THUMP STUMP
Subwoofer | 13in x 24in | 2018

I wanted a subwoofer but didn’t want a typical ugly square box. This sealed 8” subwoofer started as a stump I found on a walk in the woods. I stripped it of its bark and cured it over the course of a year.

I used a combination of methods to hollow out the 8in x 12in cylindrical cavity, including hammer and chisel, a power drill, and fire. Epoxy putty and resin were used to stabilize the structure. Additionally, a silicone sealant was applied to ensure a completely sealed internal environment critical to the acoustic resonance.
Finished with a semi-gloss poly-acrylic seal and gold plated terminals.

Powered by an external 75 watt amp, this subwoofer reaches a low end response of 40Hz.

The “Thump Stump” has a clean and punchy response enhancing the listening experience.
TRUCK BED
Interior | 2016

In the warmer months I love to travel. This comfortable mobile apartment is the second version of the design.

This iteration allows for sitting upright to work at a surface during inclimate weather.
The headboard is removable and locks in as a slidable work surface. The port-hole shelves and top lip were inspired by sailboat interiors, to keep items from falling out while driving. A slot in the counters was made to house a water dispenser.
Frustrated by the cord of my headphones getting yanked out, I decided to upgrade by building a USB rechargeable Bluetooth adapter.

I created a CAD model of housing for a Bluetooth module and soldered the 'audio out' to an old headphone plug. The housing was 3D printed in PLA, and finished with chrome paint.
Bench
Birch plywood | 7.5" x 21" x 7" | 2018

One of the major challenges of meditation can be the discomfort of sitting in a formal posture. This comfortable bench enhances a daily practice.

A bent plywood form provides a simple minimal feel.

I tested different bend radii to determine failure points in my material. A 1.5" radius was determined and a CAD model was created for a mold.

Four strips of 1/8 inch plywood are laminated together with wood glue. Care was taken to ensure evenly distributed pressure across the bench.
The bottom was cut with a 6° taper to tilt the pelvis allowing for a more comfortable seated position.

The bench was finished with orange oil and beeswax.
**LOGO & POSTER**

**Branding | 2016**

Firefly Gathering is a music festival in Northern Arizona. I was commissioned to create a logo, typeface, and poster design for their 6th annual festival.

The poster was originally hand painted and incorporates aspects of the surrounding natural environment including plants and celestial events.

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Brass logo pin
MURAL
Portland, OR | 15ft x 16ft | 2016

This mural was created to make a more inclusive environment for my neighborhood.

I sketched ideas while seeking community input and reclaimed paint from an industrial district nearby. With a limited palette, I chose a design that extends the viewer’s eye beyond the wall, to create an atmosphere of wonder and creativity.

The design was scaled to the wall using a grid system.

The mural was painted over the course of three days, ending with a festive neighborhood potluck.