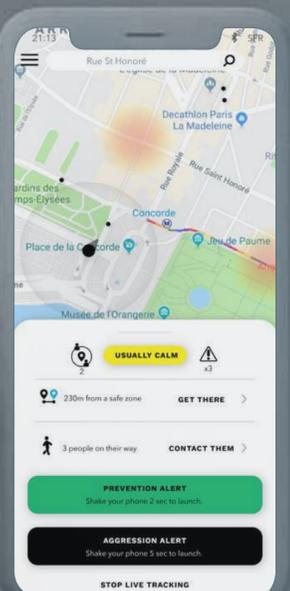
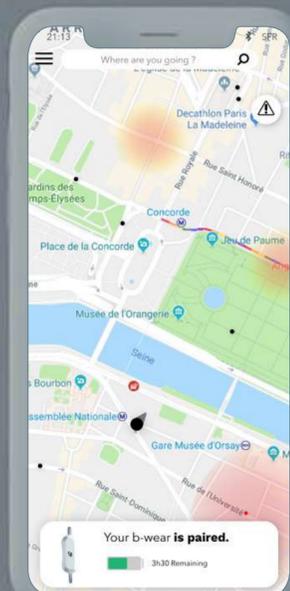
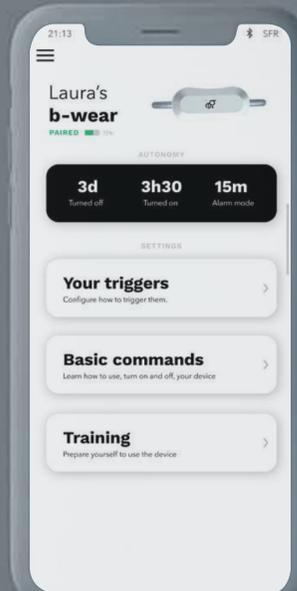
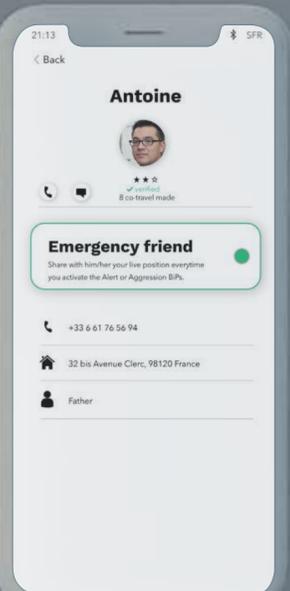
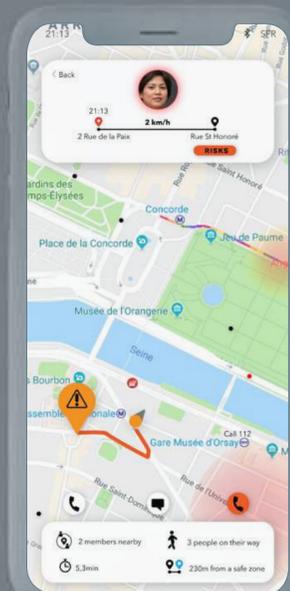
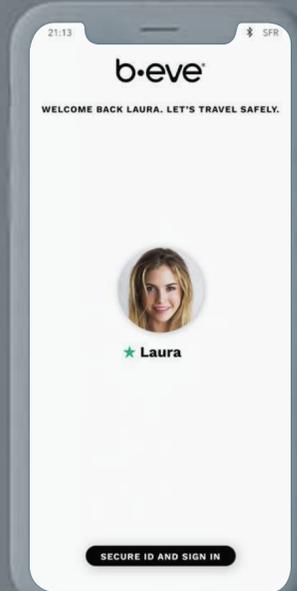
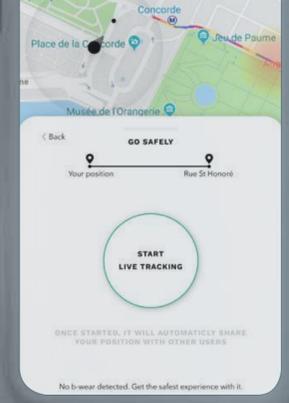
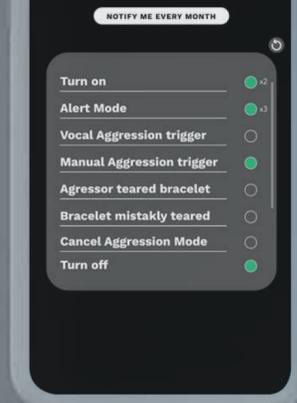
► **Shout EVE to alert**

The main activation trigger is your voice. Shout EVE to launch a 110dB alarm, record evidence and alert your relatives via a call and GPS location sharing.



### ► A user-centred design

The design and ideation process was done in close collaboration with victims of aggressions, women and police forces. It allowed us to think differently and come up with radical efficient ideas.

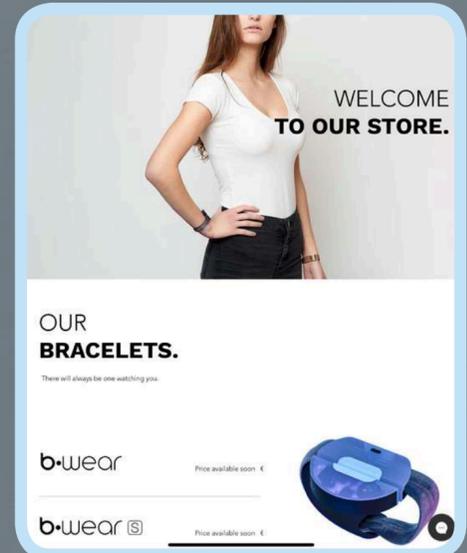
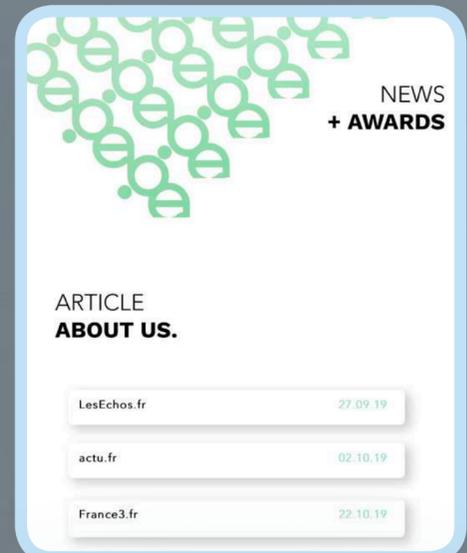
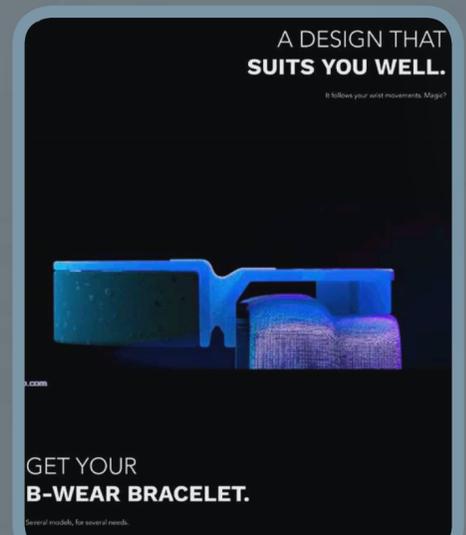
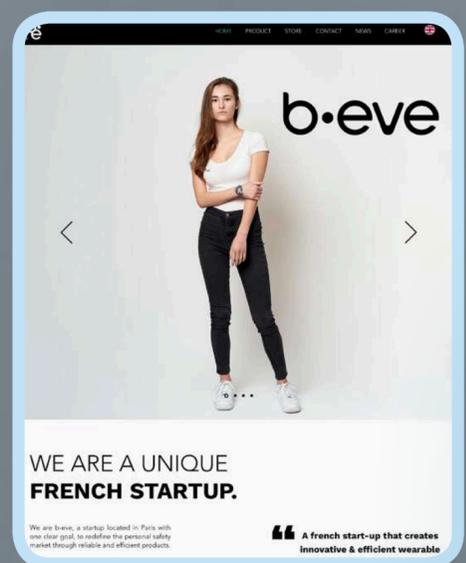


### ► Safe travel b-eve app

When re-imagining the b-eve product, I developed a b-eve companion App. A social co-walking service and b-wear bracelet support were at the centre of it.

### b-eve website ◀

As a fresh start-up, building a website to showcase the b-eve vision and products was key to success.





### ► A functional mock-up

Together with my partner, we built a functional prototype of the first EVE Dyson award-winning product. It worked with basic components managed by an Arduino.

Copyright Alexandre Tarall 2019



### ► 1.3 million views in 1 week

With more than 1 million views of a Facebook interview, several media coverage with a total of 6 million views, the EVE device received great feedbacks across France and many other countries (USA, Bresil...).



### ► 1st National Dyson prize

We received 2 Awards for Best Innovative Project in North of France, as well as the 1st prize at the French Dyson Award Innovation contest.



### ► Start-up development

After being accepted in an Incubator program, I developed my start-up b-eve through contests, fairs and meet-ups. My goal was to certify the technical feasibility of the bracelet as well as creating a financial strategy.

[SEE MORE ON MY WEBSITE](#)

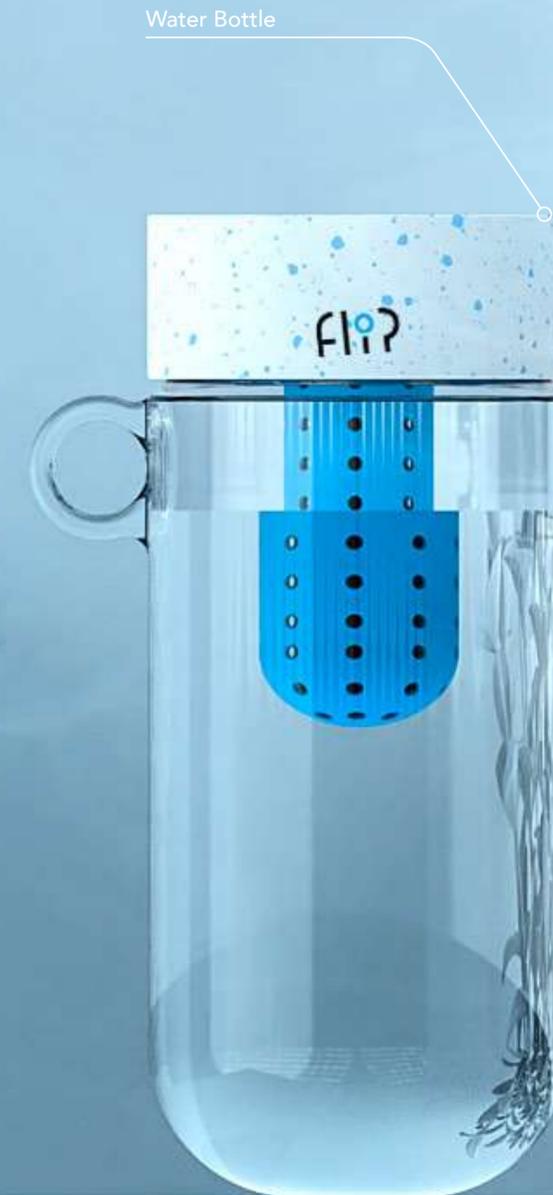
# FLIP.

## ► Watering can lantern

How often do you use your watering can? I combined 3 rarely-used outside garden objects together. The water stored in this watering can diffuse beautiful light across your garden.

## ► 360° drinkable water bottle

Why think twice where to drink? I engineered it so that a simple turn of the white ring allows you to get water wherever you put your mouth around.



1M



SOLO



2019

SKETCH

DESIGN

ENGINEERING

CAD

RENDERING

PROTOTYPING



### ► Caustic light lantern

Flip the device to get the water on the light, and light up your table with great water reflections.



### ► Solar garden torches

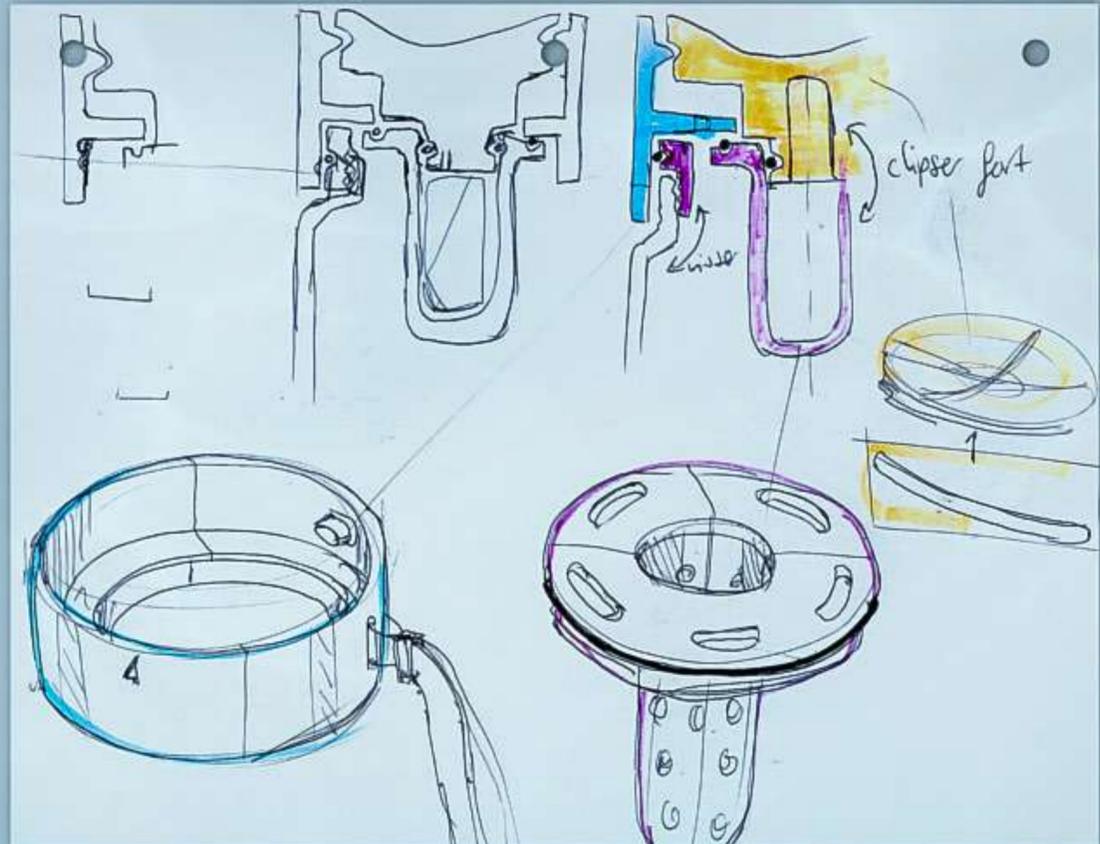
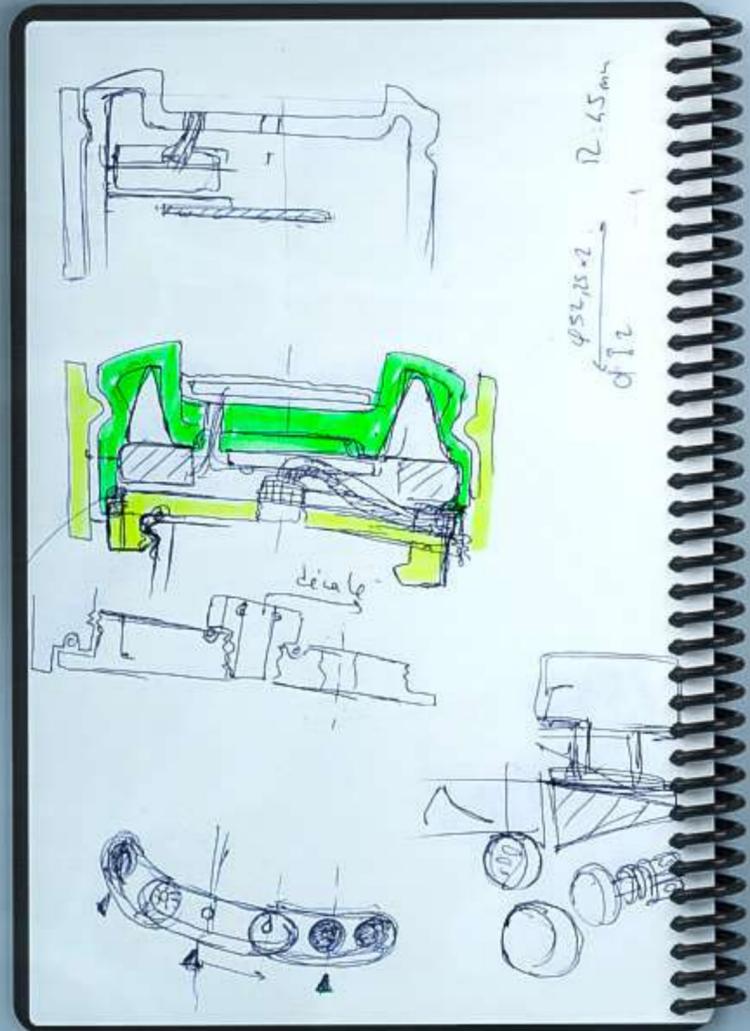
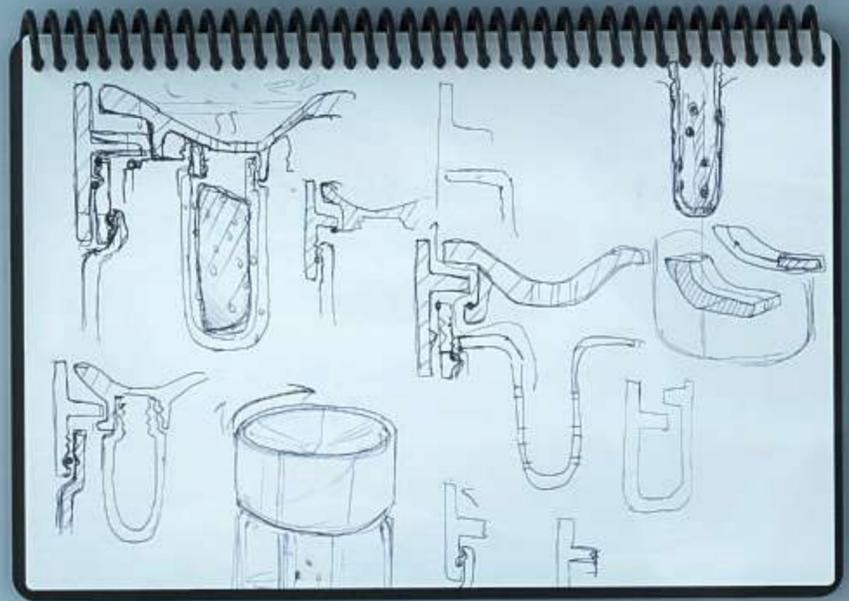
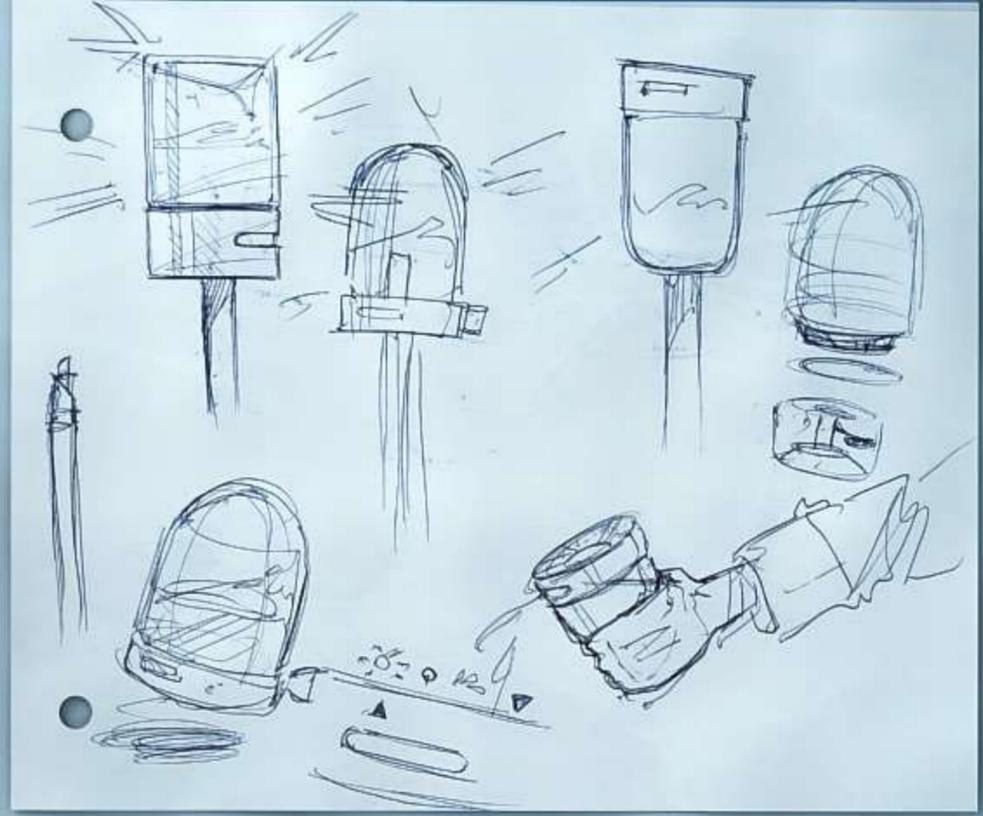
Fill the water tank and light up your device by turning the ring. The solar panel on the top will automatically recharge the battery.



### ► Water your plants

Don't waste the water, and use the dedicated mode to water your inside or outside plants.





### ► Engineering exploration

Finding simple mechanism within the body ratio and water constraints was a great challenge. I tried to find the most simple solution with fewer parts possible for each product. The water bottle 360° top mechanism is made of only 3 parts.

SEE MORE ON MY WEBSITE

# KIWI.

## ► Car booster & Device charger

Your car battery is down, or you don't have an outlet to power your laptop? Kiwi is the first device dedicated to both car battery boost and tech device charging. With its minimalist yet robust 2 parts design, it can follow you everywhere and adapt itself to your need.



2 M



SOLO



2018

SKETCH

DESIGN

ENGINEERING

CAD

RENDERING

PROTOTYPING





► **Induction + 230 V charge**

Unplug the bottom cable coil, and carry the main battery device with you. Charge and hold your phone tight via the Kiwi induction non-slip top.



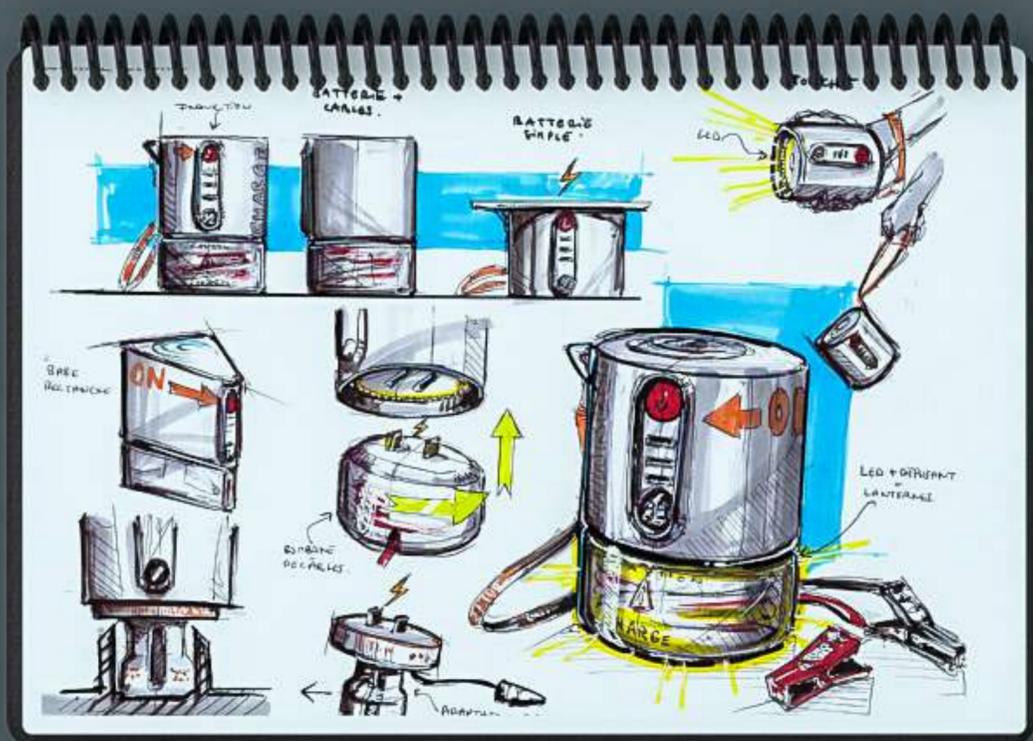
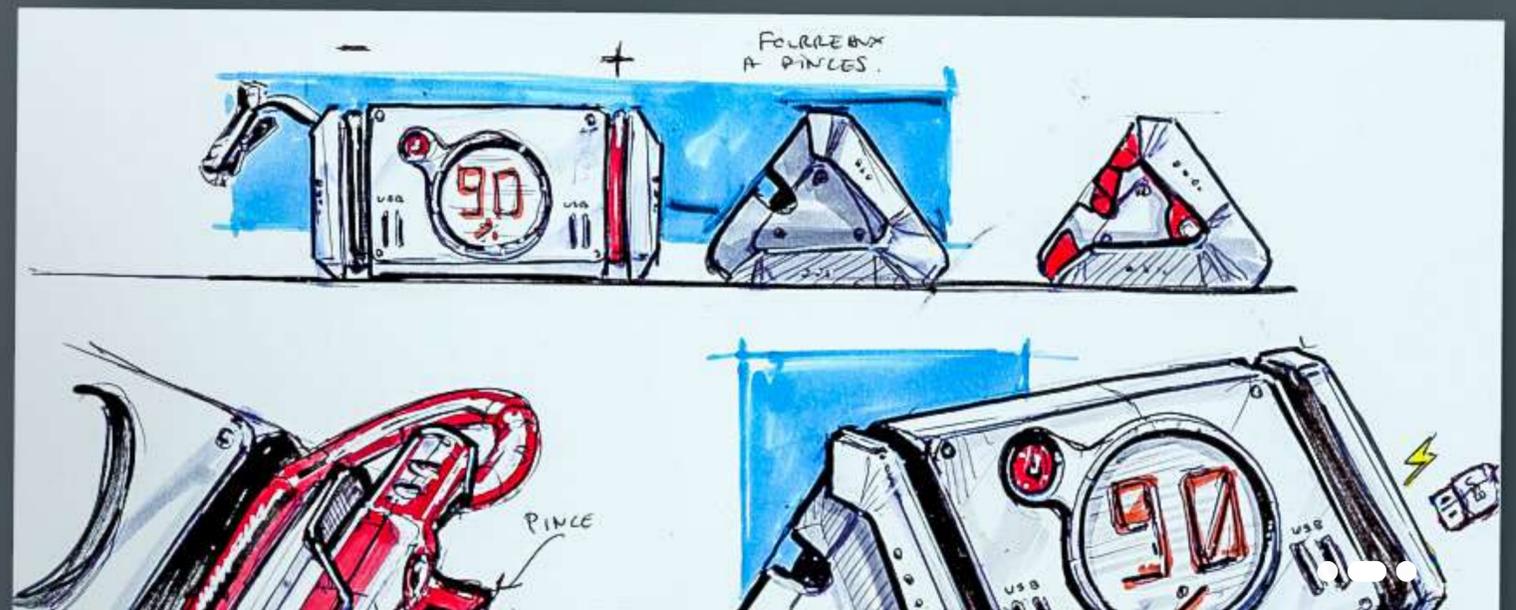
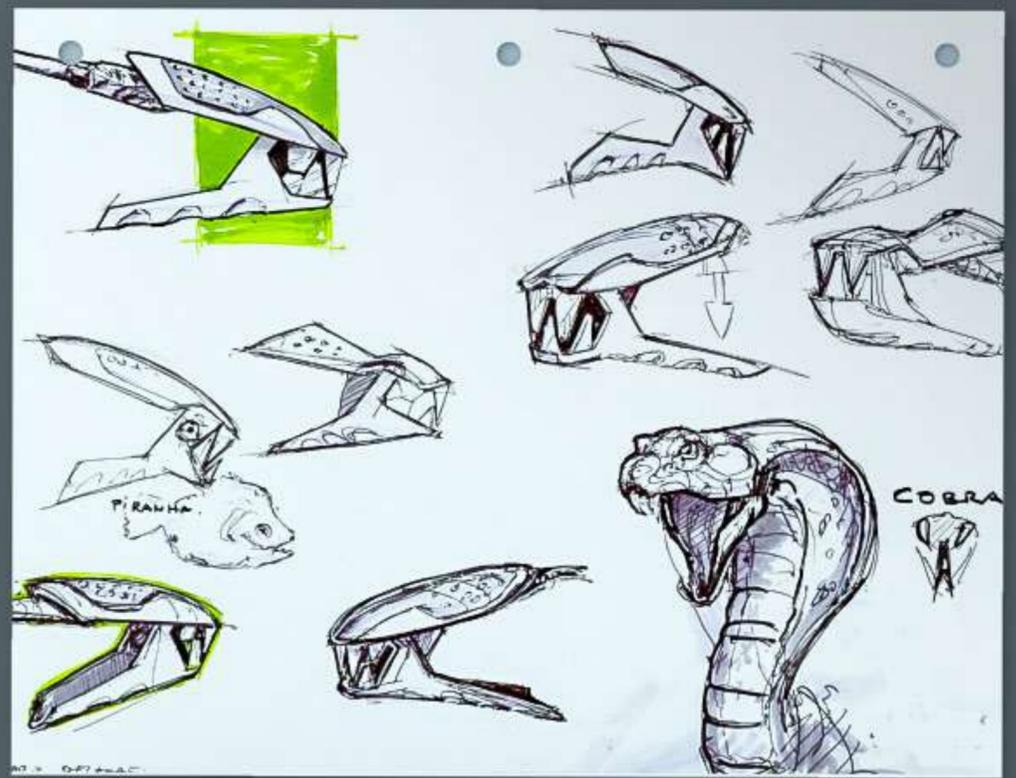
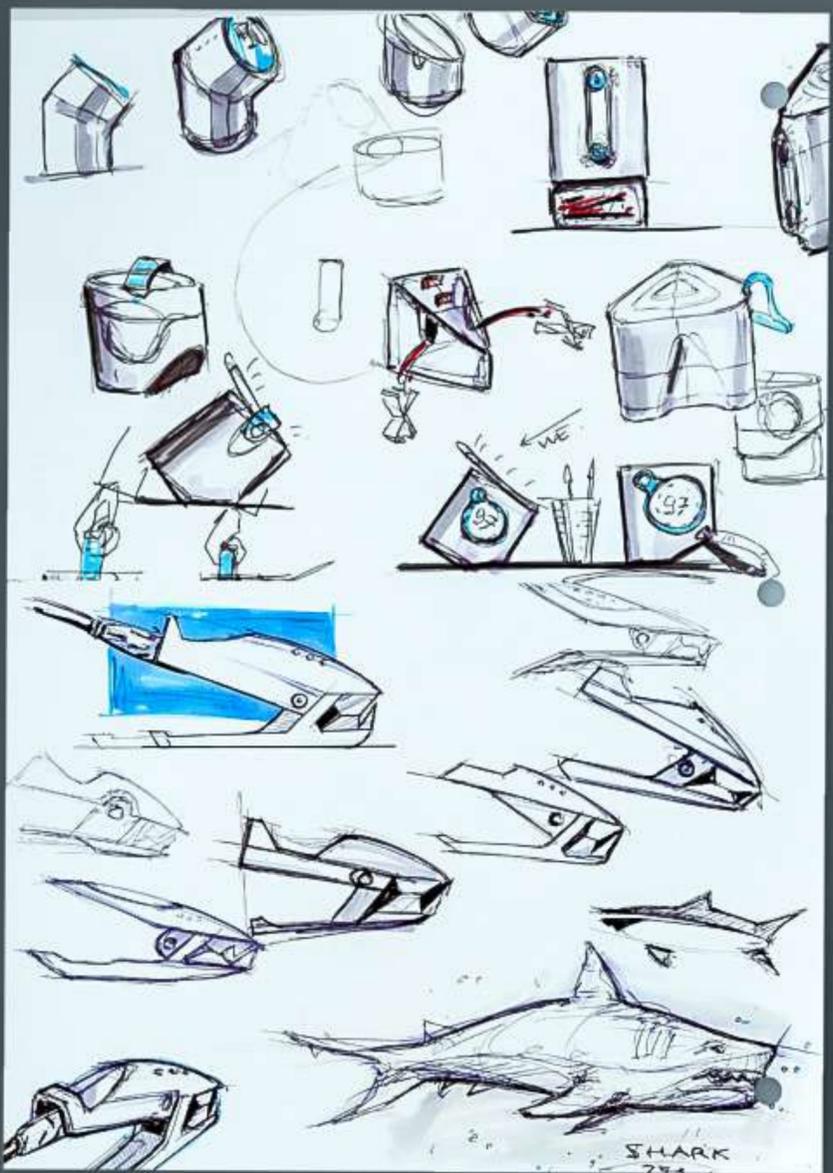
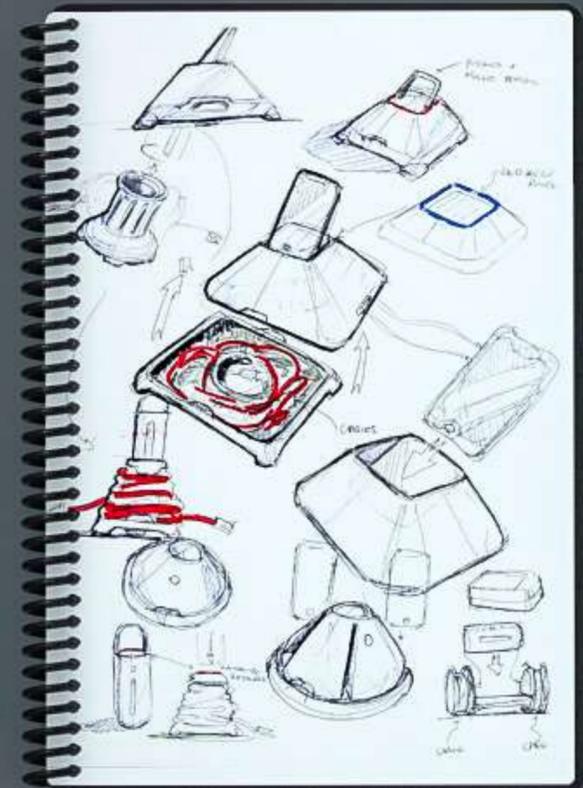
► **Lantern car booster**

Your battery's car is empty? Even alone in the dark, Kiwi is here to start your car. Plug the cable coil, and light it up for a powerful lantern effect.



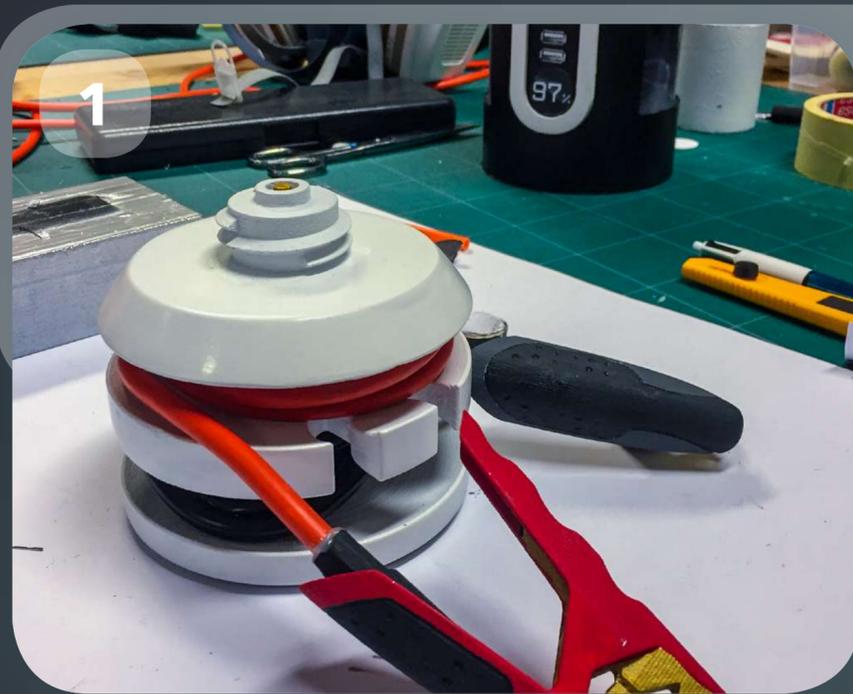
► **A flashlight**

A flashlight is a must-have in any car. Kiwi has a powerful light mode for critical moments.



► A shape-guided design

The cylinder shape comes from the need of a cable reel. After days of exploration, I came back to it because of its simplicity & stability. I created the pliers design around iconic animals shapes to get new fresh design ideas.



1

### ► A 3D printed coil base

I used the Color Jet Printer technology to print those bottom parts without structure.



3

### ► A folded cardboard pack

I designed the pack to protect the product and simultaneously showcase all the different features it has to offer to the client.



2

### ► A 1:1 scale mock-up

The main Kiwi body was built out of a wood cylinder, combined with various 3D printed parts. I had to manage with a cylinder slightly bigger than my design, allowing me to try out new ergonomics assumptions.



4

### ► Great feedback

Designers and users feedbacks were positive about this concept. The 230V outlet to charge computer sized device was a real game-changer for most of them.

[SEE MORE ON MY WEBSITE](#)

# HANGERS.

## ► 8 days to re-invent the wheel

I had this challenge while working at VanBerlo: to create as much completely unique design out of a simple piece of classic store hanger.



8 DAYS



SOLO



2019

SKETCH

DESIGN

ENGINEERING

CAD

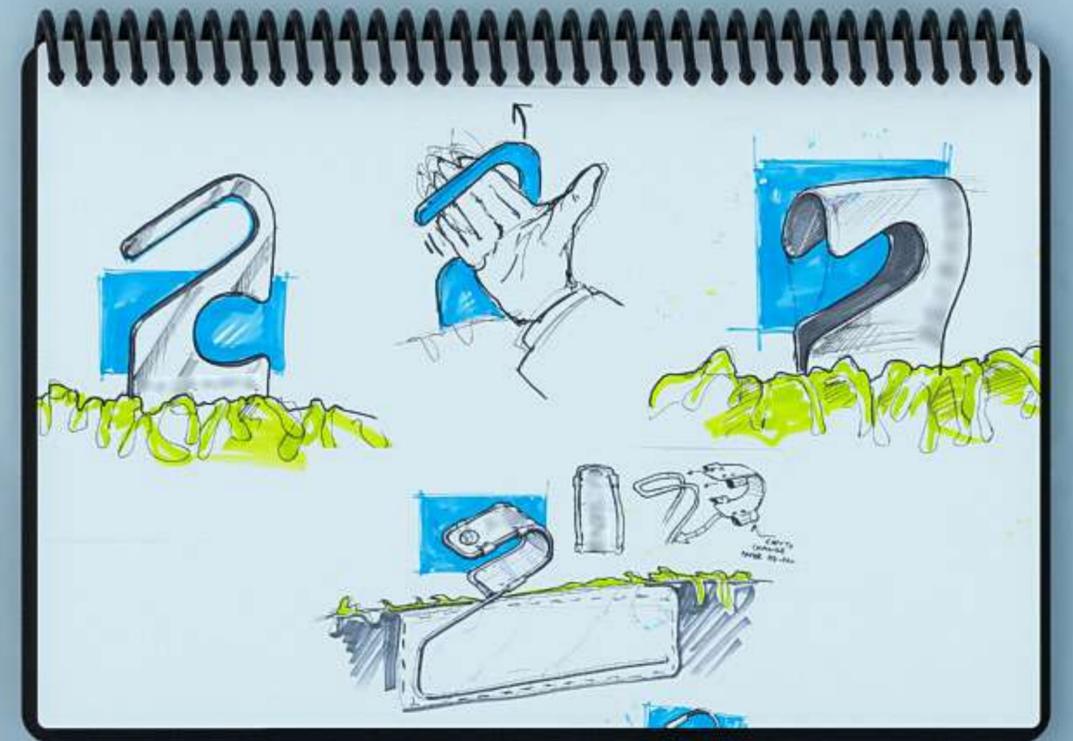
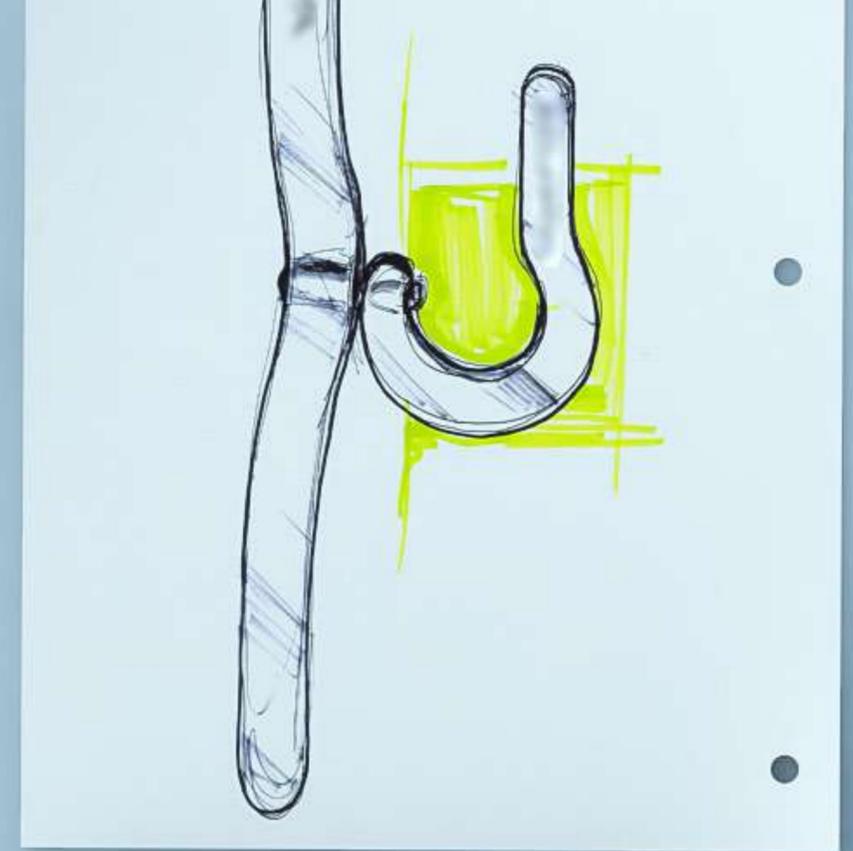
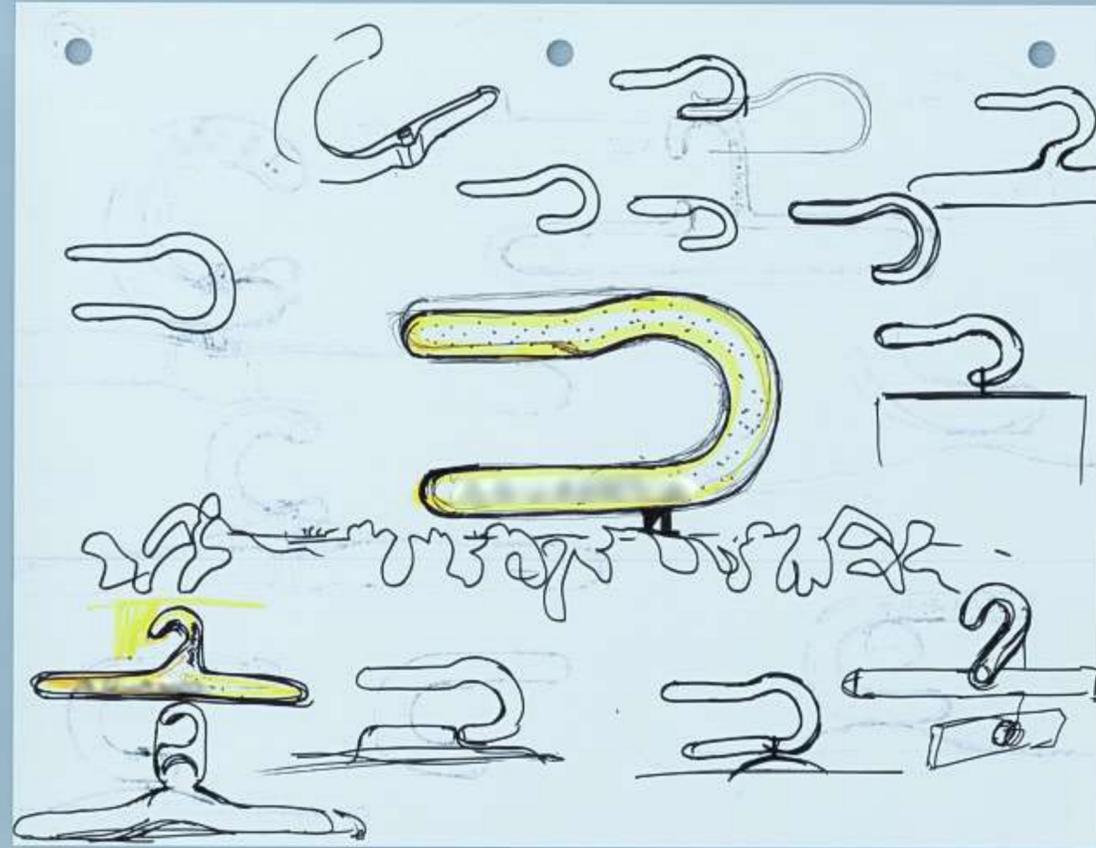
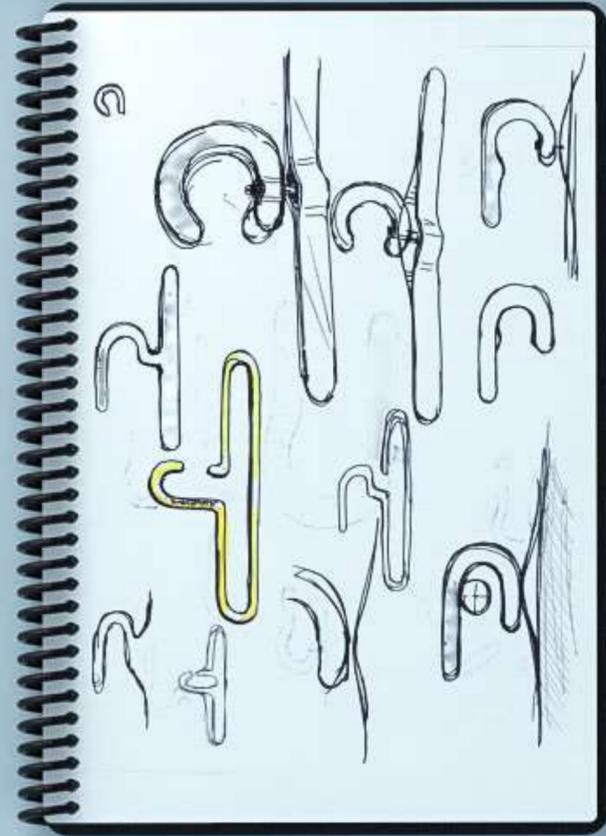
RENDERING

PROTOTYPING

## ► Finding new shapes

I inspired myself with a huge quantity of sources to keep new shapes coming up. I used user ergonomics and marketing constraints to find as many design paths as I could.

SEE MORE ON MY WEBSITE



# CUBO.

## ► The future of housing mobility

A car interior contains great tech, but is mostly never used. Cubo solves the problem of cars in modern urbanism, by integrating it to our home & workspace. It is an autonomous hub that follows you with its on-board smart computer, speaker and heating technology. A new sustainable way of thinking the space we live in.



48 H



X 5



2017

SKETCH

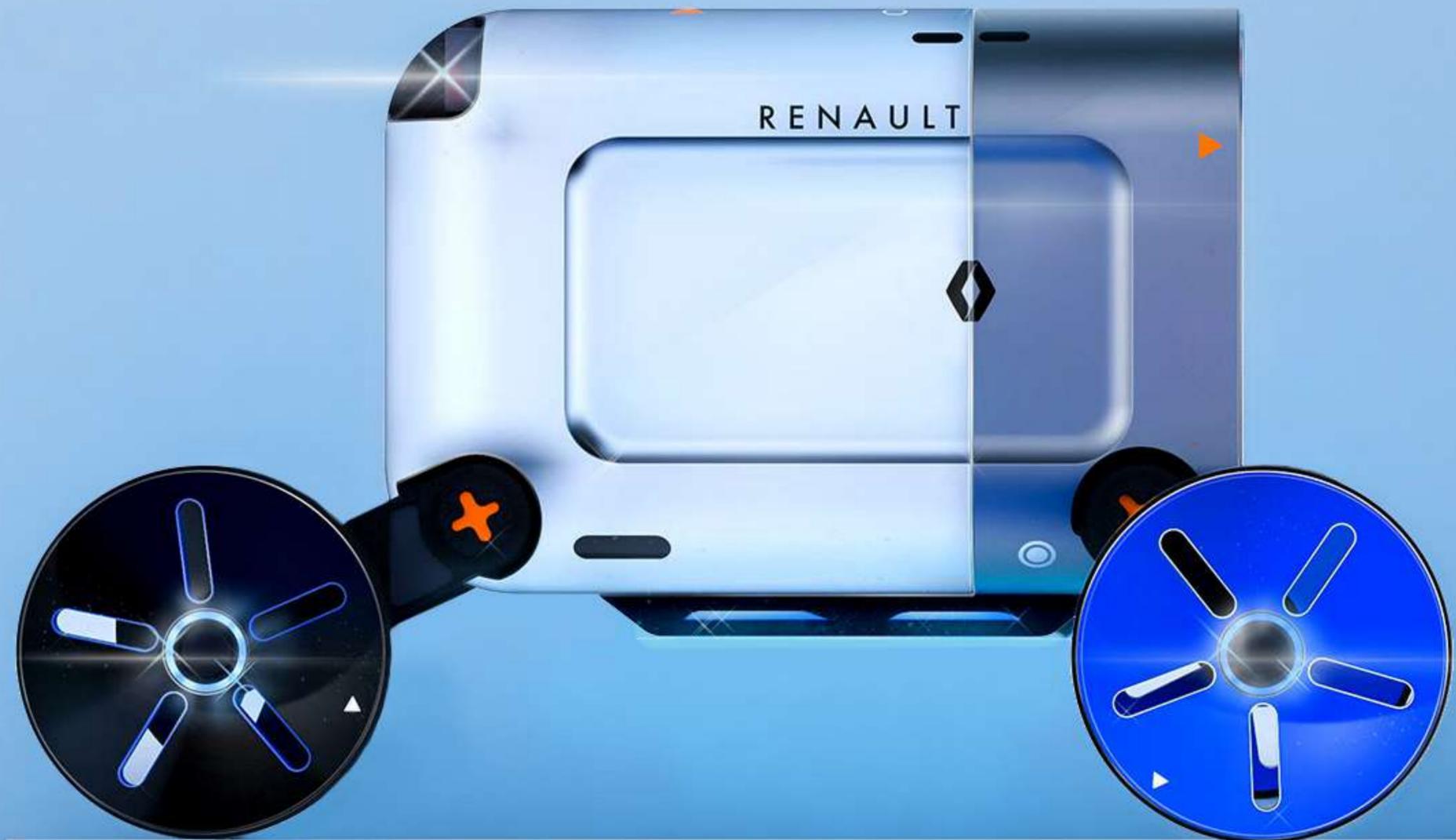
DESIGN

ENGINEERING

CAD

RENDERING

PROTOTYPING





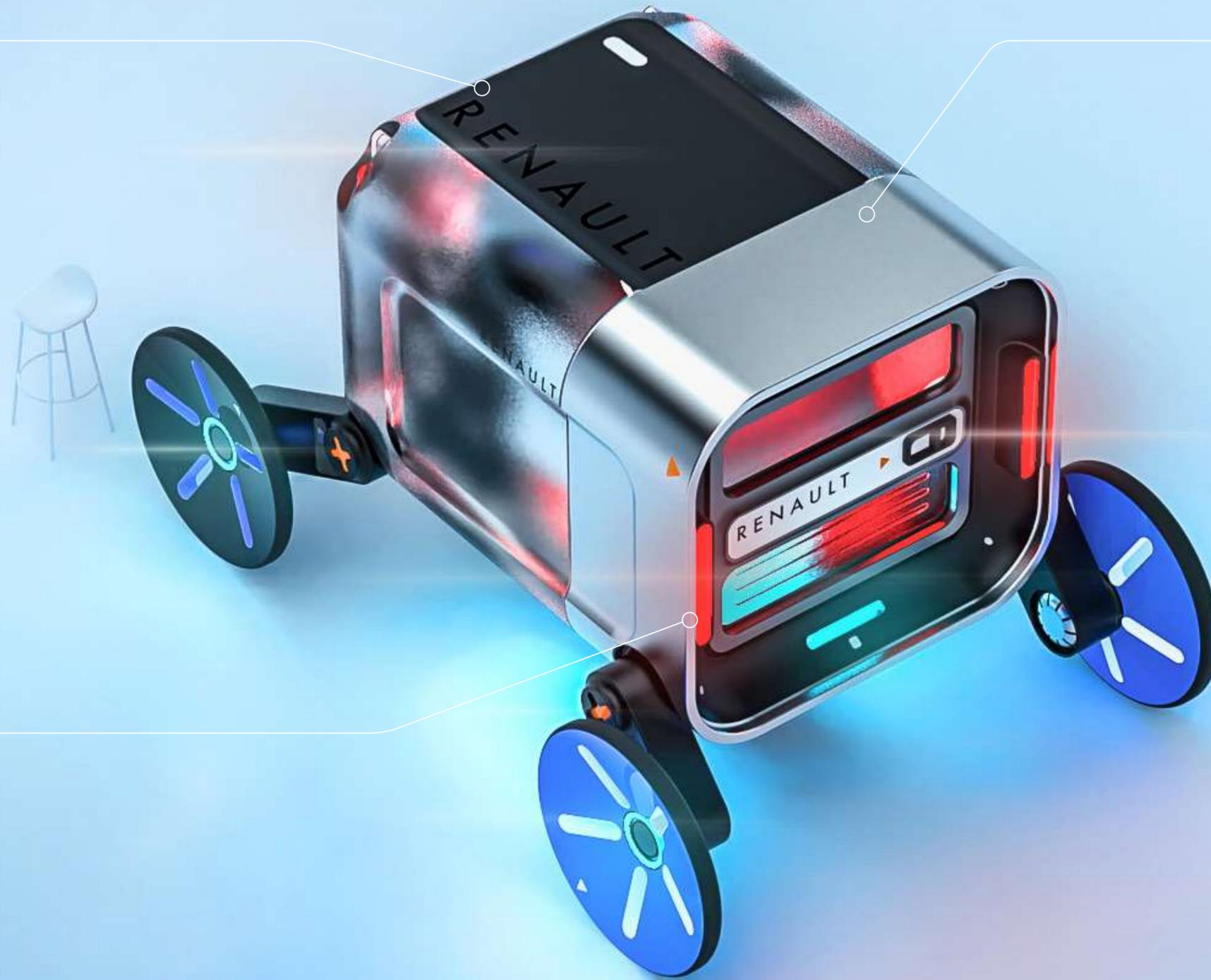
► **Combine them**

If the all family needs to move, combine 2 Cubo to make a bigger livable space.



► **Plug it to your house**

Plug it to buildings to keep use of your Cubo space and technology even when you are not travelling.



► **Augment your room**

Your smart on-board computer, speakers and heating technology will power your house.

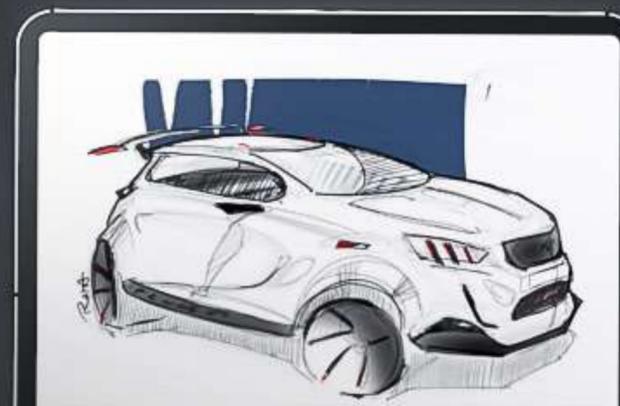
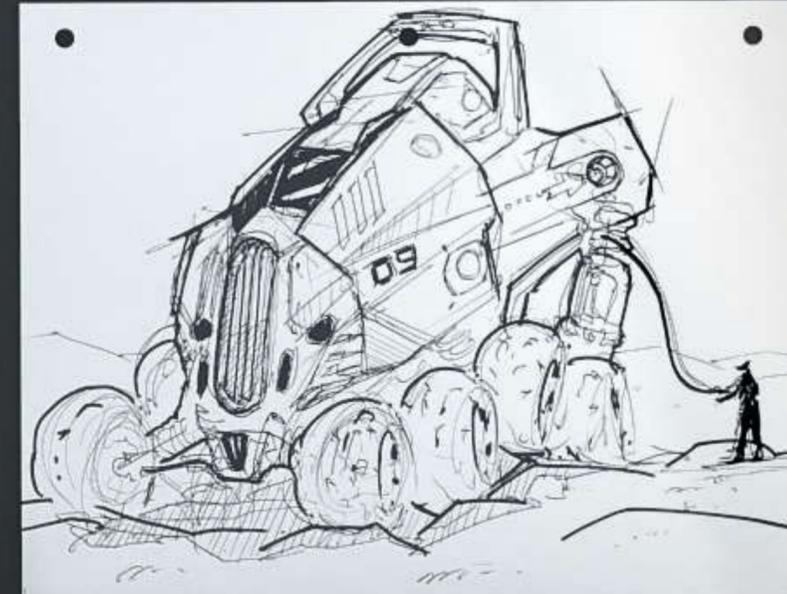
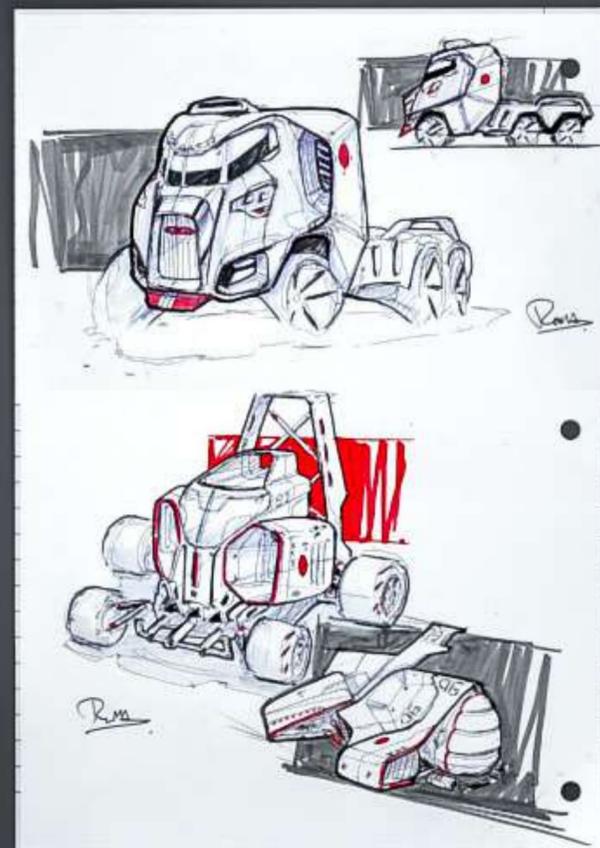
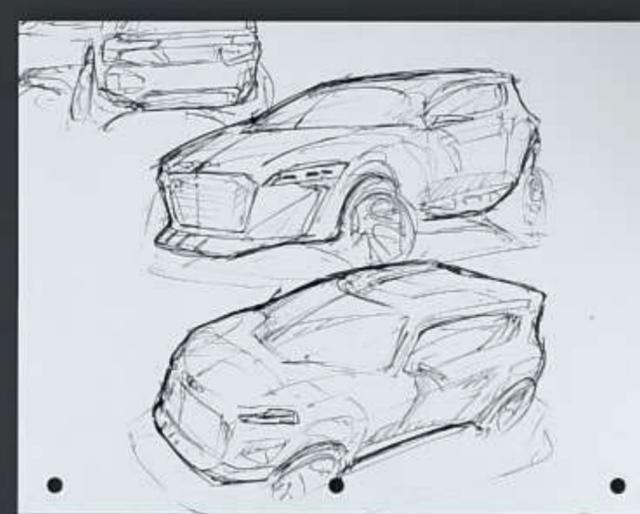
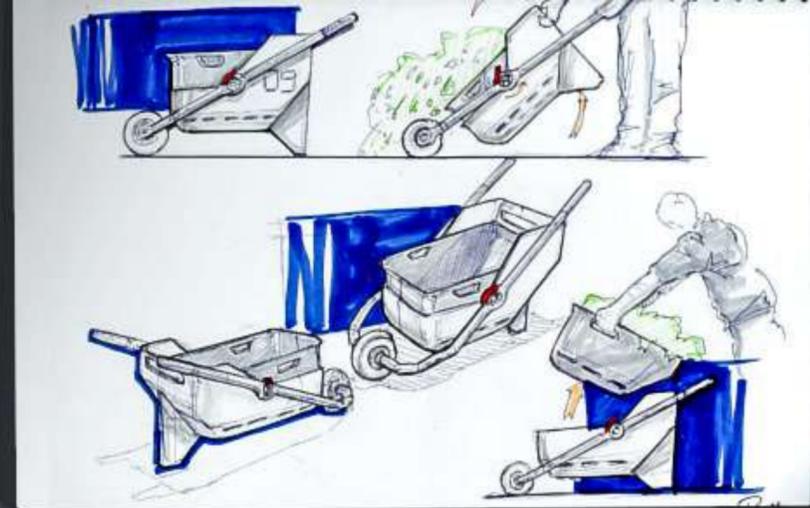
[SEE MORE ON MY WEBSITE](#)

# SKETCHES.

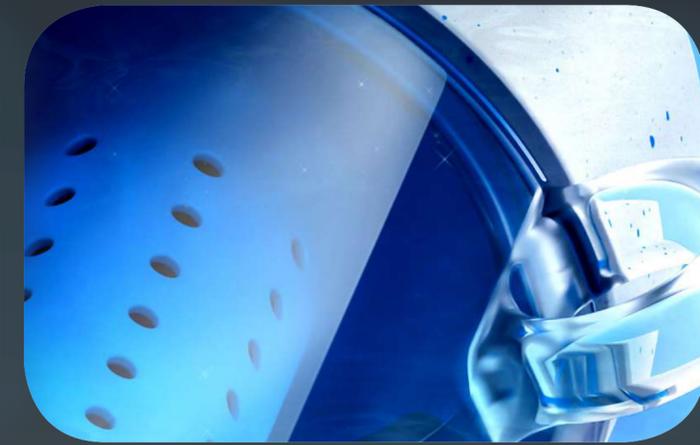
## ► More than a working tool

I have been practising hand sketching, marker drawing and digital illustration for more than 10 years now. It is a passion I grew up with, that goes from sketching products or cars to long-process artworks.

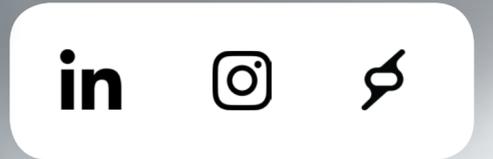




SEE MORE ON MY WEBSITE



► **Let's stay in touch!**  
I hope you enjoyed this Portfolio. Feel free to get in touch with me with an email or a linkedin message. You will find all the links right here :)



ROMARIC.DELAHAIE@GMAIL.COM

+33 6 61 76 56 94

VISIT MY CV

**THANK YOU.**

