



Icosahedron

2021

The Icosahedron is a **metal structure used by movement artists** to perform their theatrical dance. Inspired by Rudolf Laban's Space Harmony movement theory and practice, The Icosahedron represents the natural boundaries of our bodily movement.

I collaborated with Studio8, a not-for-profit group that aims to introduce the art of dance through experimentation and innovation. I designed the installation which they used in their performance.

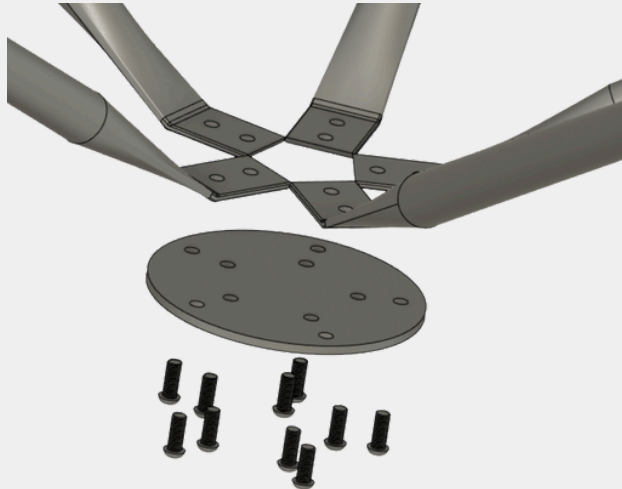
Icosahedron

One of the concepts of the performance with the Icosahedron is that it is a pop-up performance that would happen away from the theatre to reach an unexpected audience.

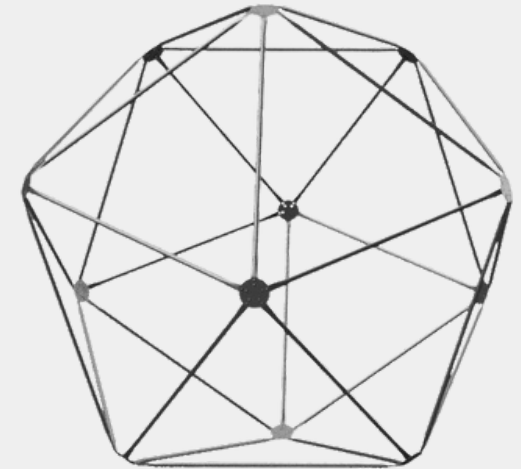
It was a **challenge to design a structure that would be durable and portable**. I came up with the solution through designing joints that made the Icosahedron easy to assemble and disassemble.

I prepared the drawing files and arranged with a blacksmith to build the structure using **metal laser cutting and tube bending**.

The performance [Dance on Mars](#) by Studio8 used the Icosahedron to express the relation between motion, space, and body. The dance piece was performed across Jordan in public parks and cultural centers. After each event, the structure would stay for a while for people to experiment and tinker with it.



Exploded View of The Joint



Design of The Assembled Structure



[Icosahedron in action](#)

Icosahedron



The **AR technology** made it easier for us to imagine and assess the size of the installation before building it, making sure the performance will be able to exhibit the planned locations.

Haikeus 2.0

2023



Haikeus 2.0 is a collaborative project that emerged within two days, exploring techniques such as **3D printing, wearable technology, felting, biomaterials, and costume design.** Inspired by Ecological Grief and Eco-anxiety, Haikeus was conceived to reconnect us with nature.

The wings, which envelop the wearer, symbolize disconnection from nature. The dress incorporates a circuit board that triggers vibration when exposed to light, akin to a comforting embrace from mother nature, reminding us not to neglect her presence.



1000



My role in this project was 3D modeling and 3D printing the wings. I traced hand sketches on Fusion 360, considering the dimensions of our model's body. I then designed a joint system to fasten the wings to a felt belt.



The hues and patterns in the wings are influenced by the colors and shapes in Wadi Rum. The openings in the 3D printed piece were filled with biomaterials, containing okra seeds that can be planted when their time is up to complete nature's cycle and bring new life into the world.



Makery Cafe

2024
ongoing

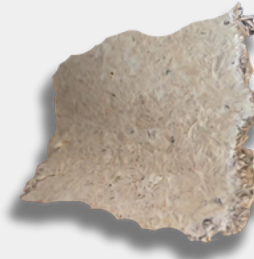
Participating in the BioDesign Challenge at the New School, my team and I designed a zero-waste open-space for public to come experiment with biomaterial and enjoy a cup of drink. The space will have a small cafe, workshop area, and a collective library that shows all experiments with biomaterials.

Makery Cafe

First, we experimented with mycelium, coffee, waste, kombucha, and other biomaterials, and compiled a library of materials and fabrication methods



Laser cutting and engraving mycelium



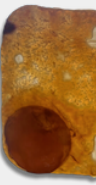
Mycelium thin sheet



Mycelium with flour



Mycelium with coffee



Kombucha
SCOBY

After that, we started experimenting and designing modular pieces to create furniture for the cafe. We did some small prototypes and a 1:1 scale coffee table made of mycelium and coffee waste.

