



「Edward Jennings」

Design Portfolio

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Hello,

I'm **Edward Jennings**

I studied Product Design at the University of Nottingham, where I developed a strong mix of creativity and engineering thinking, further elevated during my engineering design placement at the Atomic Weapons Establishment.

My passion has always been designing & problem solving. I love the ability to create and know that what I'm doing will have an impact. I am always open to a challenge to utilise my creative solutions and user centred design approach. I love a task no matter how crazy and I always make sure I have who or what i'm designing for in mind.

07795 991587 

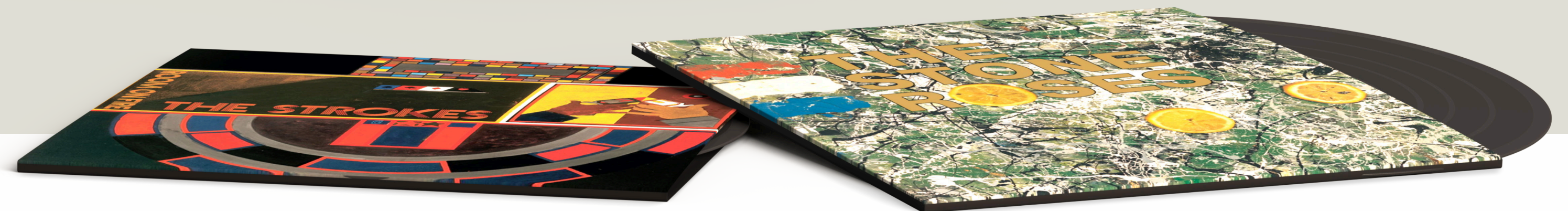
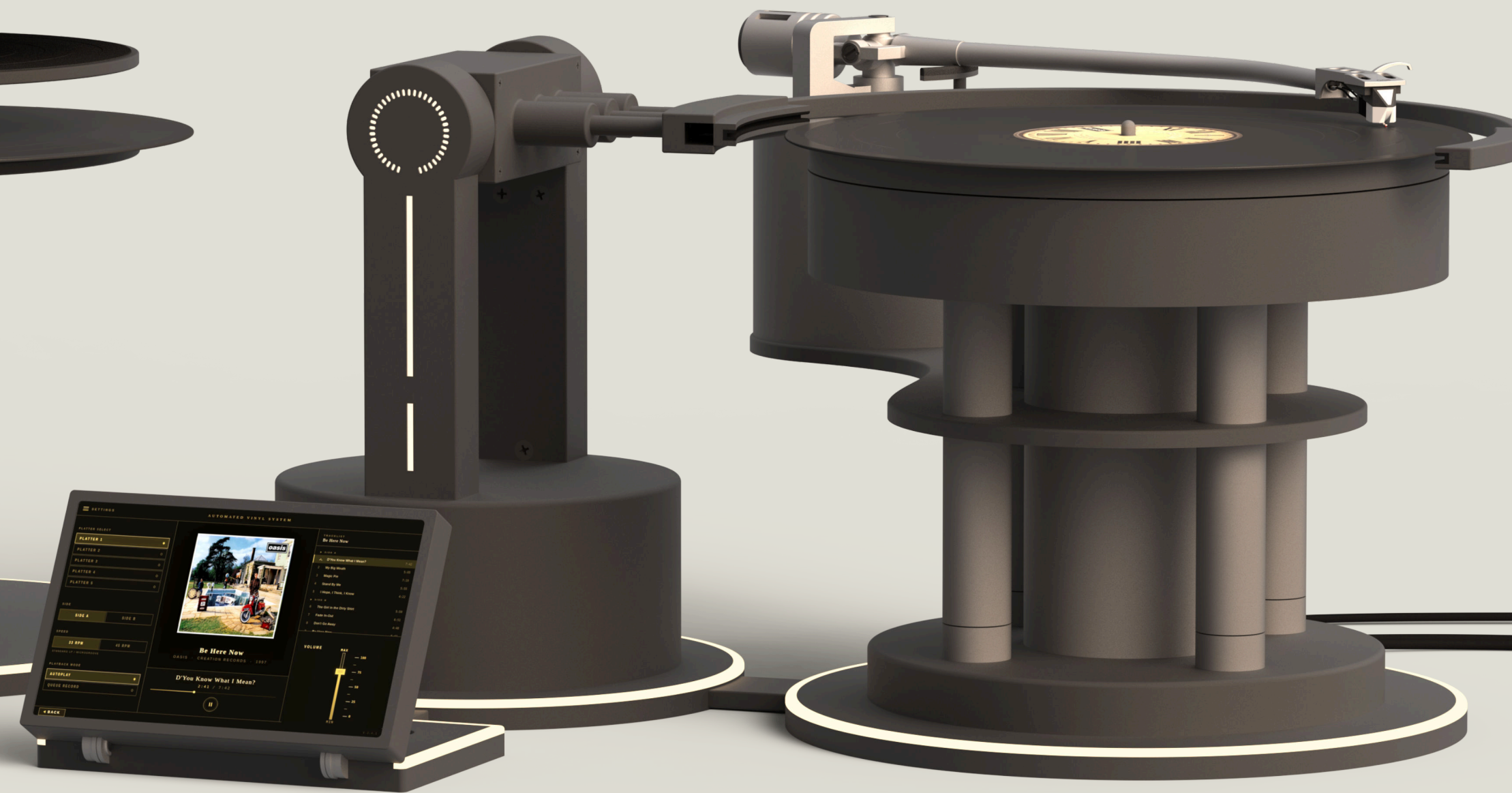
Me@edwardjennings.co.uk 

Epsom, England 



ORBITL

The Vinyl Experience, Uninterrupted



02

The Opportunity

A growing market, unmet needs and a solution

01

Resurgence



650%

Vinyl sales growth over the last decade



£1.1B

Global Vinyl market value as of 2024



18th

Consecutive year of vinyl sales growth

02

Appeal

Owning a physical album

Visually appealing turntable

Handling a vinyl record

Enhanced sound quality

A conversational piece

03

Removing Friction

No slow or repetitive setup

Records protected from damage

Built for premium spaces

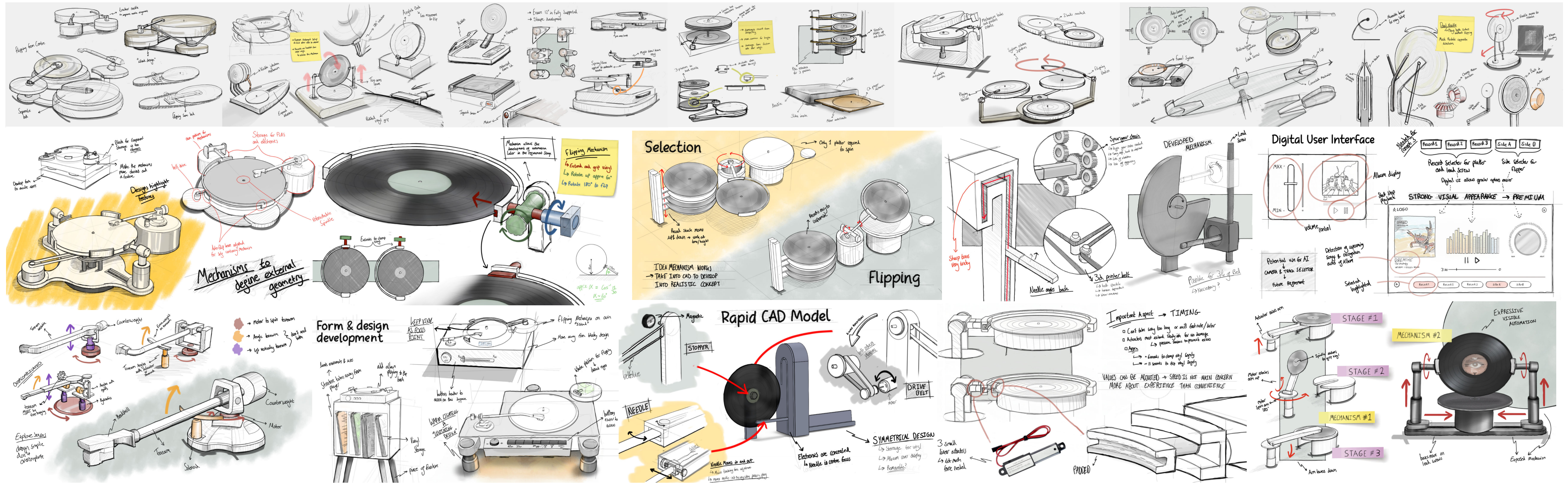
Greater accessibility

Uncompromised sound quality

ORBITL

STACK, SELECT, PLAY

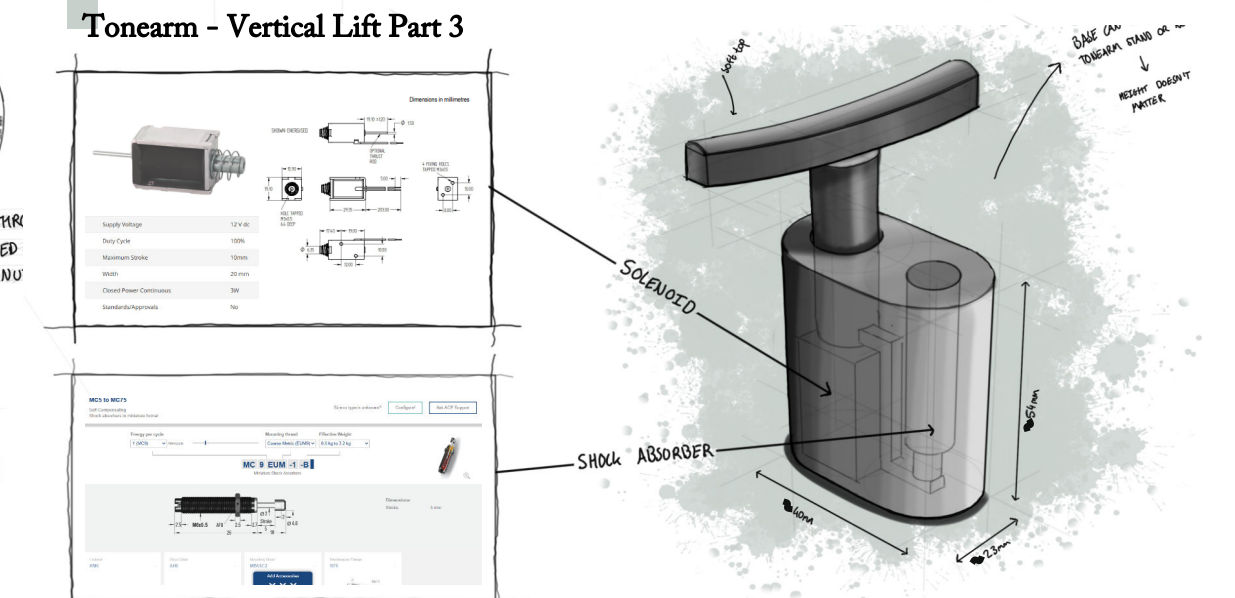
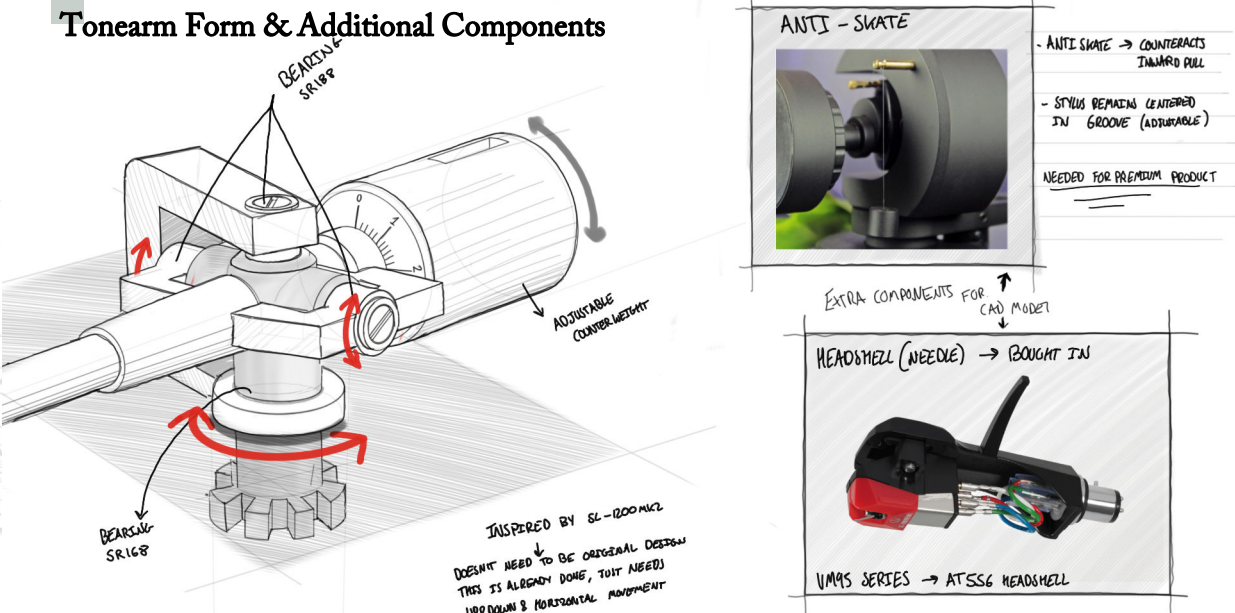
Ideation and Development



Concepts



Refinement & Priming



User Interactions

Stack, Select, Play

Customise your lineup

- Load up to 5 records of your choice
- Swing-out carousel for easy access
- Full control via digital interface

Stack, Select, Play

Choose your record

- Customise your playback order
- Pick your side and speed
- Orbitl does the rest

Stack, Select, Play

Sit back and enjoy

- Live tracklist and album display
- Auto-record flipping & auto-start/stop
- Up to 4 hours of uninterrupted playback
- No constant monitoring required

Form & Features

CMF

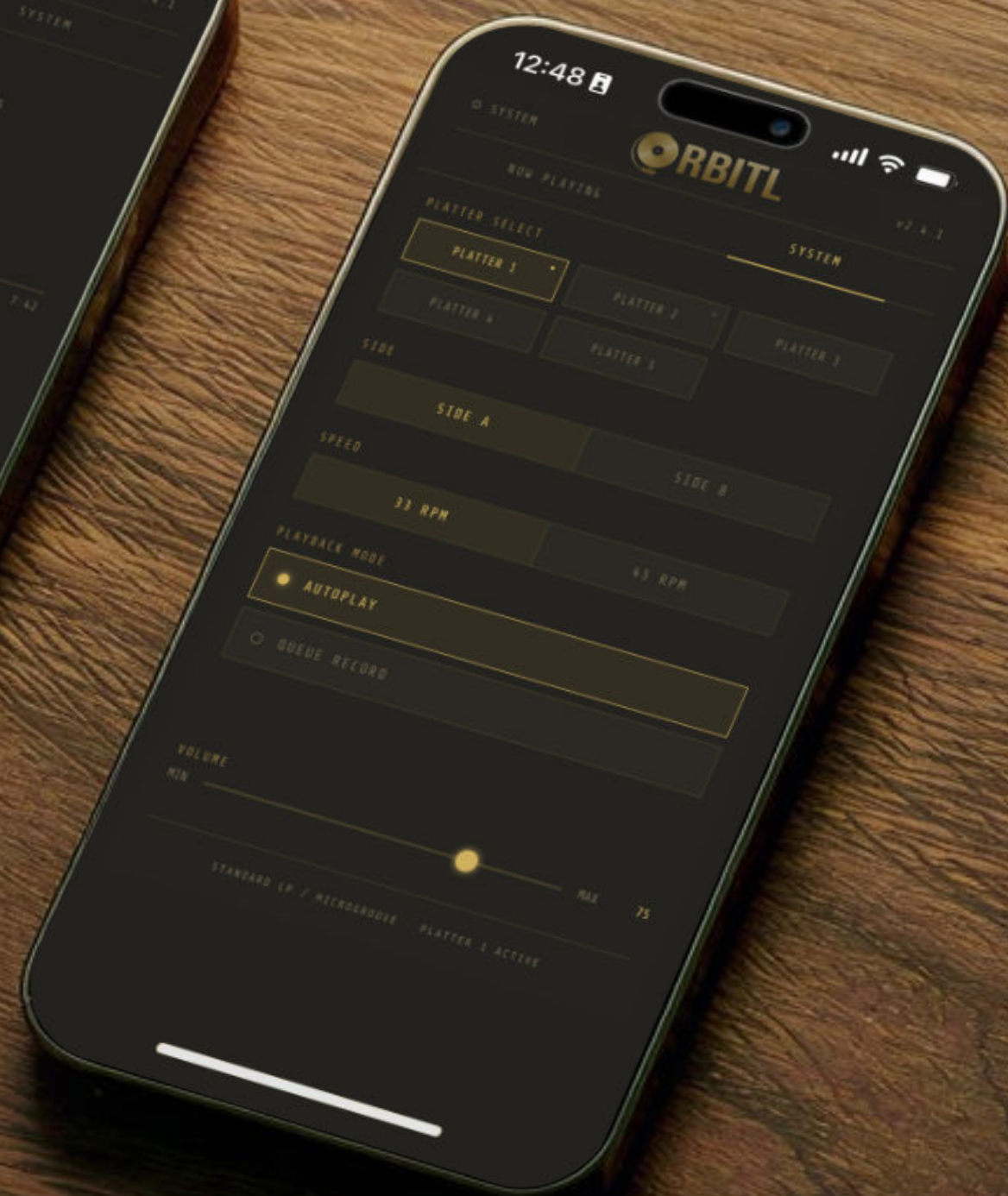
- Silicone rubber**
Soft-touch matte
Black
- Anodised aluminium**
Brushed 6000 series
RAL-7035 Light Grey
- Smoked toughened glass**
25% light transmission
Neutral grey tint
- ABS**
Injection moulded
Pantone Black
- OLED display**
Clear glass
7 Inch
- LED strip**
1000K-3500K
Brightness range
- Anodised aluminium**
Brushed 6000 series
RAL-7021 Black grey
- Wool Felt**
Matte
Pantone Black 6 C

Technical Features

- Integrated phono preamplifier
- IEC 24V DC power inlet
- Isonoe™ anti-vibration isolation feet
- Standard RCA line output (L/R)

ORBITL removes the friction, but not the authenticity... Leaving only the finest parts of the vinyl experience.

ORBITL preserves everything loved about vinyl... And takes the experience somewhere its never been



Remote Play





← Orbitl Animation
Scan or click to view



Community Pod

Group Project
/ 3 Months

As a team, design a set of three Mobile Community Pods that can be easily transported to various sites and accessed by the public.

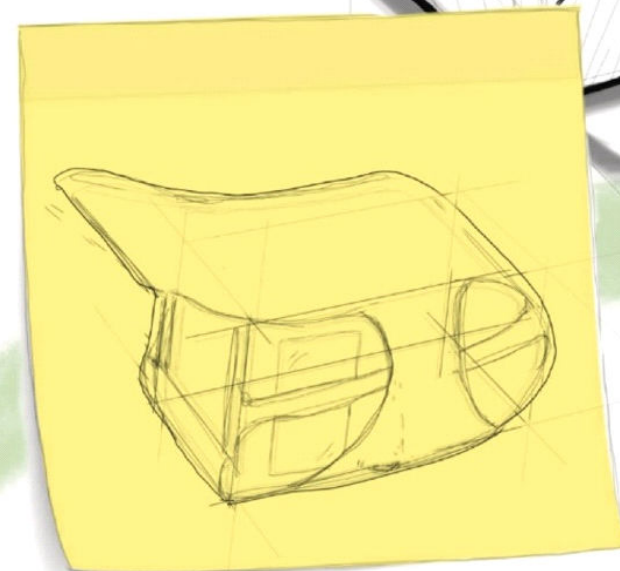
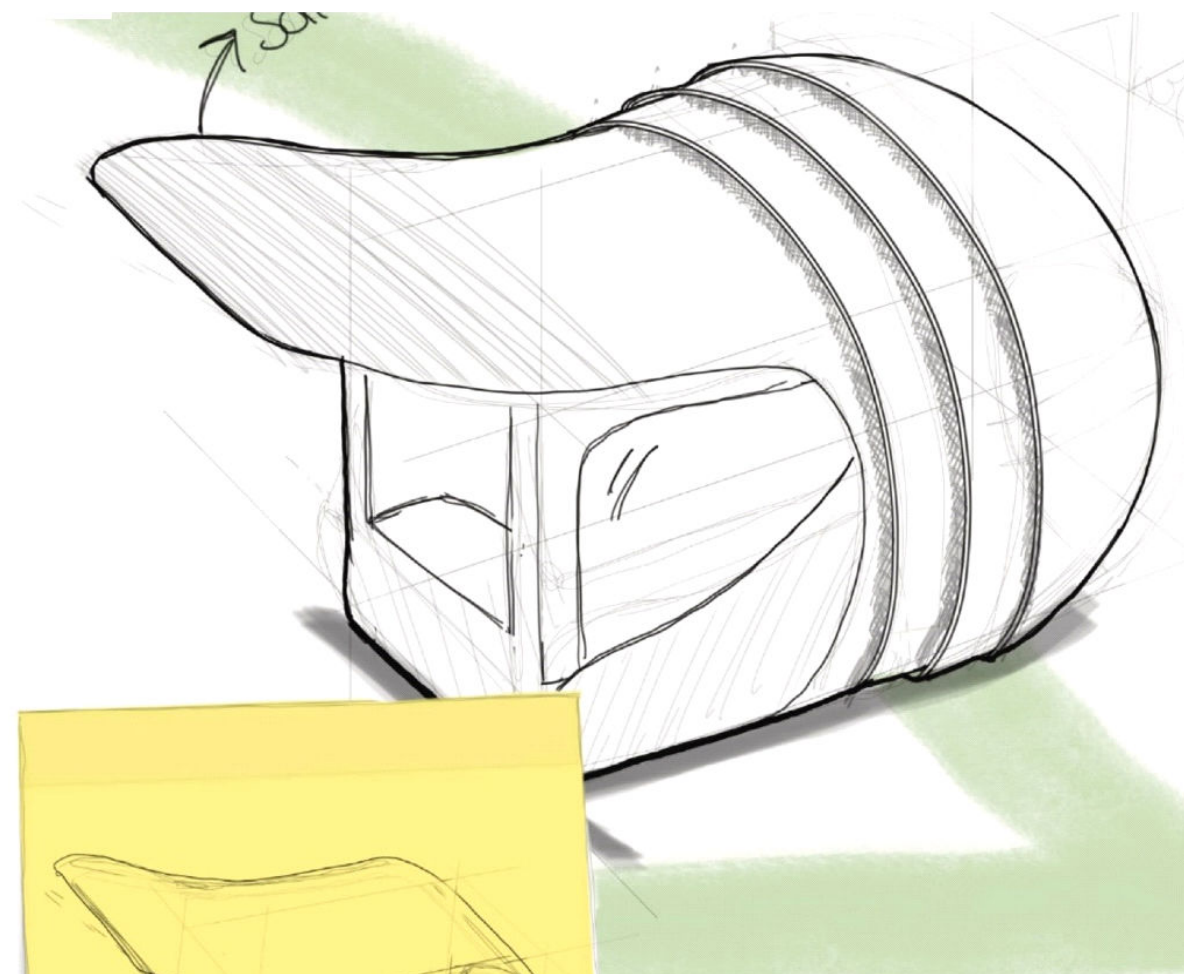
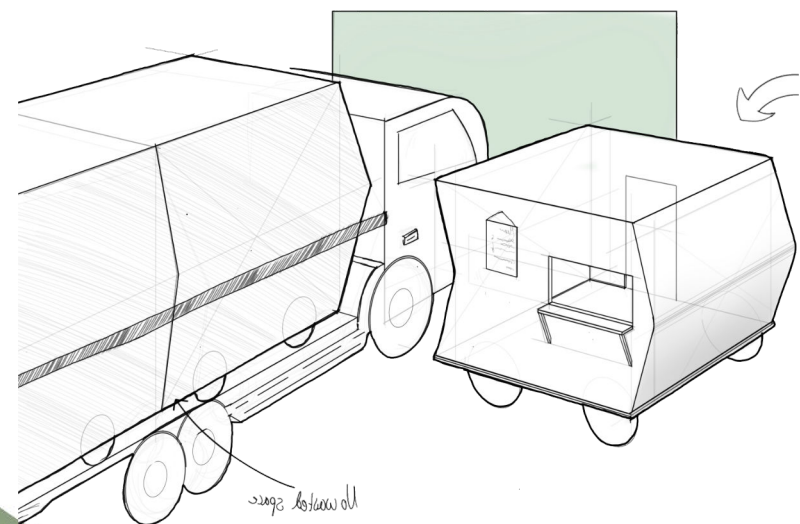
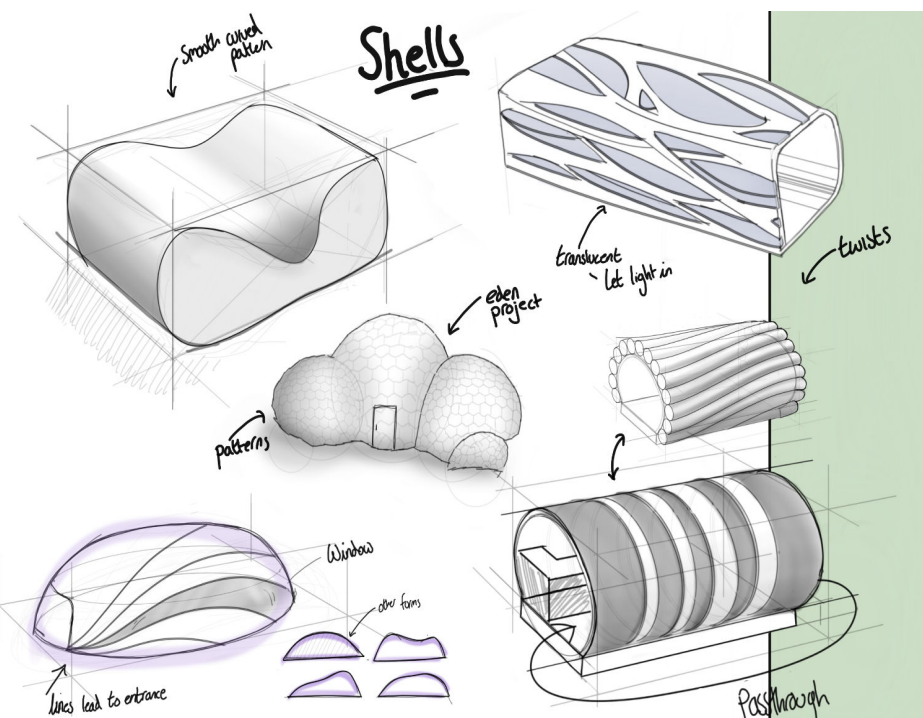
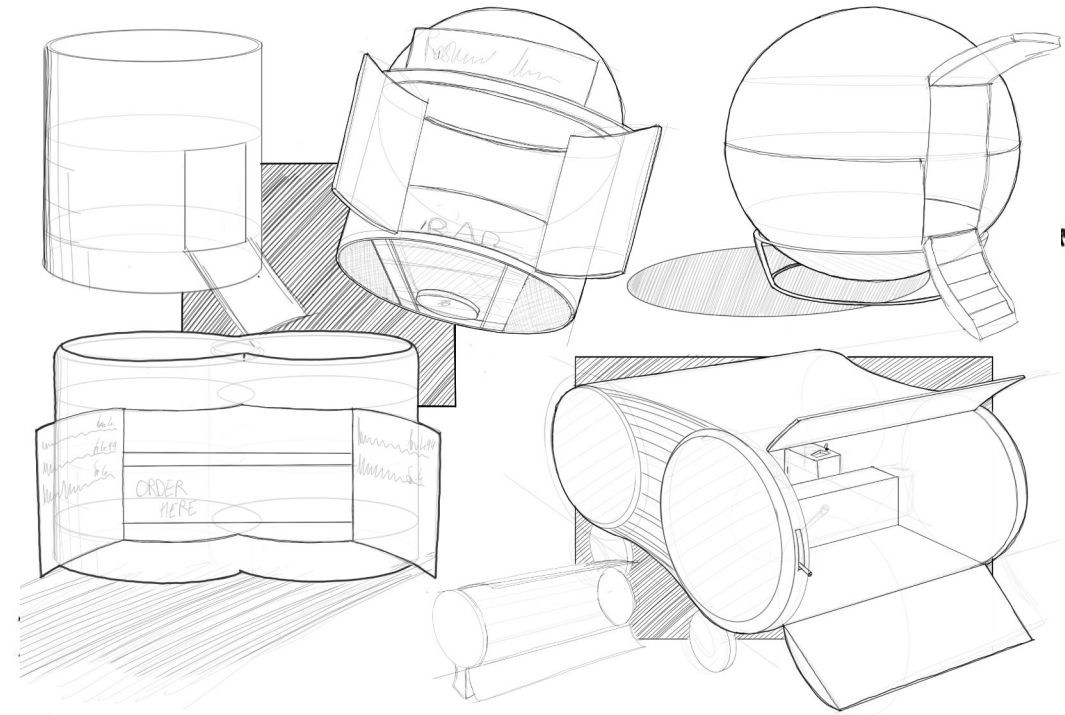
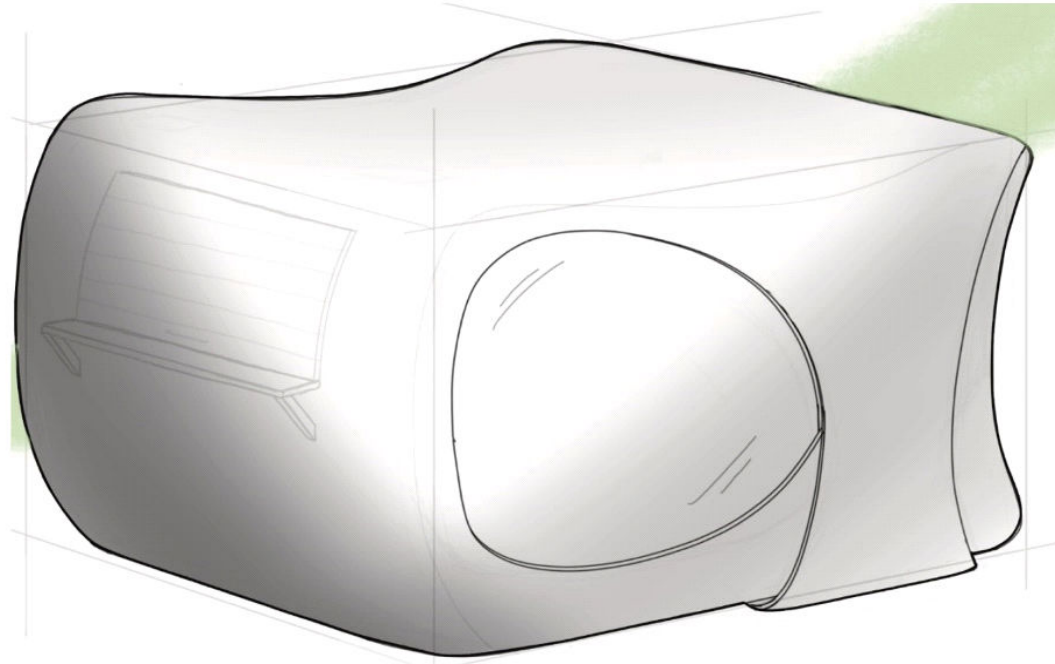
The pods will consist of three identical units that are configurable to create a cohesive set. These units must include a café and two other community spaces of your choice.



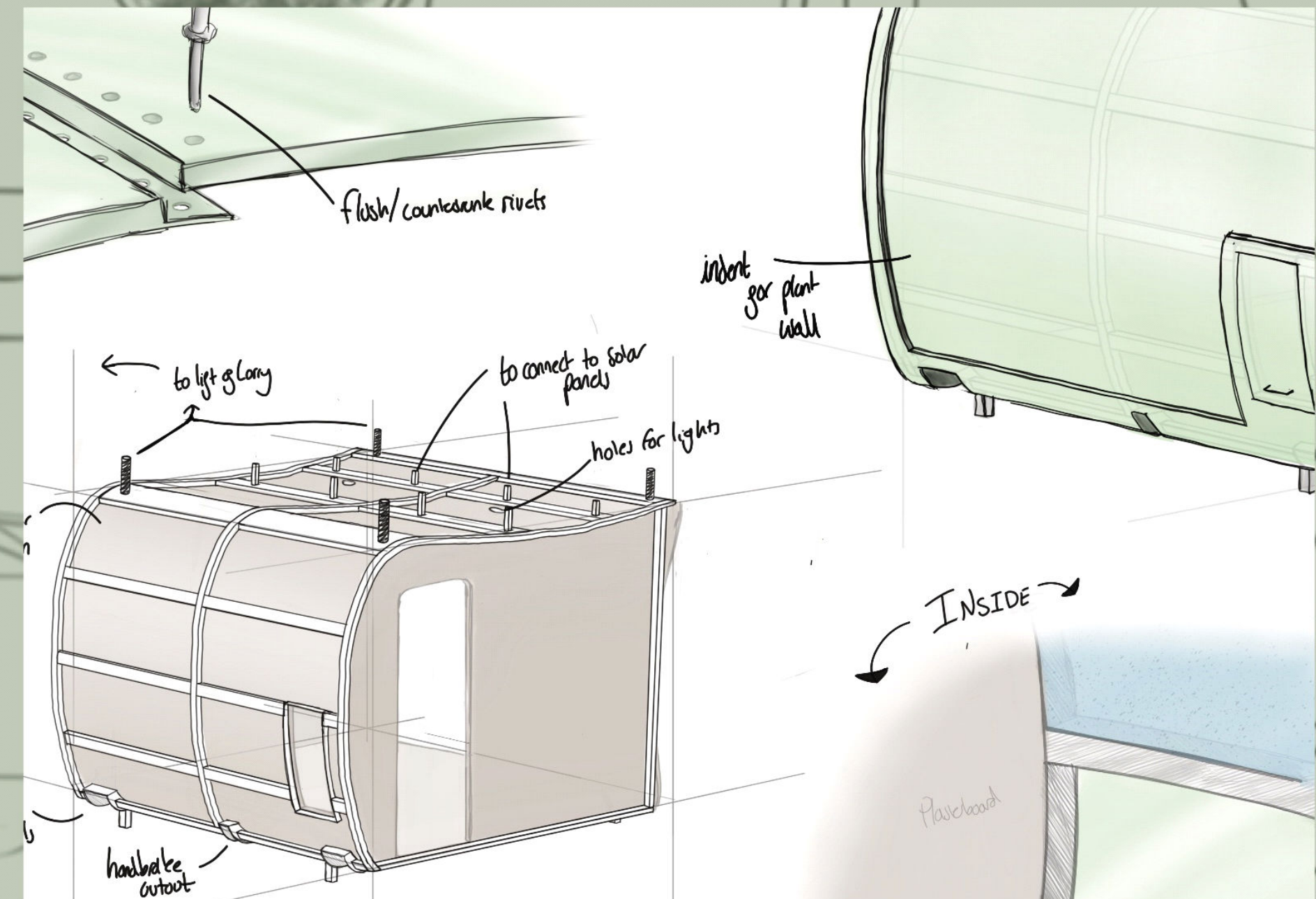
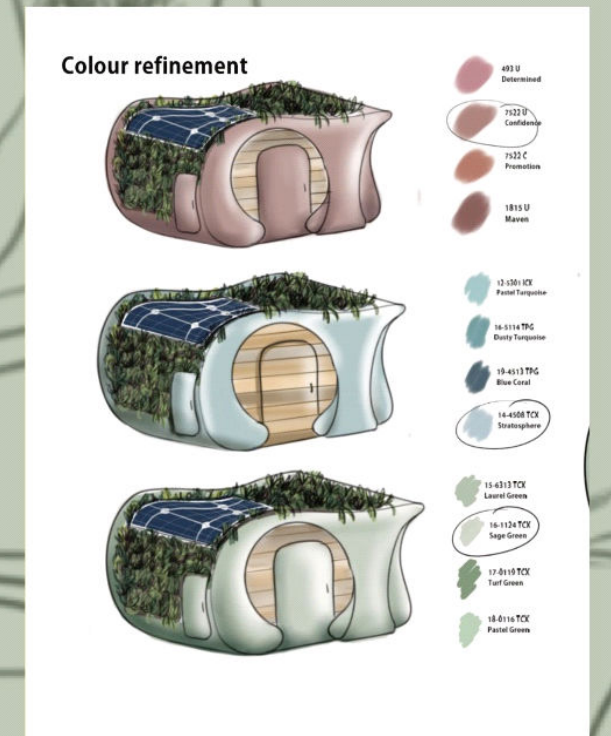
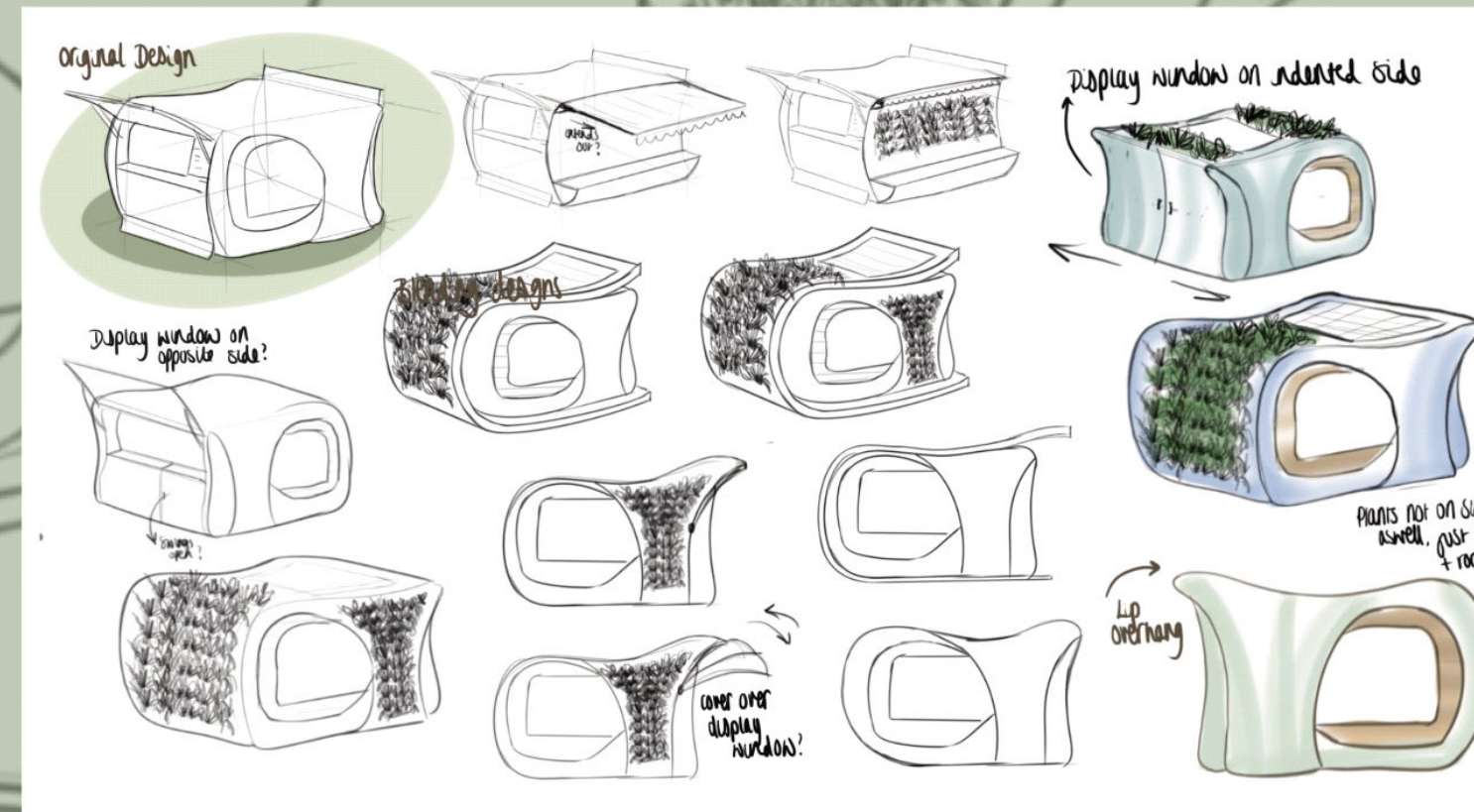
09

Exterior

Ideation, Development, Refinement



Saw





2.93m



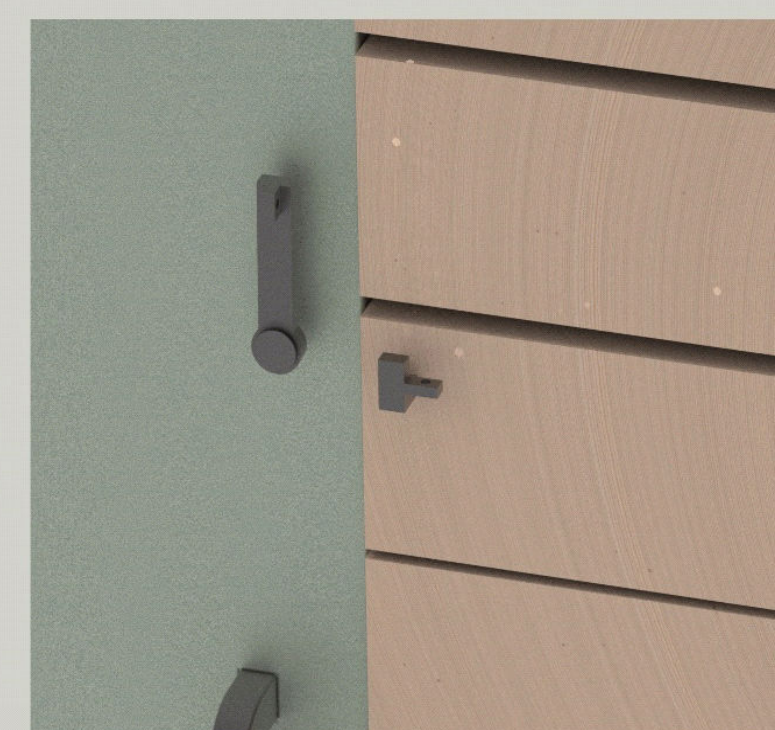
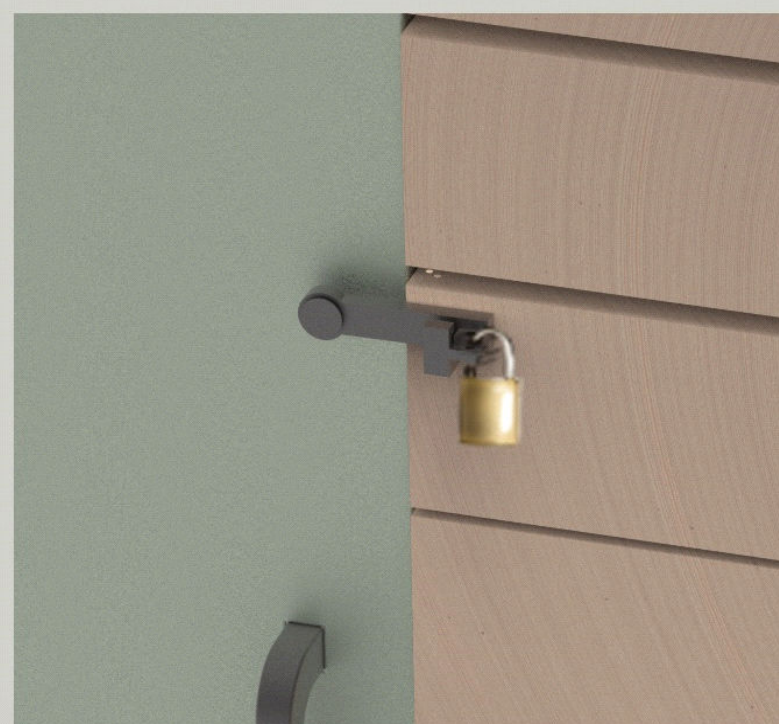
3.5m

2.9m



Orthograohic

Locks





Mobile Cafe



ABOUT US

Welcome to the EcoRoom Hub! Our community pod is a vibrant mobile oasis dedicated to sustainability and connection. Nestled within its eco-friendly design are opportunities for communal gathering, eco-conscious activities, and delicious coffee.

ECO-FRIENDLY

The built-in solar panel harnesses renewable energy to power our sustainable oasis, reducing our carbon footprint. Meanwhile, our living wall not only adds natural beauty but also contributes to improved air quality. Together, these eco-friendly features create a healthier environment for all.

RULES!

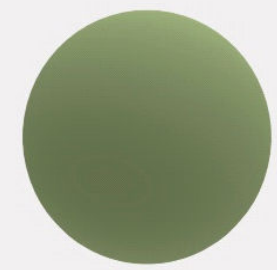
- Keep it clean
- Respect others
- No picnics
- Share the space
- Stay kind
- Enjoy responsibly
- Stay connected, unplug

Menu

MENU	
COFFEES	Latte \$3.50
	Cappuccino \$3.50
	Espresso \$2.50
	Flat White \$3.50
	Macchiato \$3.50
	Dirty Chai \$3.50
	Hot Chocolate \$3.50
	Smoothie \$4.50
	Ice Cream \$2.50
	Donuts \$2.50
	Cakes \$3.50
	Pastries \$2.50
	Salads \$4.50
	Burgers \$5.50
	Pizzas \$6.50
	Wraps \$4.50
	Sandwiches \$3.50
	Smoothies \$4.50
	Ice Cream \$2.50
	Donuts \$2.50
	Cakes \$3.50
	Pastries \$2.50
	Salads \$4.50
	Burgers \$5.50
	Pizzas \$6.50
	Wraps \$4.50
	Sandwiches \$3.50



Laminated chipboard
Dark hickory 3 strip



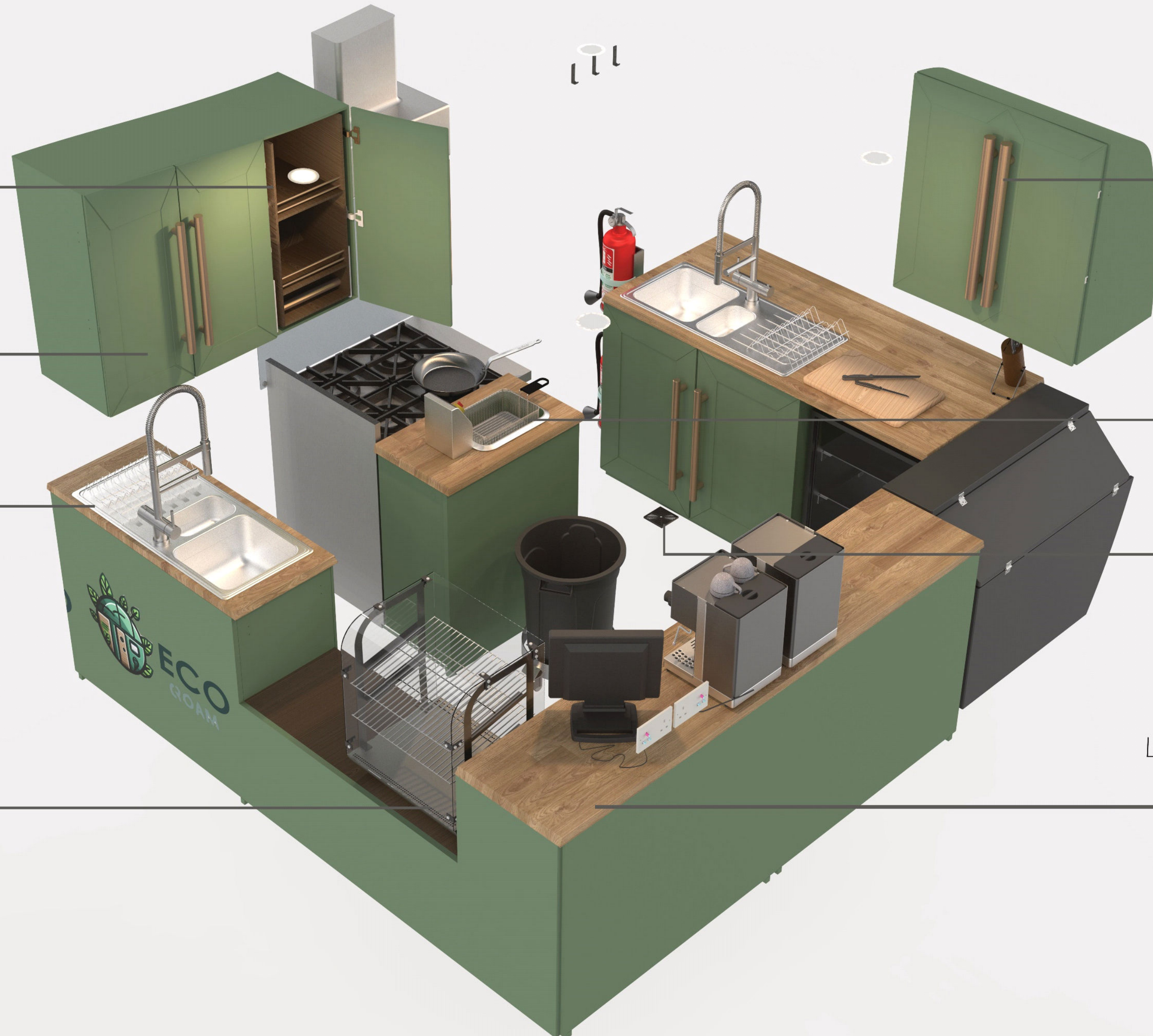
Laminated painted
chipboard
Pantone 17-0324 TPG



Stainless steel
polished



Tempered glass
Polished



Brass
Polished



Stainless Steel
Brushed

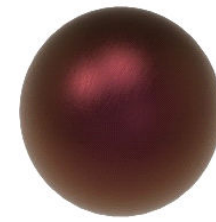


PVC
Pantone Black 3c



Laminated Chipboard
Maple 3 Strip





High Carbon stainless steel
Anodised
Tinted maroon



ABS
Injection Moulded
MT9029



Polyethylene
Rotomoulded



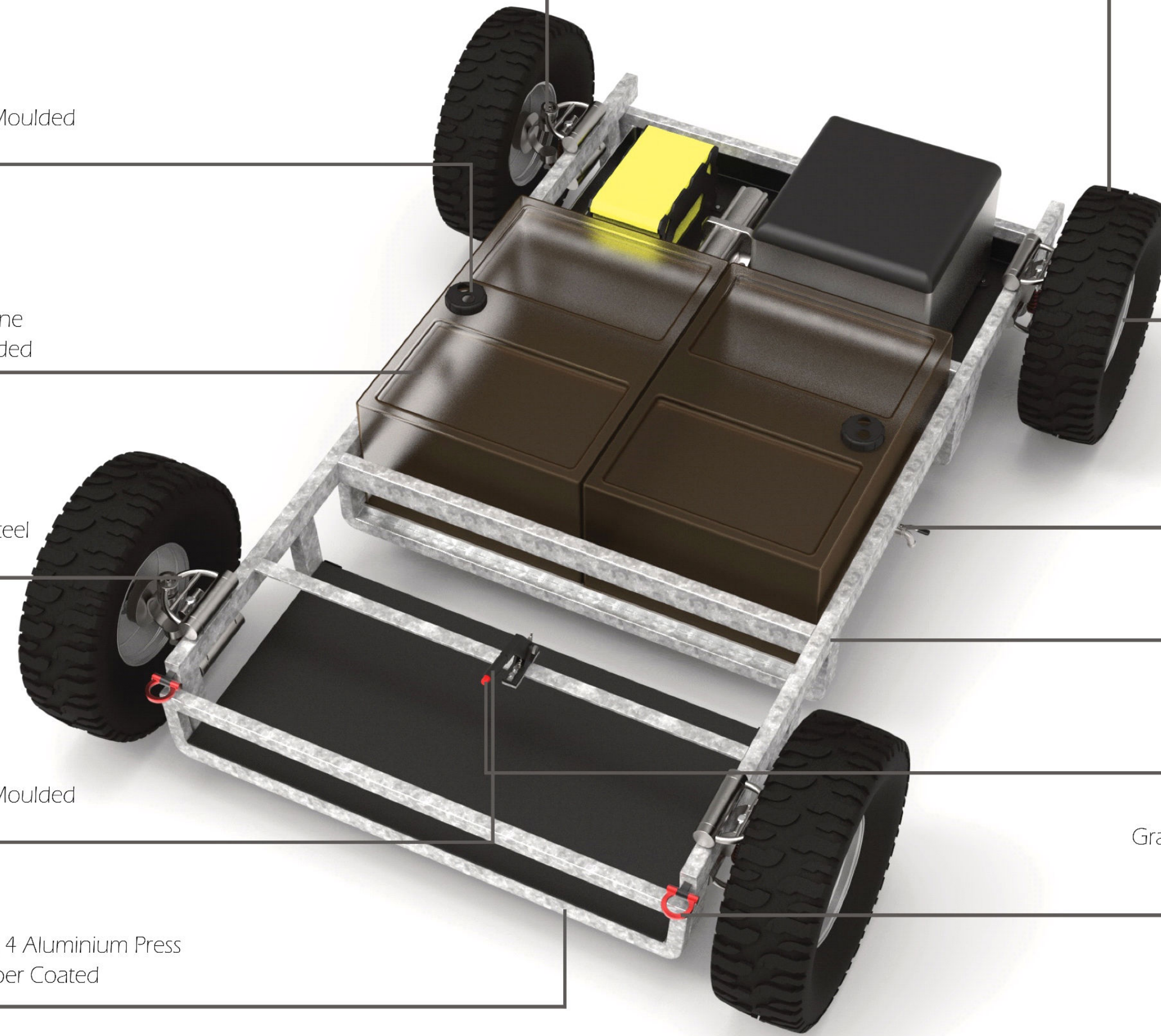
Stainless Steel
Cast



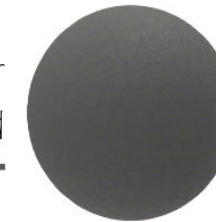
ABS
Injection Moulded
MT9085



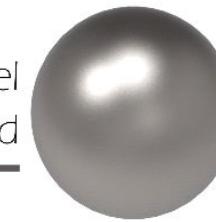
Grade 2014 Aluminium Press
Butyl Rubber Coated



Butadiene and natural Rubber
Symmetric Tyre Tread



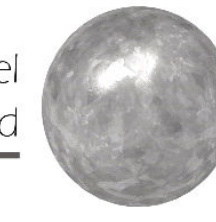
Cast Steel
Powder Coated



Brass
Butyl Coated Handle



Mild Steel
Galvanised



ABS
Injection Moulded
MT9085



Grade 2014 Aluminium
Brushed
Tinted Red







Eco Roam Animation —→
Scan or click to view





Hi-Fi Speaker

Individual Project

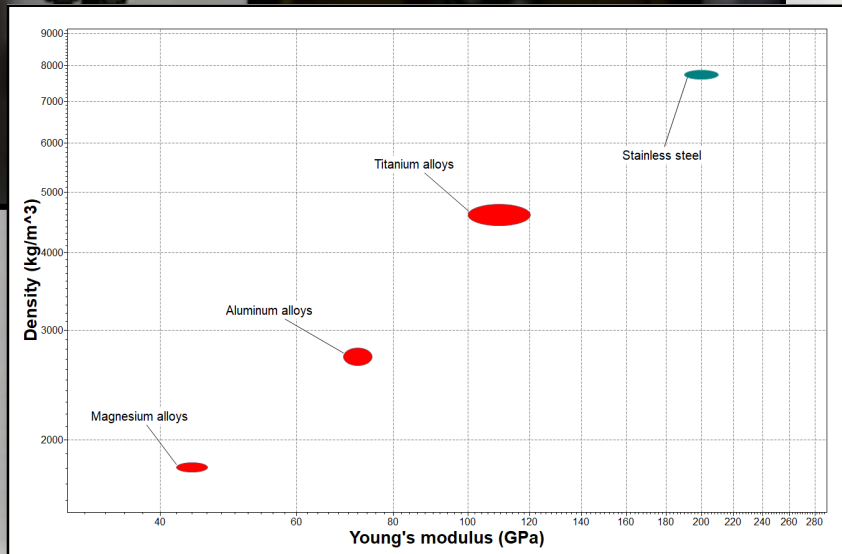
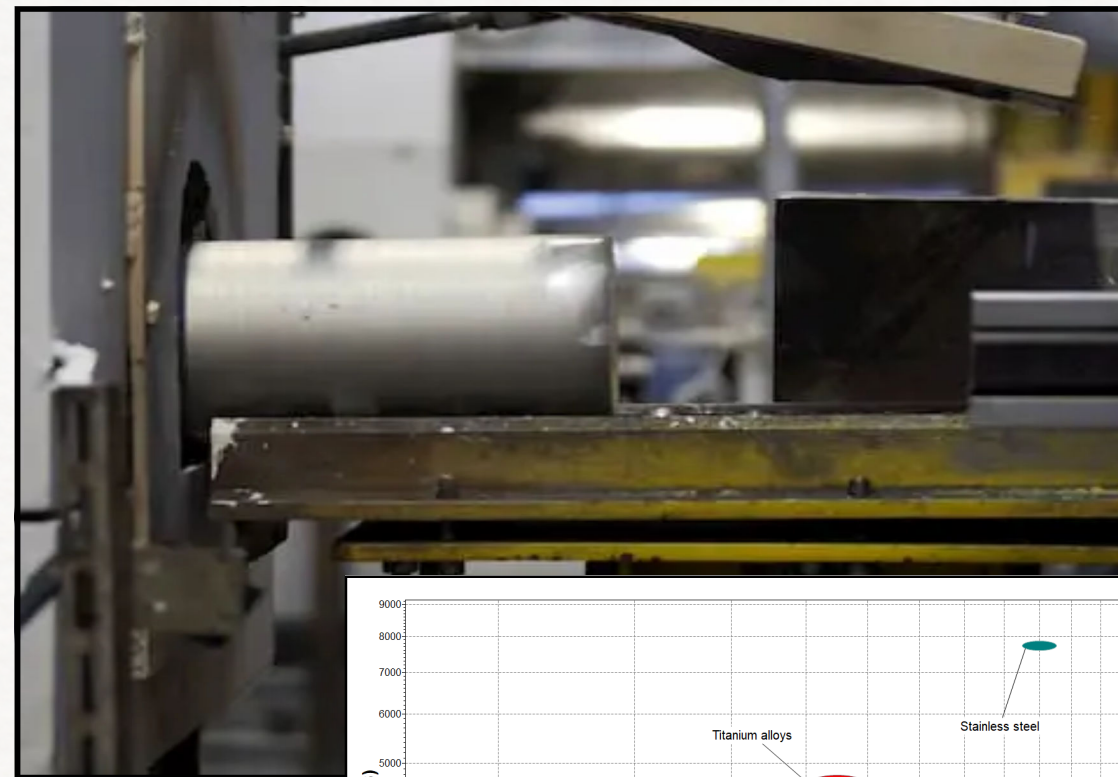
/ 3 Weeks

Design a pair of HiFi speakers suitable for use in a contemporary home or office, with sustainability at the core of every design decision.

The speakers must utilise metal extrusion processes, be designed for full disassembly and recycling at end of life, and demonstrate a strong aesthetic identity through considered material combinations and manufacturing.



Initial Material Research



Aluminium 6063 Extrusion

Aluminium billet heated (~500 °C)

Forced through shaped steel die using hydraulic press

Profile cut to length, cooled, and aged

Optional anodising or powder coat finish

Uniform wall thickness, internal radii, no deep slots

Allows accurate, lightweight structural profiles

Extrusion Aluminium

Averio, Portugal

Injection Moulding PP

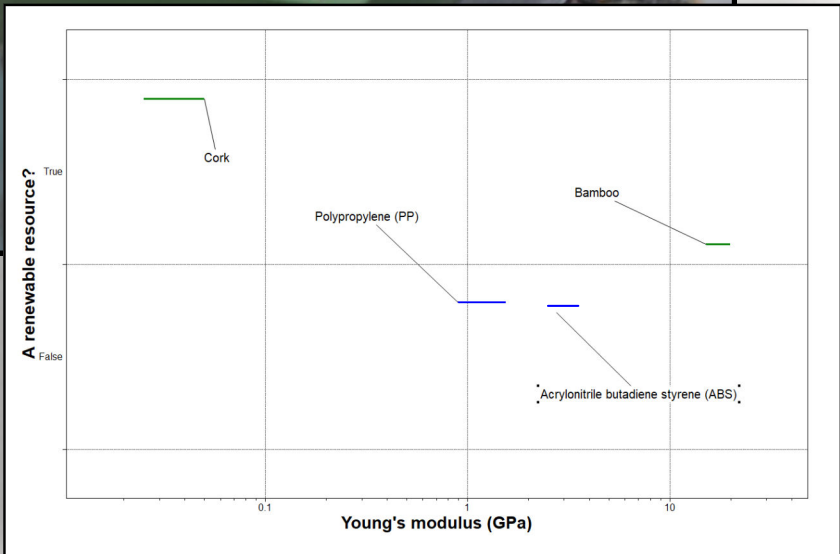
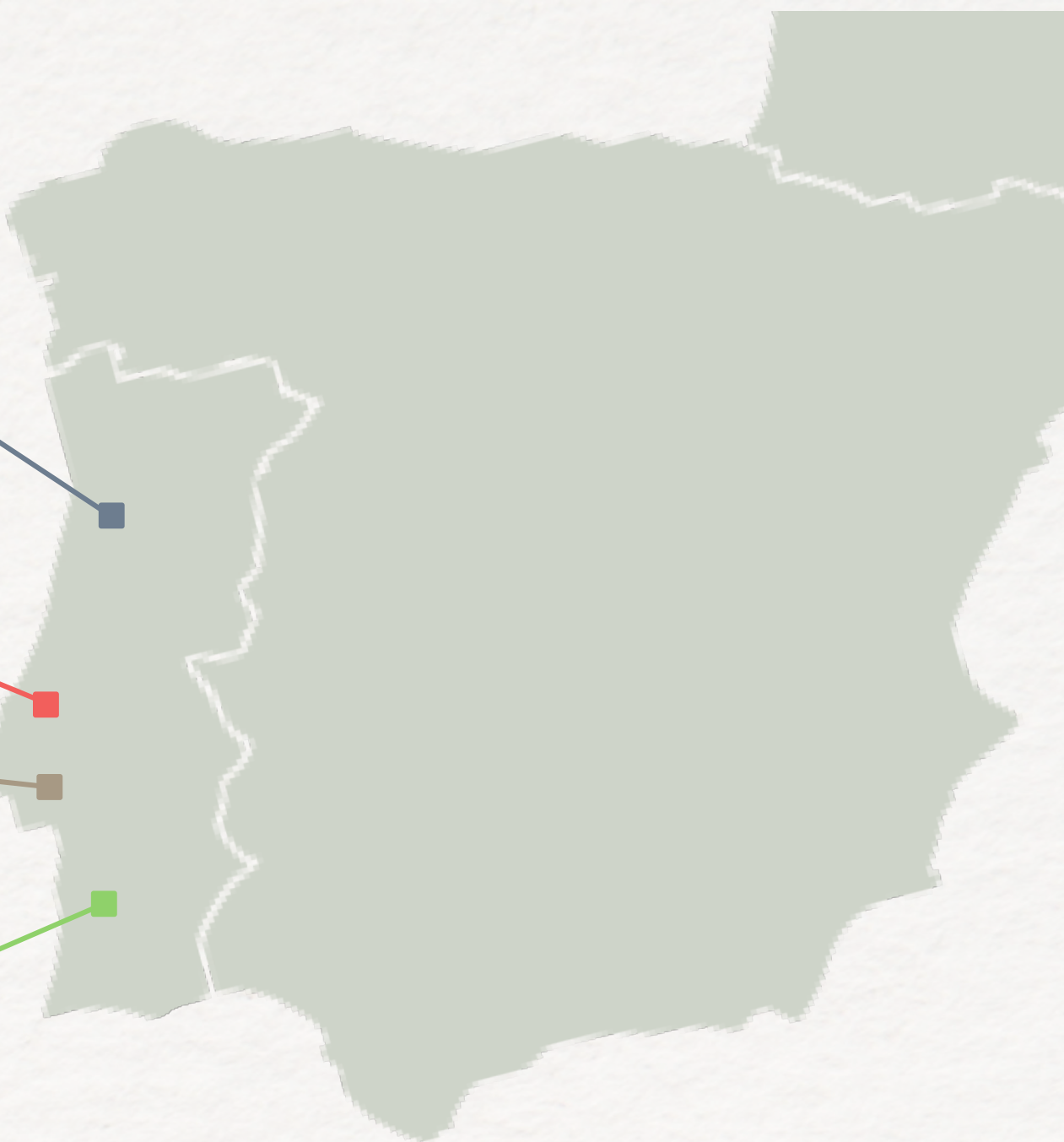
Leiria, Portugal

Cork Harvesting

Alentejo

Bamboo Harvesting

Alentejo



3D Cork Moulding

Aluminium mould, in a press

Cork granules with a binding agent, Natural rubber latex or starch/dextrin or Bio-epoxy

Cavities filled, excess cork brushed away and pressed

Heat and pressure for two moulds

Press is released and parts are removed.

Potentially only 1 process

draft and radii, unfirom wall thickness for even mould,

Bamboo Board Forming

Bamboo sticks heat-treated under vacuum to remove moisture

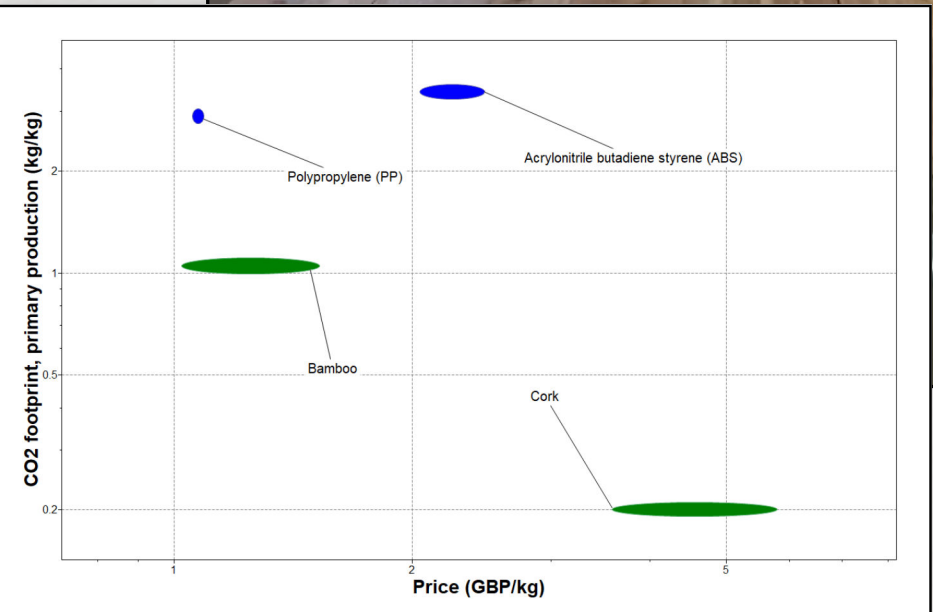
Sticks immersed in PF or bio-based resin for strength and stability

Laid in parallel with bamboo veneers on top and bottom

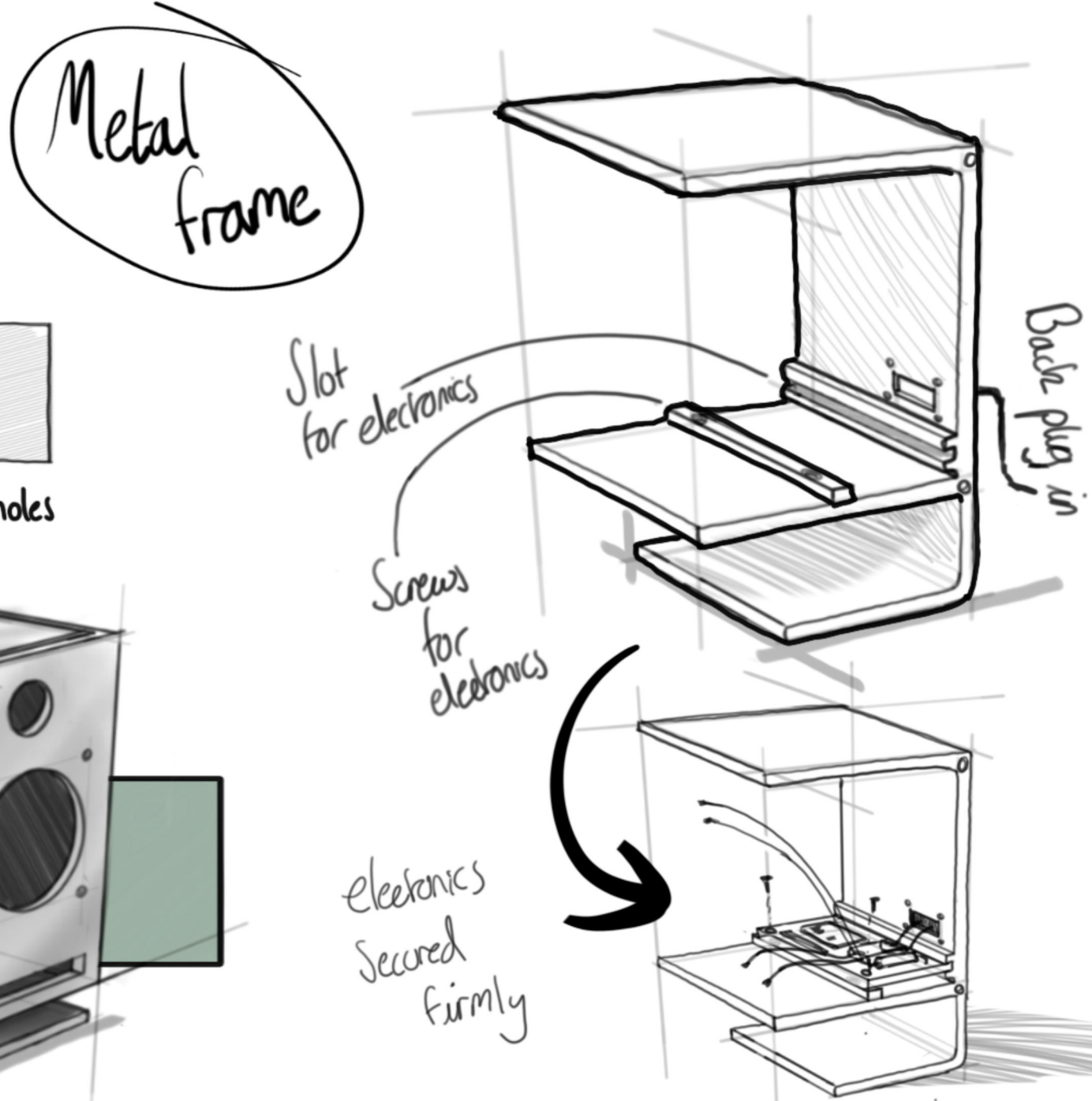
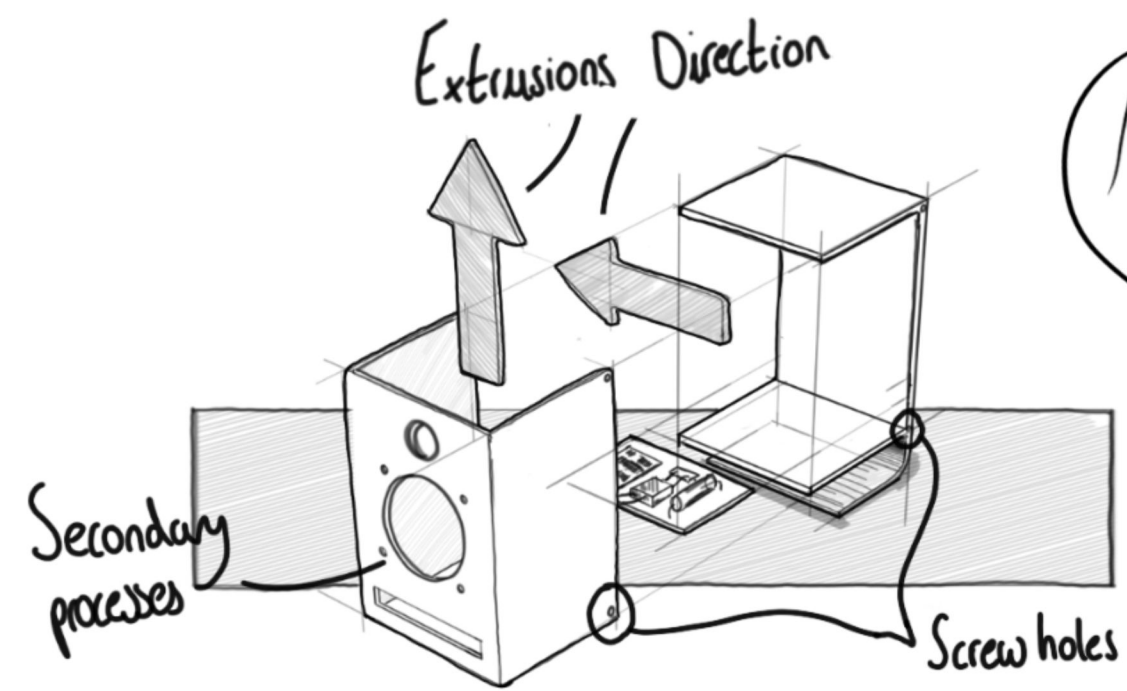
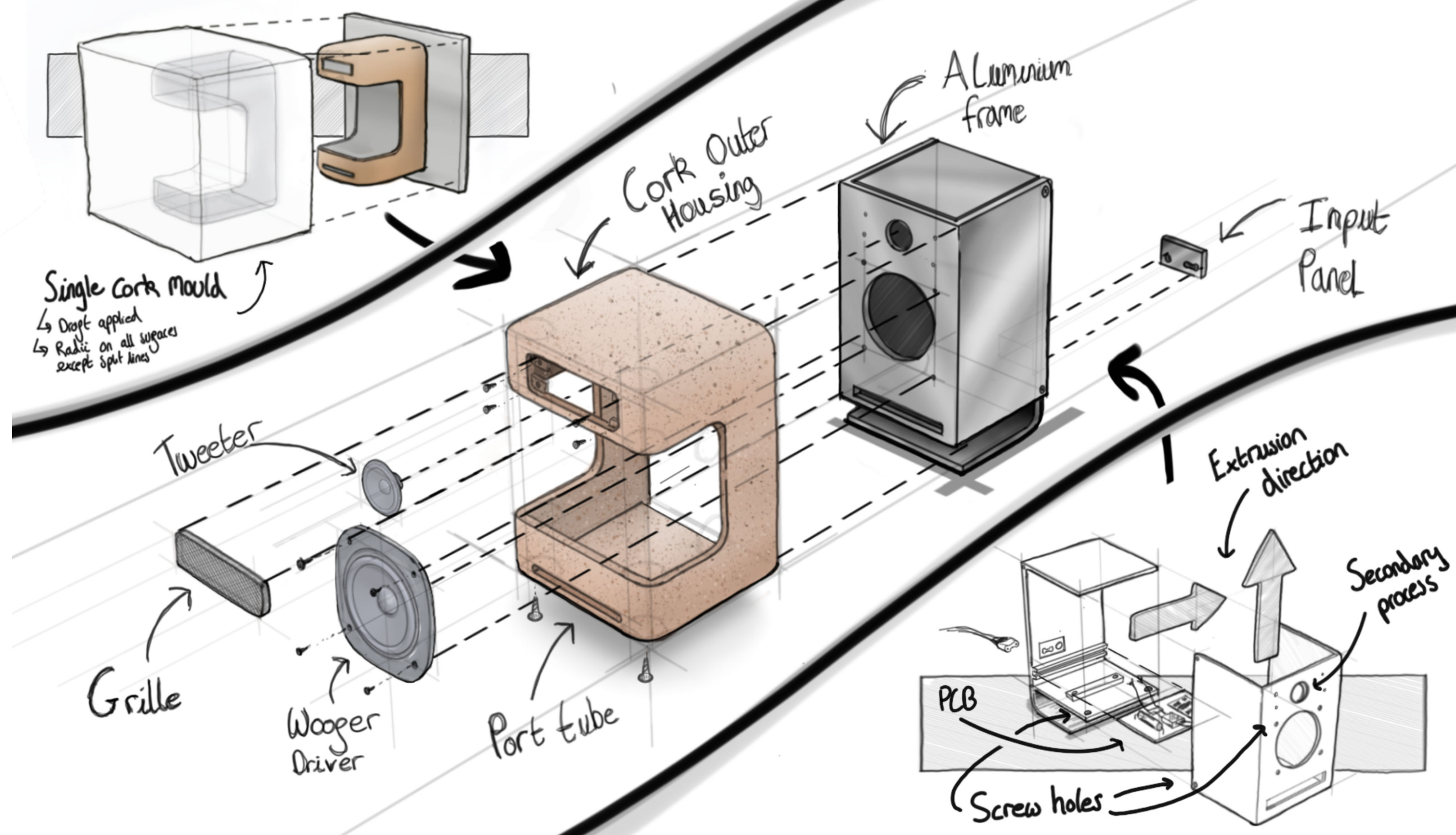
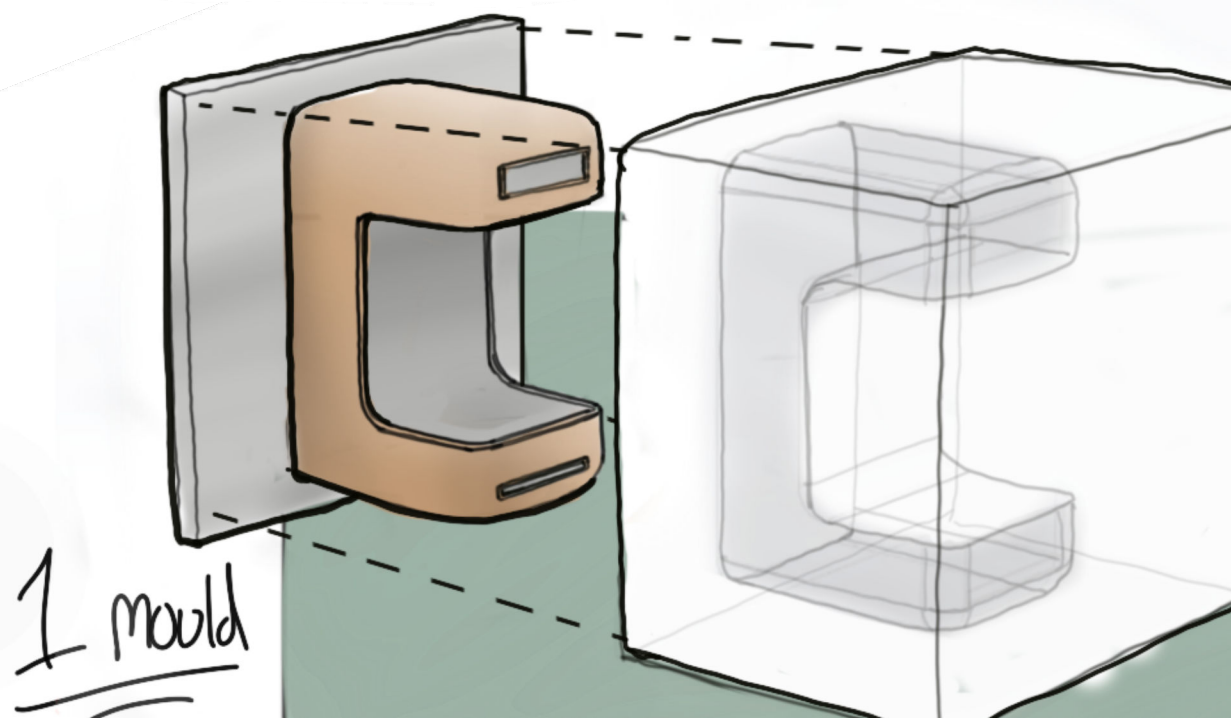
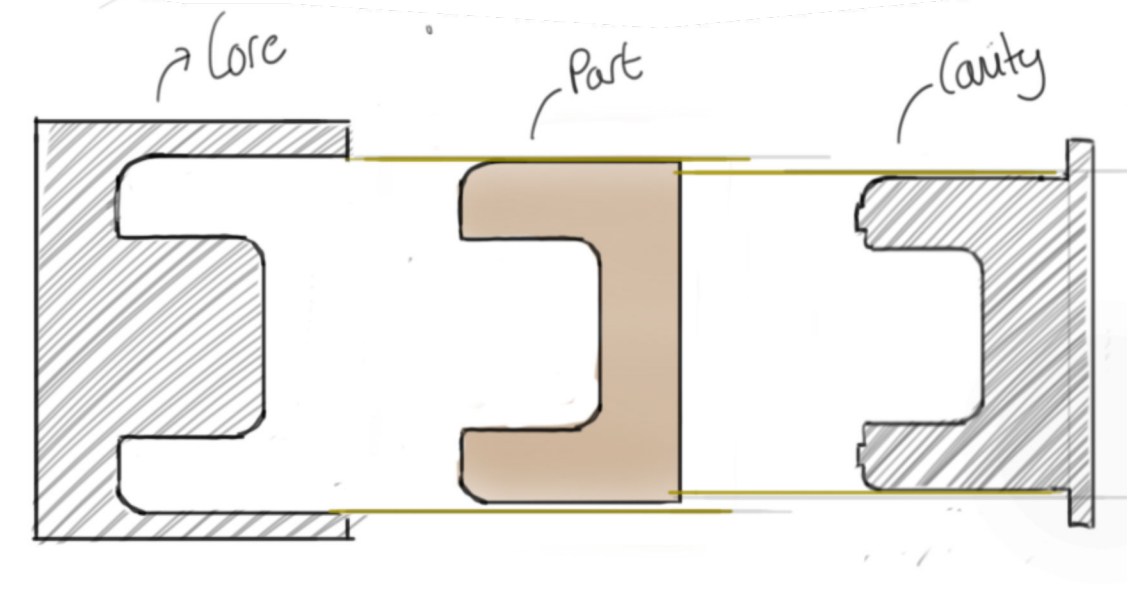
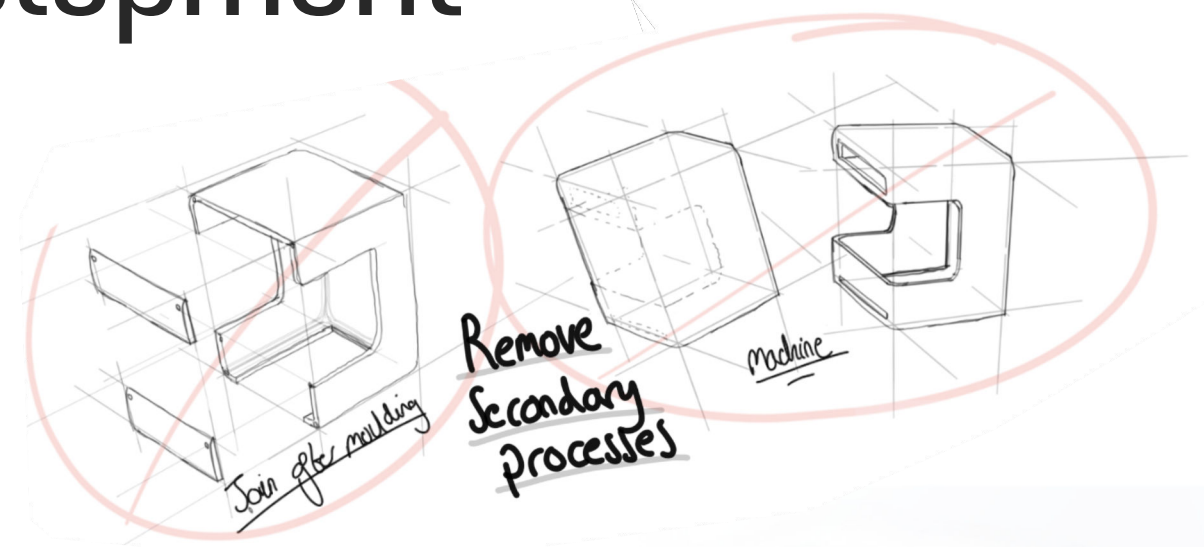
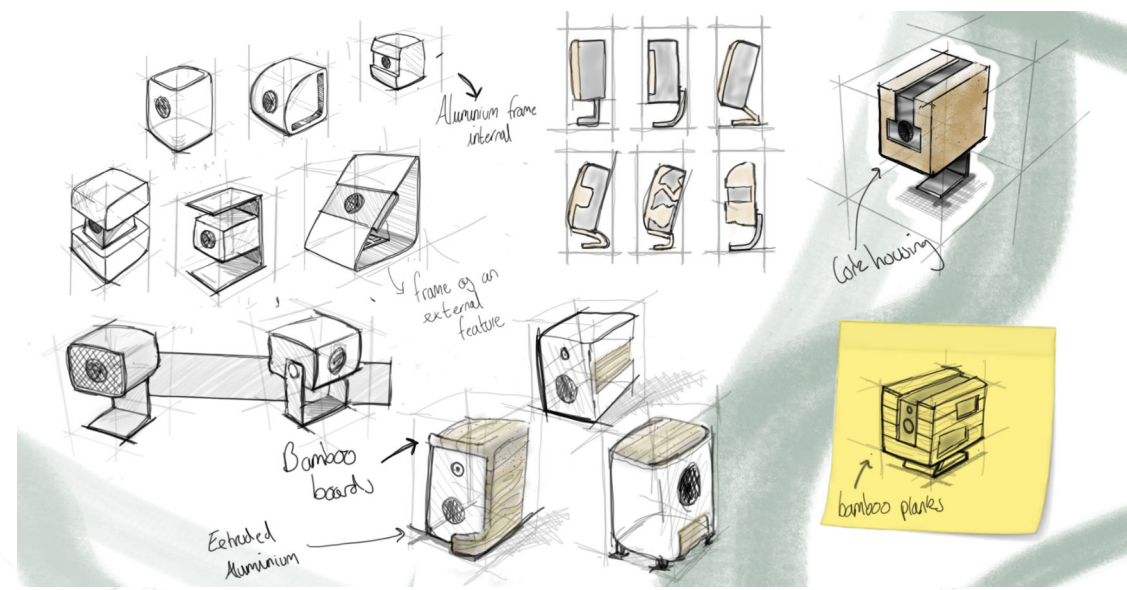
Placed in a flat-platen press with heat and pressure to cure

Panels cooled, trimmed and sanded to finish

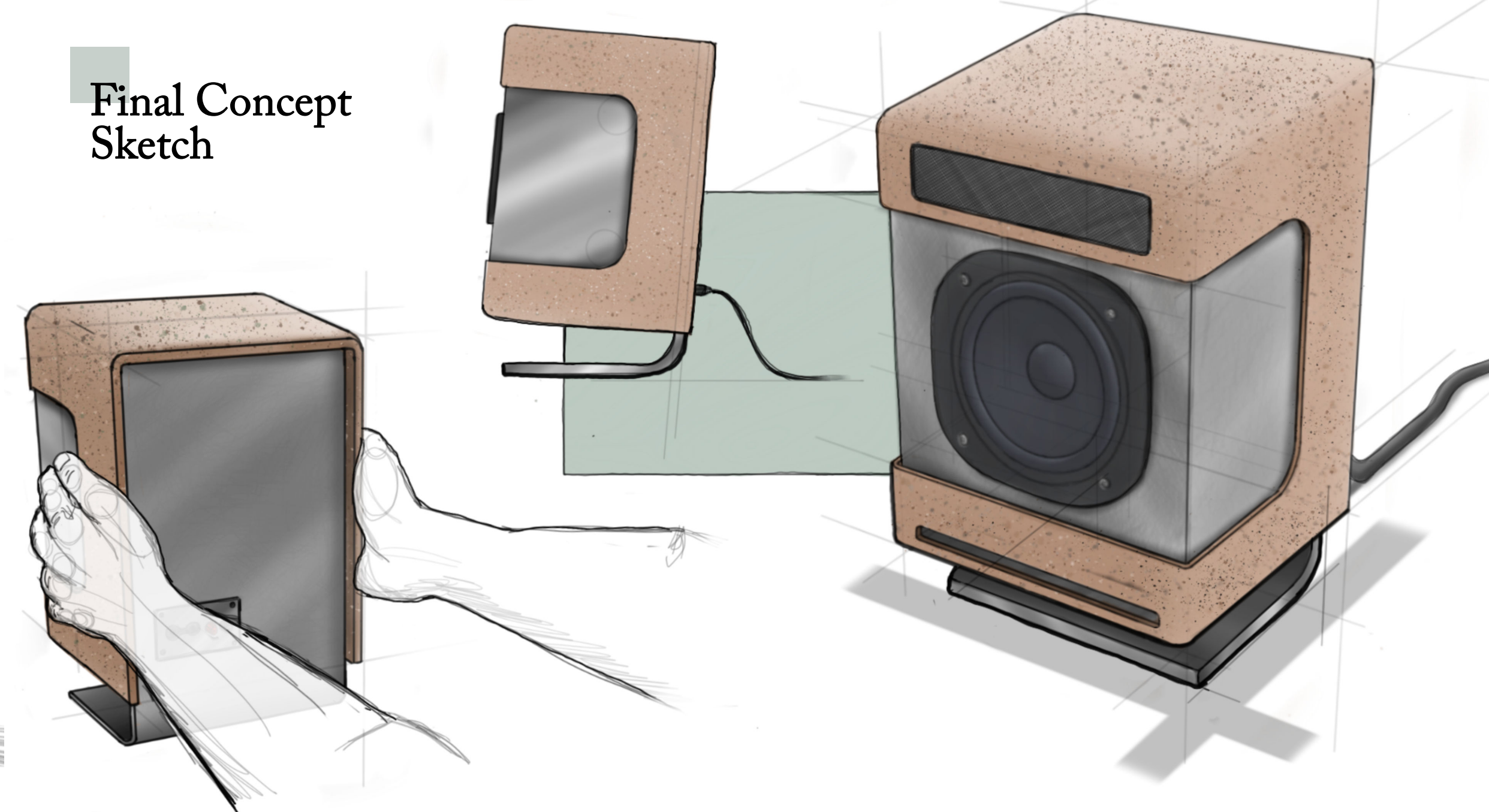
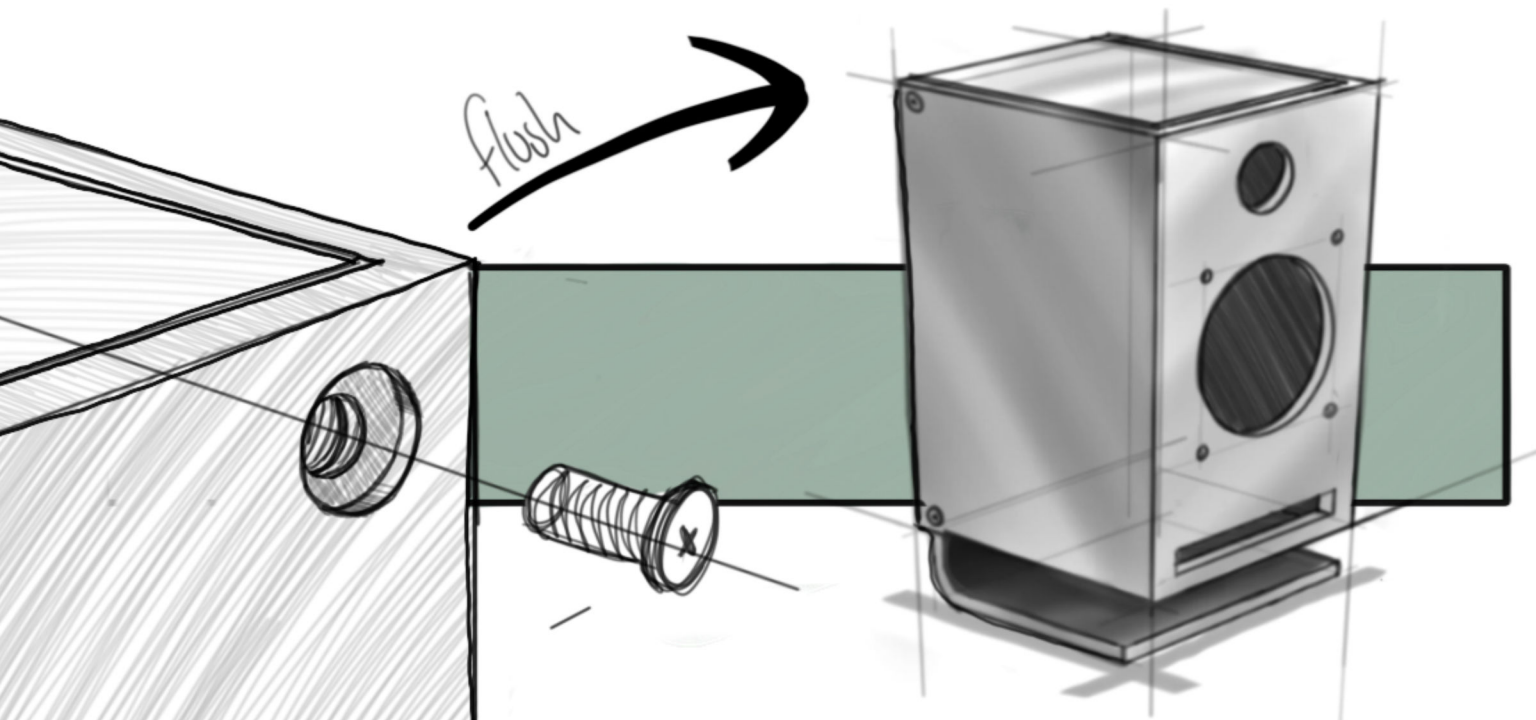
Uniform pressure and orientation for consistent density and surface quality



Sketchwork and Development



Final Concept Sketch



BOM Animation
Scan or click to view



Extras

Various Projects

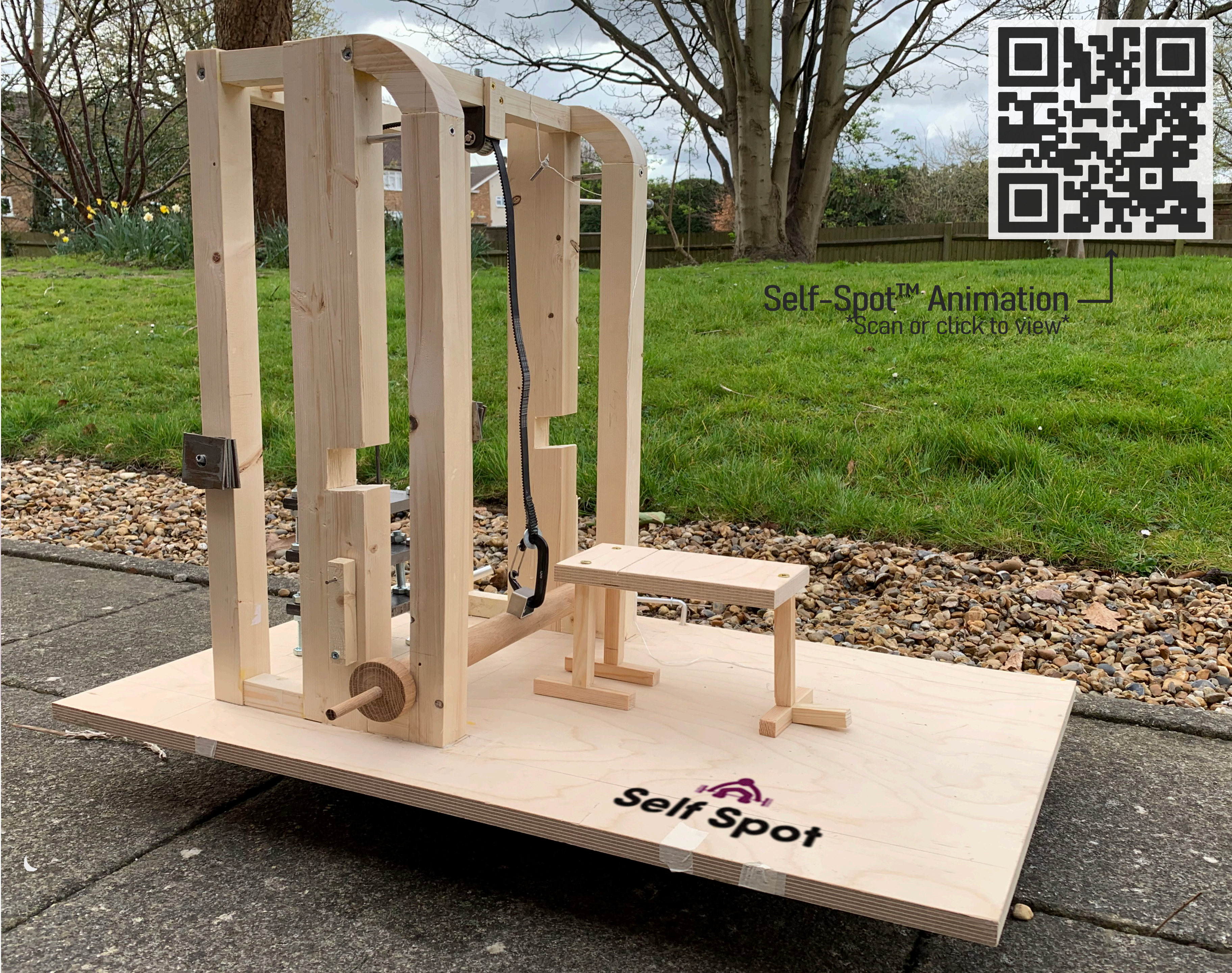
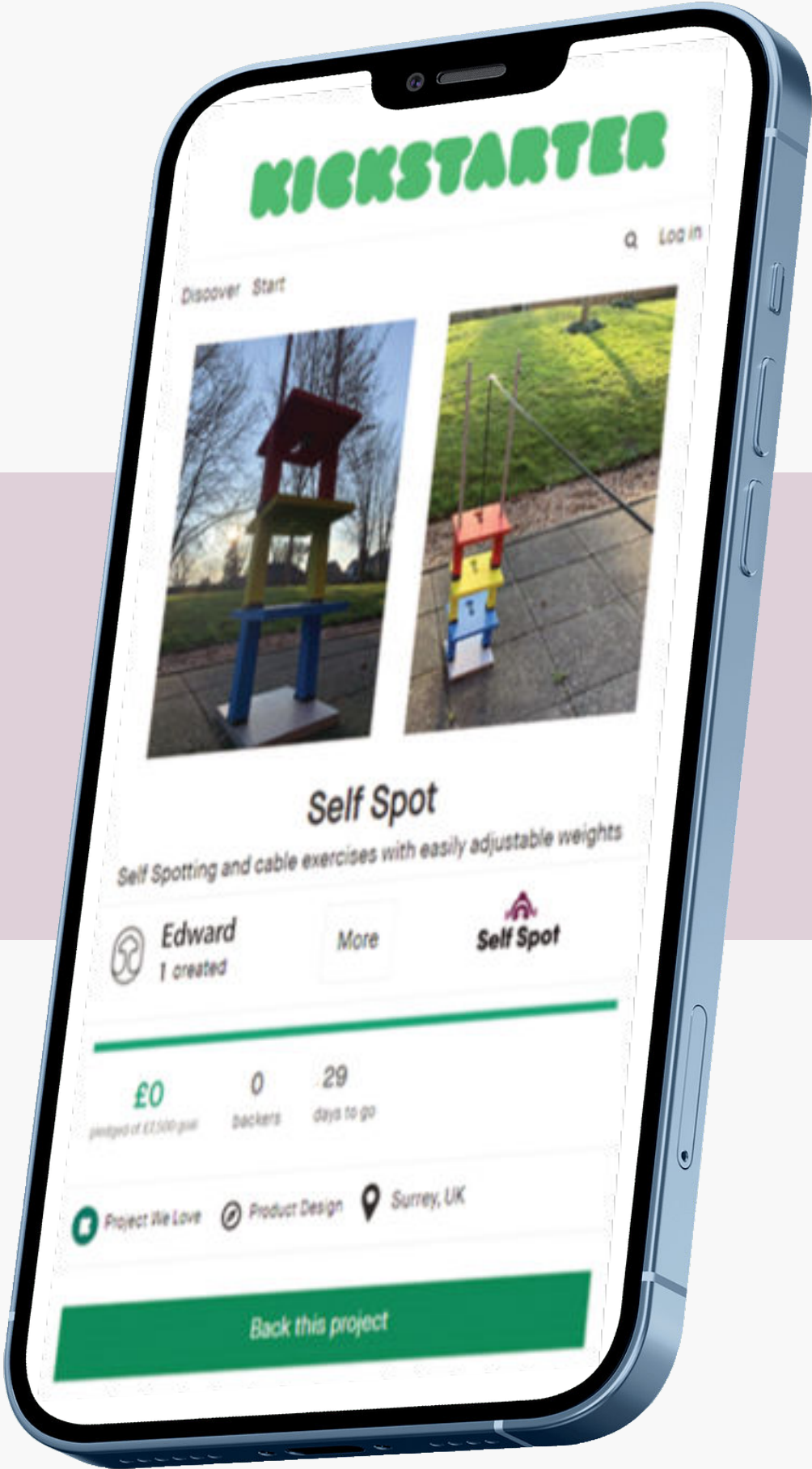
Travel photography captured across different locations and environments

Self Spot™, a self-spotting bench press designed and developed over roughly a year



Self Spot

Select a topic of your choice and conduct roughly a year of research and iterations, developing designs and prototypes to end with a product that benefits your market.



Self-Spot™ Animation
Scan or click to view

Self Spot

Photography

