



Advanced Fabrication

Amelia Massetti

ACCE 362 Prof. Bagry

Spring 2026 6/27/2026

Research + Analysis

Drawstring

Drawstring bags date back centuries and were first recorded in ancient Egyptian hieroglyphs. They are categorized by their very simple top closer.



Used to carry your personal effects. Drawstring bags can be used for any type of occasion from running errands to evening events.

Caged Bucket Bag

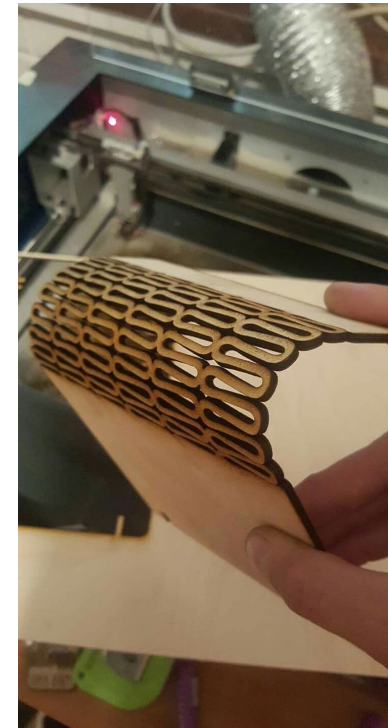
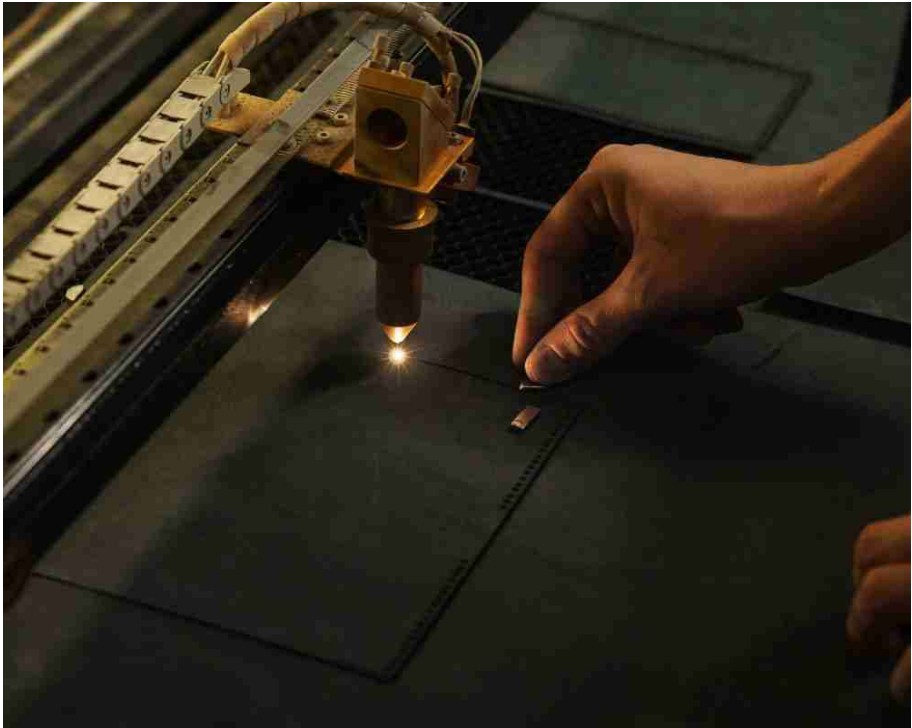
Either a hand cut, die cut or laser cut leather bucket bag with normally a fabric drawstring bag insert, that has become popular in the last 15 years. It's a more modern take on the traditional bucket bag.



Used to carry your personal effects. Can be used at many events but these examples are more for casual occasions.

Laser Cutting

Laser cutting is a precise cutting manufacturing process that uses high pressure CO2 to melt, burn or vaporize material to make cuts. Laser cutting can be used on wood, leather, metal, plastics and paper products.



Laser cutting can also be used to engrave materials as well. For this project I will be using the laser cutter to cut out my pattern pieces and create a pattern within my leather pieces.

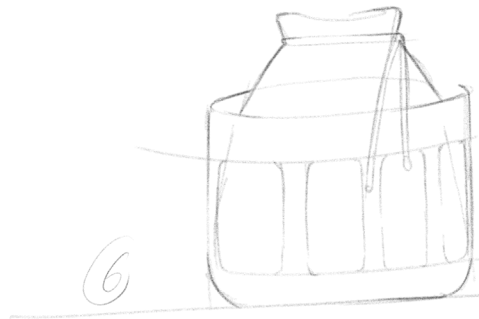
Wet Molding

Wet molding is a leather technique that allows you to make your leather into a 3D shape. To wet mold you need to soak your leather and then while wet stretch the leather onto a mold that has the final shape that is desired.



For this assignment I'll be wet molding the base of my bag to create a cup like shape. I'll also be CAD molding my base and 3D printing it instead of buying a wet mold kit.

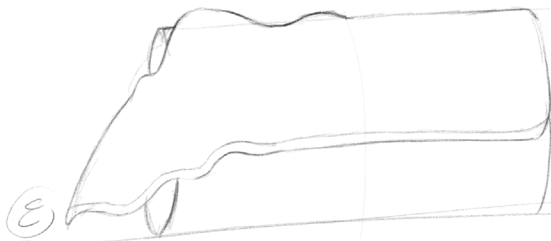
Design Iteration



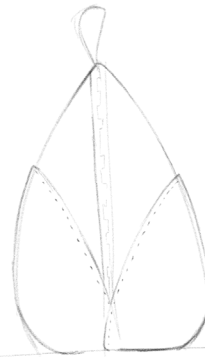
6



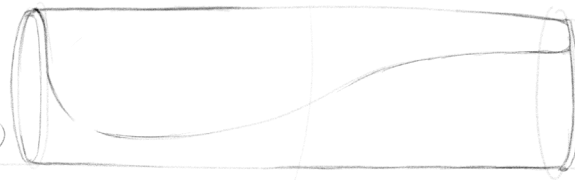
7



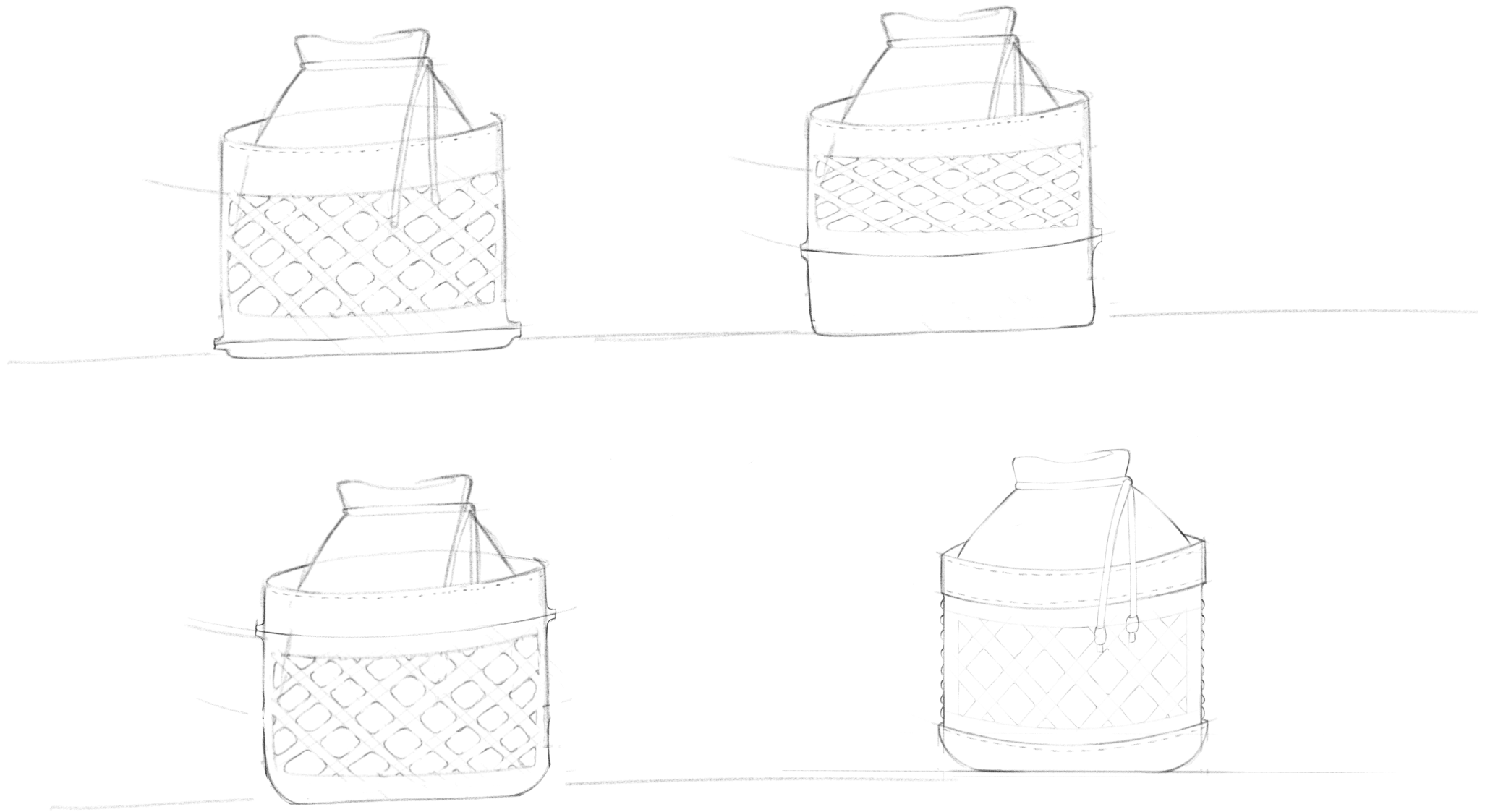
8



9



10



Tech Packs

Inner Drawstring Pouch

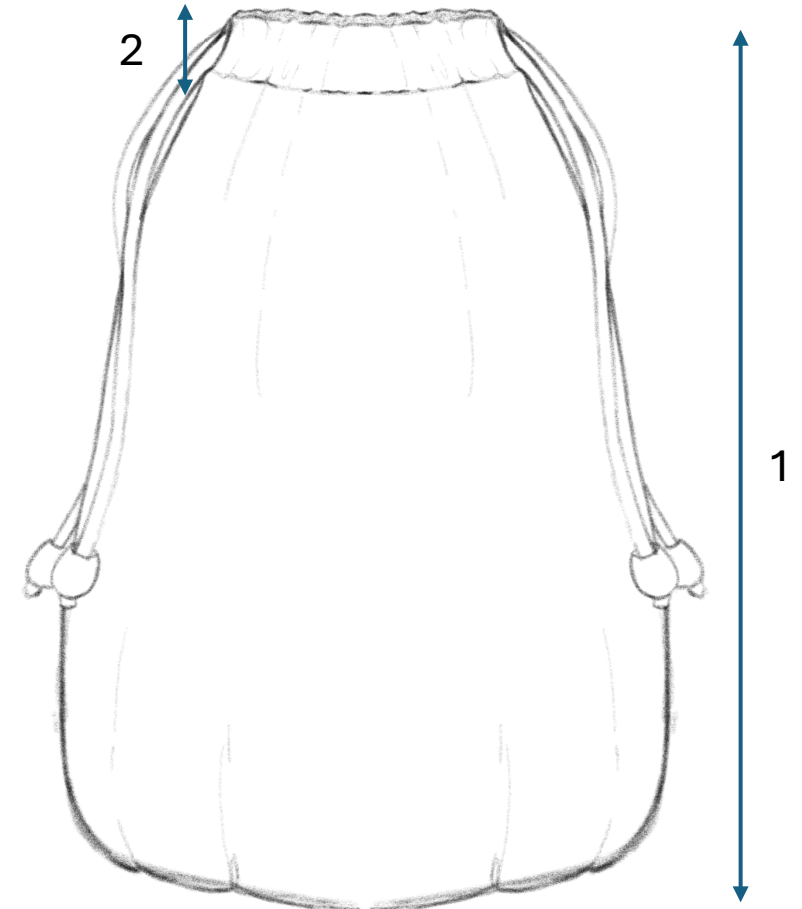
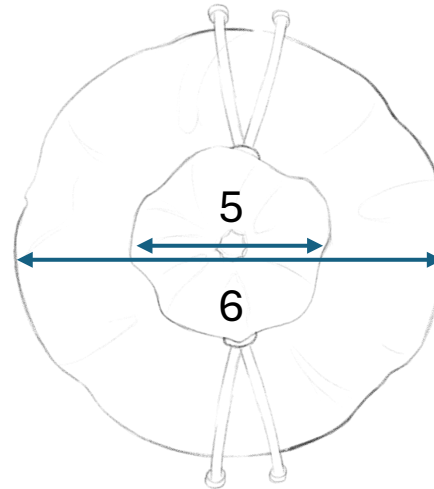
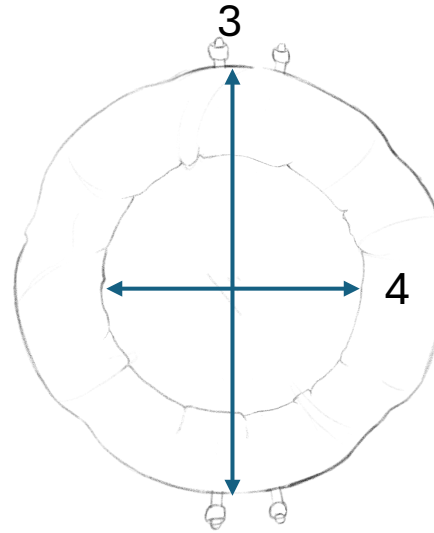
Exterior: Medium weight unbleached cotton muslin

Lining: Orange, yellow and red plaid pattern printed satin

Ties: Red woven flat cord 10mm in width

Stitching: White 50 weight thread

1. Height of 280mm
2. Height of draw string channel 22mm
3. Diameter of bag 145mm
4. Diameter of base 80mm
5. Diameter of opening while sinched 60mm
6. Diameter of opening while open 145mm

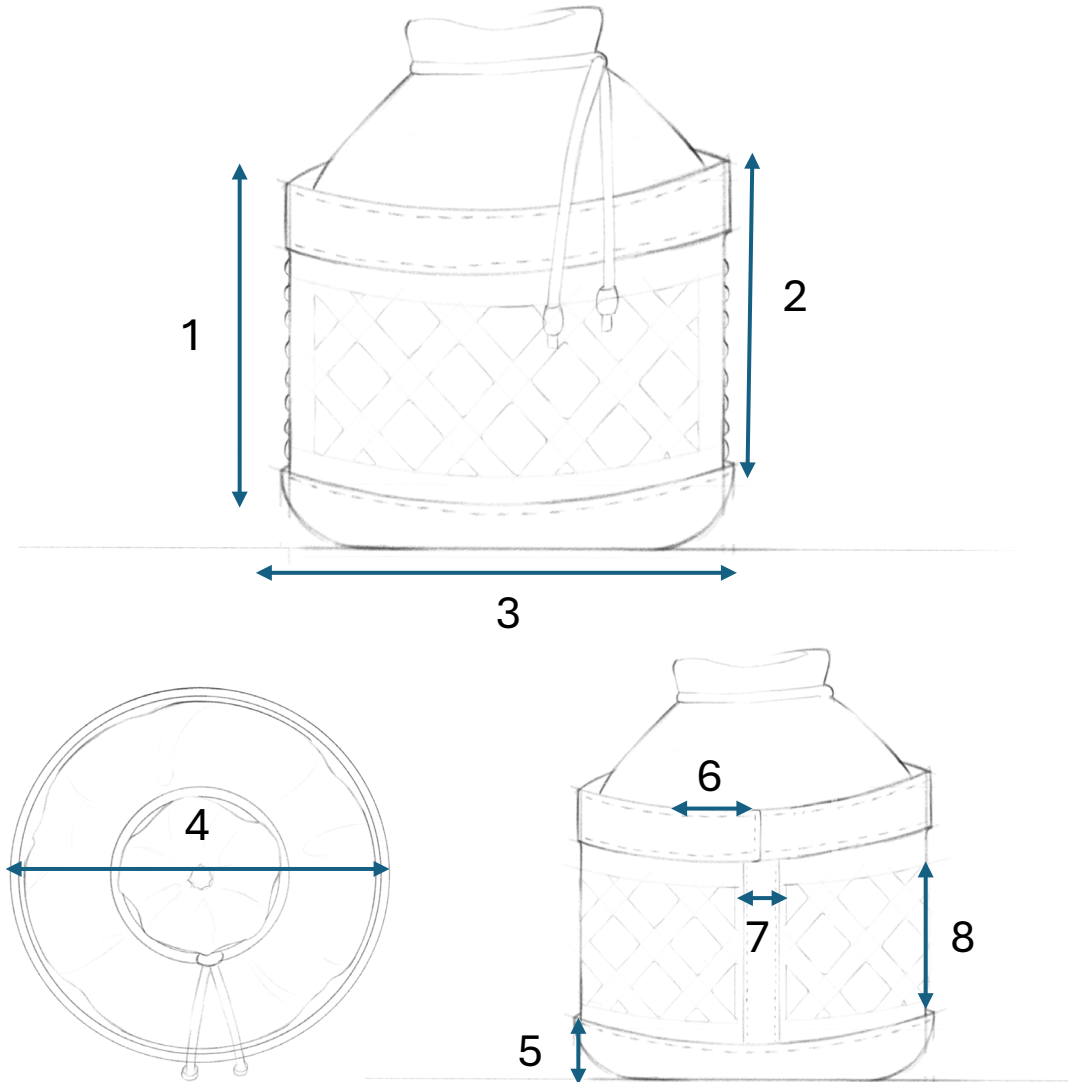


Outer Leather Cage

Exterior: 3.5mm light brown full grain
veg tan cow leather

Stitching: Matching light brown waxed
thread

1. Height of 200mm
2. Height of band 195mm
3. Diameter of bag 140mm
4. Circumference of bag is roughly
440mm
5. Height of wet mold base 30mm
6. Stitch punch is 6 holes per inch
7. Width of band 30mm
8. Height of cut out section 80mm
9. Width of cut out section 190mm
10. Width between diamond pattern
5mm



Full Materials List



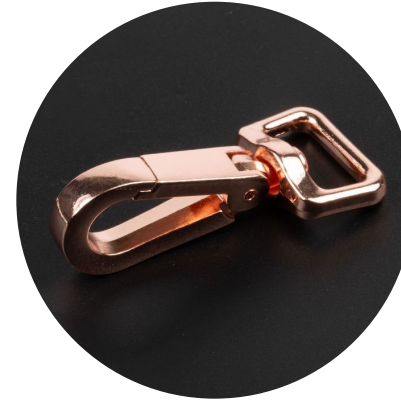
4mm Full Grain Veg Tan
Cow Leather ¼ Hide



Brown Waxed Thread



1.5" Gold D Rings (x2)



1.5" Swivel Snap Hooks
(x2)



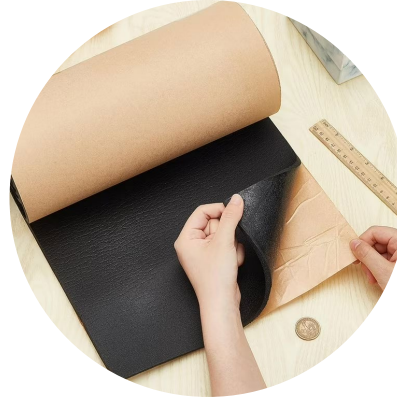
30' of Yellow, Orange
and White 550 Paracord



1" Gold Cord Lock (x2)



Color Printed Polyester
Satin



EVA Foam Adhesive
Sheet

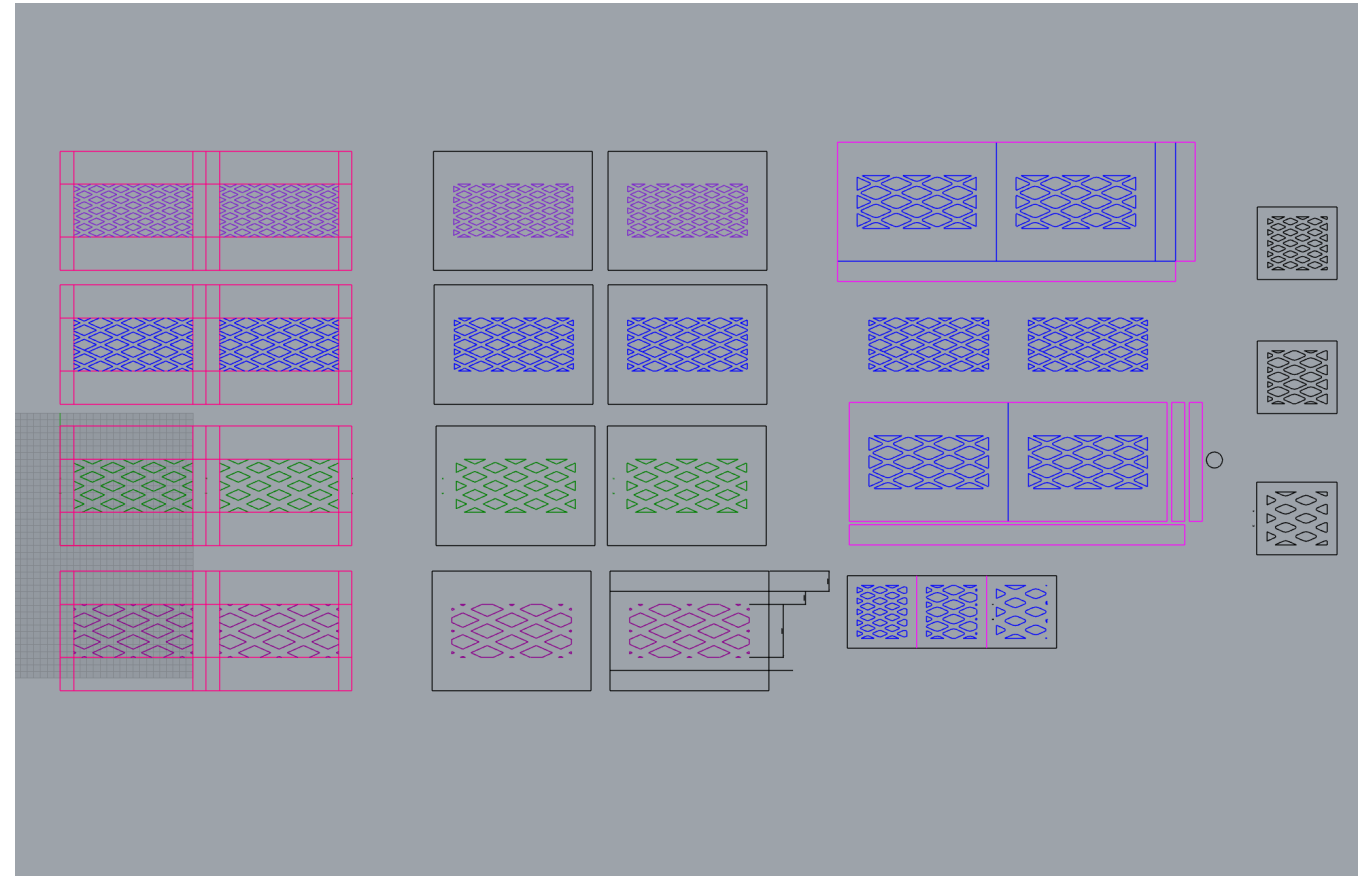
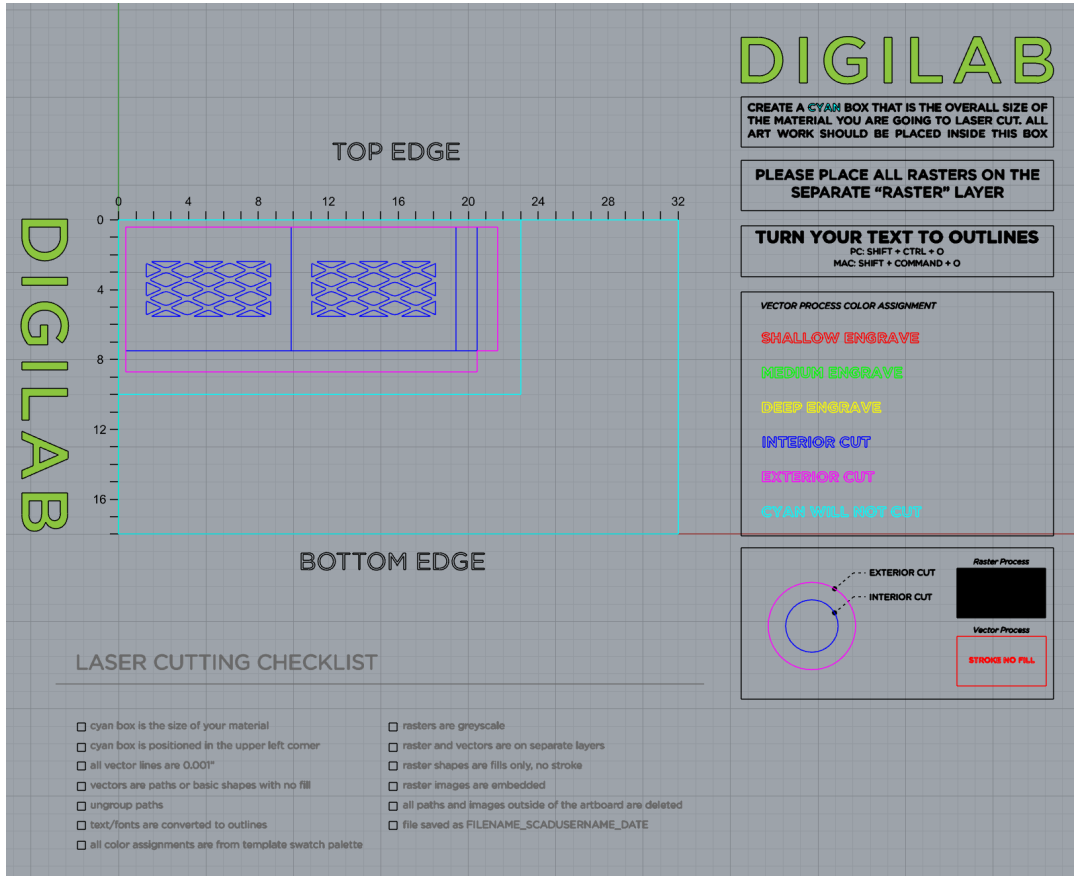


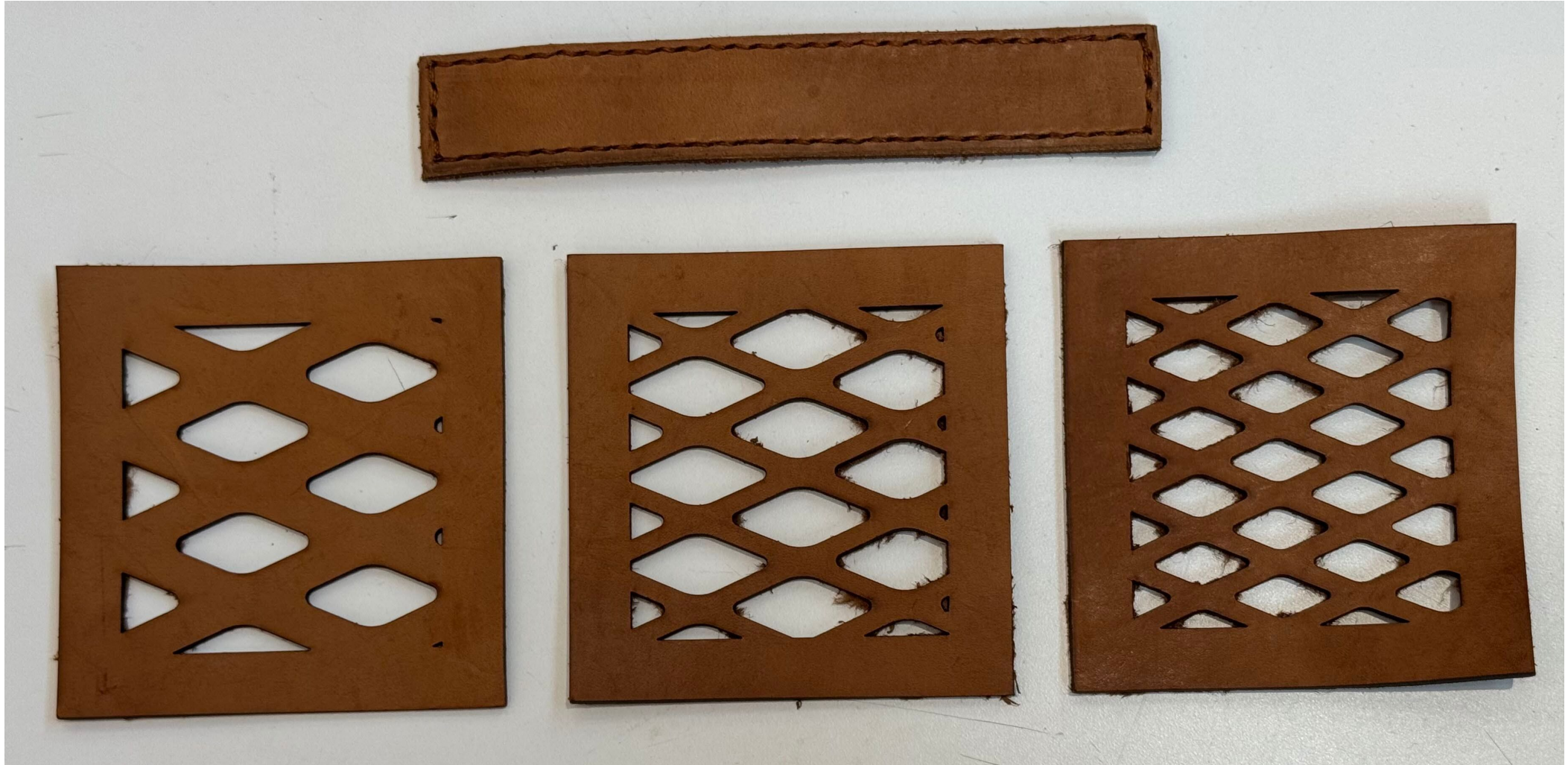
Cotton Muslin



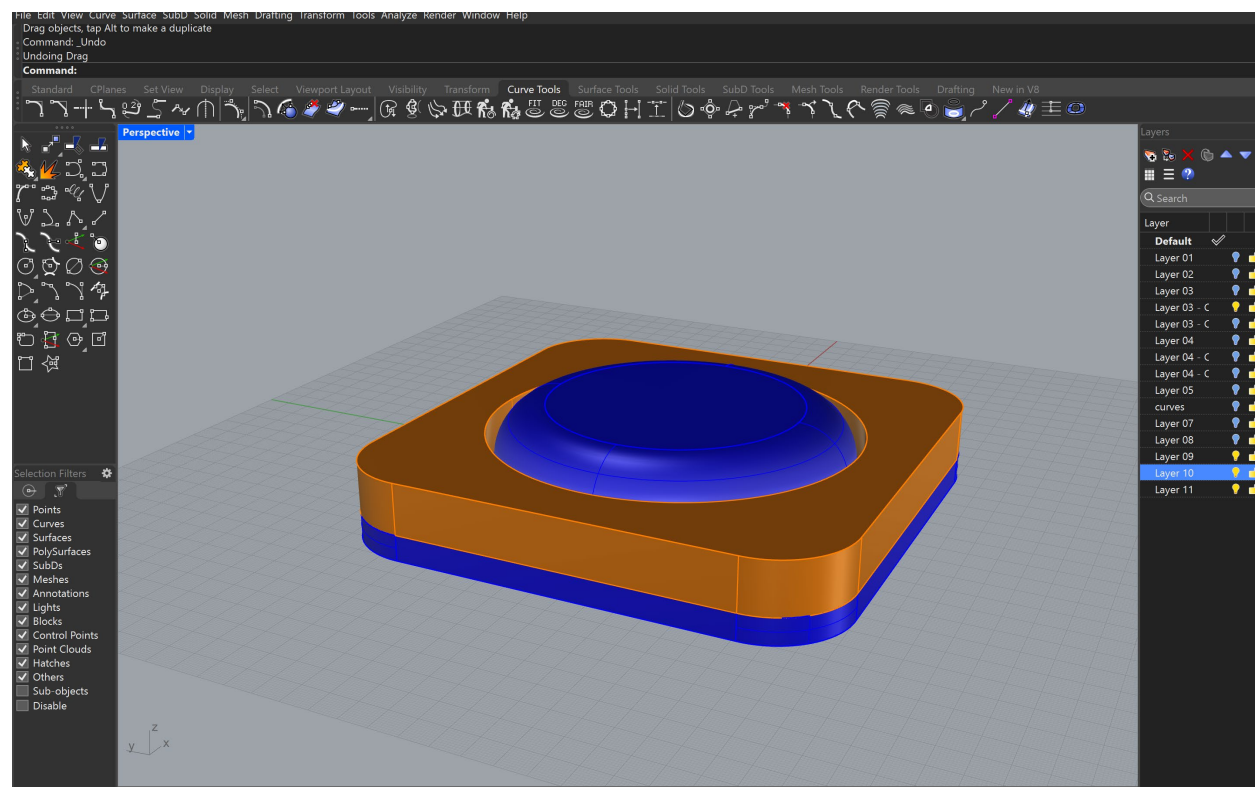
¾" Disk Magnets (x2)

Laser Cutting

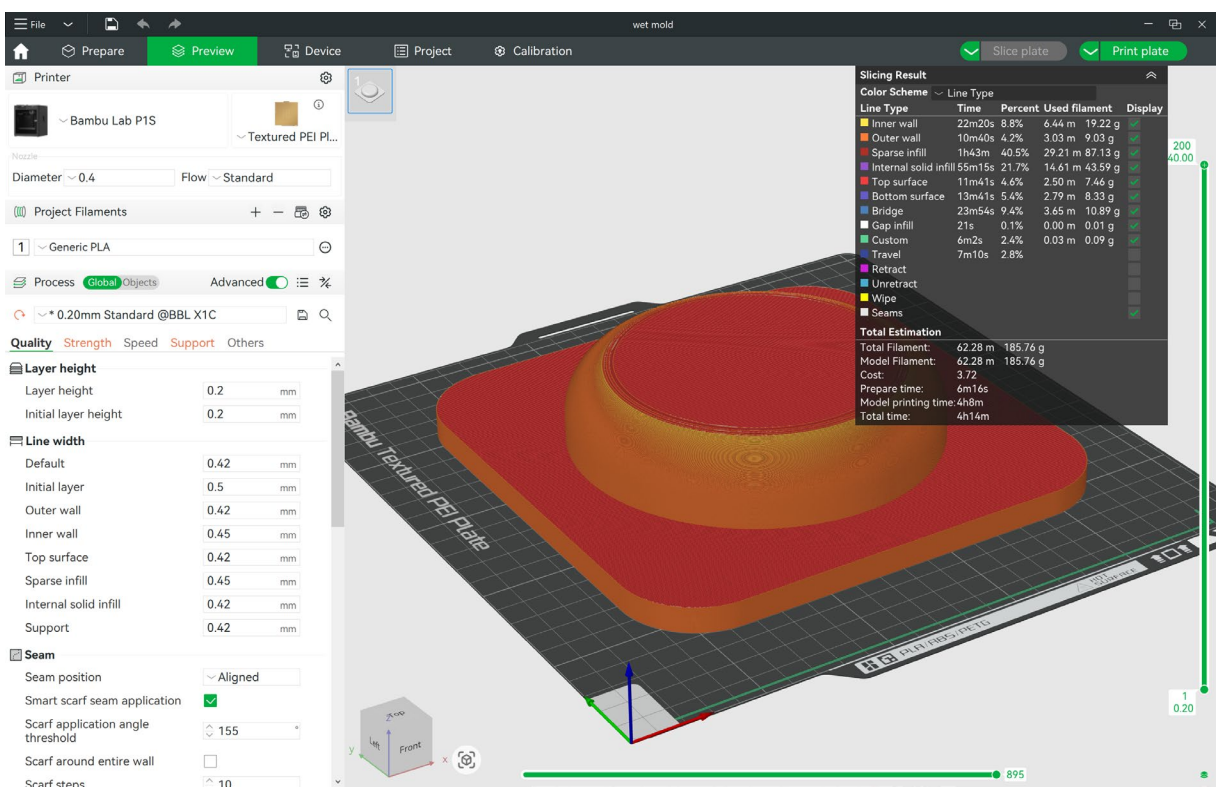




Wet Molding

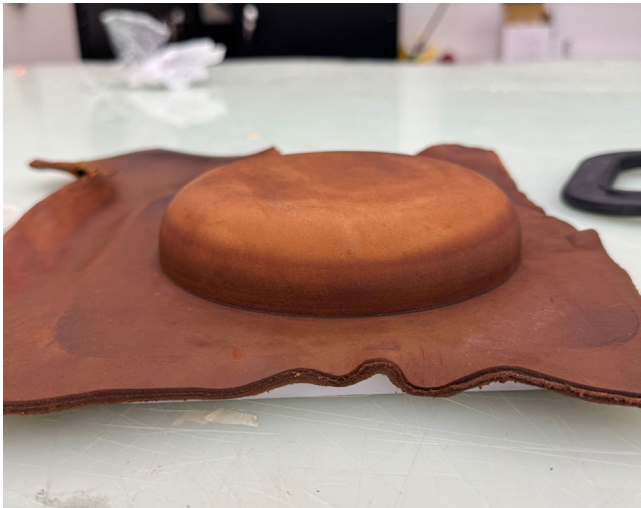


ACCE 362 Prof. Bagry



Advanced Fabrication

Amelia Massetti 6/27/26



ACCE 362 Prof. Bagry

Advanced Fabrication

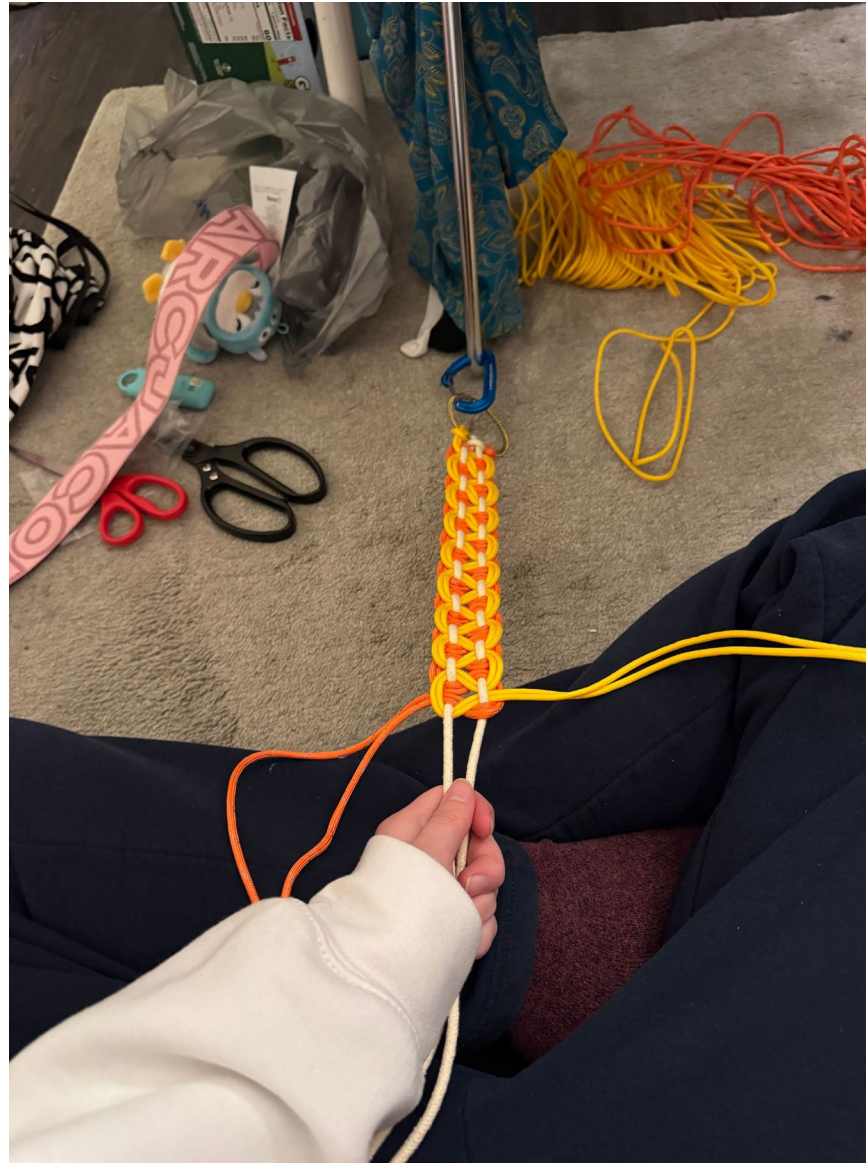
Amelia Massetti 6/27/26

Handle Weaving

Original Inspiration



ACCE 362 Prof. Bagry



Advanced Fabrication



Amelia Massetti 6/27/26

Inner Bag Construction



ACCE 362 Prof. Bagry



Advanced Fabrication

Amelia Massetti 6/27/26



ACCE 362 Prof. Bagry

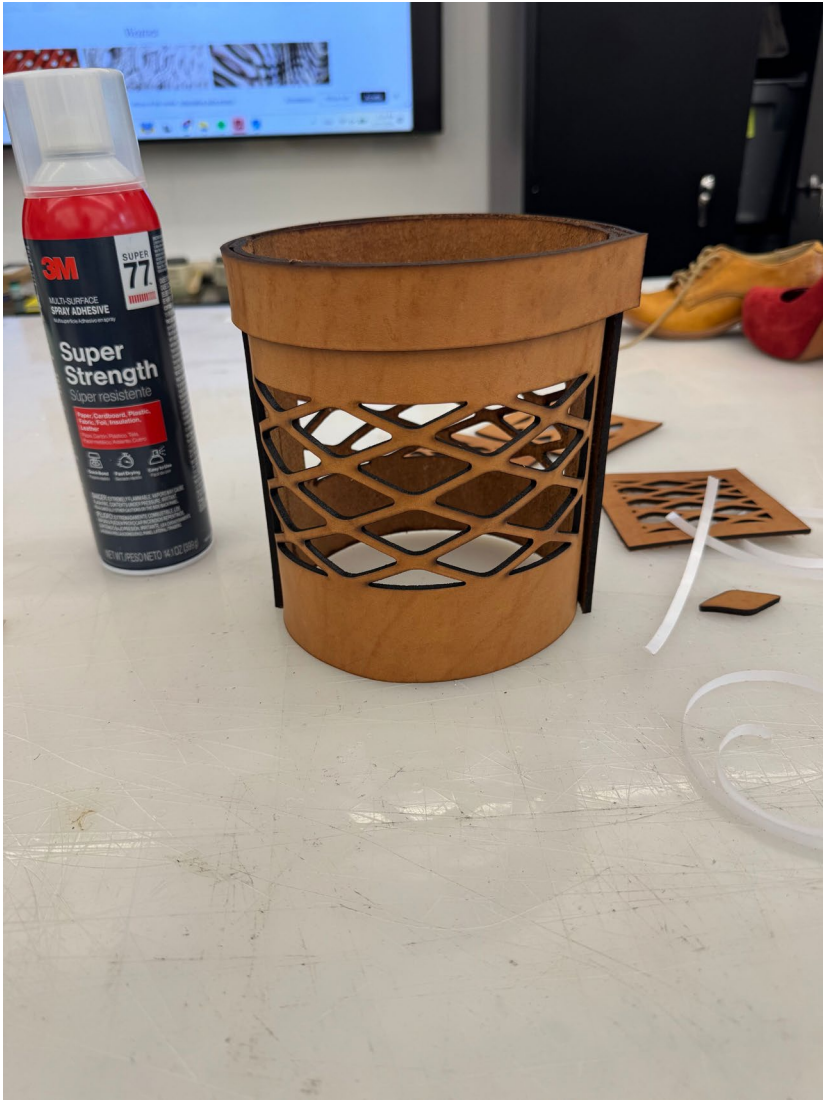


Advanced Fabrication



Amelia Massetti 6/27/26

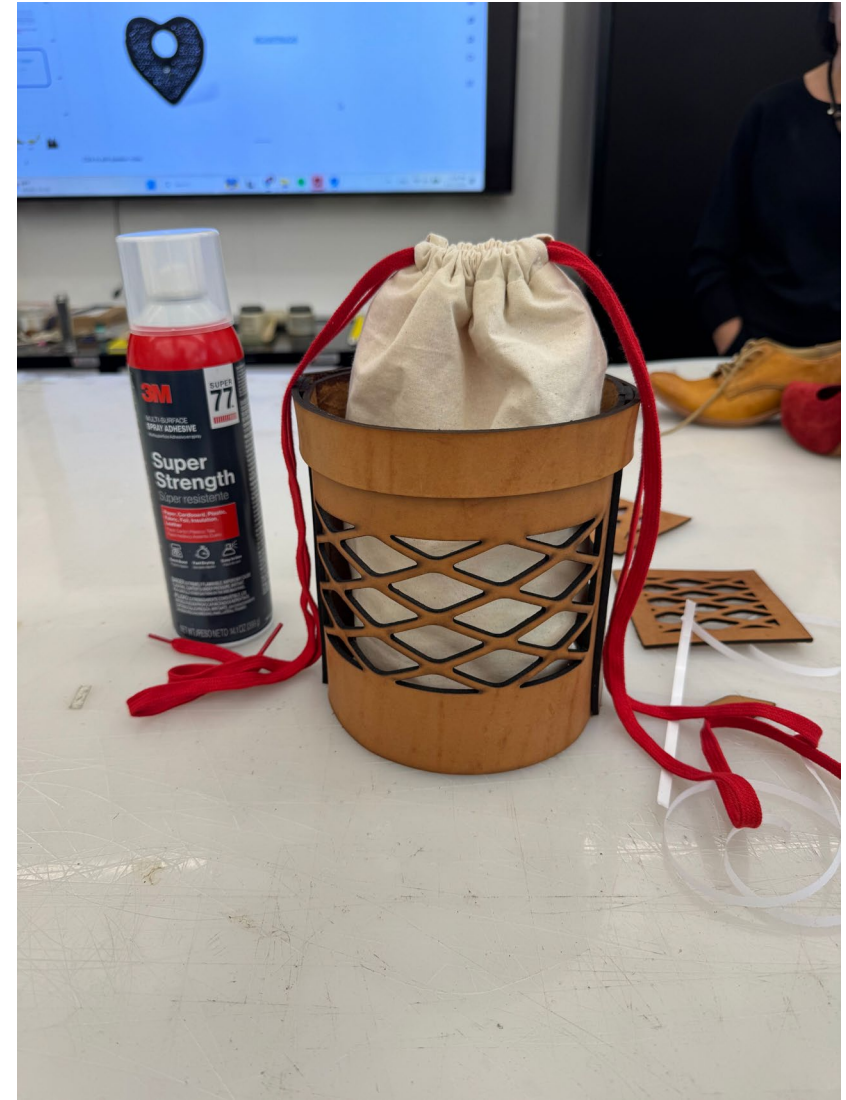
Leather Cage Construction



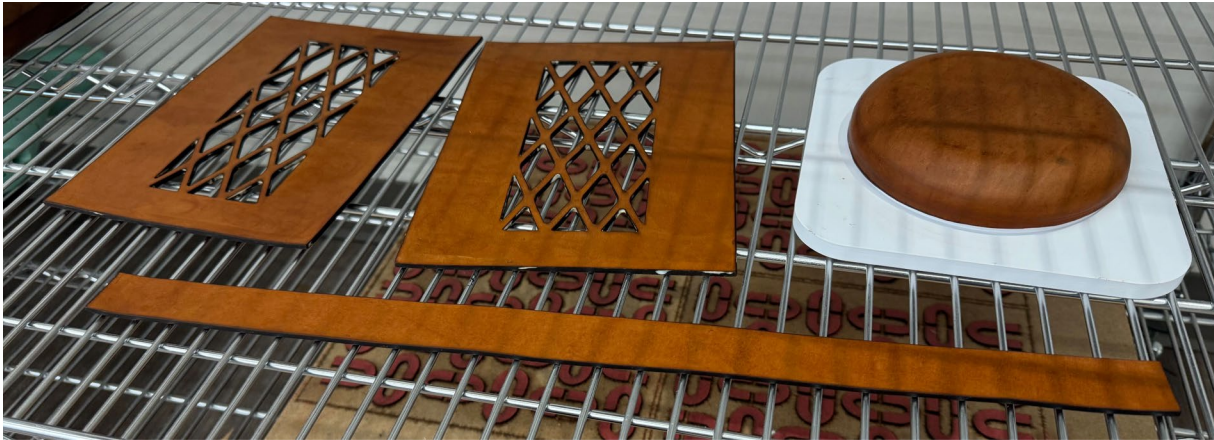
ACCE 362 Prof. Bagry



Advanced Fabrication



Amelia Massetti 6/27/26



ACCE 362 Prof. Bagry

Advanced Fabrication

Amelia Massetti 6/27/26



ACCE 362 Prof. Bagry



Advanced Fabrication



Amelia Massetti 6/27/26



ACCE 362 Prof. Bagry



Advanced Fabrication



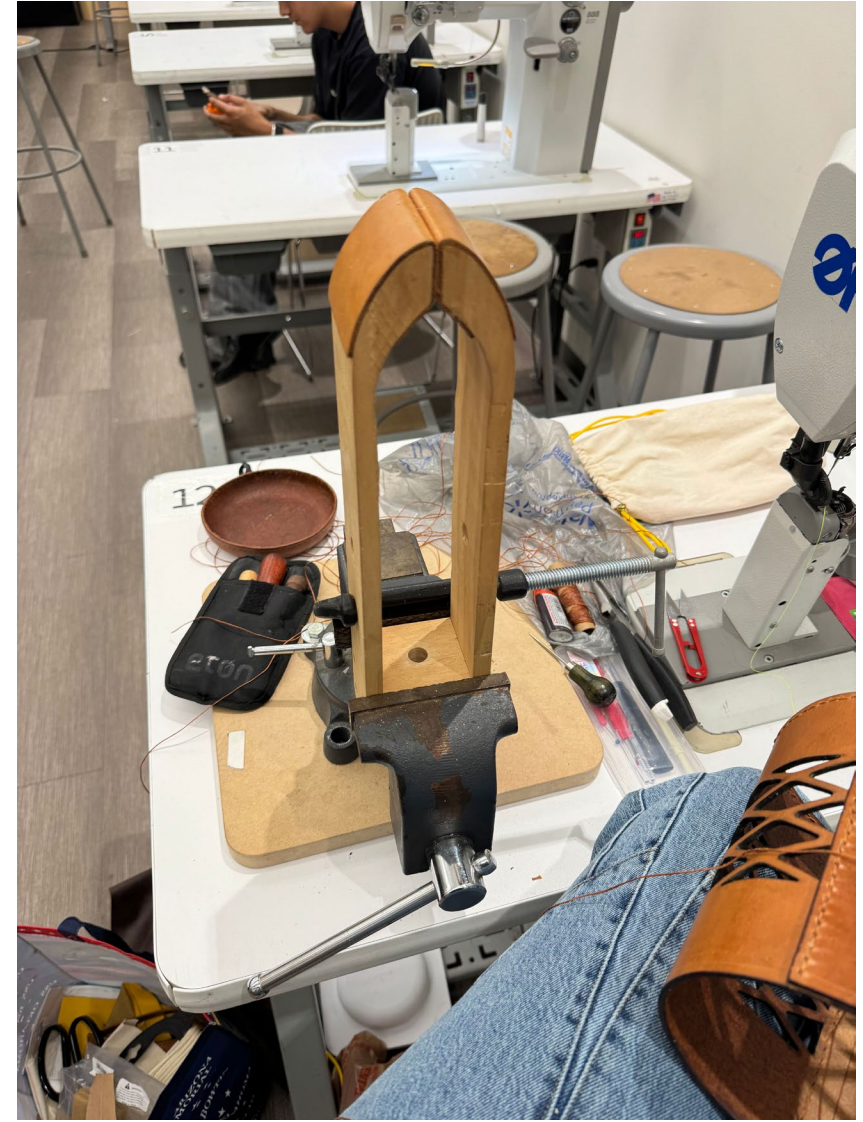
Amelia Massetti 6/27/26



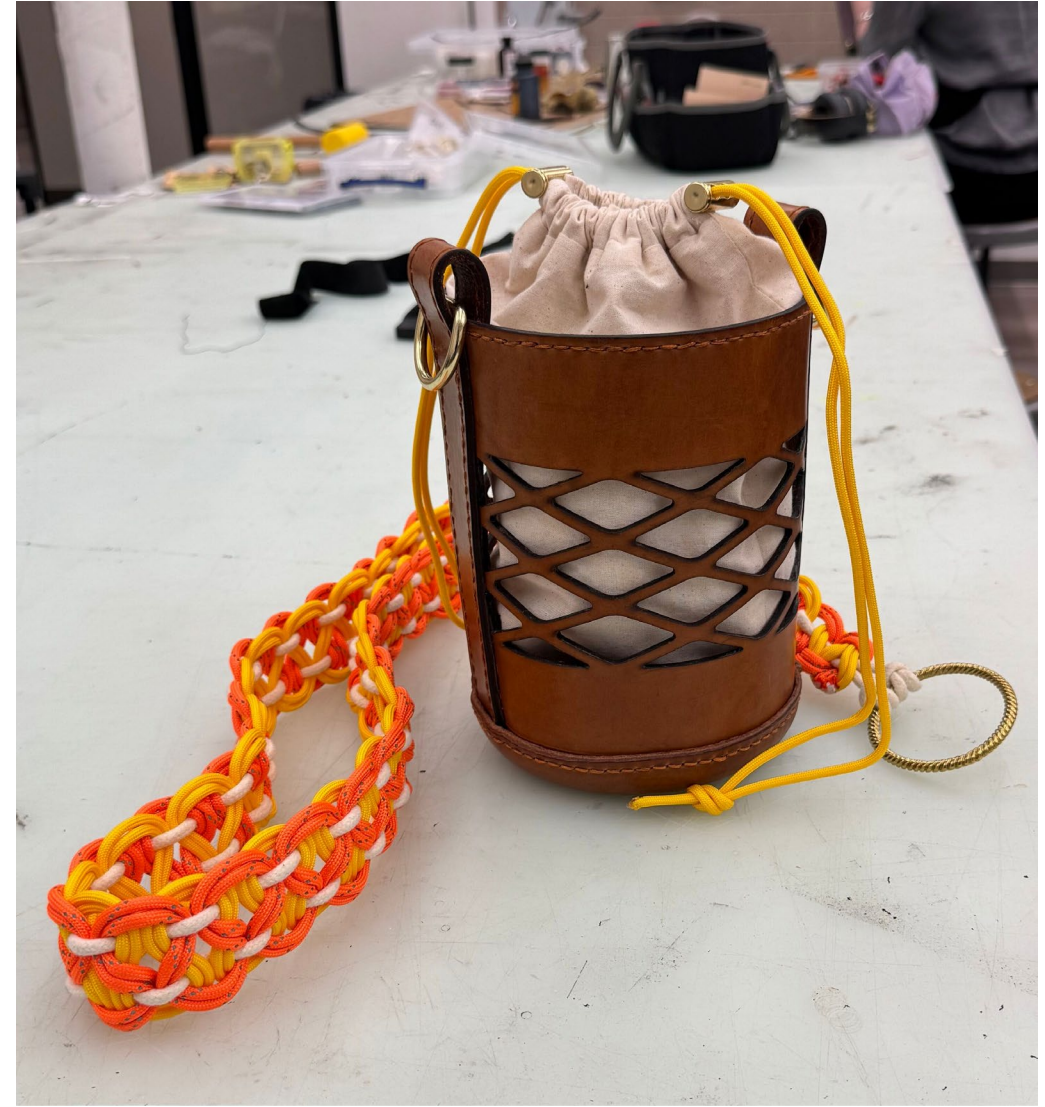
ACCE 362 Prof. Bagry



Advanced Fabrication



Amelia Massetti 6/27/26



ACCE 362 Prof. Bagry

Advanced Fabrication

Amelia Massetti 6/27/26

Final Images



ACCE 362 Prof. Bagry



Advanced Fabrication



Amelia Massetti 6/27/26



ACCE 362 Prof. Bagry



Advanced Fabrication

Amelia Massetti 6/27/26



ACCE 362 Prof. Bagry

Advanced Fabrication

Amelia Massetti 6/27/26



ACCE 362 Prof. Bagry

Advanced Fabrication

Amelia Massetti 6/27/26