



Dennis Siegert

Industrial Design



With a multicultural background that informs my critical process, my goal is to employ design to benefit people and create a better world.

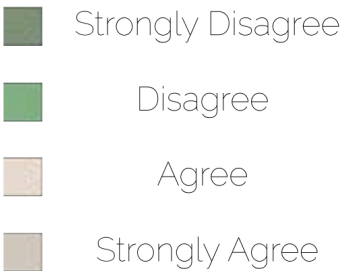
## Table of Context:

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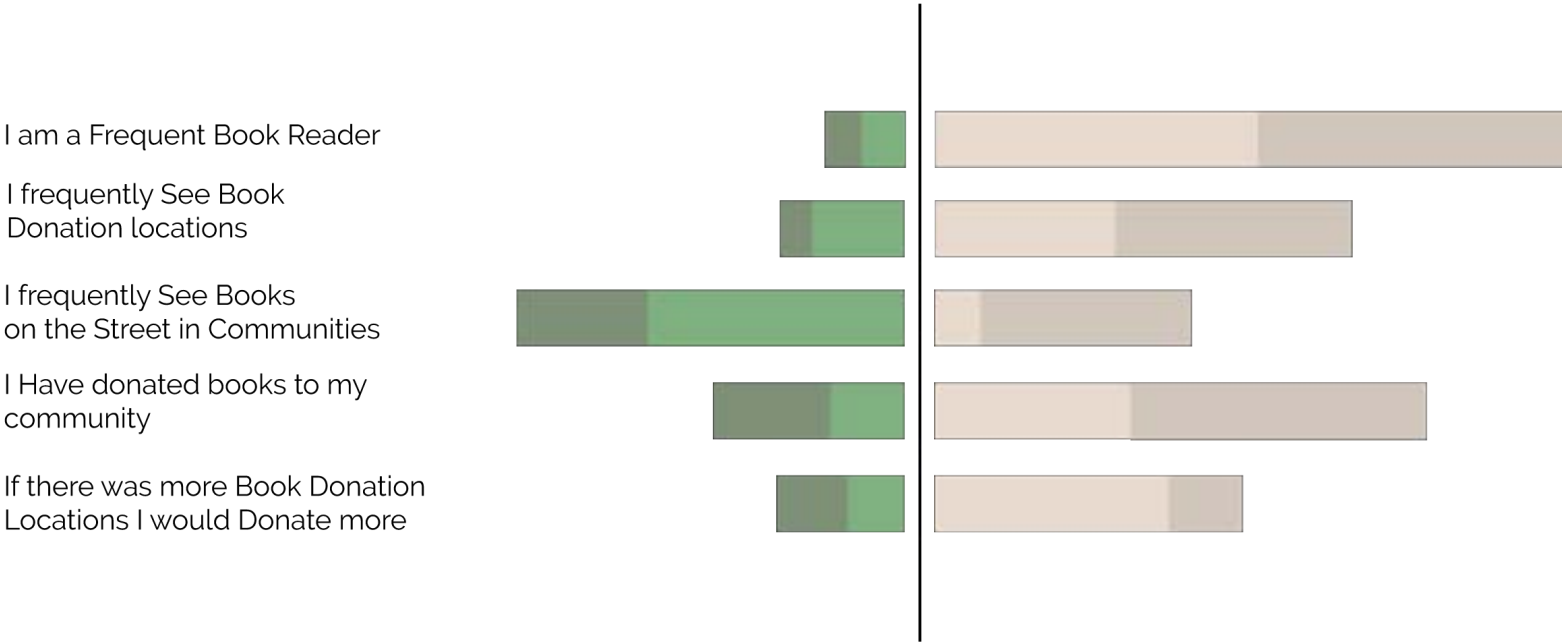


# Background Research:



## Results From Survey

Results conducted from Interviewing 32 random people in New York



After living in New York for almost four years, books are often seen left out on the street given for people to take. They are often seen in a little box or just left on the street for the taking rather than donating them because of the limited number of locations you can donate books. Due to bad weather many of these books are often thrown out rather than donated to those who can use these books.





## Observing Outside

From looking at people reading outside and also seeing how books are left on the street, the direction of the project was to go into designing a public bench where people can sit, read books, and be able to donate books as well.

# Precedence Studies

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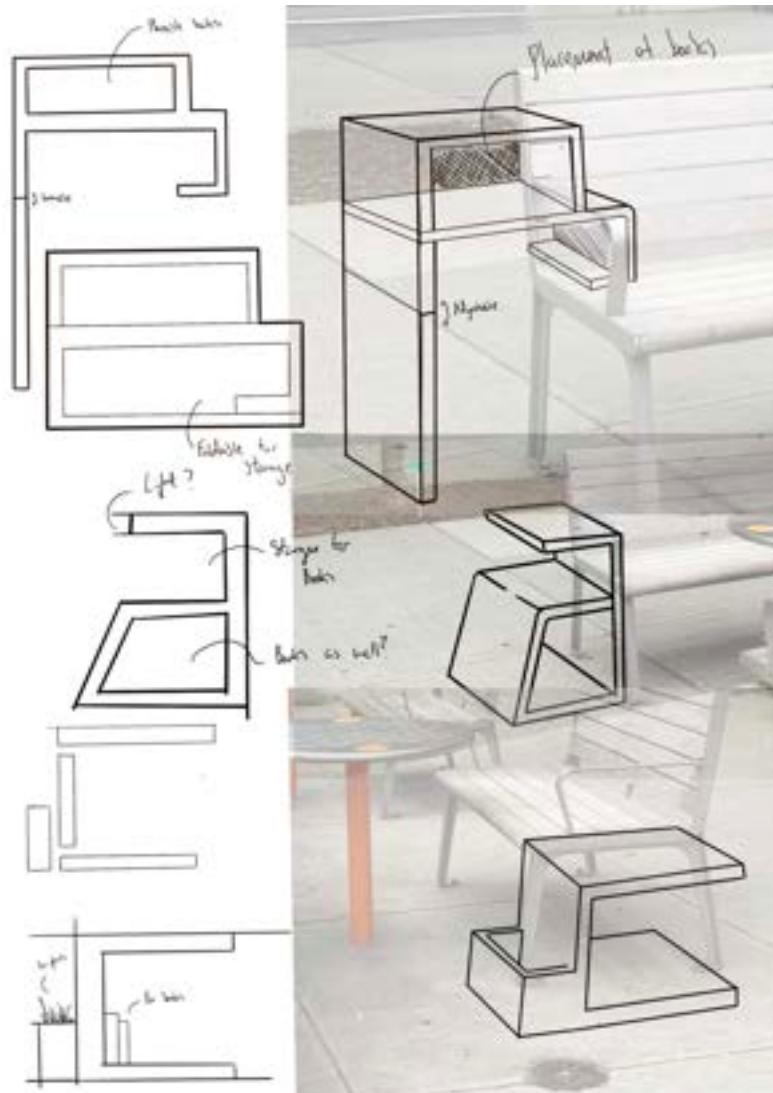


## Project Strategy

To create a small location where people can go and donate books, while being able to stay at the location and be able to sit and read there. This is to build a sense of community.

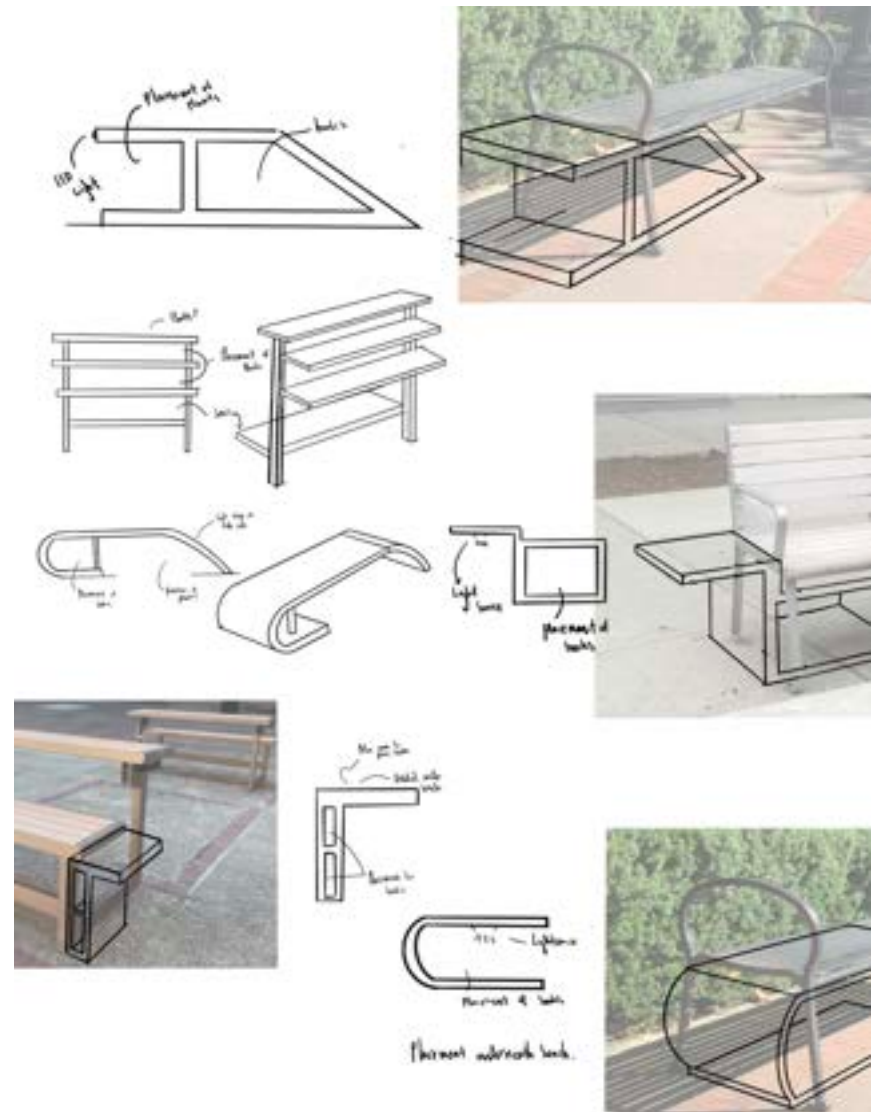


# Ideations



### Phase 1:

Thinking of Attachments rather than designing a completely new bench



Phase 2:

Thinking of addition of other uses, possibility of using light or plant protector





## Early Prototypes



Phase 1:

Designing around the Bench. Finding out how to add on already existing benches



Phase 2:

Designing a working shelf to use in public space rather than the seating aspect.



### Phase 3:

Focusing on the seating aspect in regards more towards the people and to initiate reactions among each other.



### Phase 4:

Focusing on the interaction aspect between people. Addition of a use of a table to help promote people to interact with the space.



## Cardboard Prototype

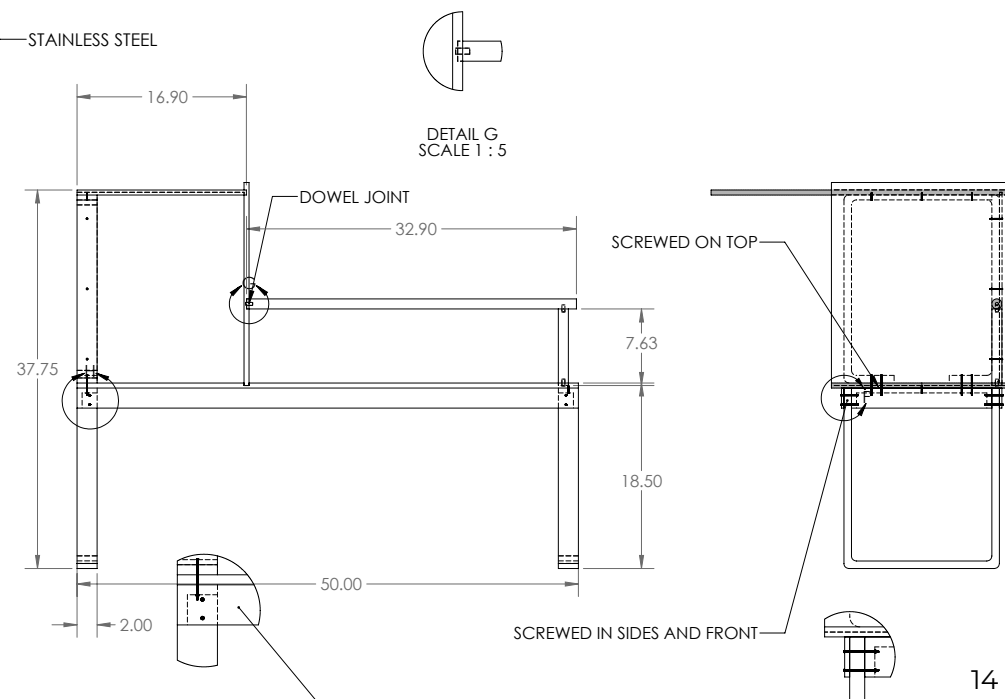
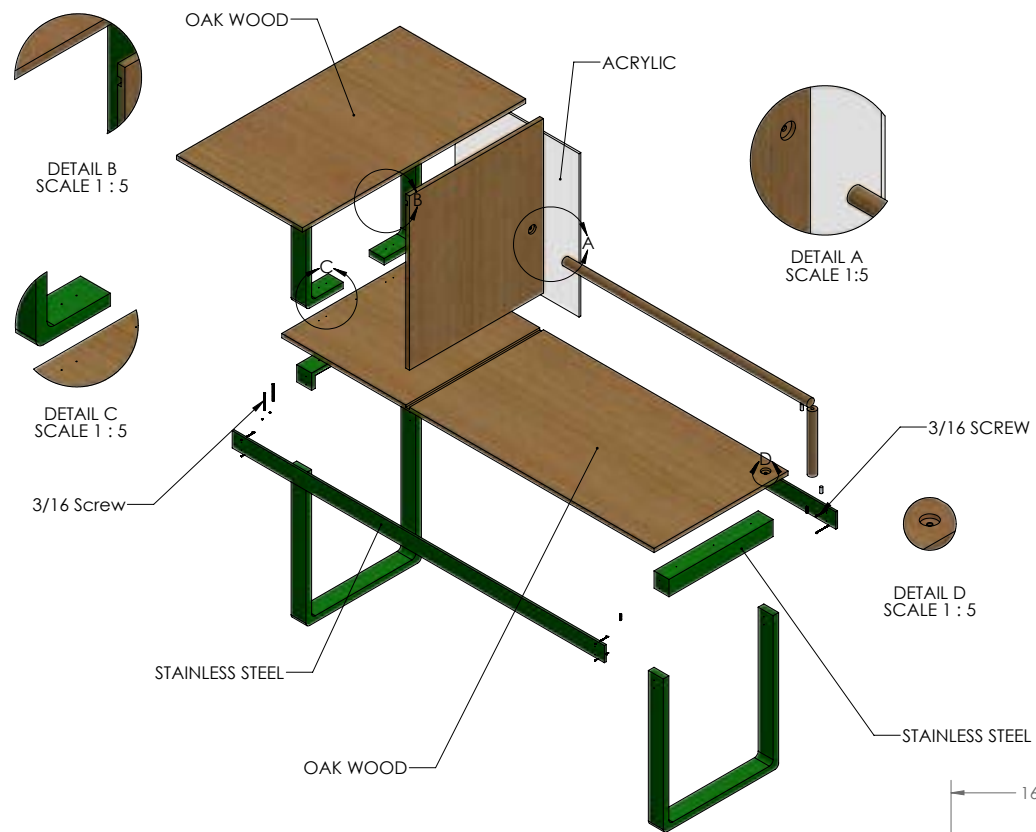


Making a full scale prototype out of cardboard to fully understand the scale and size. From early prototypes, it was further developed as people working on the table was able to interact with those who are sitting on the bench.



Final





## Technical Drawings



# Process



## Step 1:

Bending Metal to Become support for the Bench



## Step 2:

Drilling Holes into the metal to connect everything together with machine screws



## Step 3:

Base combination of the bent metal with the addition of the Support.







## Marketing Research:



### Common Website, ECOM, ETSY:

Average Cost: \$19-25 Dollars

Material: Standard Industrial Felt to leather

Customer Focus: Durability, Travel Friendly



### Amazon:

Average Cost: \$80-100

Material: Standard Industrial Felt to Leather

Customer Focus: Craftmanship, durability, travel Friendly



### Kickstarter:

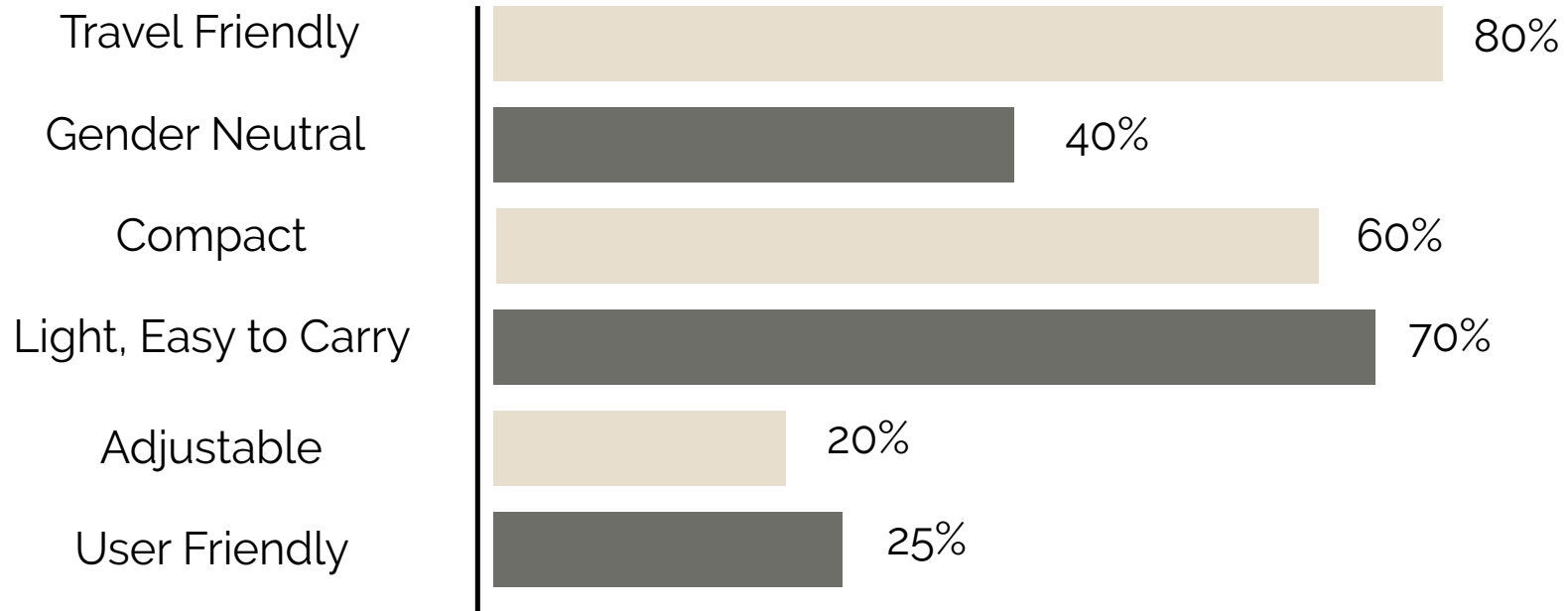
Average Cost: \$85

Material: Generally Felt or leather

Customer Focus: Travel Friendly, durability

## Customer Research:

Based on 36 People



## Research:

Based on research, customers wanted a bag that was more travel friendly because of the anxiety of travel. Based on anxiety from security, the goal was to help reduce the stress and make the bag compact and organized

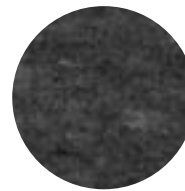
## Material Cost:

Webbing



\$7.50 per 10 yards

Industrial Felt



\$21 per sheet (54x54)

Vegetable Tanned Leather



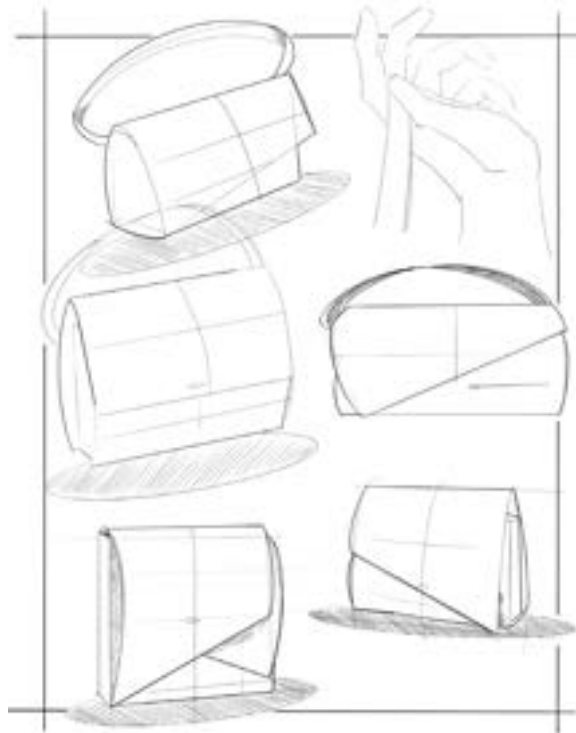
\$20 per sheet (54x54)

Metal Buckle



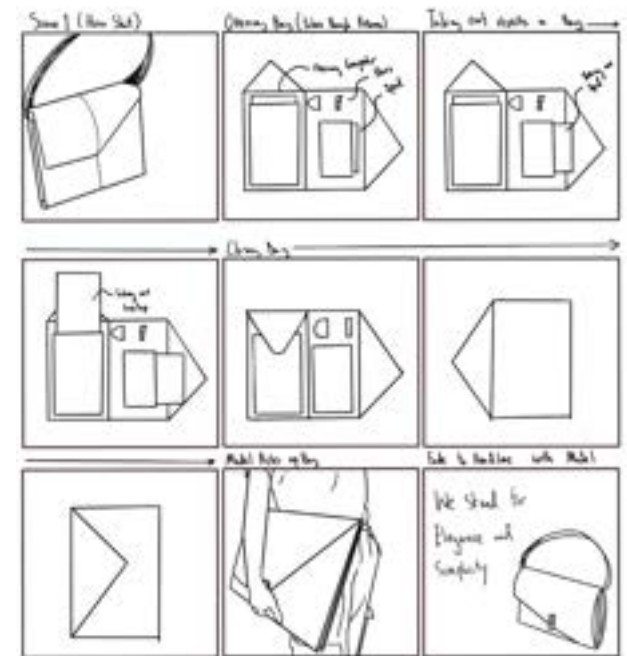
\$5 per Piece

## Ideations



Sketching Concepts that aims towards the style that we want in the design. Depictions of how we want the bag to open, as well as how we want it to be carried.

Storyboard (1):



Final



Inside:

Compatible with all MacBook and iPad Sizes





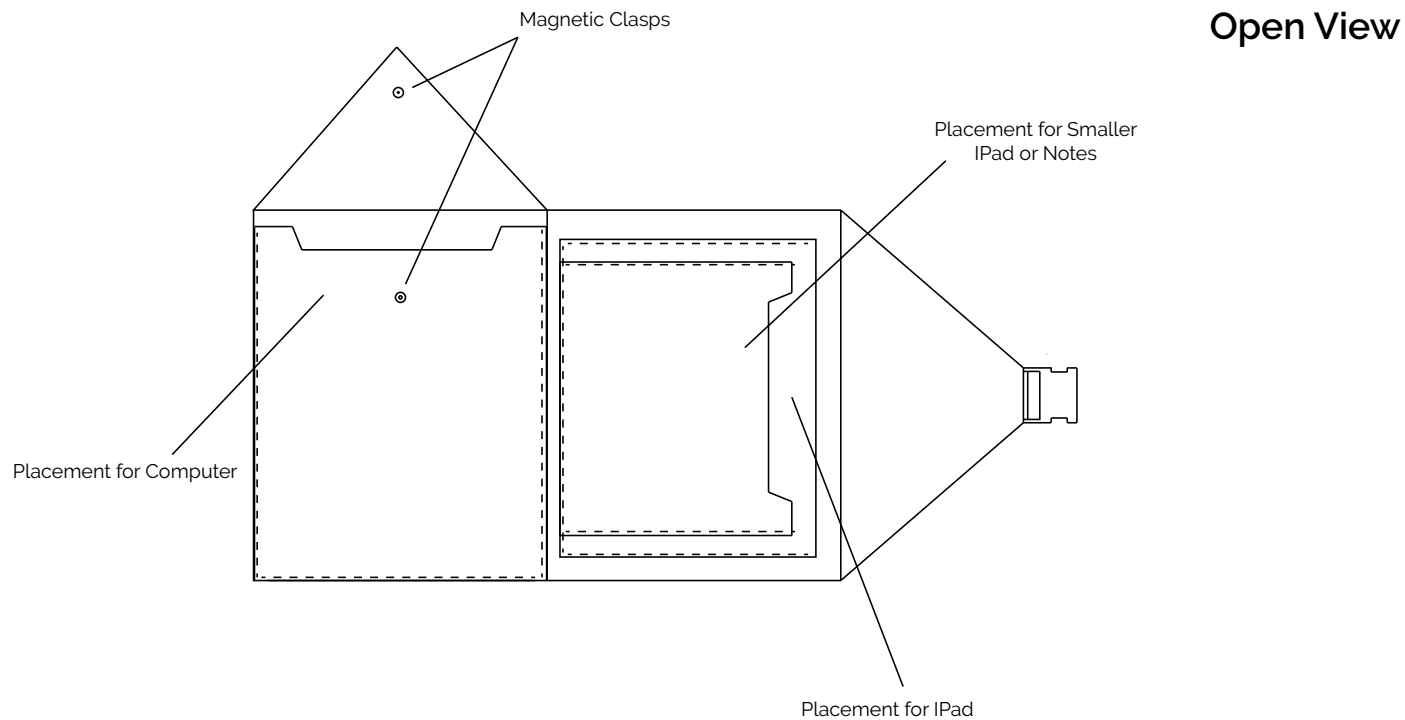




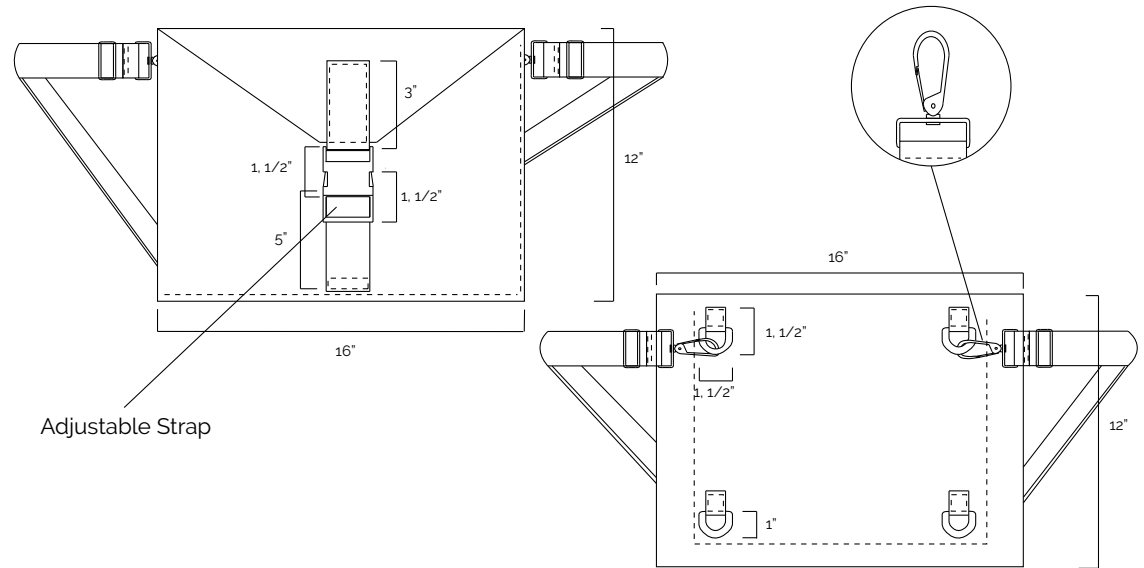
## Adjustable to Wear:

Giving customers the ability to wear the bag however they want to

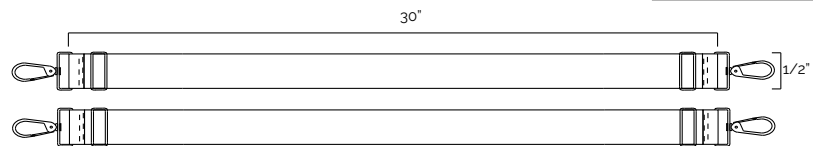




## Outside Dimentions



## Technical Drawings

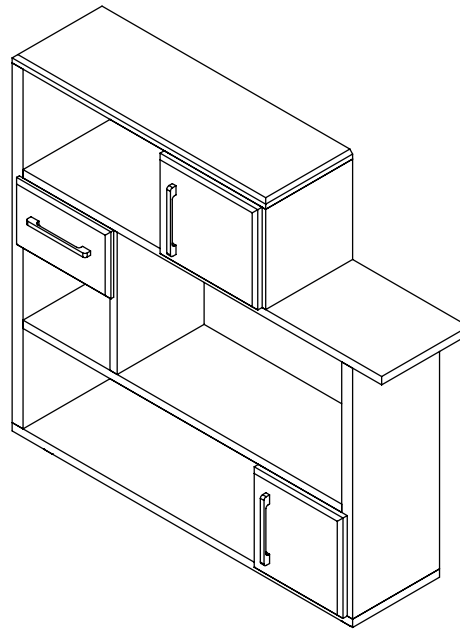
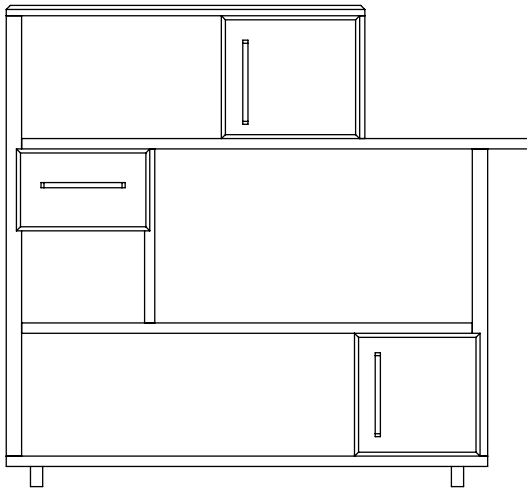






## Goals:

- Simplicity
- Geometric Fluidity
- Implementation of Space and Form



Since young reading has been a hobby of mine and it has been a tradition of buying and collecting books. Creating the traditional mindset of how shelves were built, the design is made to create a sense of space.

# Final

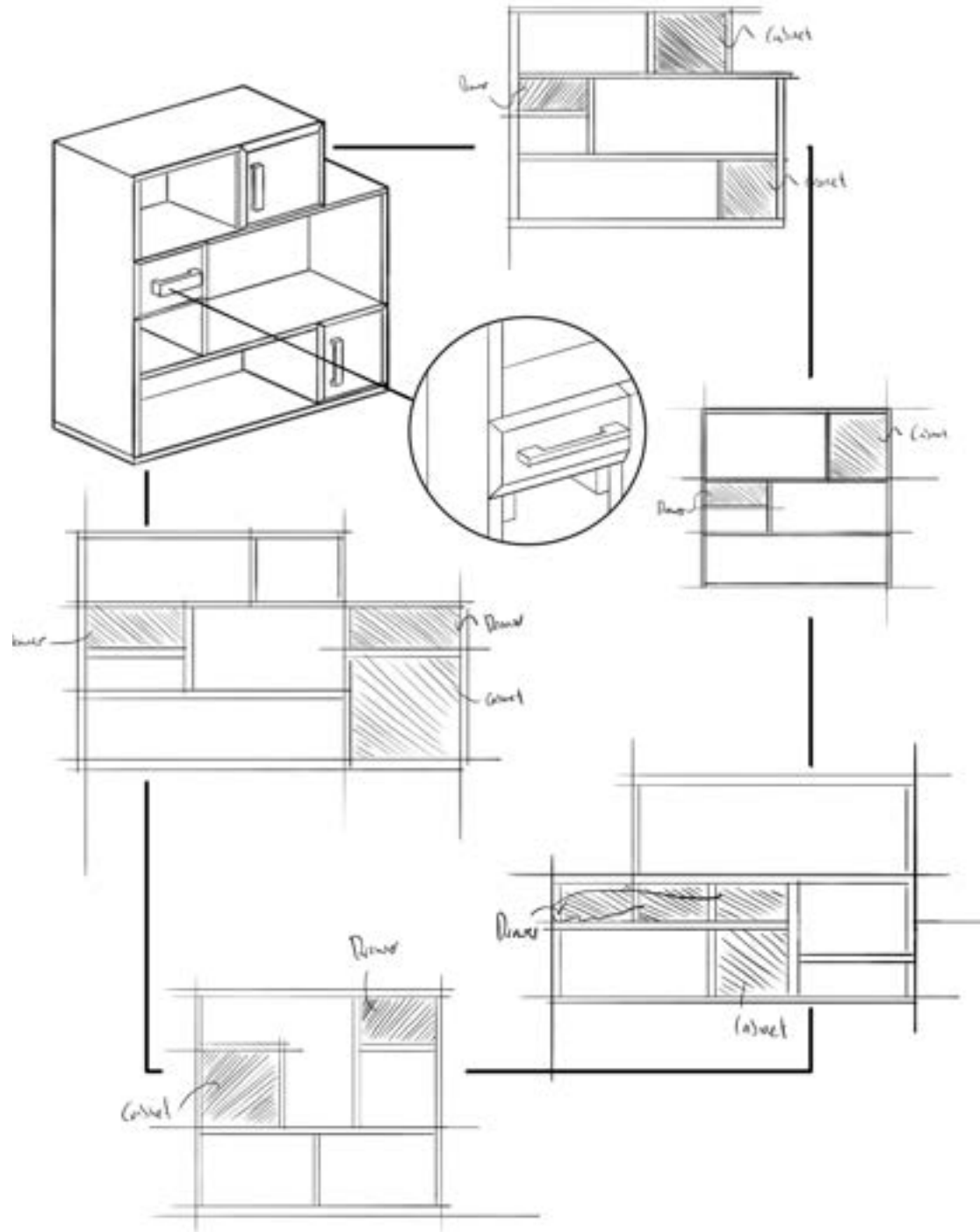






# Ideations

Observing traditional ways of how a shelf is made and through that create ideations of shelves into a more modern perspective.



## Process



Using Cherry wood, I cut each one to the dimensions that I wanted according to my drawing, sanded each one and used wooden dowel joints to set them together. I then used natural wood oil to show the naturalness of the wood.



**SHUTZ**

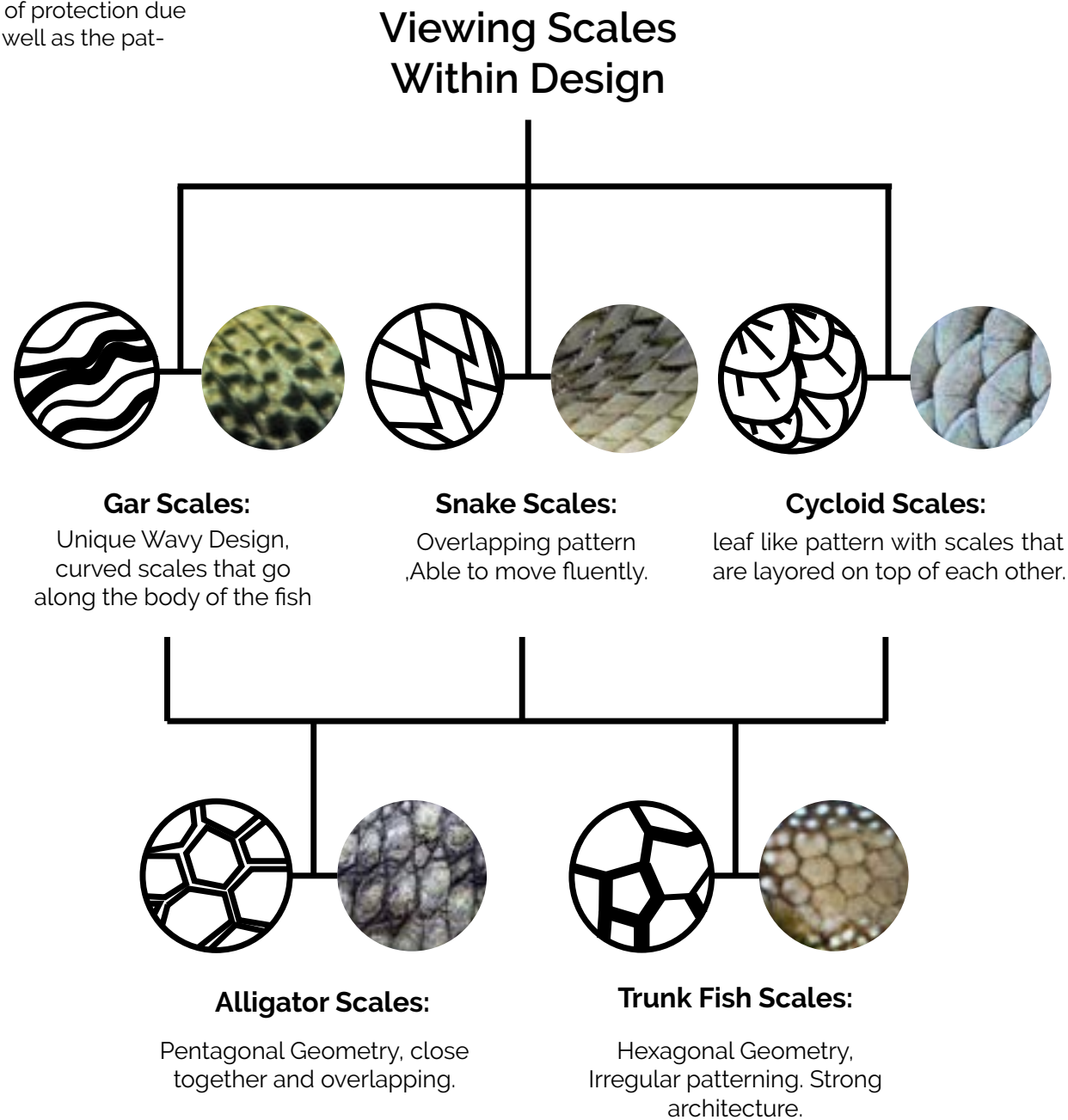
Protective Glove, solo project

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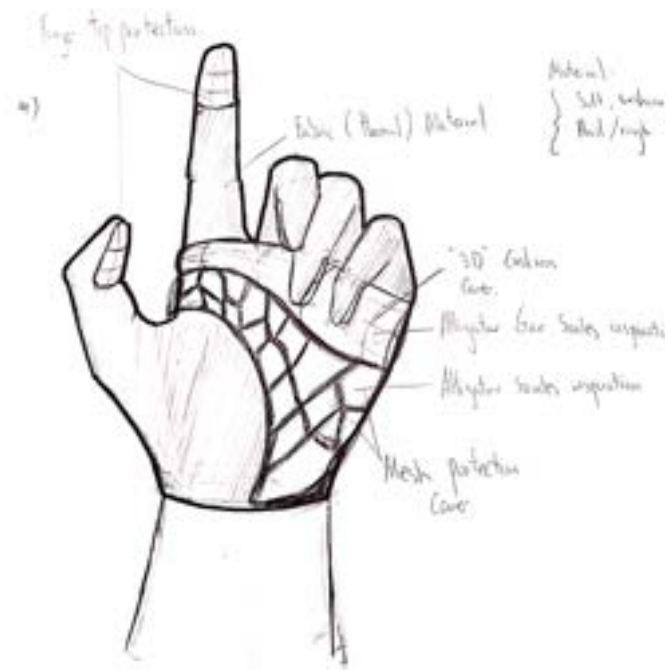
# Background Research:

Research of Scales as forms of protection due to the architectural forms as well as the patterns it creates.



# Ideations

\* Sport / Fashion Considerations.



Attachable / Detachable

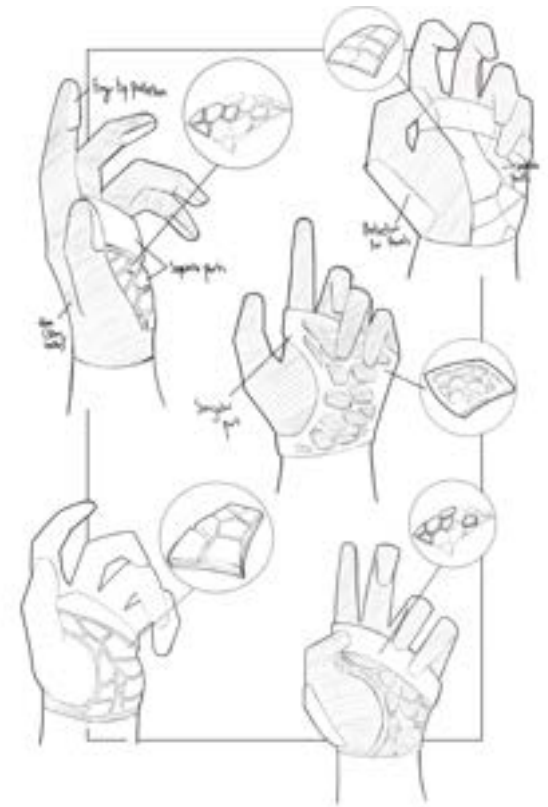
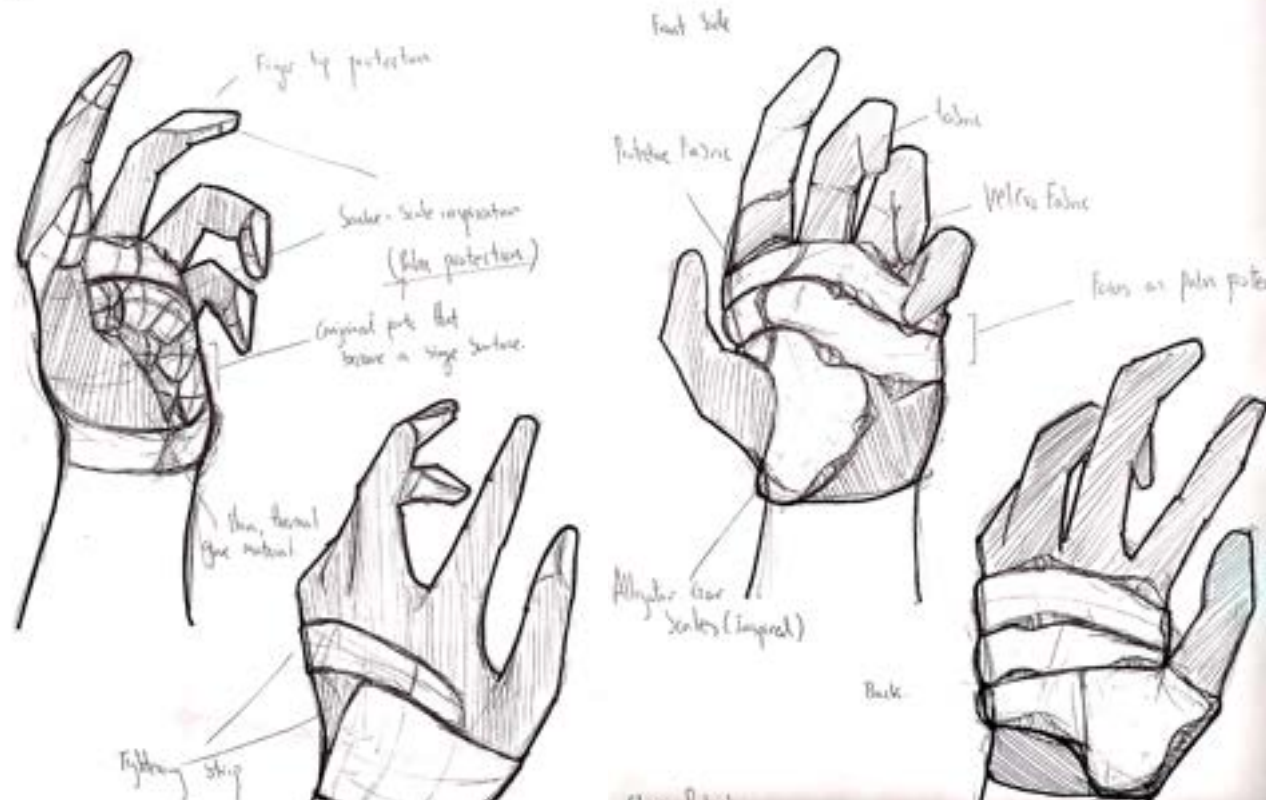


3) Single Part and two multiple fragments joined / glued into the cloth



## Goals:

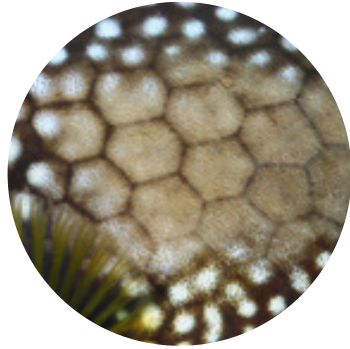
To create a glove designed for extreme sports such as skatebaorders and snowboarders that has a simple and natural design. From experience, the user uses the palms as a way to help prevent the fall



### Goals:

Ideation phase was used to observe the ways of applying the scales on the glove. This also gives questions such as how can they be applied to create the best protection while maintaining a light feel.

# Prototyping

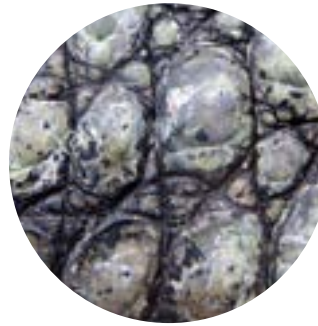


## Prototype 1:

Exploring the Negative Space of the scales of the Trunk Fish. Develop them into plating that folds and crosses to the back.







**Prototype 2:**

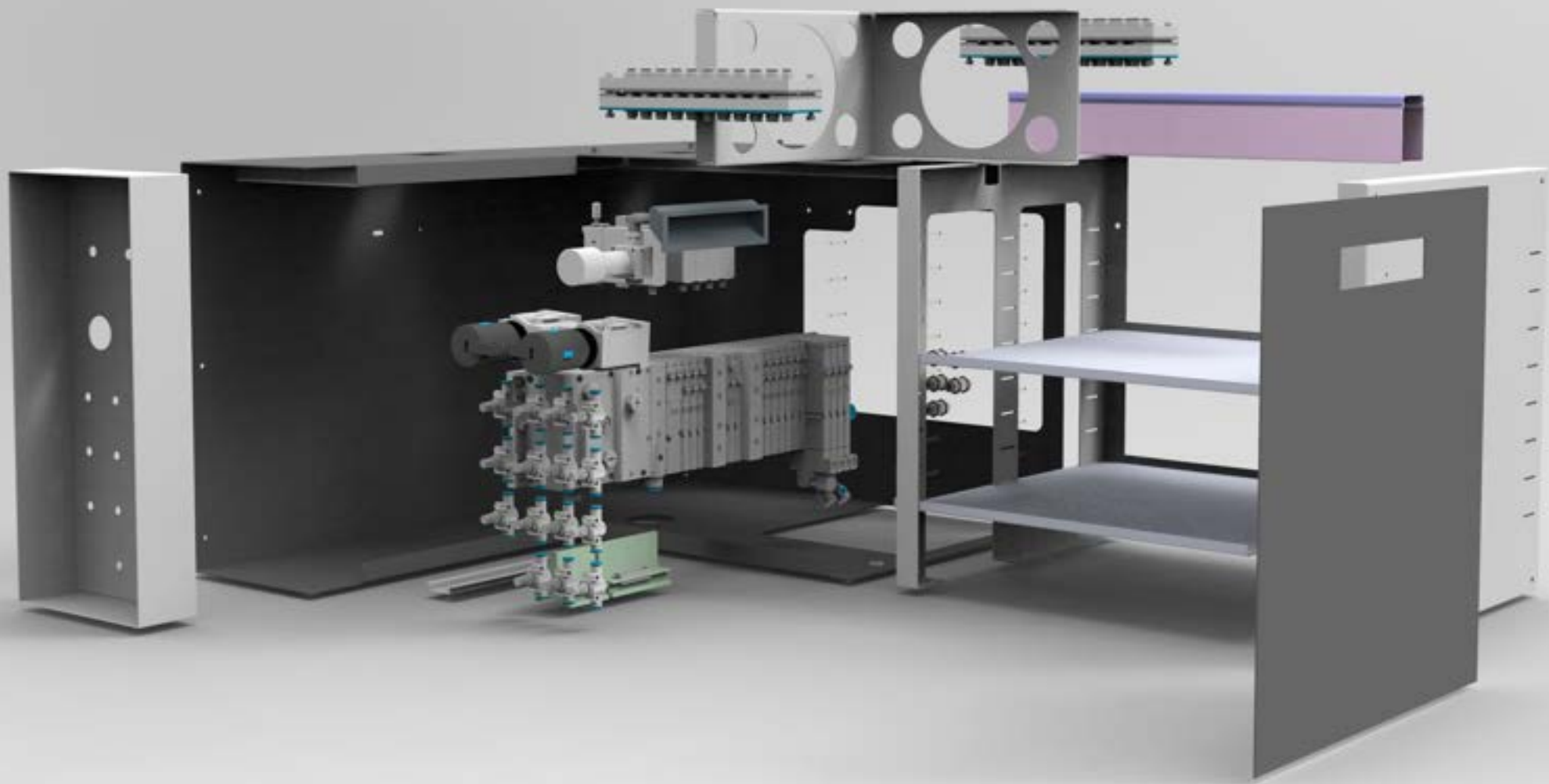
Exploring the Postive Space from Alligator Scales and developing them into plating that is swen on



Final  
Prototype







**SUSS MicroTech** /

Summer 2019

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## Description:

Work for SUSS Microtech, which included the development of a Monitor stand and a pneumatic unit.



## Achievements:

1. Cooperation in the of a pneumatic cabinet according to the specifications of the project manager
2. Creation of Production drawings
3. Creation of assembly drawings
4. Cooperation in the conception of an HMI (Human-Machine-Interface) taking into account aesthetics, ergonomics, costs, and production

