

NOVEMBER 8, 2023

ASSIGNMENT #1 - METAL

3D PRINTING DESK

Metal & Wood Prototyping
INDS-2019 - Stefan Tobolka

MITCHELL PRETAK

Assignment #2 Project Concept





Mitchell Pretak

INDS-2019 - ASSIGNMENT #2

3D PRINTER DESK

This document will outline my concept for the Metal prototyping assignment

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CONCEPT OVERVIEW

THE IDEA

The final concept for this assignment is a custom designed desk that is taller than standard height, as well as accommodating to my needs, and the unique shape of my room. For this assignment, I am going to focus on the first portion of the desk, which is the portion designed to fit a 3D printer. Printers take up a lot of space, and so I'd like to store it below and open up more space to work.

MATERIALS

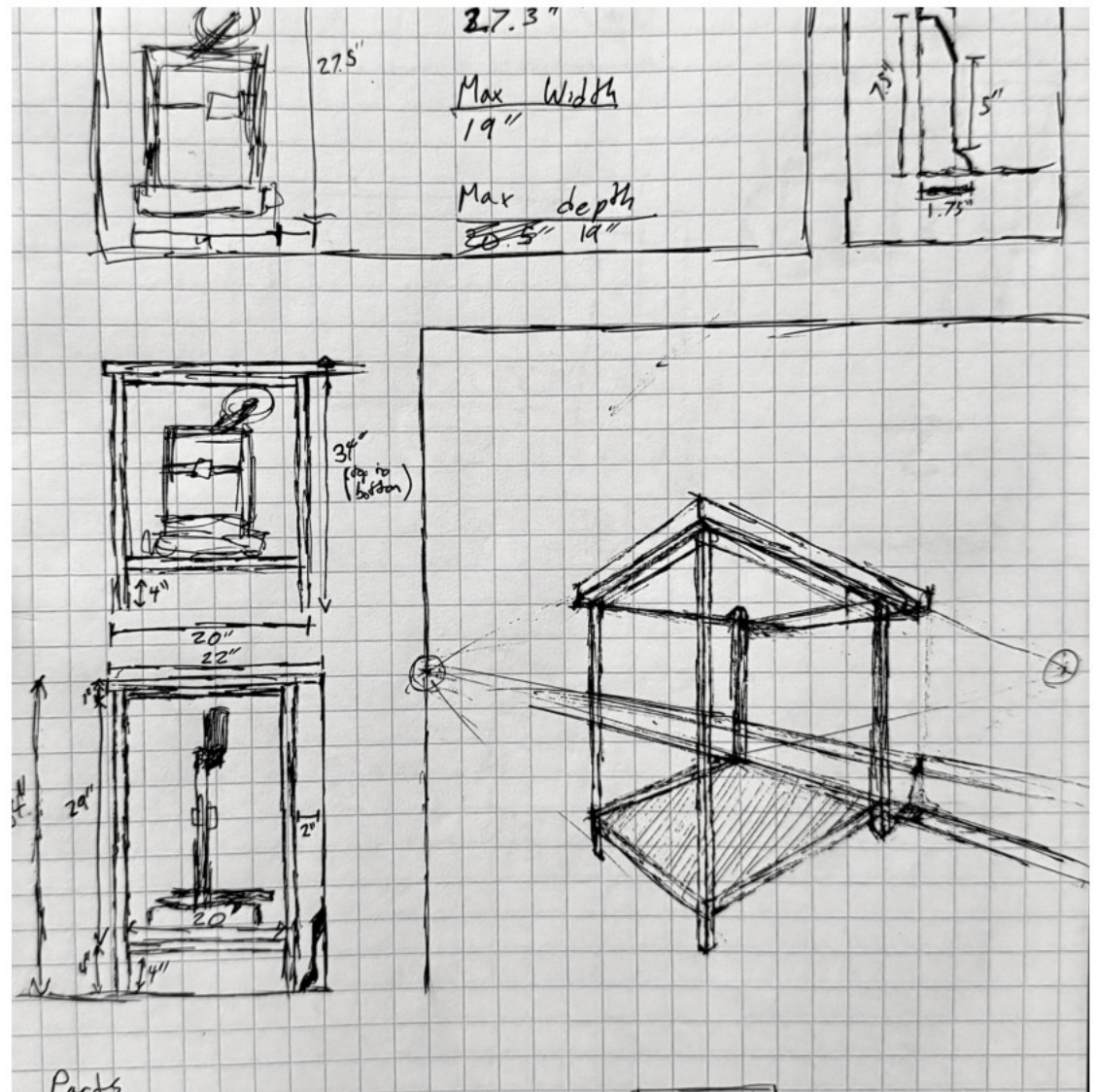
The frame will be made from metal, with a walnut counter top, and shelves placed on it

ROUGH RENDERS

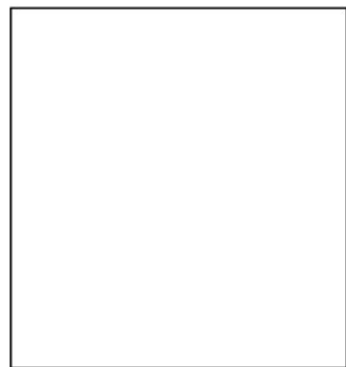


INITIAL PLANS

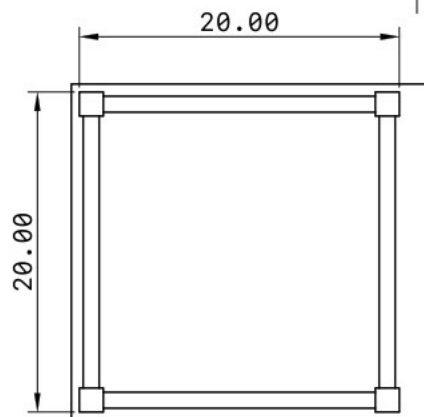
One important aspect I wanted to keep in mind was the baseboard moulding in my room. I have a 1.5-2" baseboard that prevents any furniture without an overhang from touching the wall, and I wanted to ensure space was optimized.



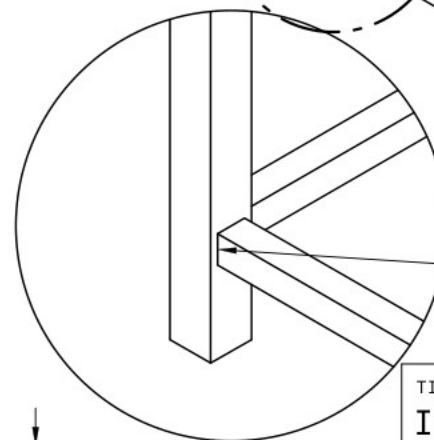
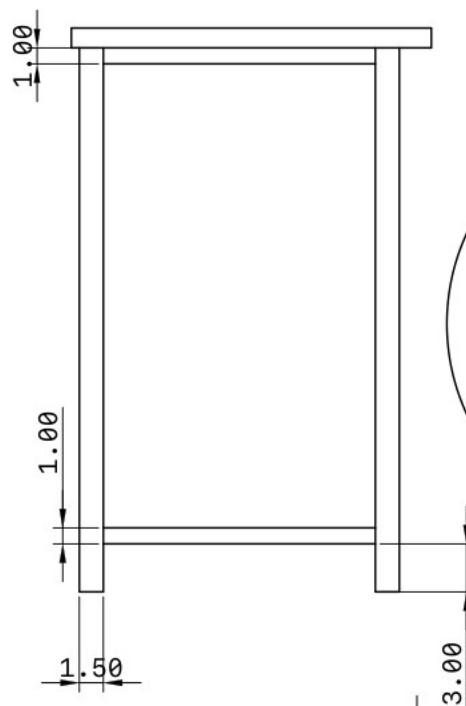
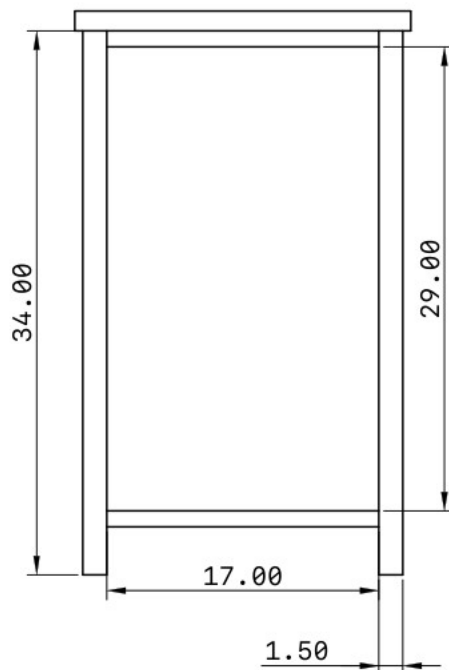
CAD PLANS



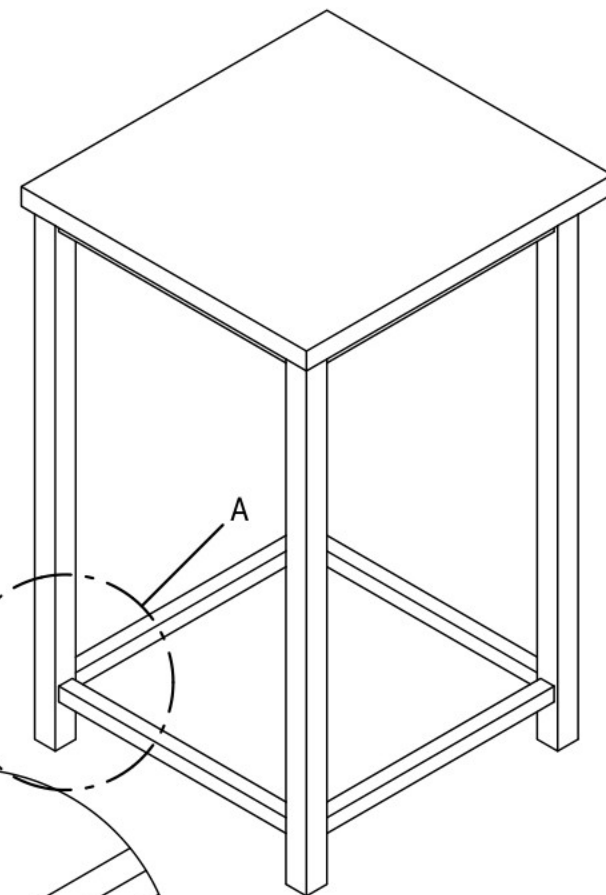
Front



Side



A
SCALE 1:5



SCALE 1:10

Offset

TITLE INDS-2019 [DESK]		
UNITS in	PROJ. ANG. 	SIZE A
SCALE 1:12	LAST UPDATED 12/14/23	SHEET 1/1

REALISTIC RENDERS



REFLECTION

Overall, the outcome was fine. In the future I need to be more careful welding, but for due to time constraints I had to rush the welds.

NEXT STEPS

Add a wood to the table top and shelves and clean up burn marks.



FINAL PRODUCT

