



INDUSTRIAL DESIGN PORTFOLIO

Merve Tunaboylu

ABOUT ME



Hello, I am Merve Tunaboğlu

I am an industrial product design graduate from Istanbul Technical University (ITU) with a background in health sector, passionate about creating bio-inspired organic forms and enjoy experimenting with AI rendering tools, reflecting my experimental approach to design seeking an opportunity to apply and further develop my skills in a professional environment.

EDUCATION

►2021-2025 - ITU Industrial Design I GPA: 3.4

EXPERIENCE

- 2023 - Certificate in 3D Printer Operation I ISTESOB - Istanbul Union of Tradesmen and Craftsmen
- 2024 - 'Değişik' Design Competition I Participant
- 2024-2025 - TÜBİTAK 2209-B - Industry Oriented Research Project for University Students & Collaboration with VESTEL I Ongoing Research
- 2025-2026 - İTÜ BAP - LÖKAP - A (Undergraduate Student Participation Research Project) - Service Design for Electric Vehicle Charging Stations: A Study on Improving User Experience During the Charging Process I Ongoing Research

SOFTWARE SKILLS



LANGUAGE

Turkish - Native

English - C1 I YÖKDİL: 97.5/100

CONTACT

Merve Tunaboğlu

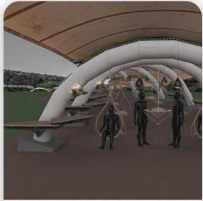
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✉ mrvtnb@gmail.com

🌐 in/mervetunaboğlu

📍 İstanbul - Turkey

CONTENT



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Slow Tunnel

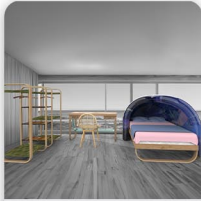
*Urban Furniture
for Park Kağıthane*



02

Carbonio

*Electric Toothbrush
for Alfa Romeo*



03

Call of the Sea

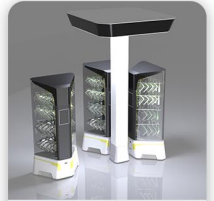
*Teenage Room
Furniture*



04

CozyCone

Cat Bed



05

Biotré

*Autonomous
Delivery Robot
for Airport*

01 Slow Tunnel

Urban Furniture

Slow Tunnel project is an intervention for the exhibition area in Kağıthane Hasbahçe Park through urban furnitures, integrating the principles of the Degrowth Economy and Slow Food Movement. Inspired by the organic growth patterns of oyster mushrooms, it features suspended sales kiosks, seating units, and lighting fixtures made from rattan and seaweed, creating a space for local producers to sell their handmade goods. Rooted in Deep Ecology, the project fosters a mindset shift toward ecological awareness, community engagement, and a more balanced human-nature relationship.

Senior Year - Individual Project

Duration: 5 weeks

Programs



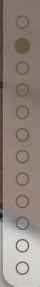
Rhinoceros



KeyShot



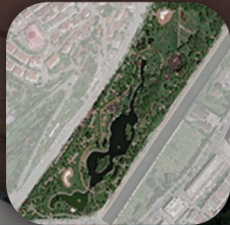
SLOW TUNNEL



DESIGN SITE

KAĞITHANE HASBAHÇE RECREATION PARK

As part of the project Degrowth Design for a Sustainable Future, the goal is to develop designs that repurpose this area for well-being and sustainability, contributing to the degrowth economy.

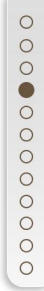


This area is designated for the hosting of markets and exhibitions, offering a platform for local vendors and artists to display their products. The space is designed to accommodate a range of events, creating an environment conducive to cultural and exchange.



Hasbahçe
Exhibition Area

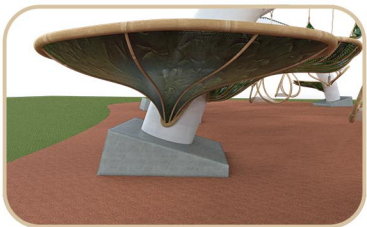
INSPIRATION



IDEATION



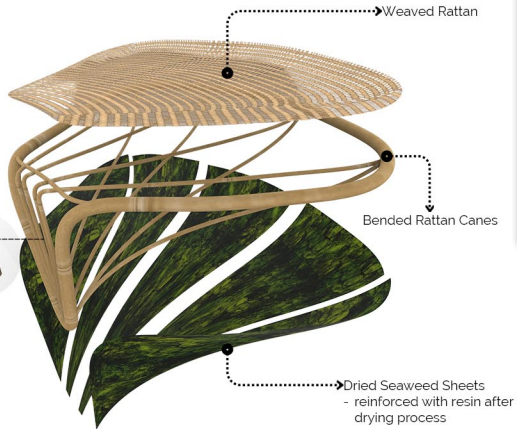
SALES KIOSK



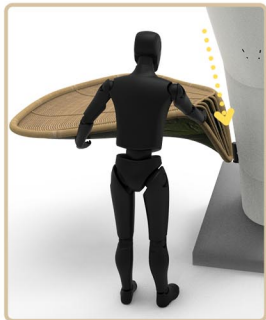
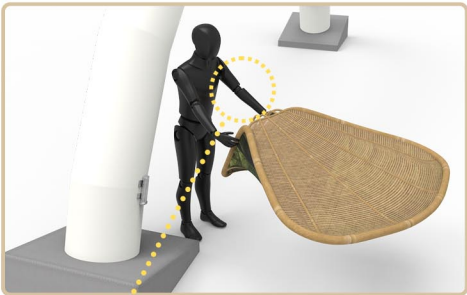
78 cm from the ground



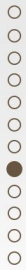
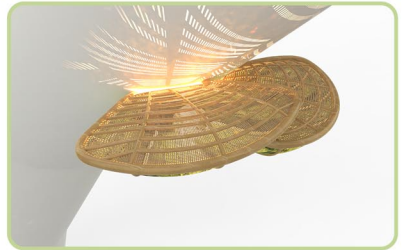
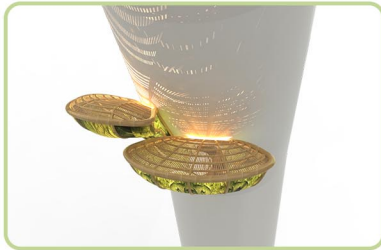
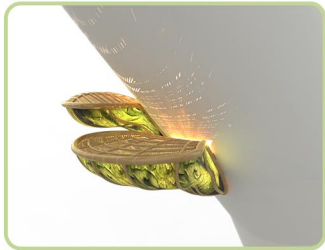
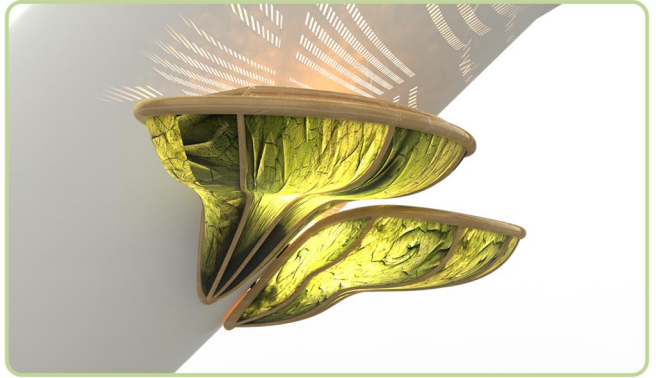
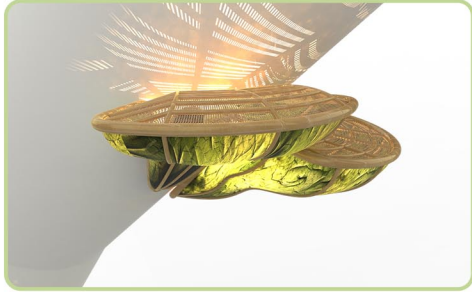
Aluminum 3/4 circular profile as the socket



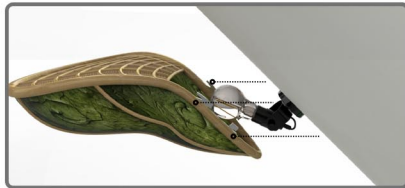
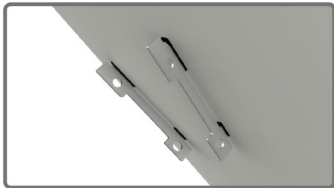
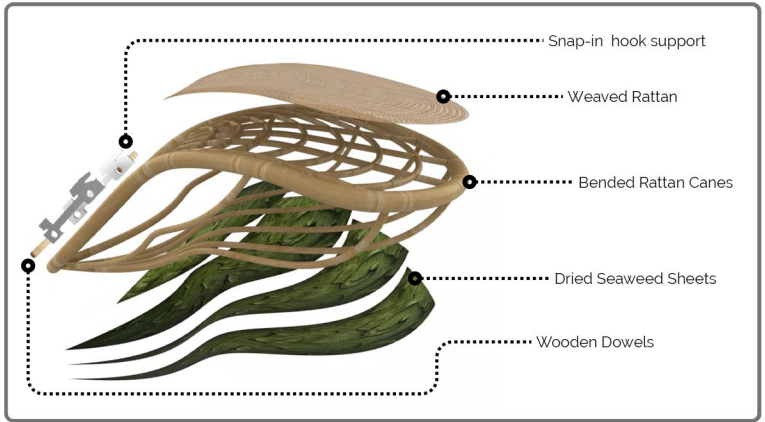
INSTALLATION



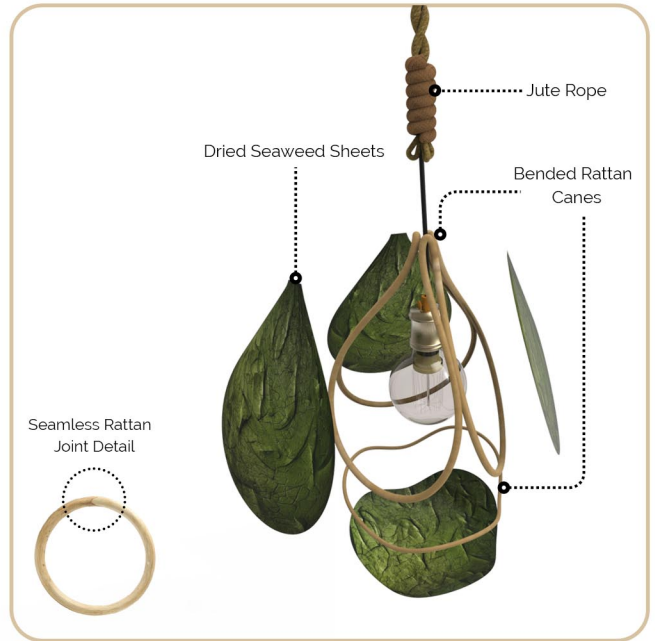
FUNGI LAMPSHADE



DETAILS



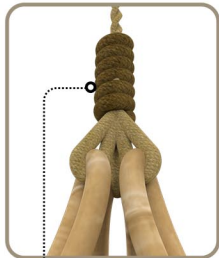
PENDANT LIGHTING



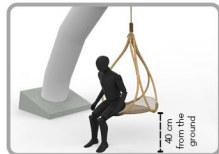
HANGING SEAT



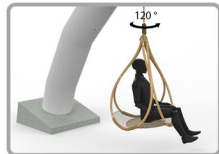
Iron Rope Anchor



Jute rope

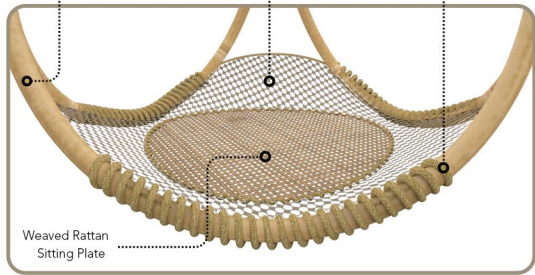


3 angle sitting options



Rattan Cane

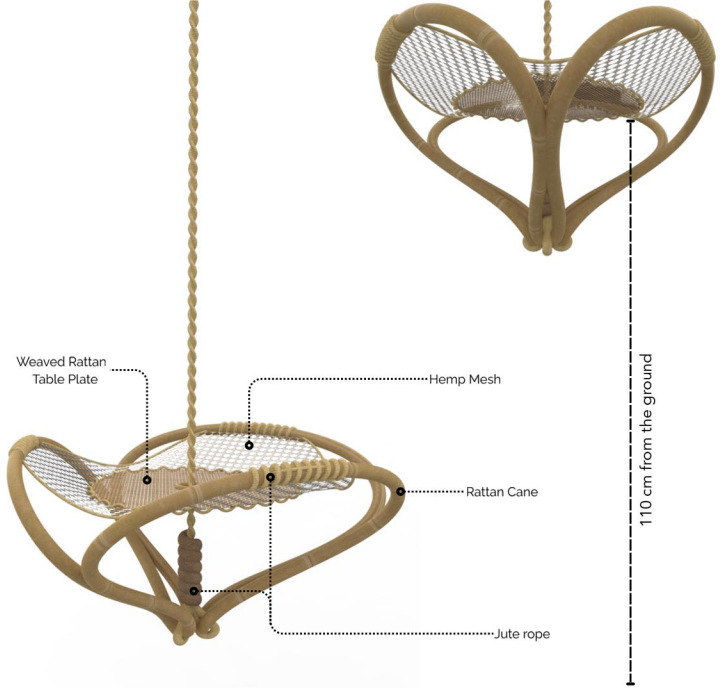
Hemp Mesh



Weaved Rattan Sitting Plate



HANGING COCKTAIL TABLE



02 Carbonio by Alfa Romeo

Electric Toothbrush

A re-design project exploring how an automobile brand's identity can be translated into a domestic electrical appliance, focusing on deconstructing an existing product, analyzing user interactions and needs, and redesign of form, material, and interface to reflect the brand's visual and emotional language.

Carbonio is an electric toothbrush designed for **Alfa Romeo**, embodying the Italian brand's characteristics of passion, precision, and performance-driven design decisions. The design emphasizes tactile engagement, dynamic form and high performance material composition translating Alfa Romeo's brand identity into an everyday user experience.

2nd Year - Individual Project

Duration: 6 weeks

Programs



USAGE



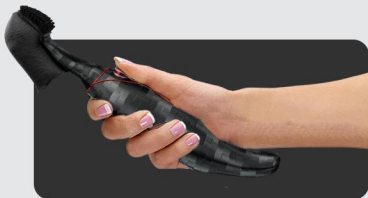
Place the brush head on the track.



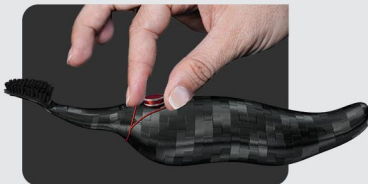
Insert your index finger into the hood and place tip of your finger on the cavity.



Can be use with/without the waterproof neoprene hood.



Press the button to turn the brush on.



Twist the knob to increase the vibration frequency.



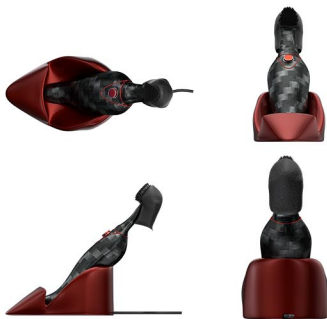
After use, you can store the charging cable in the special area under the charger base.



IDEATION



ORTHOGRAPHIC & EXPLODED VIEWS

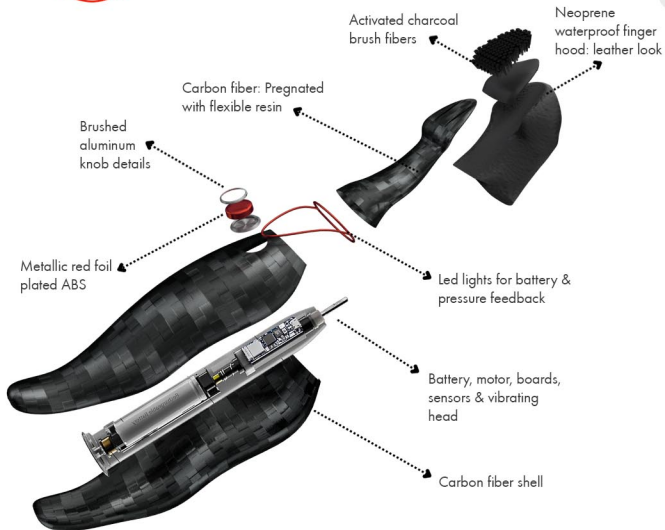


Compartment for charging coil



Compartment for cable management

USB charging cable



03 Call of the Sea

Teenage Room Furniture Set

Call of the Sea is a teenage room furniture set that captures the essence of the ocean through natural materials and marine-inspired details and a commitment to sustainability. Featuring an epoxy seashell table, an aquarium-inspired bedhead, and bamboo shelving, the design integrates driftwood elements to enhance its organic character. This set creates a serene and immersive coastal atmosphere, bringing the rhythm of the sea into everyday life.

3rd Year - Individual Project

Duration: 5 weeks

Programs



Rhinoceros



KeyShot

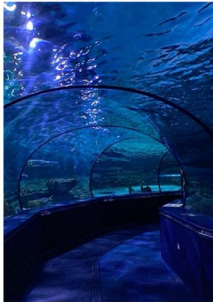




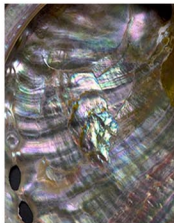
CALL OFF THE SEA



MOODBOARD



SUSTAINABLE
ORGANIC
FLUID
LUMINESCENT
TRANSPARENT



CONCEPT DEVELOPMENT



MARINA PEARL

SWIMMER

AGE 17

GENDER FEMALE

LOCATION A coastal town, close to the beach and surrounded by ocean views.

PROFILE Marina dreams of becoming a marine biologist, travel the world to explore and protect ocean eco-systems, and document her adventures



Driftwood hangers



Seashells in epoxy resin

Shell Collecting: Marina has a growing collection of unique shells and other marine artifacts that she has collected. She often uses them for decorating her room.



Bamboo cane shelves

Diving Enthusiast: She is certified in scuba diving and loves to explore underwater ecosystems. She is passionate about discovering marine life and underwater ecosystems.



Aquarium Bedhead

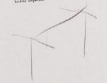
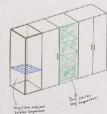
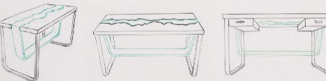
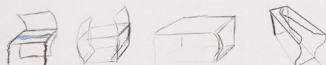
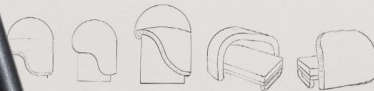
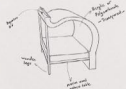
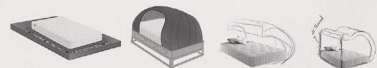
Nature Lover: Marina values sustainability and enjoys using natural materials and unique pieces that reflect her love for the nature and ocean.



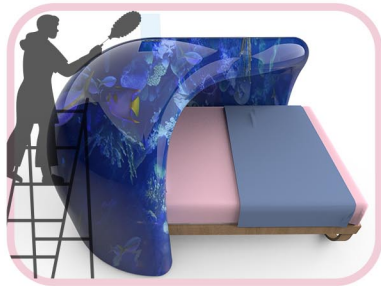
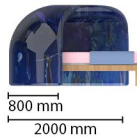
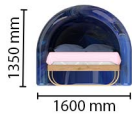
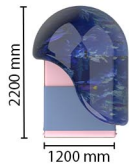
Driftwood drawer pullers



IDEATION

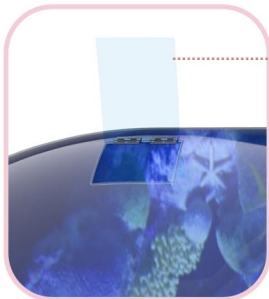


AQUARIUM BED

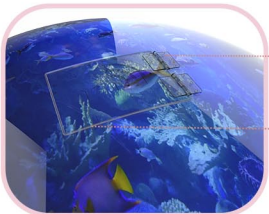


PRODUCTION & DETAILS

Bed



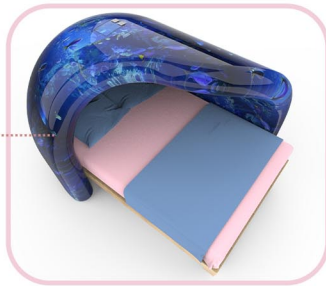
Aquarium lid



Acrylic
(Plexiglass)
hinge

Clear rubber
sealant

Vacuum
thermoformed
from sheet
Polycarbonate
aquarium



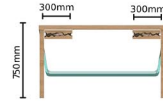
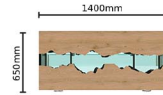
Massive oak
bed frame
CNC machined



Steambent plywood



EPOXY RESIN WOOD DESK

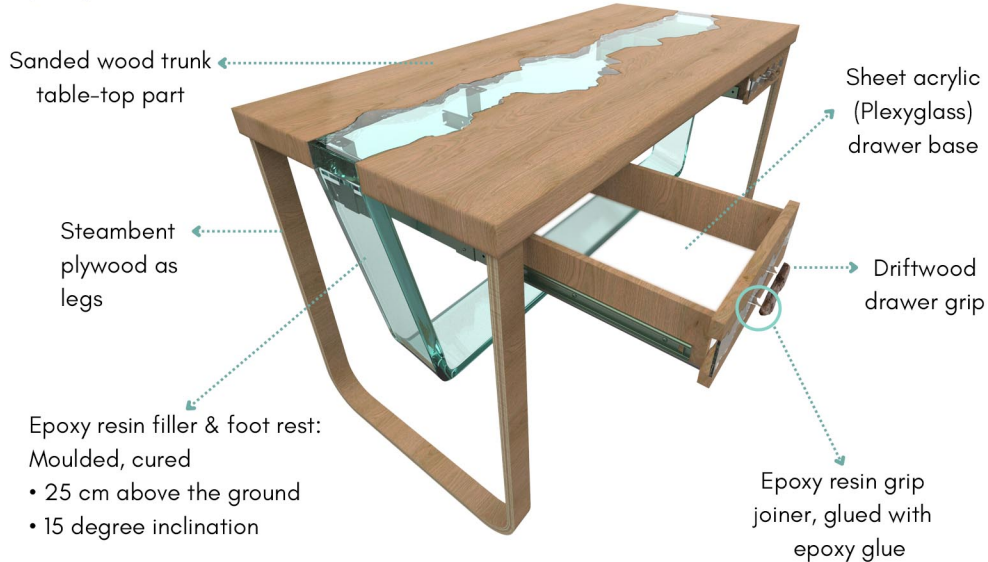


EPOXY RESIN WOOD DESK

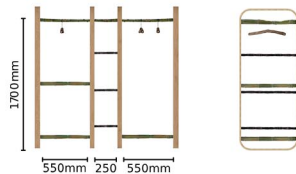


PRODUCTION & DETAILS

Epoxy Resin Wood Desk



BAMBOO OPEN CLOSET



PRODUCTION & DETAILS

Bamboo Open Closet



Driftwood hangers



Bamboo cane holders & shelves



Steambent plywood as the structure



04 CozyCone

Cat Bed

The project explores the reinterpretation of traditional quilting through a contemporary design lens by extending the an interviewed artisan's practice into a new product category considering material storytelling and cultural continuity.

Cozy Cone Quilted Cat Bed combines traditional handcrafted quilting techniques with a contemporary design approach. With it's conical form, it offers a sense of enclosure, while the layered quilt panels translate tactile quality of the wool resulting fitting into today's interiors.

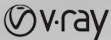
2nd Year - Individual Project

Duration: 1 week

Programs



Rhinoceros®
3D Modeling for Everyone



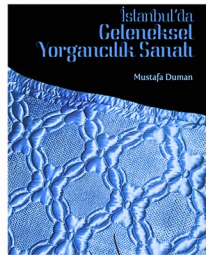


MOODBOARD

Silk & satin
quilt top

Wool
carding

Bar
stitch
edge



Motifs



KEY FEATURES

Cone Shape:

The cone morphology provides a sense of security that cats often seek in their resting spots.

Temperature Regulation:

The wool quilt construction ensures thermal comfort, providing a cozy environment for the feline occupant.

Structural Reinforcement:

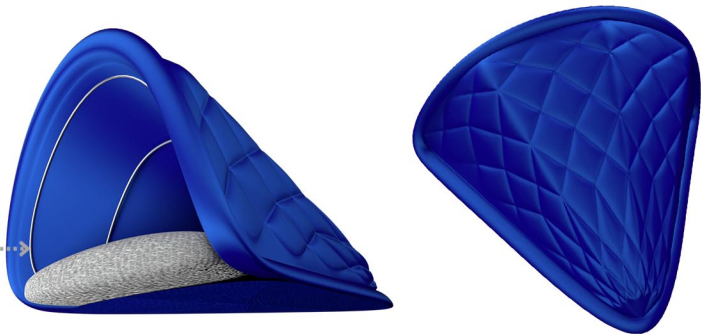
The integration of metal wires ensures structural stability and support, preserving the intended form of the cat bed over time.

Maintenance:

The bed is coupled with a removable cover, simplifies cleaning, ensuring a hygienic living space.

Contemporary Design:

A reinterpretation of quilting craftsmanship, the CozyCone cat bed blends tradition with modern aesthetics.



05 Biotré Delivery Automate

Autonomous Delivery Robot for Airport

Biotré is an ecofriendly, innovative, travel-friendly, natural-based cosmetic brand offering ready-to-go travel kits in airports. Biotré's target customer is people who travel by plane. Biotré is aware of the liquid limitations and offer products as sustainable as possible including packaging while maintaining the airline limitations and requirements. Biotré allows customers to choose from different kits from the brand's autonomous delivery robot.

Team With

Emir Salih Yüksel

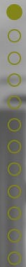
Selin Tantunç

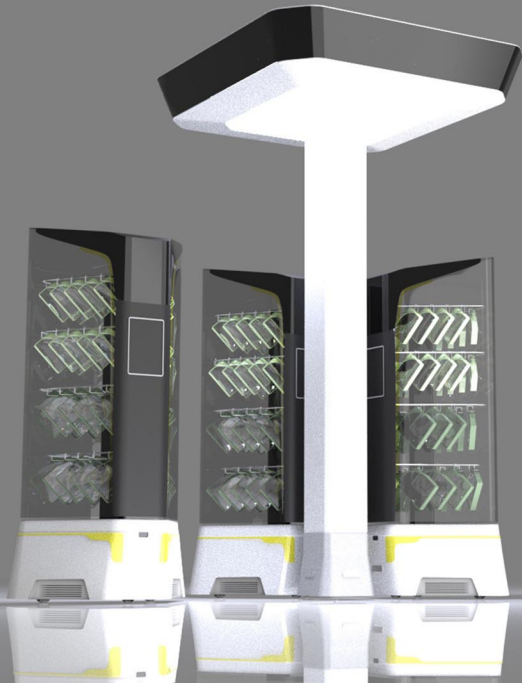
Duration: 5 weeks

Programs



Rhinceros





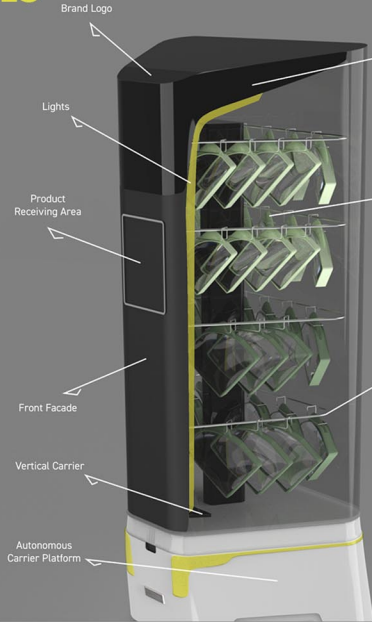
 *Biotré*



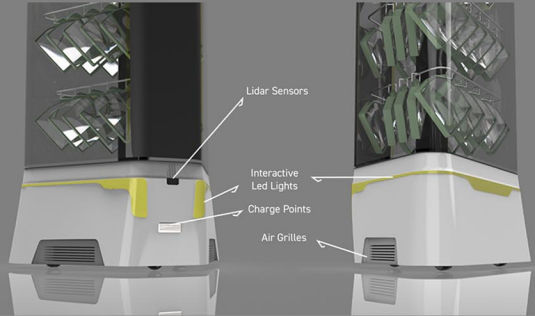
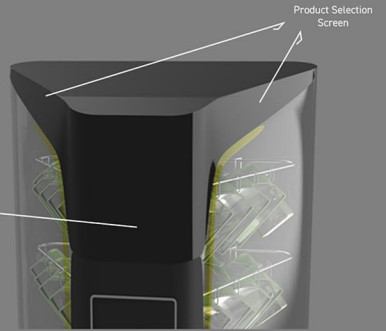
é Biotré Bio



DETAILS



Main Interface & Payment Screens

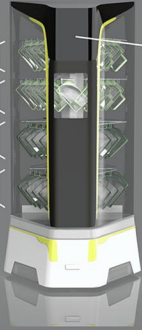


Mini Essentials

Maxi Essentials

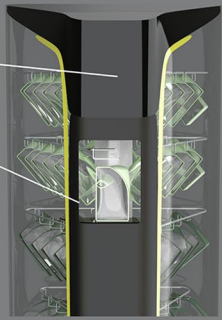
Mini Comfort

Maxi Comfort



Main Interface & Payment Screens

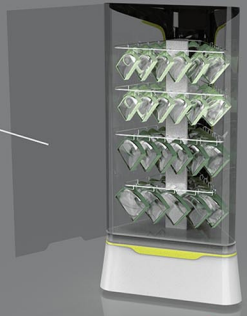
Product Receiving Area



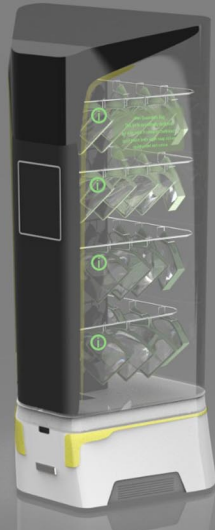
Billboard Surface
Advertising of the Biotre

Handle

Supply Door



Gives info about the products



TOLED Screen:
Display Area



User Interface



On Hold
icons flash to guide the user



Selection
The icon selected on the side is shown on the front screen with details

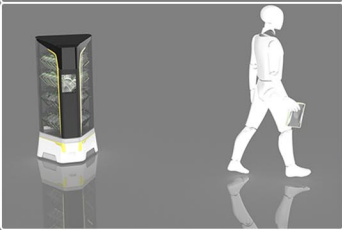
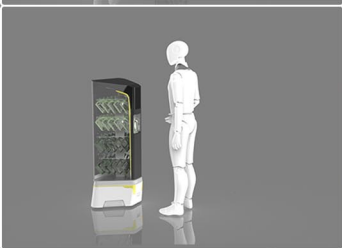


Payment
Customer can make the payment by QR

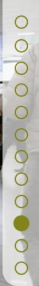


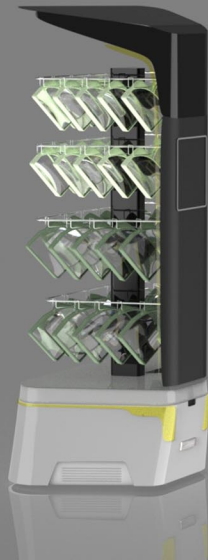
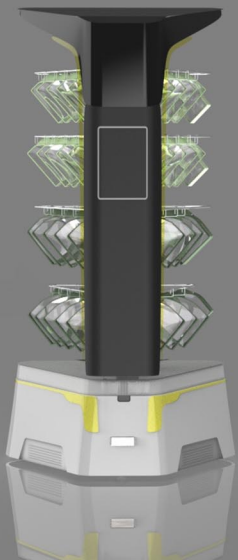
Feedback
The screen kindly thanks the customer and guide them to website for feedbacks





Interactions





THANK YOU FOR YOUR TIME

MERVE TUNABOYLU

+90 534 218 95 65

[in/mervetunaboylu](#)

mrvtmb@gmail.com