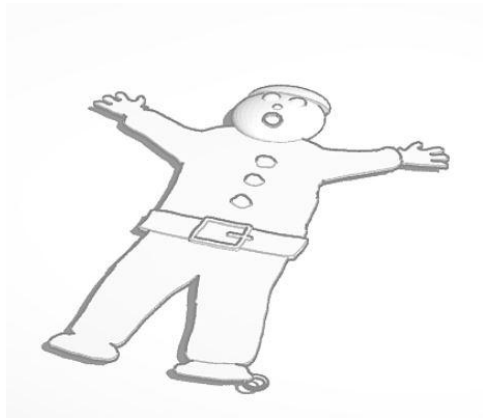


Robert “Tres” Brown
3-D Bootcamp Printing Portfolio

August - September 2021

Mr. Bill Keychain



This was the first of several projects figuring out the controls of CAD.

A Vase from Kenosha, Kid?



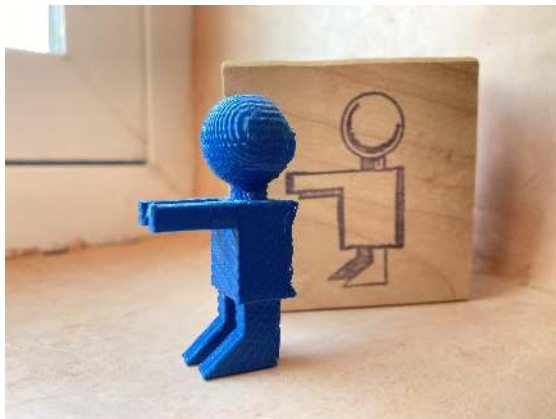
Another warm-up assignment that focused on containers and subtractive manufacturing.

Command Strip Cat



The first “problem-solving” project that called for a caliper to obtain precise measurements. The problem being that my cats would climb into the fireplace while my partner and I were out of the house. The solution I devised was a form-fitting clip that would secure a pre-existing fireplace cover.

Stamp Figure



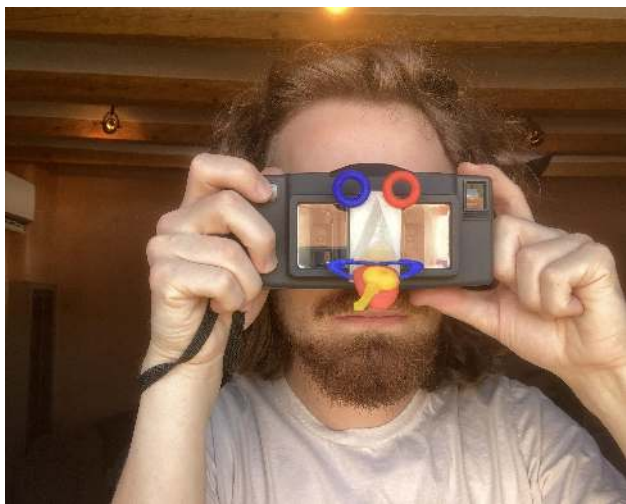
My first attempt in creating a small figurine. This was inspired by a stamp that I found when cleaning out my girlfriend's classroom. I admire the simplicity of the figure and I wanted to create something from a 2-D reference image.

Zozobra



On the morning of September Third, Alec and Reuben tasked me with designing a Zozobra character to print. I spent a solid 2 hours on the design so we could get it printed before the end of the day.

Stereo Camera Lens Shade (Funny Face)



Showcased on the New Collar Networks' TikTok account. This design was to improve a stereo camera by creating an alternative lens accessory that would create lens flares to add a stylistic flourish to photos while also adding a funny face for the subject to look at when having their portrait taken.

Pinball Ramp and Plunger Shoot



I have a great admiration for Pinball machines. The artistry and engineering that goes into every game cabinet is marvelous and I wanted to try my hand at creating a few ramps and launching tunnels for a smaller pinball machine.

Lighthouse Fresnel Lens and Display Cage



What started as a passion project ended up evolving into my most intricate and ornate print from a design and technical standard. Most of the design time was spent perfecting the look of the fresnel lenses from lighthouse reference photos. One issue I ran into was devising the manner

in which the lenses and light source would be mounted. I settled upon an interlocking peg system, which luckily, didn't require any printing support structure because of the lens' minimal and symmetrical design. The final stage of design was creating a cage for the lens' to rest inside of and also conceal the batteries that would power a small lightbulb.