

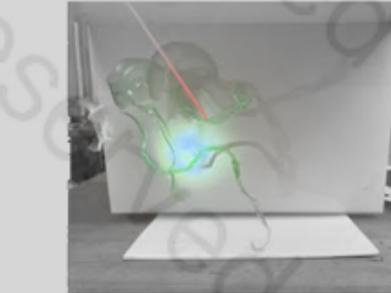
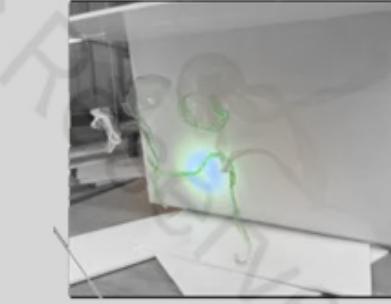
06

CIRCLE OF LIGHT- A NEW VERSION OF NYC AQUARIUM

Interactive Installation Design
Personal Project 2023.3

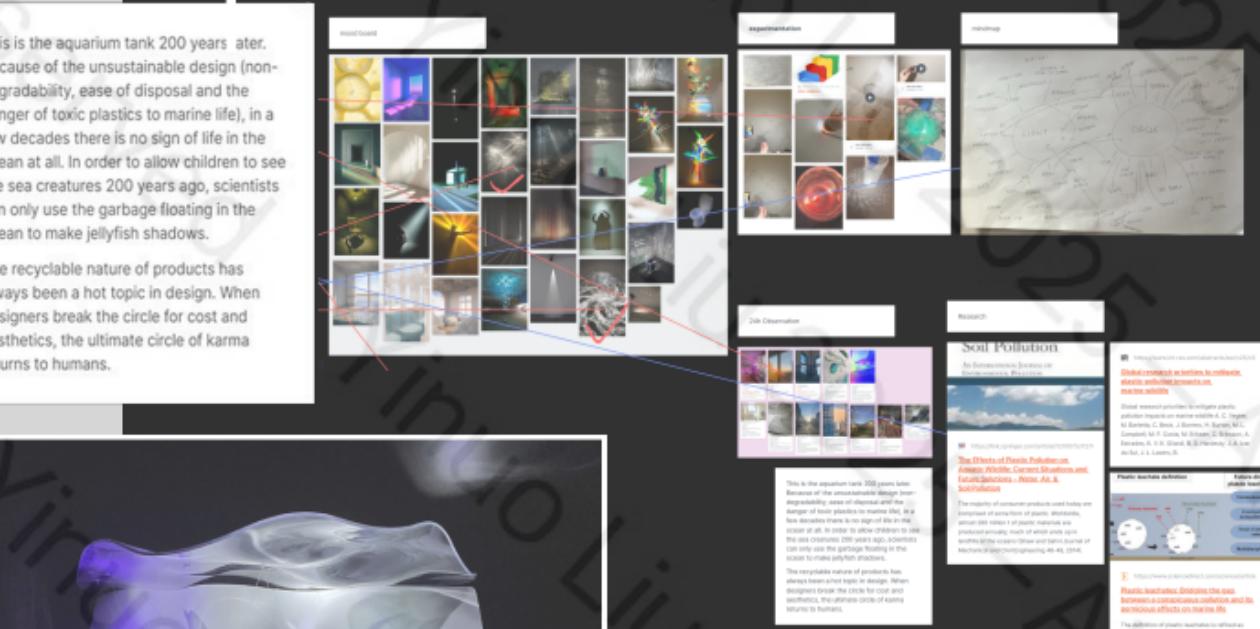
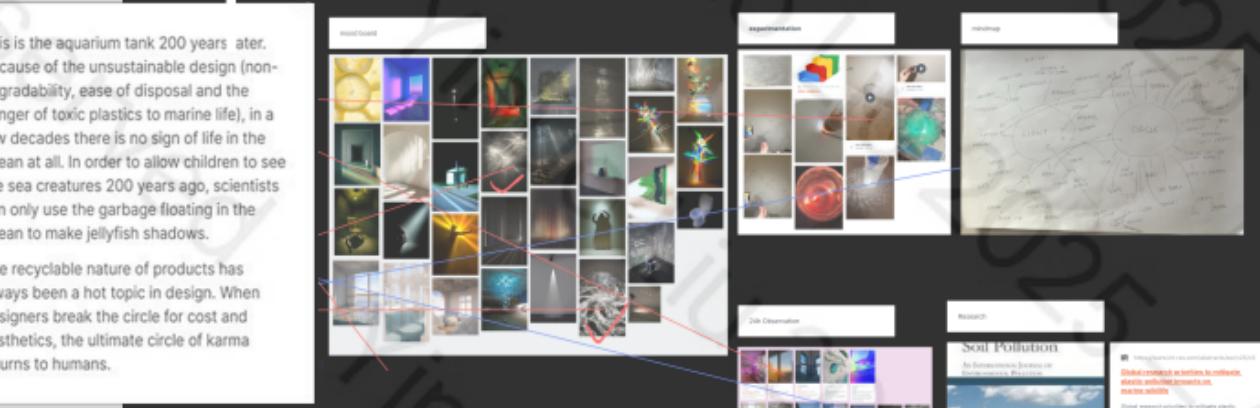
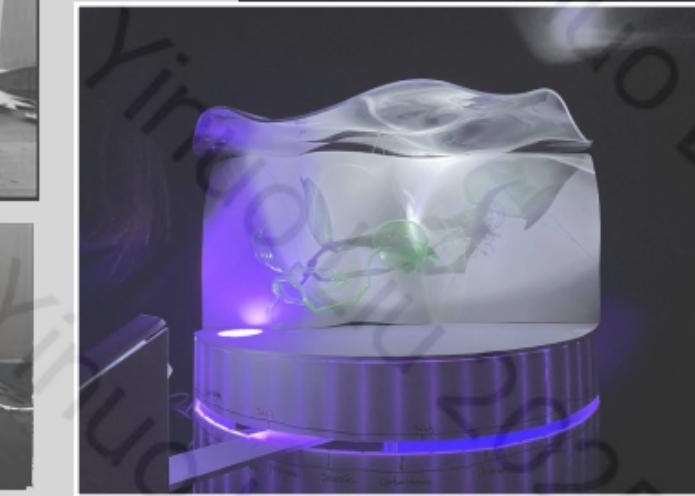
This is the aquarium tank 200 years later. Because of the unsustainable design (non-degradability, ease of disposal and the danger of toxic plastics to marine life), in a few decades there is no sign of life in the ocean at all. In order to allow children to see the sea creatures 200 years ago, scientists can only use the garbage floating in the ocean to make jellyfish shadows. The recyclable nature of products has always been a hot topic in design. When designers break the circle for cost and aesthetics, the ultimate circle of karma returns to humans.

The jellyfish will gradually disappear into the garbage. When the marine life becomes extinct, humans will also cease to exist. And after billions of years, the earth comes back to life and jellyfish reappear from the garbage. This represents that the Earth has entered a new era, a new circle of development.



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Timeline

This timeline is integrated with an interactive light feature. When users push the light, an arrow on the board gradually moves from the year 2023 to the distant future, reaching as far as 3023 and beyond. Along the bottom of the timeline, centuries are marked with titles. For future centuries, based on projected trends of global warming and excessive ocean waste, I have categorized them with specialized terms: Era of Waste Accumulation, Era of Decomposition, and Era of Renewal. These conceptual epochs reflect the environmental impact of current trends and envision the long-term transformation of the planet's ecological timeline.

The Era of Plastic Pollution, Atmosphere, Wildlife, Current Situation, and Future Outlook - Peter A., Michael A., & Jennifer A. Fornes, L. R. Gross, & B. J. McNamee. 44(4). 2018.

Soil Pollution: An Environmental Justice of Environmental Health.

Global research activities on marine biodiversity.

Plastic waste reduction.

Plastic waste reduction.

12X12X12 SEAT

Product Design

Personal Project

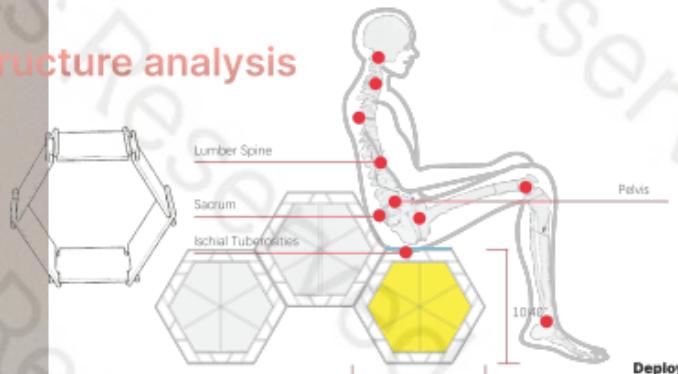
2023.5

What makes a seat? Design a structure to support a person in a way that is interesting and relevant given its location. Consider your seat's design, look and relationship to the site.

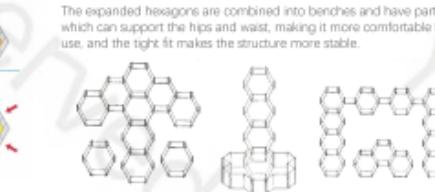
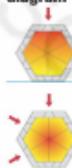
The majority of products are created by combining these two boards in various shapes. The concave-convex positions of the two boards can achieve a linking effect when joined together. When the two boards with two long concave parts are rotated symmetrically, there is a gap for adding a board with four concave parts, which can achieve the purpose of expanding a hexagon. This gap is important when expanding and linking in other corners. The two boards have the same length and can provide more possibilities beyond the expansion of hexagons and repeated hexagons. By utilizing these concave-convex positions, a fixed purpose can be achieved, thus generating new product forms.



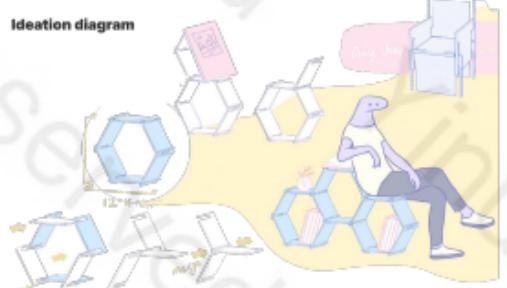
Structure analysis



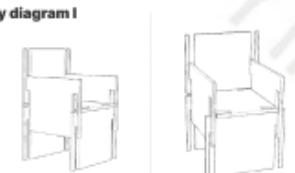
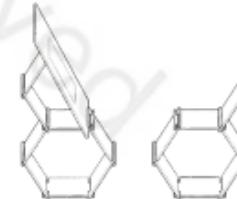
Decentralization diagram
Force analysis



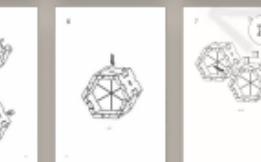
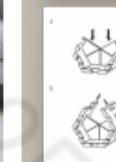
Ideation diagram



Unit development



Assembling



FOLDABLE FLOWER POT

Product Design

Personal Project 2023.8

The following design project is a sustainable planter that incorporates eco-friendly and user-centered functionalities. Conventional planters have extremely expensive transportation costs and create waste in high amounts. In order to eliminate such problems, I designed a foldable planter that compresses when shipped, reducing space usage and shipping costs dramatically, which in turn reduces carbon dioxide emissions. This not only reduces the logistical part of the environmental footprint but also saves money for customers.

Equipped with an automatic soil moisture, it has an embedded cotton wick for water flow from the bottom reservoir by capillary action. This feature keeps the soil hydrated without having to water frequently, thus making plant care much easier for busy city dwellers. Since it continuously sustains a consistent moisture, it prolongs the life of the plants and prevents the wastage of natural resources. Materials for the planter that are to be used shall be selected with extreme care, considering biodegradability and environmental sustainability, in support of the fully eco-friendly product lifecycle.





CHESS DESIGN

Product Design
Personal Project 2022.9

This project centers on a refined visual redesign of the traditional chess set, with a focus on enhancing both aesthetic appeal and functionality. The new design emphasizes clean lines and modern elegance, bringing a fresh look to each chess piece. Various versions of the set were created to prioritize ease of handling, streamlined production, and efficient transportation. Each piece was carefully shaped to provide a comfortable grip, making it easy to pick up and move. The production-focused versions simplify forms to reduce manufacturing complexity, while transportation-friendly versions are optimized for compact storage and shipping, ensuring the set is convenient to transport without compromising on visual appeal.



Version 1: Aesthetic and easy to handle



Perspective Side View



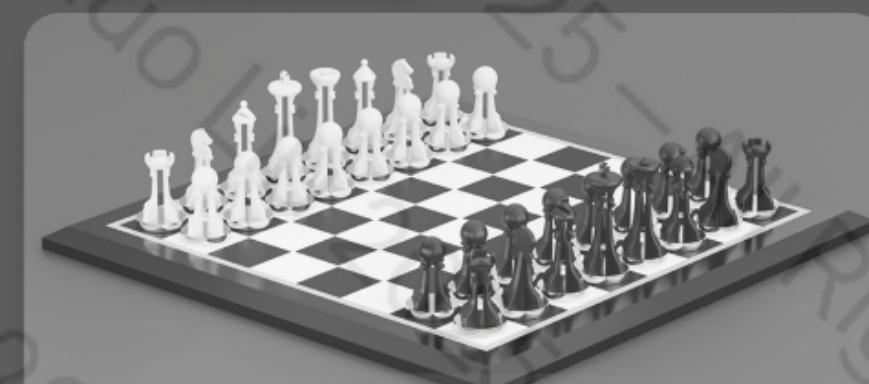
Front View



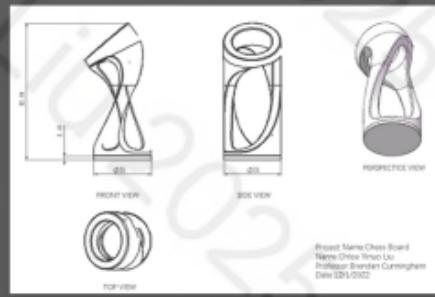
Front View



Perspective Side View



Version 2: Easy to assemble, cost-effective



Project Name: Chess Board
Designer: Student Name
Professor: Student Name
Date: DD/MM/YY