INDUSTRIAL DESIGN PORTFOLIO

2016 // Nikon FE, hand-processed black & white film
SOUND GARDEN

14”x14” / An omni-directional speaker brightens any room with its unique sunny shape and omni-directional sound.

Plywood, speakers, wood dye, Inkscape and Carbide Create

2018
When it came time to attach the final 3 faces, I found that I would not be able to glue the seams together from the inside as I had done with the others. Instead, I used a threaded rod running from the top to the bottom to hold the speaker together. This design also allows the speaker to be opened for any necessary repairs or modifications. I screwed a loop on the top of the threaded rod and a bolt and washer on the bottom.

I attached each speaker to its face with 4 screws. The faces were then glued together in groupings of 3. I wired the speakers together and wired one speaker out of phase in an effort to increase bass response.

Each face was cut from marine grade plywood on a CNC milling machine.
Dodecahedron
speaker sketch
*Pen*

Screen shot of speaker
face design
*InkScape*
I am interested in botany and wanted to make a planter that would allow the full form of a plant to be viewed, including the roots.

Glass  3"x6"
Mirror  3"x8"
Solder  3"x10"
Copper foil
Copper wire
Each glass piece was measured, cut, and foiled prior to soldering. I was concerned that the tops might slide off, so I soldered pins to the lower corners of the top, and added a notch on the corresponding bottom corners for stability.
When it came time to attach the final 3 faces, I found that I would not be able to glue the seams together from the inside as I had done with the others. Instead, I used a threaded rod running from the top to the bottom to hold the speaker together. This design also allows the speaker to be opened for any necessary repairs or modifications. I screwed a loop on the top of the threaded rod and a bolt and washer on the bottom.

I added a mirrored bottom to add depth and to reflect light up into the roots. Each face was cut from marine grade plywood on a CNC milling machine.
My client was interested in converting her standard tube style downspouts to something light and aesthetically pleasing. The hope was to integrate the landscape with the house structure.
I tumbled rocks and soldered a chain of heavy copper wire to create this unique Rain Chain.

The chains are attached to the gutters with a custom-designed appliance.
A set of four 3-D printed geometric planters. Fundamental design shapes, with asymmetrical cut-outs, complemented by unique foliage.
I designed this planter to be functional in 2 different positions, shown here as a finished product and as a rendering.

3D Builder
I used this program to model the planters, as it is well-suited to modeling hollow shapes.

Cura
The planters were sliced and printed using this open-source 3-D tool.
PHOTOGRAPHY

Red light, green light
August, 2018

Exploring Slot Canyons
2018
SKETCHES

Hand Painting 2018
*Gouache, ballpoint pen*

Hand Drawing 2016
*Pencil*
MONOTYPE PRINTS

Celeste
Black ink
2018

Luna
Black ink
2018