

Interactive Illuminated Betta Fish Sculpture

Haus Anima at Luminata 2022

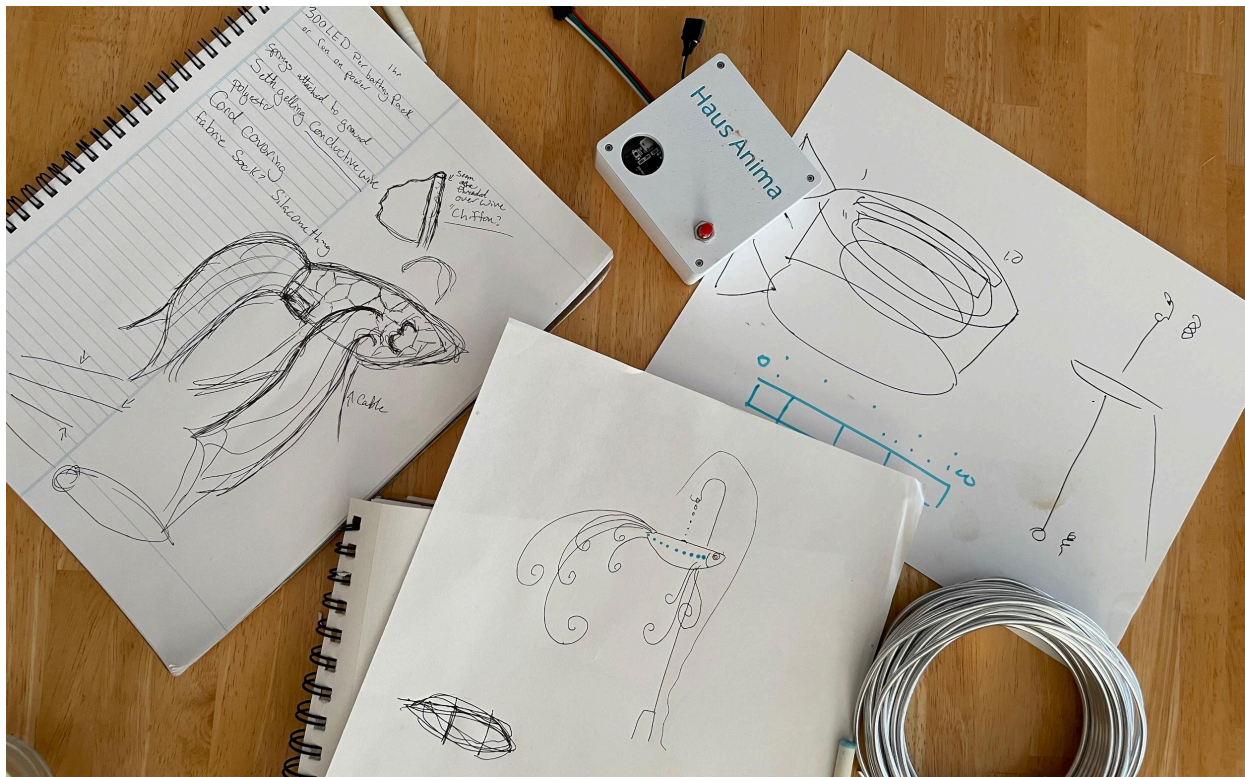
We are four friends flourishing through communal art. Together we are excited to combine our skills in LEDs, programming, music creation, visual art, and sculpture to create a larger-than-life **Interactive Illuminated Betta Fish Sculpture** to show at Luminata and future F.A.C. and IgnitionNW events.

We will create the body of the fish with aluminum wire, then cover it in translucent 3D-printed scales that diffuse the custom programmed LED light strips inside. Its fins will be made from wire and billowy chiffon.

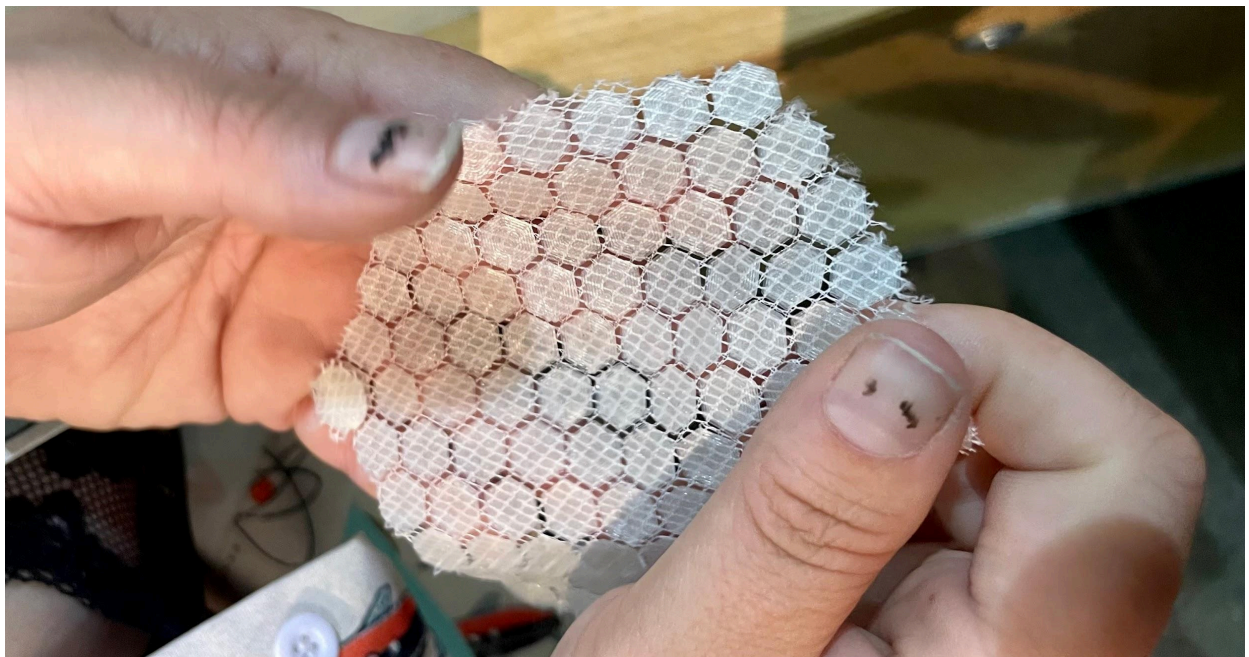
Participants will be able to change the color and patterns of the lights by touching the sculpture in various areas— thanks to copper touch-sensors placed on the body and in the fins of the fish.

We will produce ambient aquatic sounds which we'll layer with the lights to complete the whole interactive experience. We hope visitors enjoy swimming in a sea of sound with us.

Here are some of our plans for this sculpture:



Scales test print:



Rough 1/3rd size wire prototype:



Our handsome model, Spectre:



Budget

Overall we expect we'll spend around \$300 on this project and would appreciate anything Luminata could do to lighten that.

The rough cost breakdown of the finished piece will be:

Conductive sensors - \$25

LED strips, cabling - \$30

Custom LED controller - \$20

PCB superstructure - \$15

Garden Netting & Chiffon – \$40

Multicolor 3D printed scales – \$40

Aluminum Wire – \$110

Audio Samples, Effects - \$50

Total: \$320

We produced the art pieces mentioned below on a shoestring budget. For this project we're hoping for some breathing space to experiment with new techniques (interactive touch sensors and 3D printed scaling) and prototyping.

Related Art pieces

As a group we've produced art for a number of recent events.



Halloween 2021 we produced these Jellyfish costumes ([Youtube](#)) for an outdoor event at the arboretum. It was unclear if the weather would be nice or not and they protected us from any potential rain. People loved how they moved and lit up the night.



In May we attended Remergence, where we created a giant Solar System

painting [“Collaborative Interplanetary Nebula Mural”](#). We ran a booth filled with painting supplies for the public to paint and jointly fill our solar system. More details and photos [here](#).

In July we brought sound, art, and every possible UV art supply in existence to a week long festival. We drew line art of cryptid animals with giant sharpies on ten posters and hung them up under black light in our [Electroluminescent Menagerie](#). Each day we took down two animals and spent several hours painting them communially with strangers. Kalesta in particular encouraged several shy and nervous passersby that yes, anyone could paint, yes, that meant them, yes, anywhere on the painting, and yes, any color they wanted! At the end of the night Loren finalized each animal, then they went back up on the walls of our art gallery for viewers to enjoy.



In 2019 at **Luminata** I created a small led project, [LED Grass](#), that mimicked the waving and breathing of grass.



Thanks!