



INDUSTRIAL DESIGN PORTFOLIO

Merve Tunaboylu

ABOUT ME



Hello, I am **Merve Tunaboylu**

I am a 4rd year Industrial Design student at Istanbul Technical University - ITU with background in health sector, passionate about creating bio-inspired organic forms; looking for an opportunity to develop my skills in a professional environment.

EDUCATION

2021-2025 - ITU Industrial Design | GPA: 3.4

EXPERIENCE

2023 - Certificate in 3D Printer Operation | ISTESOB - Istanbul Union of Tradesmen and Craftsmen

2024 - 'Değişik Design Competition' | Participant

2024-2025 - TUBITAK 2209-B - Üniversite Öğrencileri Sanayiye Yönelik Araştırma Projesi & Collaboration with VESTEL | Ongoing Research

SOFTWARE SKILLS



LANGUAGE

Turkish - Native

English - C1 | YÖKDİL: 97.5/100

CONTACT

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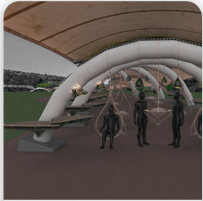
in/mervetunaboylu

mrvtnb@gmail.com

Istanbul - Turkey

Turkish, English

CONTENT



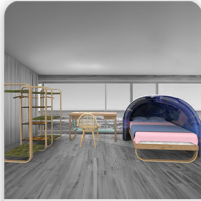
01

Slow Tunnel
*Urban Furniture
for Park Kağıthane*



02

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for Alfa Romeo*



03

Call of the Sea
*Teenage Room
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04

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Delivery Robot
for Airport*

01 Slow Tunnel

Urban Furniture

Slow Tunnel project is an intervention for the exhibition area in Kağıthane 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.

Individual Project

Duration: 5 weeks

Programs



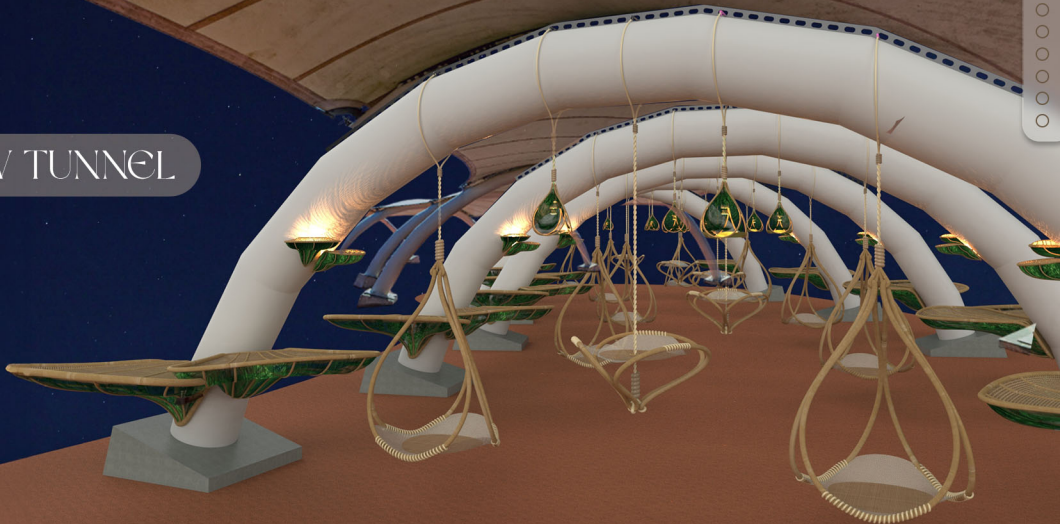
Rhinoceros



KeyShot



SLOW TUNNEL



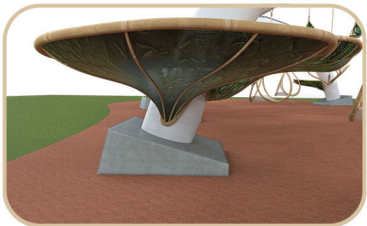
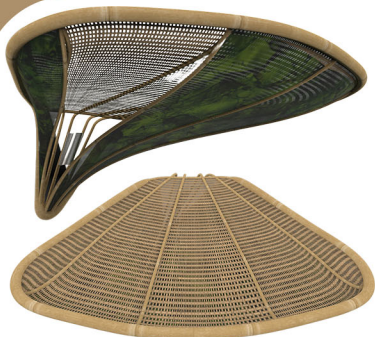
INSPIRATION



IDEATION



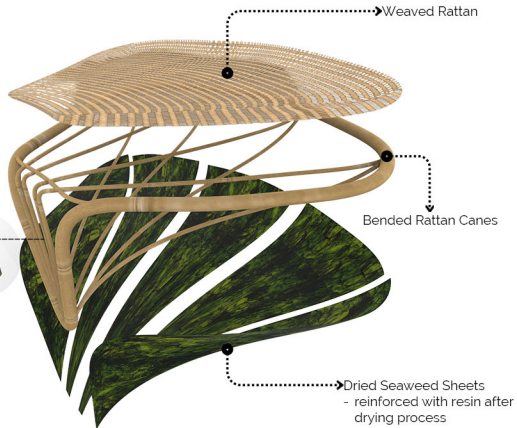
SALES KIOSK



78 cm from the ground



Aluminum 3/4 circular profile as the socket



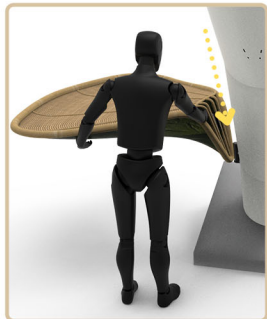
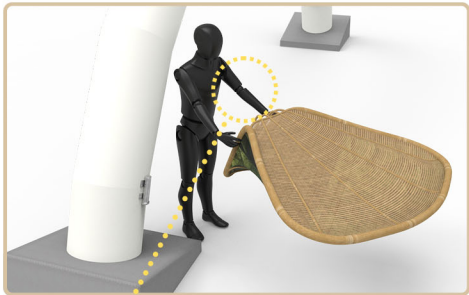
Weaved Rattan

Bended Rattan Canes

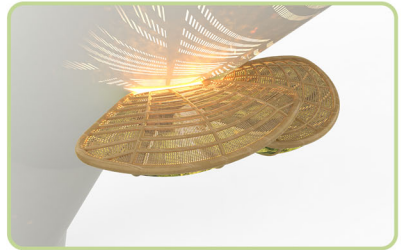
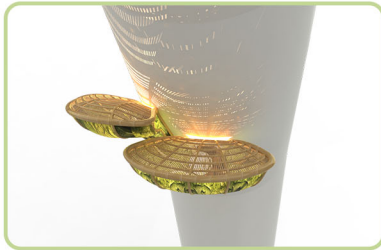
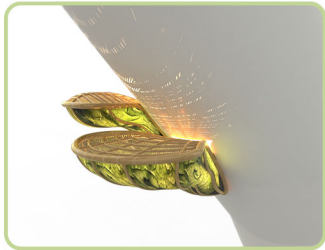
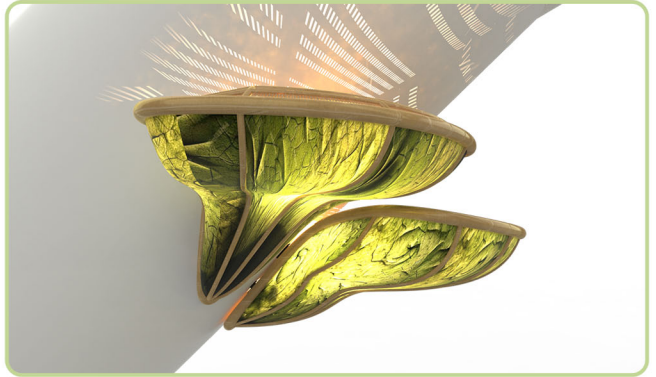
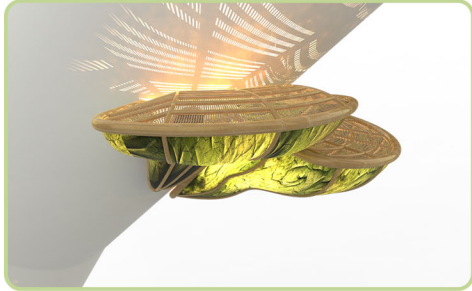
Dried Seaweed Sheets
- reinforced with resin after drying process



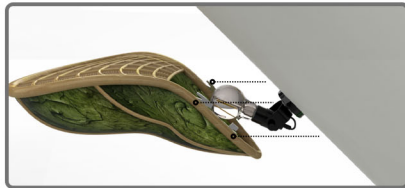
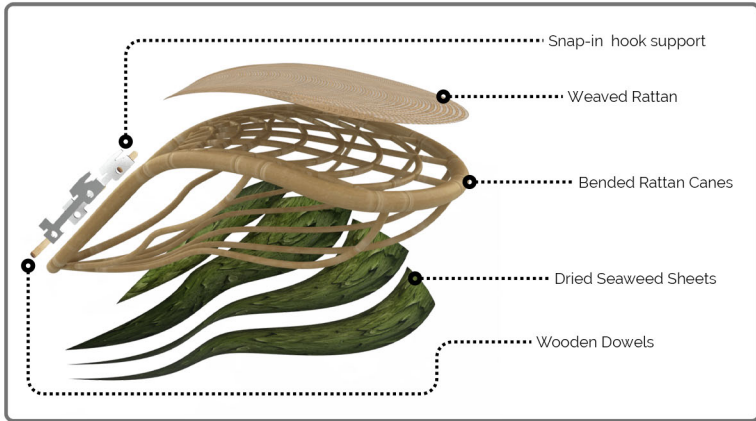
INSTALLATION



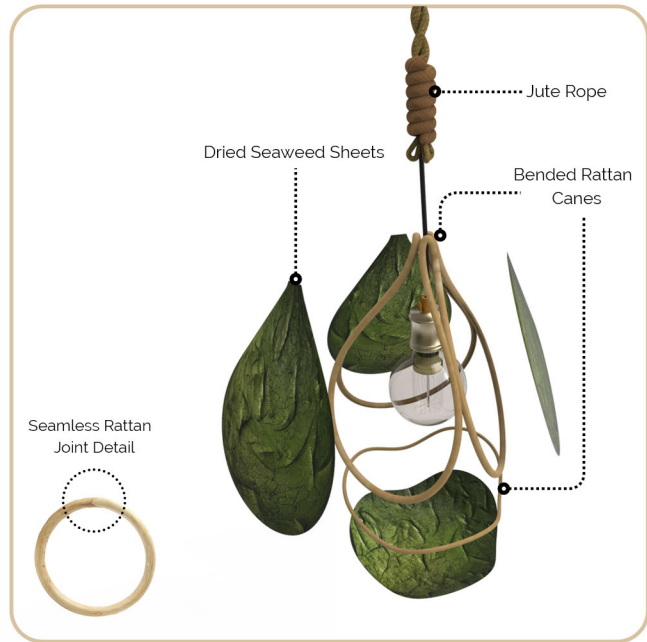
FUNGI LAMPSHADE



DETAILS



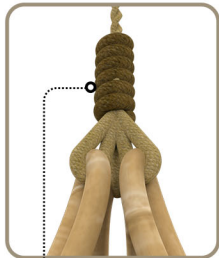
PENDANT LIGHTING



HANGING SEAT



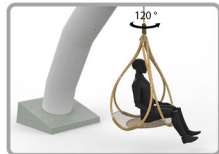
Iron Rope Anchor



Jute rope

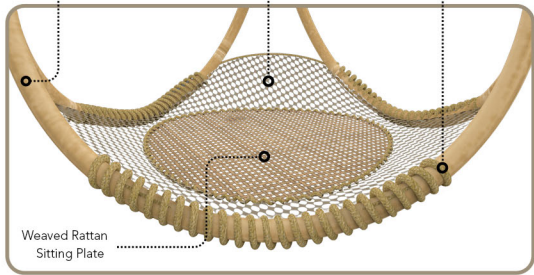


3 angle sitting options



Rattan Cane

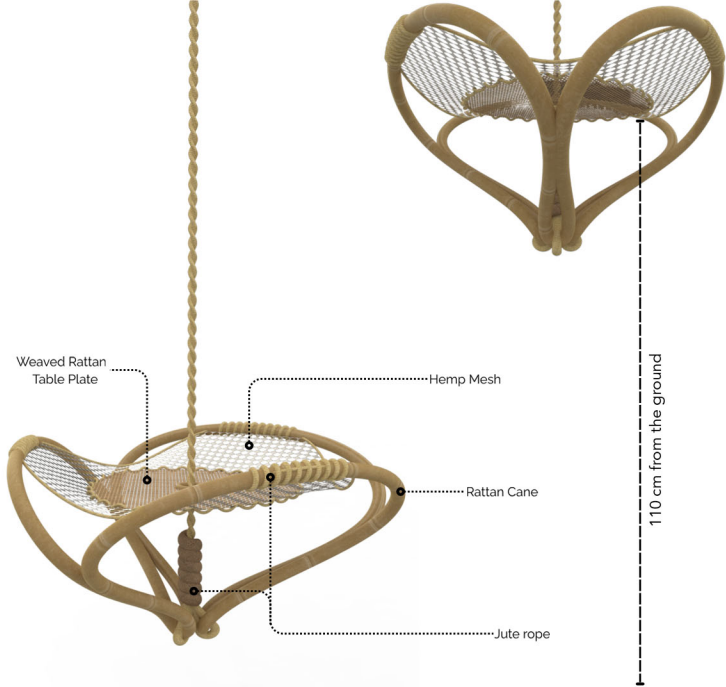
Hemp Mesh



Weaved Rattan Sitting Plate



HANGING COCKTAIL TABLE



02 Carbonio by Alfa Romeo

Electric Toothbrush

Redesigning Domestic Electrical Appliances for a Certain Automobile Brand

Carbonio is an electric toothbrush designed for Alfa-Romeo Automobile Brand.

Individual Project

Duration: 6 weeks

Programs



USAGE



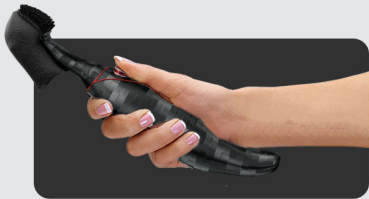
Place the brush head on the track.



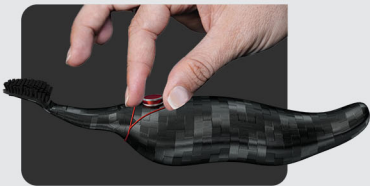
Insert your index finger into the hood and place tip of your finger on the cavity.



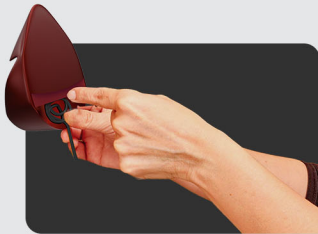
Can be use with/without the waterproof neoprene hood.



Press the button to turn the brush on.



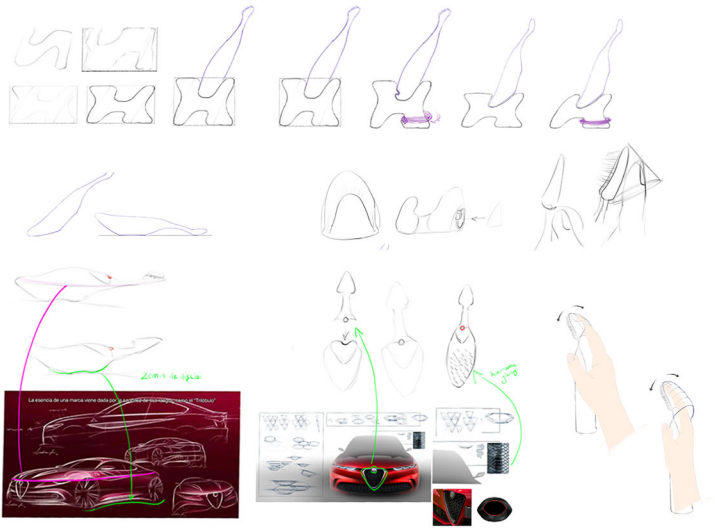
Twist the knob to increase the vibration frequency.



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



IDEATION



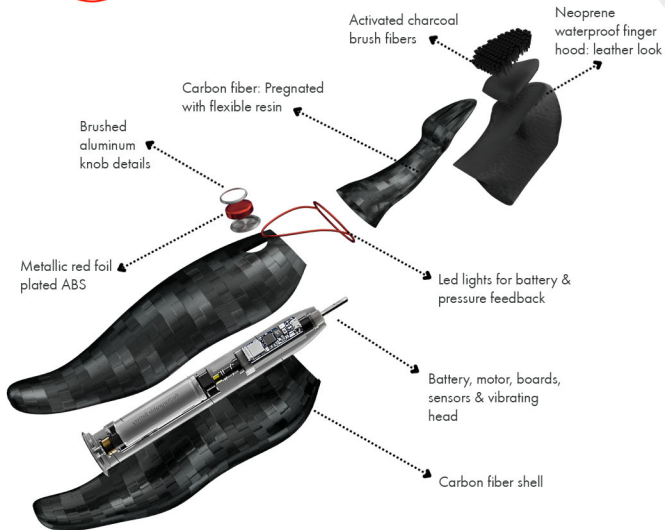
ORTHOGRAPHIC & EXPLODED VIEWS



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.

Individual Project

Duration: 5 weeks

Programs



Rhino



KeyShot

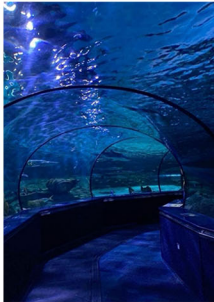




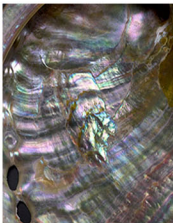
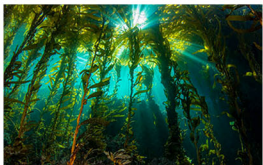
CALL OFF THE SEA



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

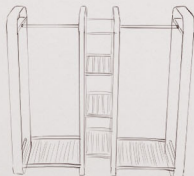
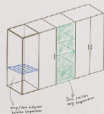
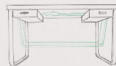
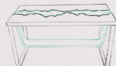
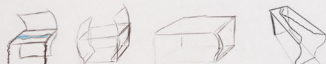
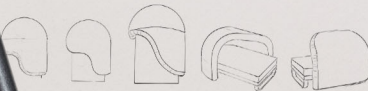
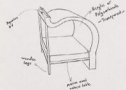
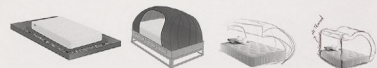
Nature Lover: Marina values sustainability and enjoys using natural materials and unique pieces that reflect her love for the nature and ocean.



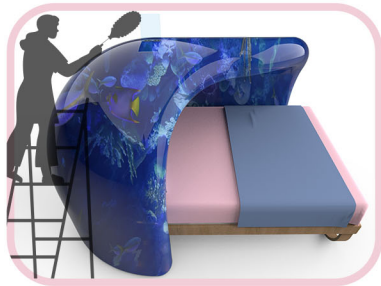
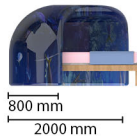
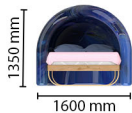
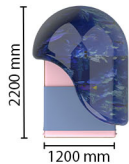
Driftwood drawer pullers



IDEATION

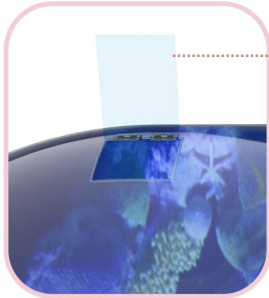


AQUARIUM BED

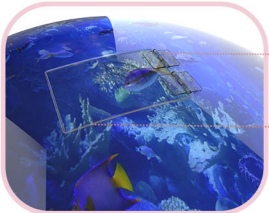


PRODUCTION & DETAILS

Bed



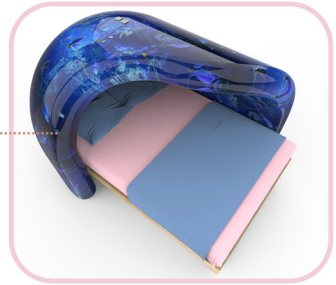
Aquarium lid



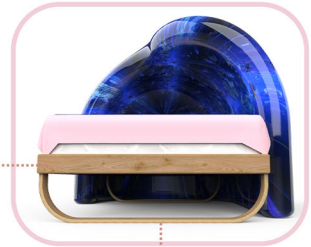
Acrylic
(Plexiglass)
hinge

Clear rubber
sealant

Vacuum
thermoformed
from sheet
Polycarbonate
aquarium



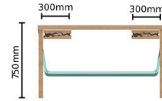
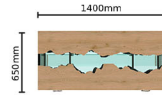
Massive oak
bed frame
CNC machined



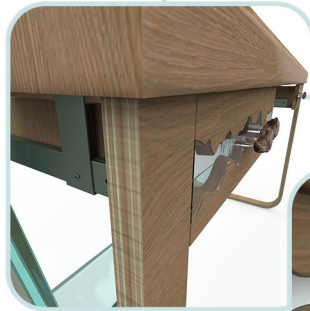
Steambent plywood



EPOXY RESIN WOOD DESK

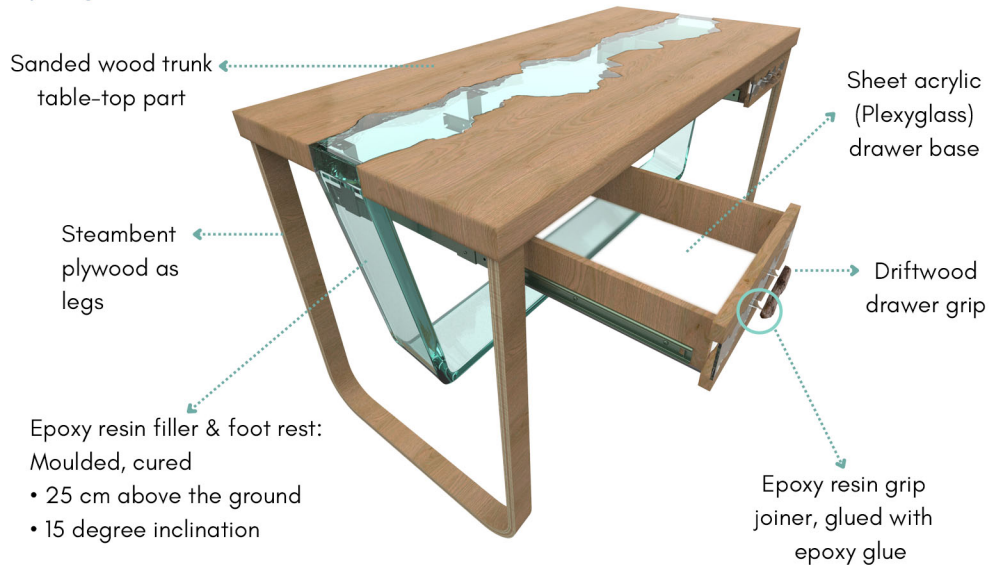


EPOXY RESIN WOOD DESK

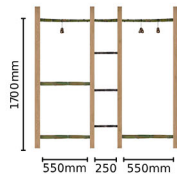
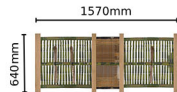


PRODUCTION & DETAILS

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

Cozy Cone Quilted Cat Bed is a contemporarily conceived feline accessory that harmoniously amalgamates traditional quilting craftsmanship with modern design sensibilities.

Brief

Design a product that expands the existing product line of the interviewed artisan (quilting) into a previously unexplored area.

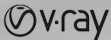
Individual Project

Duration: 1 week

Programs



Rhino
3D Modeling for All



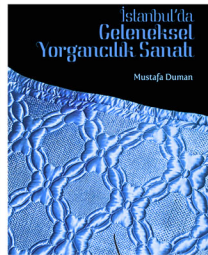


MOODBOARD

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:

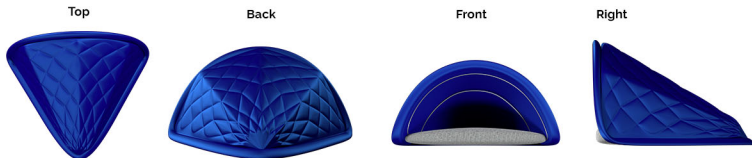
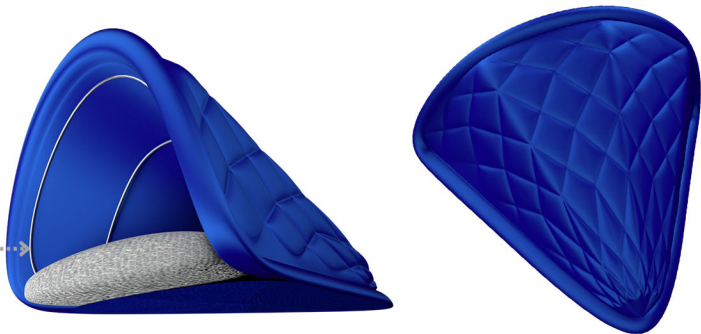
The integration of metal wires ensures structural stability and support, preserving the intended form of the cat bed over time.

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 requirements. Biotré allow customers choose from different kits from its autonomous delivery robot.

Team With

Emir Salih Yüksel

Selin Tantunç

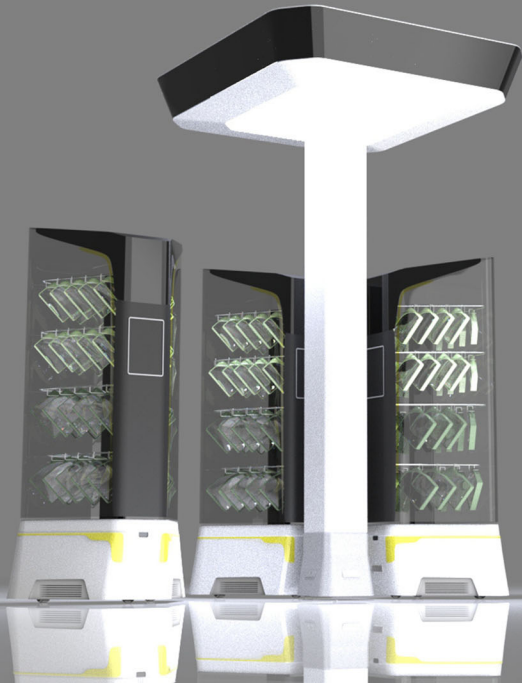
Duration: 5 weeks

Programs



Rhinoceros
3D rendering for all

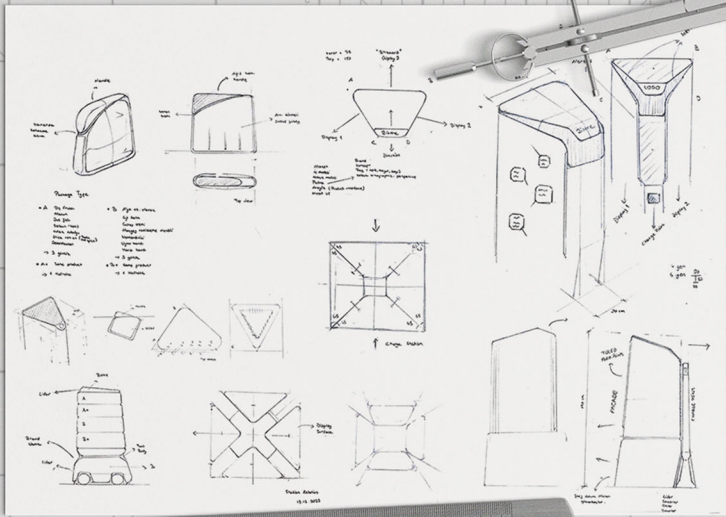




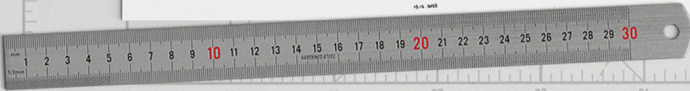
 *Biotré*



IDEATION

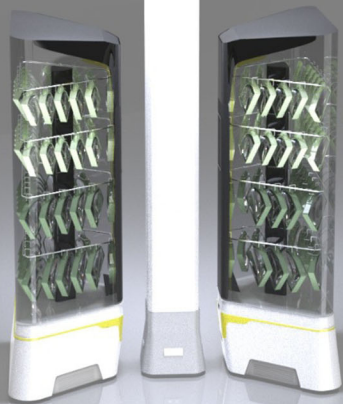


- Shape 1
- A top view
 - B side view
 - C front view
 - D back view
 - E top view
 - F side view
 - G front view
 - H back view
- Shape 2
- A top view
 - B side view
 - C front view
 - D back view
 - E top view
 - F side view
 - G front view
 - H back view
- Shape 3
- A top view
 - B side view
 - C front view
 - D back view
 - E top view
 - F side view
 - G front view
 - H back view
- Shape 4
- A top view
 - B side view
 - C front view
 - D back view
 - E top view
 - F side view
 - G front view
 - H back view
- Shape 5
- A top view
 - B side view
 - C front view
 - D back view
 - E top view
 - F side view
 - G front view
 - H back view
- Shape 6
- A top view
 - B side view
 - C front view
 - D back view
 - E top view
 - F side view
 - G front view
 - H back view
- Shape 7
- A top view
 - B side view
 - C front view
 - D back view
 - E top view
 - F side view
 - G front view
 - H back view
- Shape 8
- A top view
 - B side view
 - C front view
 - D back view
 - E top view
 - F side view
 - G front view
 - H back view
- Shape 9
- A top view
 - B side view
 - C front view
 - D back view
 - E top view
 - F side view
 - G front view
 - H back view
- Shape 10
- A top view
 - B side view
 - C front view
 - D back view
 - E top view
 - F side view
 - G front view
 - H back view
- Shape 11
- A top view
 - B side view
 - C front view
 - D back view
 - E top view
 - F side view
 - G front view
 - H back view
- Shape 12
- A top view
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 - C front view
 - D back view
 - E top view
 - F side view
 - G front view
 - H back view
- Shape 13
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 - C front view
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 - H back view
- Shape 14
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 - F side view
 - G front view
 - H back view
- Shape 15
- A top view
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 - C front view
 - D back view
 - E top view
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- Shape 16
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- Shape 17
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- Shape 18
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- Shape 19
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- Shape 20
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- Shape 21
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 - F side view
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- Shape 22
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- Shape 23
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- Shape 24
- A top view
 - B side view
 - C front view
 - D back view
 - E top view
 - F side view
 - G front view
 - H back view
- Shape 25
- A top view
 - B side view
 - C front view
 - D back view
 - E top view
 - F side view
 - G front view
 - H back view
- Shape 26
- A top view
 - B side view
 - C front view
 - D back view
 - E top view
 - F side view
 - G front view
 - H back view
- Shape 27
- A top view
 - B side view
 - C front view
 - D back view
 - E top view
 - F side view
 - G front view
 - H back view
- Shape 28
- A top view
 - B side view
 - C front view
 - D back view
 - E top view
 - F side view
 - G front view
 - H back view
- Shape 29
- A top view
 - B side view
 - C front view
 - D back view
 - E top view
 - F side view
 - G front view
 - H back view
- Shape 30
- A top view
 - B side view
 - C front view
 - D back view
 - E top view
 - F side view
 - G front view
 - H back view



CENTIMETERS

é Biotré Bio

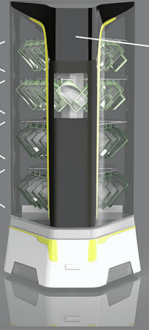


Mini Essentials

Maxi Essentials

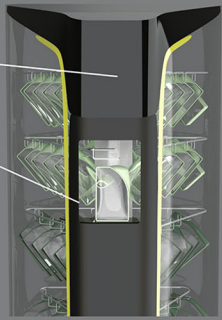
Mini Comfort

Maxi Comfort



Main Interface & Payment Screens

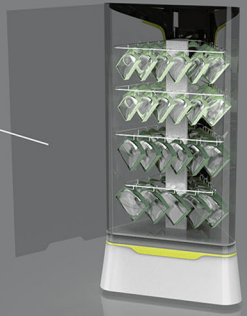
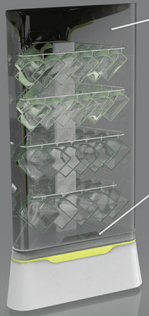
Product Receiving Area



Billboard Surface
Advertising of the Biotre

Supply Door

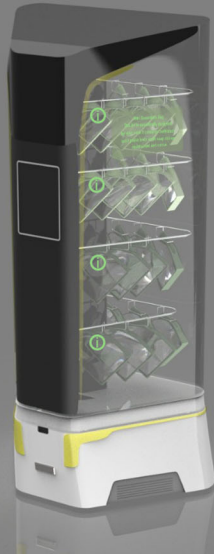
Handle



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

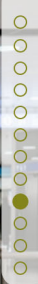
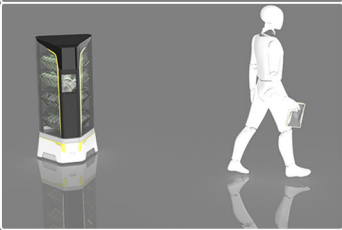


Payment
Customer can make the payment by QR

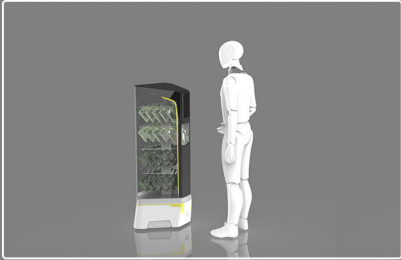
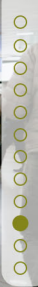


Feedback
The screen kindly thanks the customer and guide them to website for feedbacks





Interactions

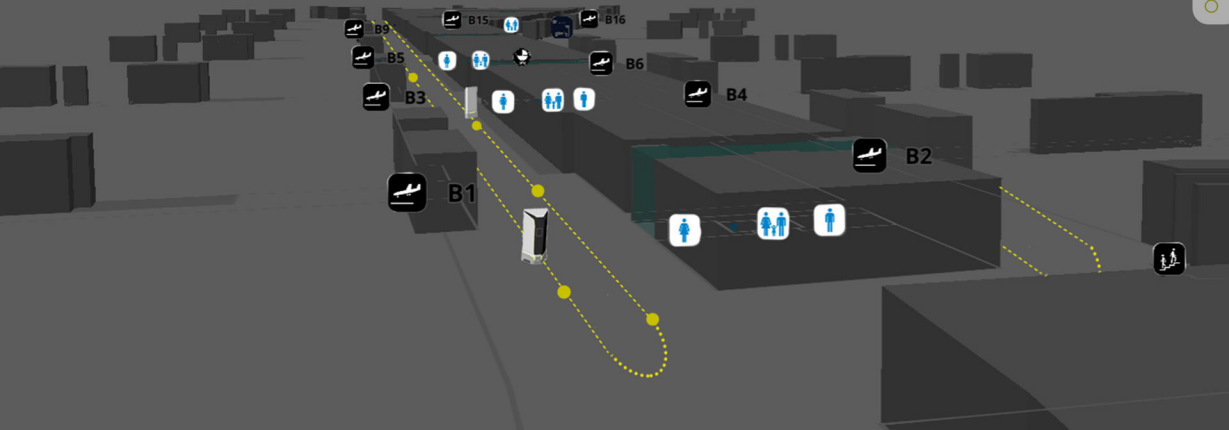


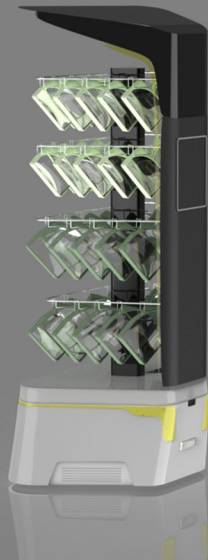
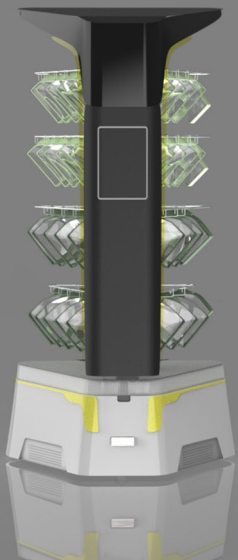
ROUTE

The second robot starts its tour when the first robot starts its motion from the second stop

Distance between stopping points 100m

Duration of the stop 5 minute





THANK YOU FOR YOUR TIME

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