

$$E \rightarrow S$$



# ELIOT HOUIS

I'm an industrial designer with hands-on cabinetmaking experience, combining 3D skills and deep knowledge of audio and tech-integrated product design

My design is rooted in simple, almost elemental forms, often enriched with digital technologies. I create clear, functional objects, inspired by the tangible shapes and objects around us.

I am driven by a need to touch, experiment, and shape, exploring the contrast between the spontaneity of craft and the precision of industry.



# Practice <sup>5years</sup>

# Design <sup>5years</sup> <sup>Study</sup>

# Engineer <sup>2years</sup> <sup>Study</sup>

5 years  
apprenticeship\*

## Master's Degree in Digital Design and Innovation

L'École de design Nantes France 2022 → 24

## Bachelor's Degree in Industrial Design

L'École de design Nantes France 2019 → 22

## Cabinetmaking Certification (=MBO2)

Wood School of St Quentin France 2018 → 19

## DUT Mechanical & Product Engineering

University of Amiens France 2016 → 18

Apprenticeships\* combine practical training in a job with study

## EXPERIENCES

5 years of  
experience

09/2022 → 02/2025

### INDUSTRIAL DESIGNER - PRODUCT MANAGER

La Boite Concept - Hossegor - France

#### Apprenticeship + Freelance

/Designed, set up, and implemented an industrial cabinetmaking workshop, ensuring the sizing of machines aligned with industrial needs.

/Designed and prototyped a pair of passive speakers for Micromega, aligning with their acoustic and aesthetic standards.

/Managed the design and development of a speaker in collaboration with Axel Chay and MYD.

09/2020 → 09/2022

### ASSISTANT INDUSTRIAL DESIGNER

La Boite Concept - Hossegor - France

#### Apprenticeship + Freelance

/Worked for the development of the Lx product line, including the creation of Lx Studio.

/Designed the Square turntable and managed its industrial development with European suppliers.

/Designed and prototyped both the electronics and physical components of a streaming device in partnership with Escape.

25/02/2019 → 22/03/2019

### ASSISTANT CRAFTSMAN

Stephane - La Trinité - France

#### Internship

/Design, fabrication, and installation of nautical wooden parts on catamarans over 10 meters..

18/05/2017 → 20/06/2017

### ASSISTANT MECHANICAL ENGINEER

ROTA Industrie - Istanbul - Turkey

#### Internship

/Engineering development of new oilfield and paper industry equipment.

/Production monitoring and mechanical engineering.





# Skills

CAD & 3D rendering  
DFM & Supplier coordination  
Parts sourcing with low MOQs  
CNC simulation & manufacturing (XYZ)  
PCB design & manufacturing (EasyEDA)

## PRODUCTION SKILLS

CNC programming and production (XYZ format)  
Woodworking tools  
3D Printing & Laser cutting  
Painting and finishing process  
Ceramic modeling  
Proficient in wood joinery & assembly

## Languages

English international -TOIC 855 ( 2024) + 1 year international exp  
French

# Softwwear

Fusion 360	8 years of experience
Rhino - Grasshopper	5 years
SolidWorks	8 years
Blender	3 years
KeyShot	5 years
Adobe Ps-Ai-Id-Lr-Pr	5 years
Figma	3 years
IA agent ( Nanobanana - N8N - Flux - ComfyUi ... )	1 year



# Projects



**01 - STREAMER**

Don't replace your speaker, upgrade!  
Swap the streaming module, keep your all-in-one speaker alive



**02 - SHARE IT**

How to bring the physical ritual to digital streaming?  
Seamlessly bridge streaming platforms, YouTube lives, and physical album covers to build an organic, tactile playlist.



**03 - PASSBEAT**

Guys, who's carrying the speaker for the run?  
Pass it like a relay baton and share the beat together.



**04 - SMART HANGER**

Why should a price tag be the only information a hanger provides?  
Show customers how the piece fits, check availability instantly, and eliminate the friction of searching for price labels."



**05 - SOLO**

How can we leverage existing amplifier tooling to minimize waste?  
Why not use it to create a clear and readable audio stack?



# STREAMER

La Boite Concept designs and builds domestic speakers with a clear guiding principle: reducing technological obsolescence for users. This approach stands in contrast to the constant race to follow the latest tech trends. Instead, the goal is to create attractive, long-lasting products that combine innovation with timeless design.

How can we integrate evolving audio streaming technology into an interchangeable, upgradable component ?

- 7

Supported products
- 3-4 Years

Average lifespan of a speaker

TYPE OF PROJECT  
DURATION  
ROLE

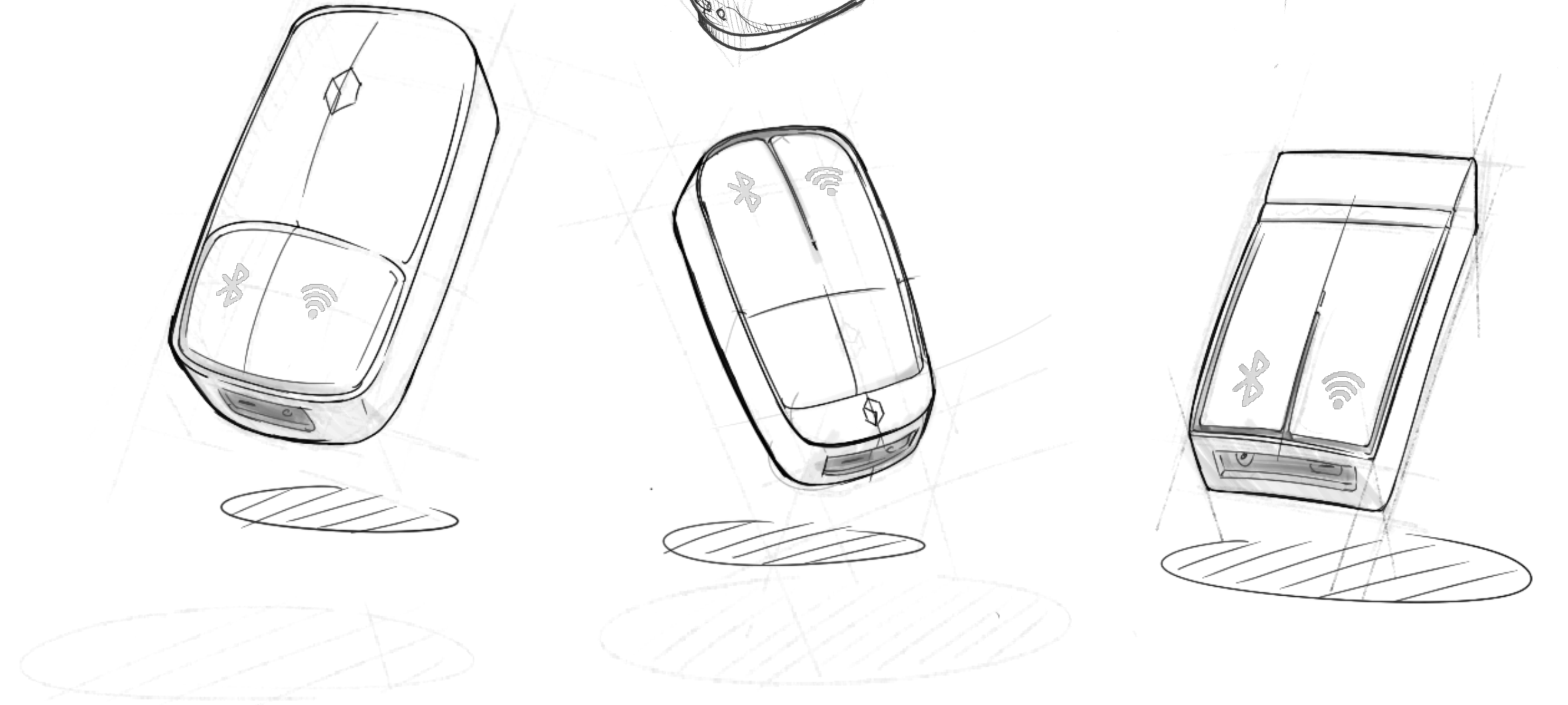
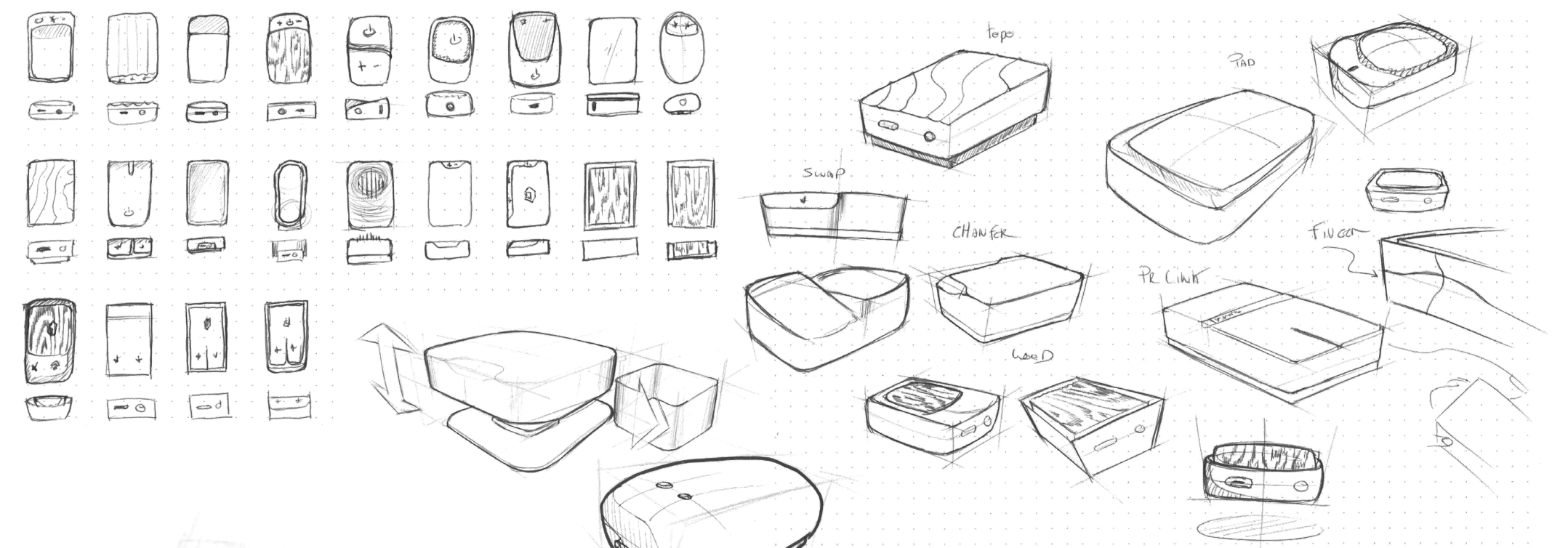
APPRENTICESHIP  
6 MONTHS  
DESIGNER - PROJECT MANAGER





## BUTTONS, TEXTURES & SHAPES

Designed with a long-term logic, the unit maintains ecosystem continuity across past and future generations. Dual controls provide intuitive access to connectivity functions and Bluetooth pairing.







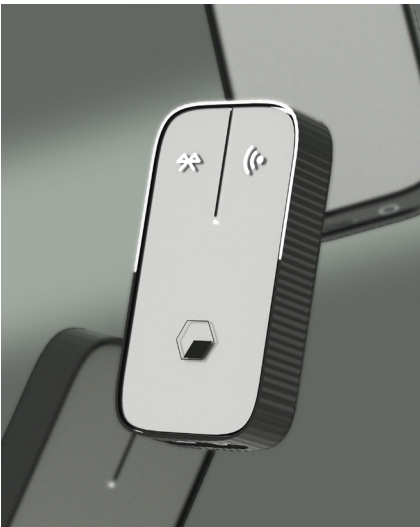
# DESIGN MATCH

Designed for longevity, our products ensure full compatibility across generations. The new line combines sharp, minimalist lines with premium materials for a timeless look. Each model features a built-in technical bay to easily house your streamer and connectivity tools.



**CONCEPT 01**  
Rectangular shape with a design inspired by La Boite Concept's PR product lines.

Selected for its cohesive lines and visual clarity



**CONCEPT 02**  
Glassmorphism shapes highlight La Boite Concept's evolving technology. Rounded corners emphasize grip and adaptability.



**CONCEPT 03**  
Dual-material design conceived for rapid and cost-effective production.



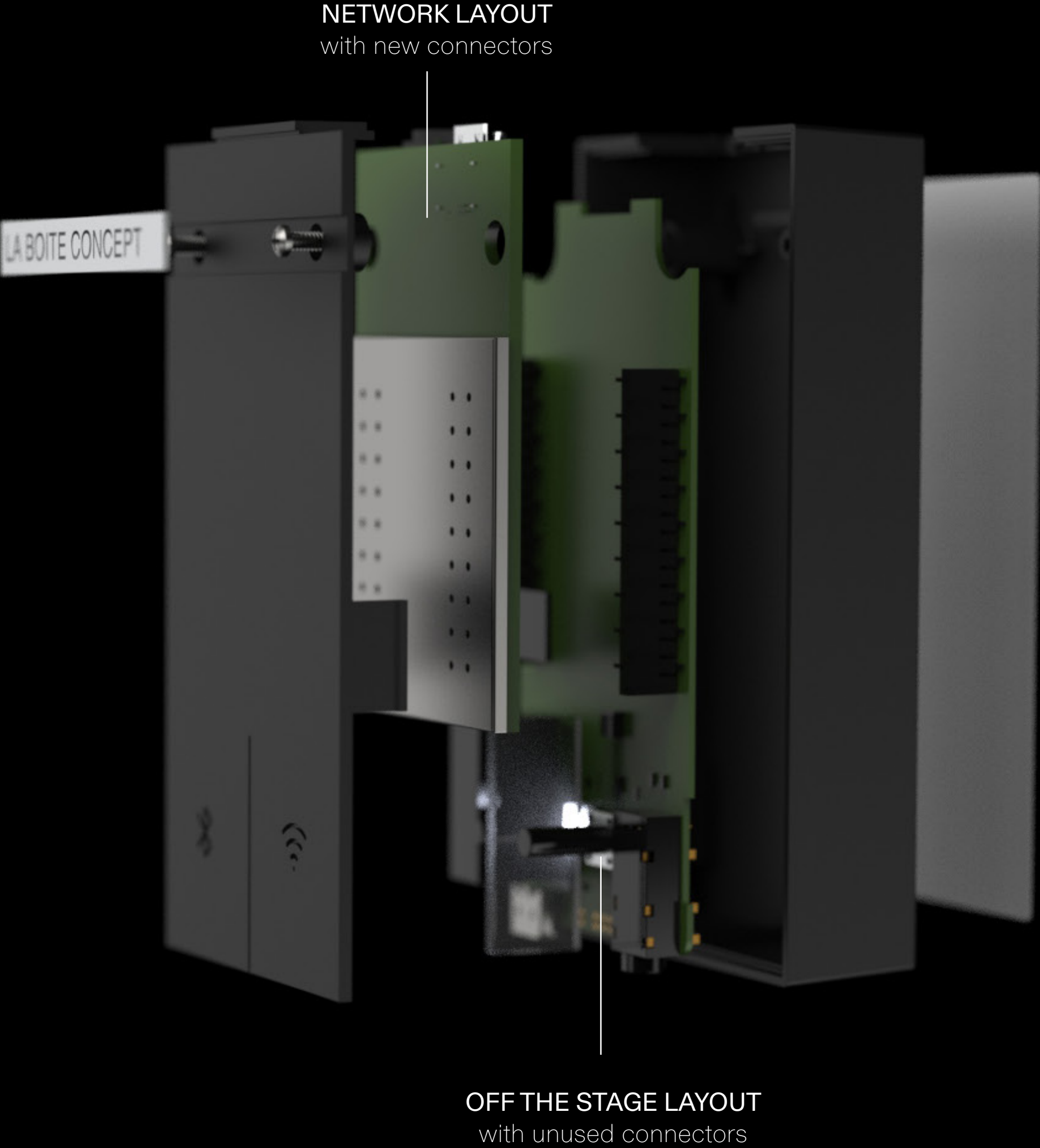
# DESIGNING WITHIN CONSTRAINTS

After several development stages of custom electronic design, we decided to move forward with off-the-shelf technology. To adapt this solution, we reconfigured the PCB's network layout, ensuring the connector was optimally positioned for our product's specific constraints.

## GO TO MARKET

Developing and launching a project can be a lengthy process. To streamline the go-to-market strategy, La Boite Concept decided to move forward by adapting a compact, existing streamer module.

My role involved the development of this adapter, specifically focusing on the PCB layout and hardware integration.





# SHARE IT

With music platforms increasingly driven by personalized algorithms, the social dynamic of listening has shifted. Today, a single person usually acts as the 'curator,' controlling the speaker for the group in both private and shared environments.

How can we rethink group interaction through music in shared spaces ?



TYPE OF PROJECT  
DURATION  
ROLE

VARIANT OF MASTER DEGREE PROJECT  
2 MONTHS  
STUDENT DESIGNER







# FRICTIONLESS SHARING

By eliminating the friction of connectivity, SHARE IT fosters a more social way to listen. It offers a unique physical interface for your Hi-Fi system, transforming digital selection into a tangible, playful, and shared experience.

## DESIGNED FOR

Small groupes  
Roomate and couple  
Family

## POWERED BY

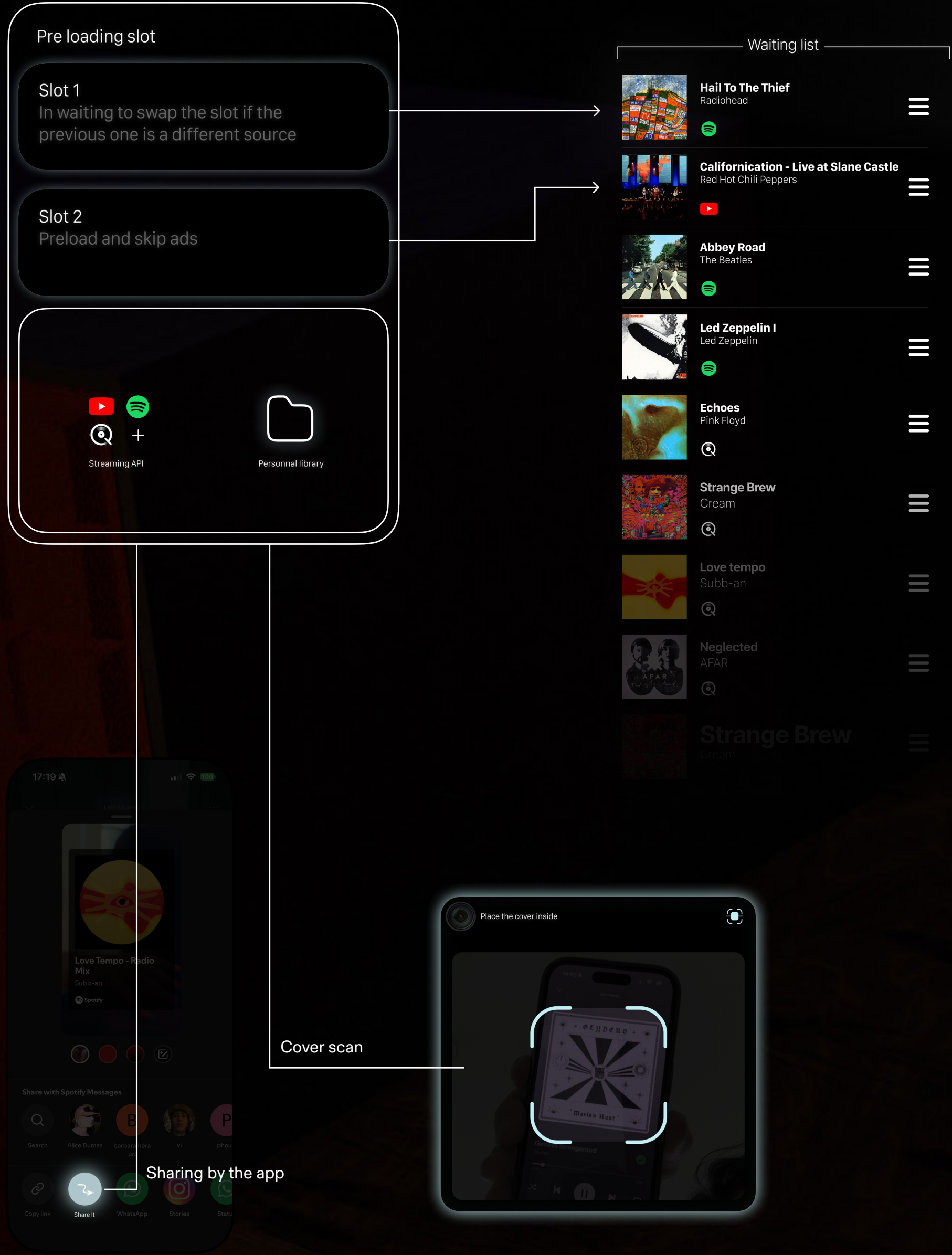
Streaming major to increse  
engagement

Data feedback ↑  
API supplier ↓

## TECHNOLOGIES

Visual cover detection  
Pre-loading slot





# ALL ACCESS

SHARE IT blend all your music sources in one point. His technhlogy of sloting loading guarantees a fluid reading without any ads, across all your platforms and library.





# SHARE IT

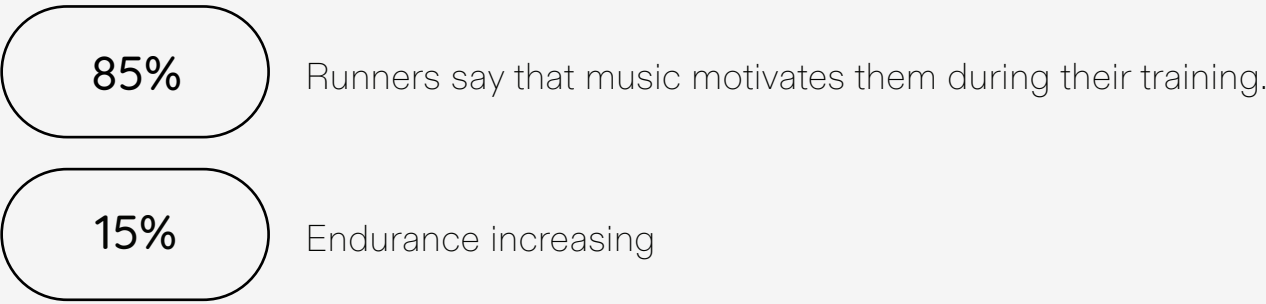
SHARE IT features an integrated personal speaker, allowing users to preview tracks via a long-press action. For intuitive navigation, a physical scroll wheel facilitates seamless track selection and reordering. To ensure audiophile-grade performance, the device is equipped with a high-end Sabre DAC chipset and a linear power supply, delivering high-resolution audio restitution with minimal distortion.



# PASSBEAT

From endurance-boosting beats to shared playlists among friends, music is essential to the athletic experience. In the world of running, it is more than just background noise; it is a core component of the journey, driving performance and connection alike.

## What a speaker designed for runners could look like?

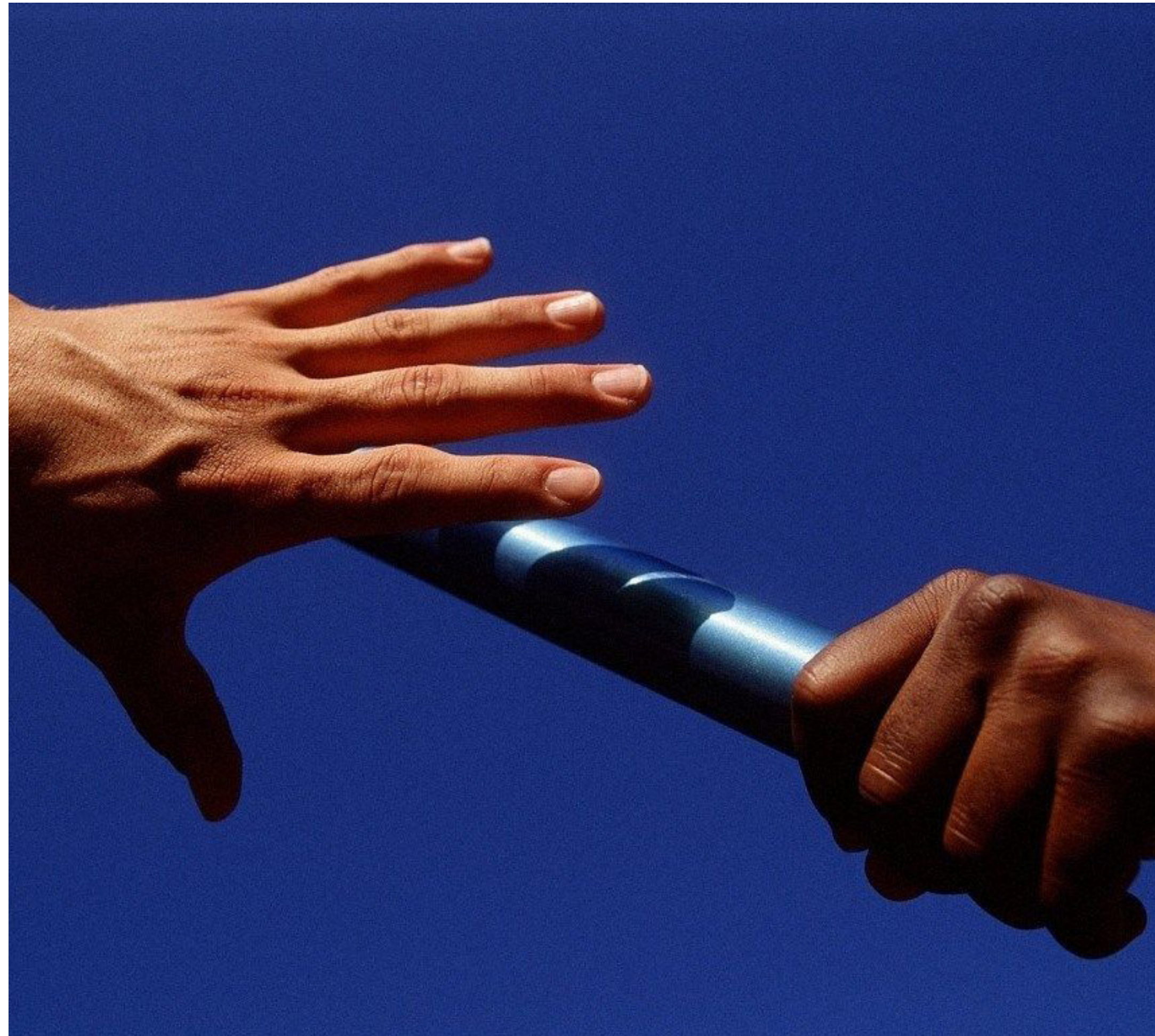


TYPE OF PROJECT  
DURATION  
ROLE

PERSONAL PROJECT  
1 WEEK  
INDUSTRIAL DESIGNER







## RELAY BATON

Moving away from traditional carrying solutions, I explored a form factor inspired by the athletics relay baton. The goal was to optimize hand-to-hand transition during exercise. I iterated on ergonomic shapes and integrated a secure strap system to ensure stability while running, making music sharing as fluid as the run itself







**GO Button**

Used to launch a sport activity on the connected app.

**Emergency Button**

Alerts emergency or safety contacts, or triggers a detection sound to help rescuers locate you.

**Rugged Part**

Protects the woofer from impacts and rough conditions.



# Give, Keep or fold it!

Featuring an optimized grip for seamless hand-to-hand transitions during runs.  
This foldable speaker is designed for portability, fitting easily into running vest pockets similar to a hydration pack.





# KLIP IT!

Boost your motivation and your visibility with the music running vest. Designed for perfect balance, this speaker features a vertical silhouette that aligns seamlessly with your spine.





# SMART HANGER

Why should a price tag be the only information a hanger provides? Physical stores often produce communication materials such as tags, labels, or branded objects that are tied to a single collection and quickly lose their relevance. Clothing companies are therefore always looking for new ways to keep their brand alive, whether through digital canvases or innovative communication tools.

**How can we create a dynamic in-store consumer experience while reducing single-use paper and communication materials?**

TYPE OF PROJECT  
DURATION  
ROLE

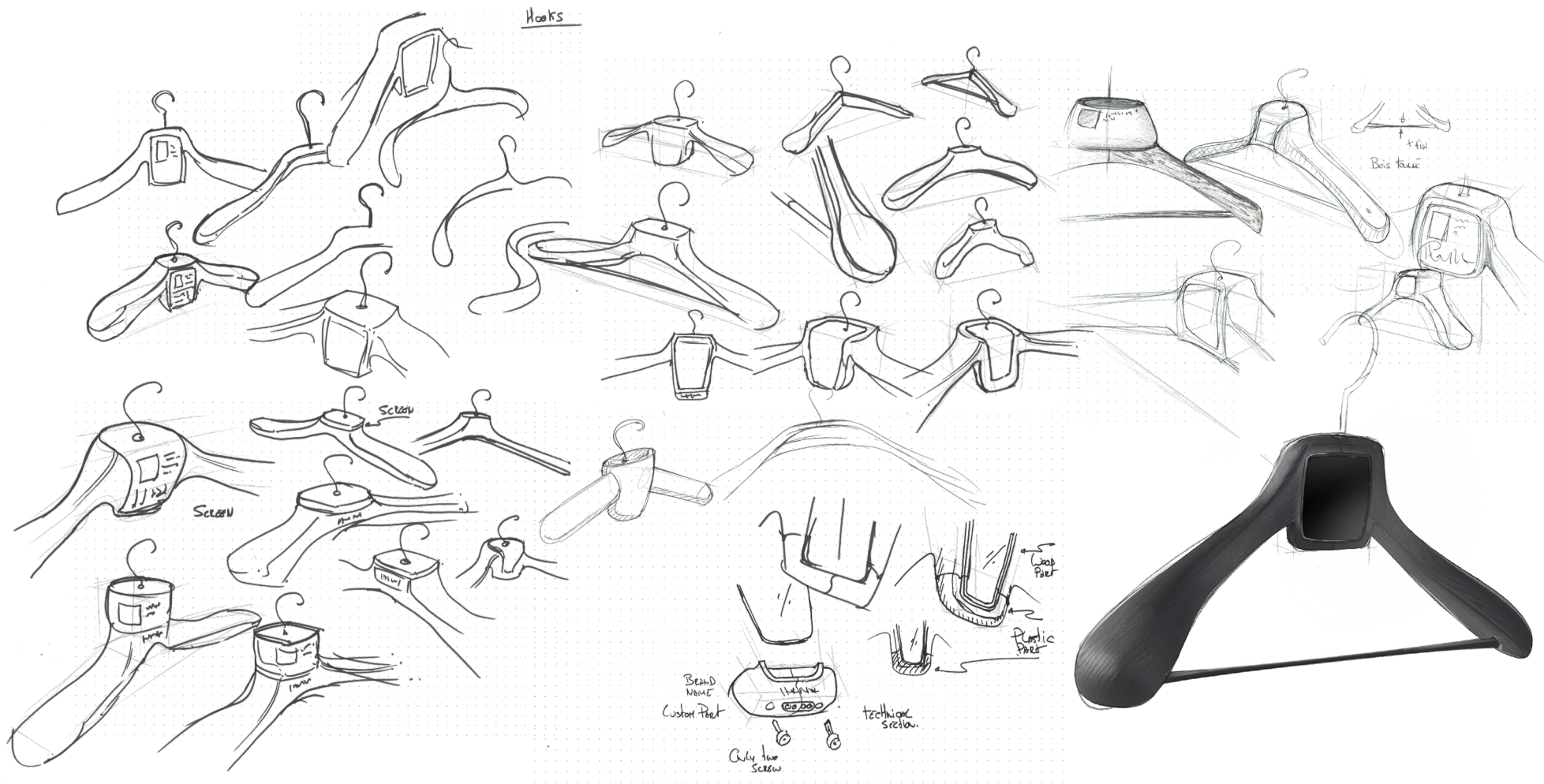
PERSONAL  
1 WEEK  
LEAD DESIGNER





# DIGITALIZATION

To bridge the gap between physical retail and digital information, I integrated a display into the hanger's architecture. This digitalization allows brands to communicate pricing, storytelling, maximizing the potential of an often-overlooked retail asset.





WOOD PART

PCB

LCD SCREEN

SCREEN GLASS

POGO CONNECTOR

PLASTIC CASING

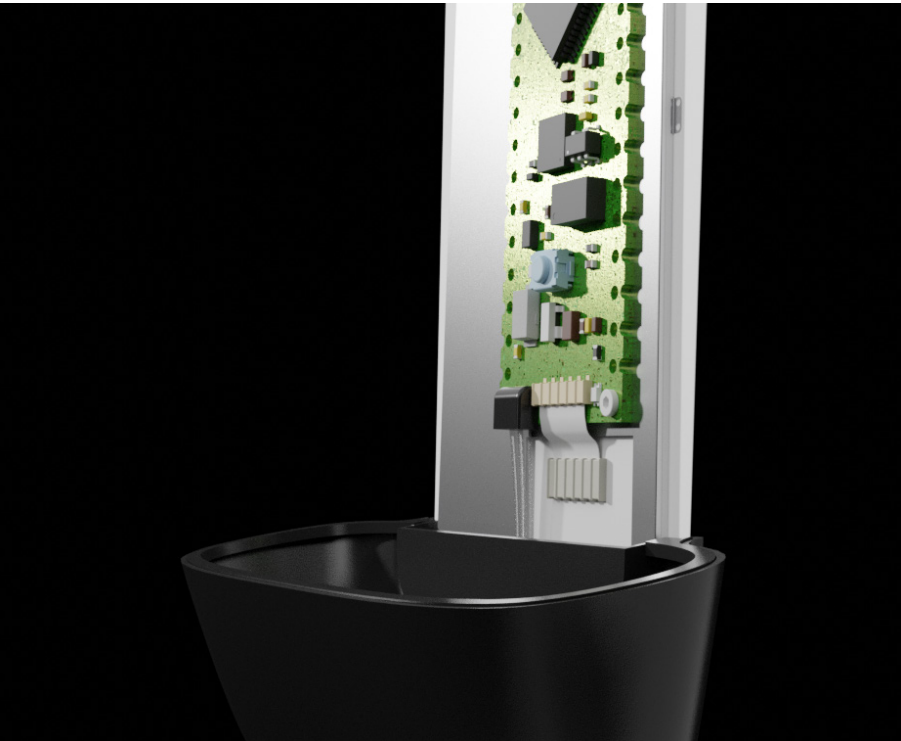


# LOW ENERGY PRODUCT

To minimize energy consumption, the system leverages E-ink technology, consuming power only during data refreshes. The information can be updated seamlessly using NFC contact—allowing vendors to synchronize data or enabling the garment's own tag to update the hanger automatically. As a robust alternative, pogo pin connectors are provided for secure communication with specialized retail devices.



The pogo connector provides charging and data transfer to update the branding content.



The screen, PCB, and glass are installed on the plastic base to facilitate assembly and part replacement.







# SOLO

After the company acquired Micromega — a renowned and respected French audio brand — my mission was to design a speaker that perfectly complements their new audio amplifier. This new speaker pair will be equipped with the TWZ tweeter and woofer, both developed by La Boite Concept.

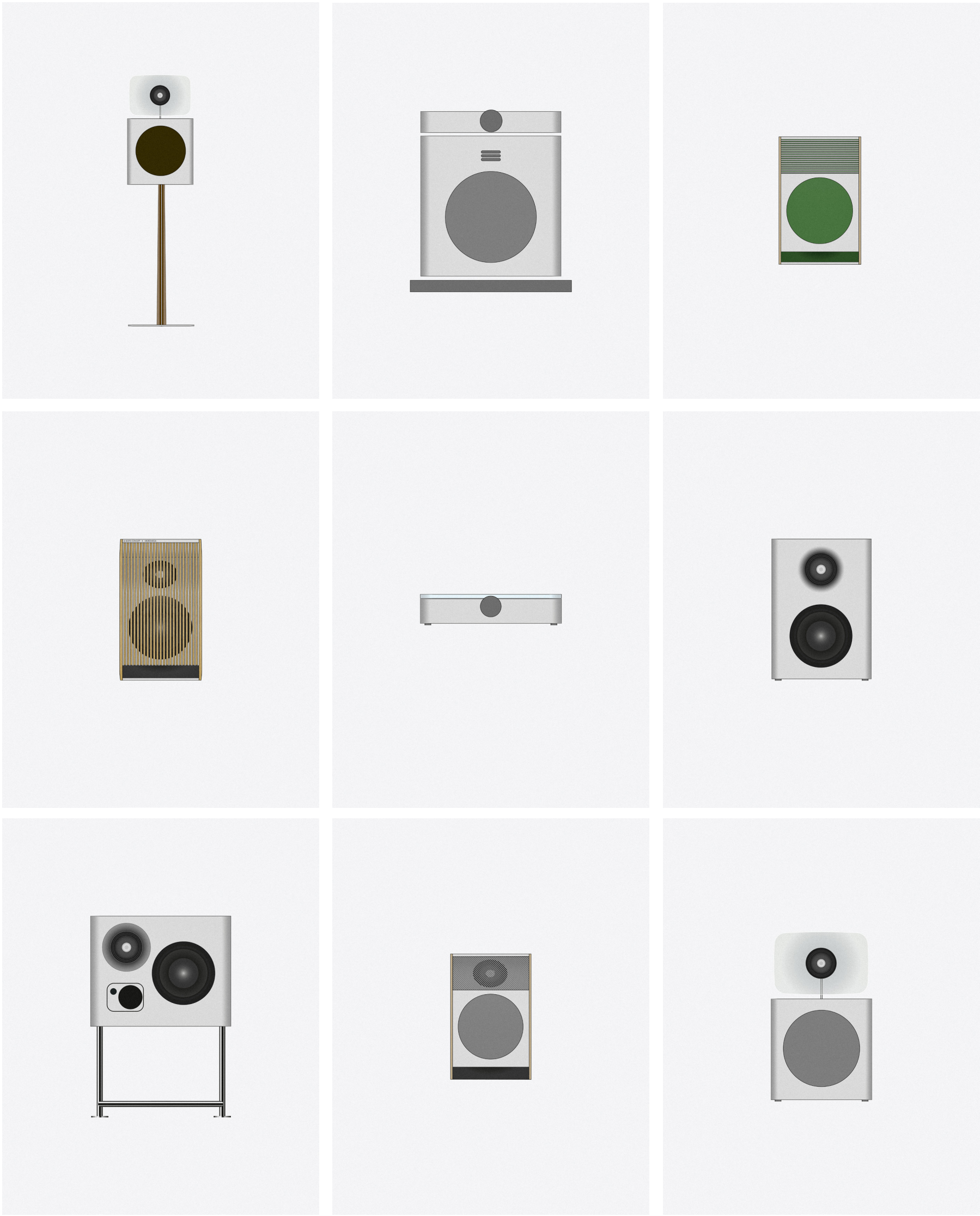
**How to design a speaker that revitalizes an established brand and brings it back into the spotlight ?**

TYPE OF PROJECT  
DURATION  
ROLE

APPRENTICESHIP  
2 YEAR  
LEAD DESIGNER

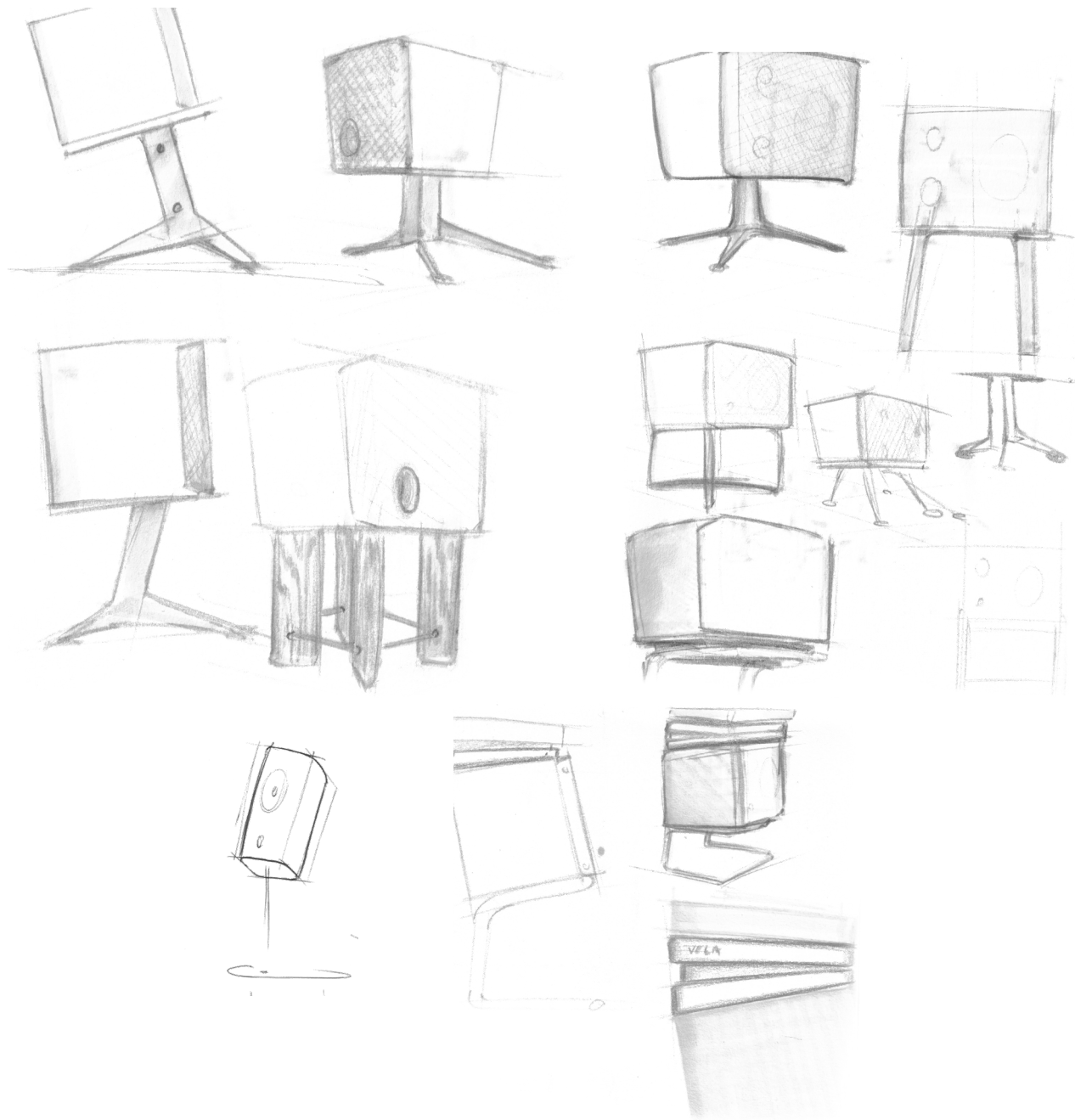






# IDEATIONS

I decided to carry out a large part of my research through 2D drawings. This allowed me to move forward quickly and gain a strong understanding of the speaker’s graphic dimensions.





Selected for its industrial coherence and potential success as a medium-high internal volume speaker.

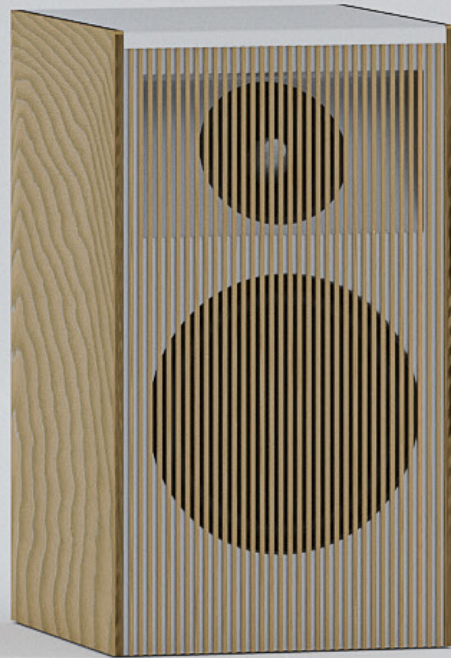
# CONCEPT 01

Cube concept with same tooling of the amplifier  
350×350×350 mm



# CONCEPT 02

Bookshelf concept with horn tweeter and angled panels for high frequencies.  
200×350 mm



# CONCEPT 03

Design integrates a transparent horn tweeter.  
200×350 mm



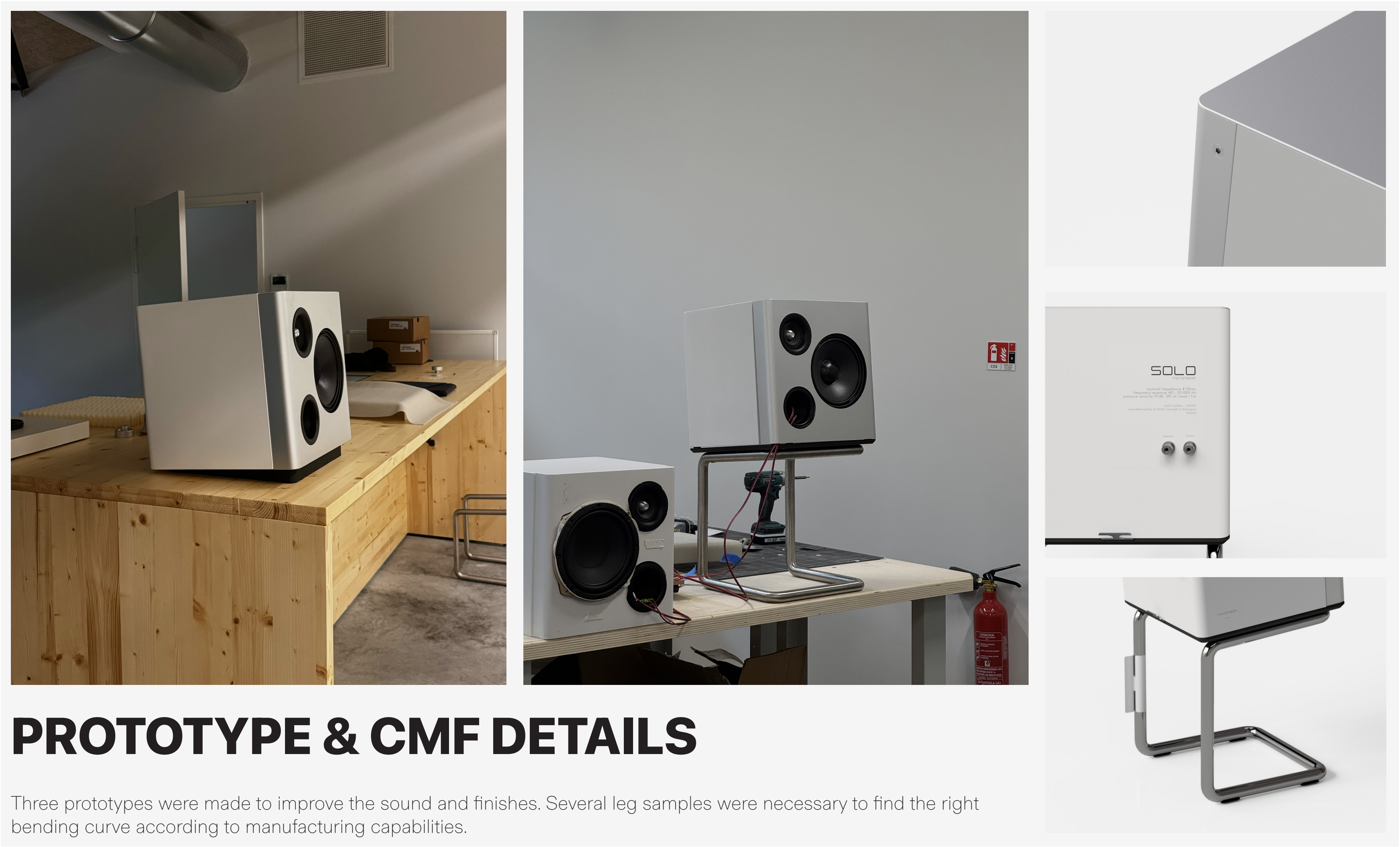




## VOLUME AND ORIENTATION TEST

To respect manufacturing limitations, I used a hybrid prototyping approach. Virtual Reality and physical cardboard models allowed me to visualize and adjust technical details, such as the tube's minimum bend radius, before starting prototype fabrication.





# PROTOTYPE & CMF DETAILS

Three prototypes were made to improve the sound and finishes. Several leg samples were necessary to find the right bending curve according to manufacturing capabilities.



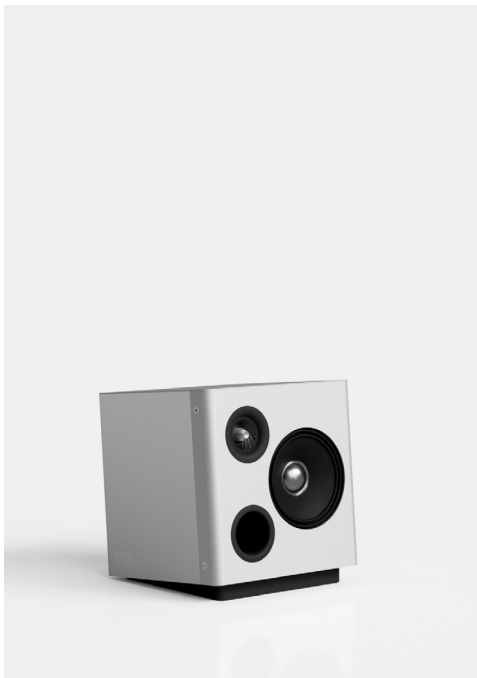
# STACK TO STORE

La Boite Concept's DNA focuses on creating fully integrated speakers to eliminate the need for extra storage and enhance the clarity of the audio product. By integrating the amplifier and turntable directly into the speaker, we provide a complete solution that removes the need for additional furniture.

These four versions demonstrate the various configuration possibilities. Please note that while only one speaker is shown, they are designed to be used as a pair



Amplifier stack  
Aluminum grille



Low speaker plinth  
Aluminum grille



Spring suspension turntable  
Fabric speaker grille



Foam suspension turntable  
with VEJA Aluminum grille









**LET'S WORK TOGETHER !**

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