Week 4 Design Goal

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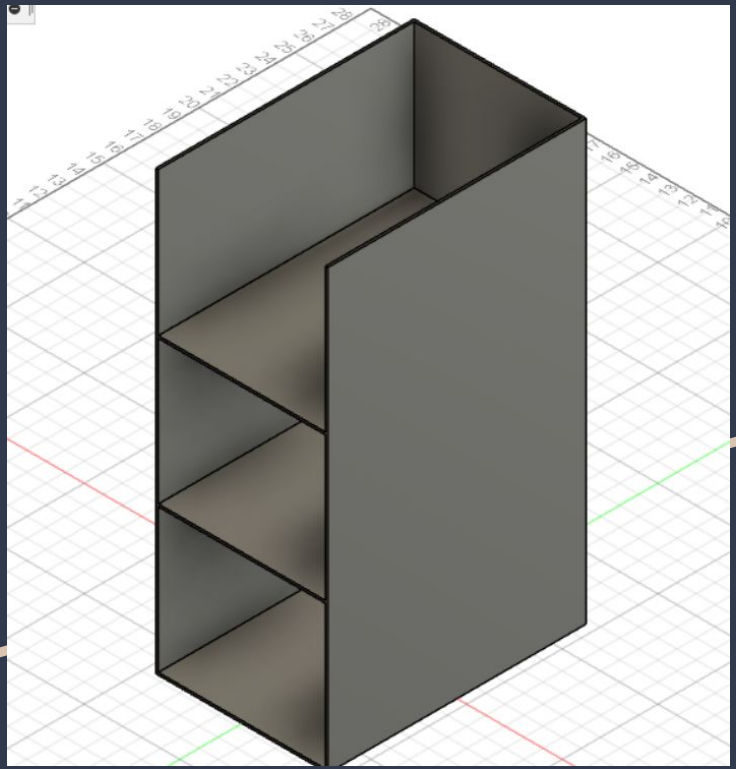
Slabs and the Box



1) Rather than build individual slabs, our group opted for building an entire internal box with a floor and two separate slab shelves

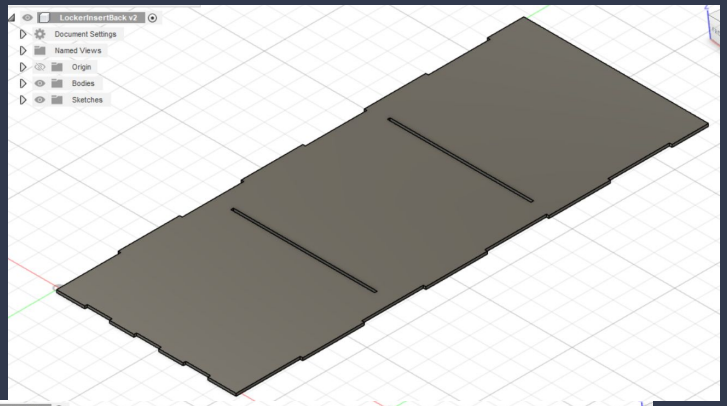
- This allows us to pull the project out of the locker to work on it
    - Work is on the top shelf and is hard to work on otherwise
- Protects the locker by containing the project

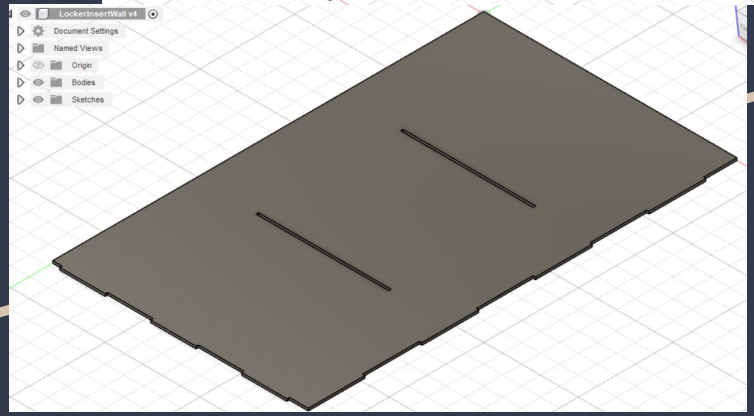
2) The entire box is 9 in x 13.5 in x 22.9 in

3) The slabs are rectangles and reflect the shape of the locker

4) The locker will be made out of sheets of ⅛ in acrylic cut into a “jigsaw” pattern to fit together with minimal adhesive

Materials and Details





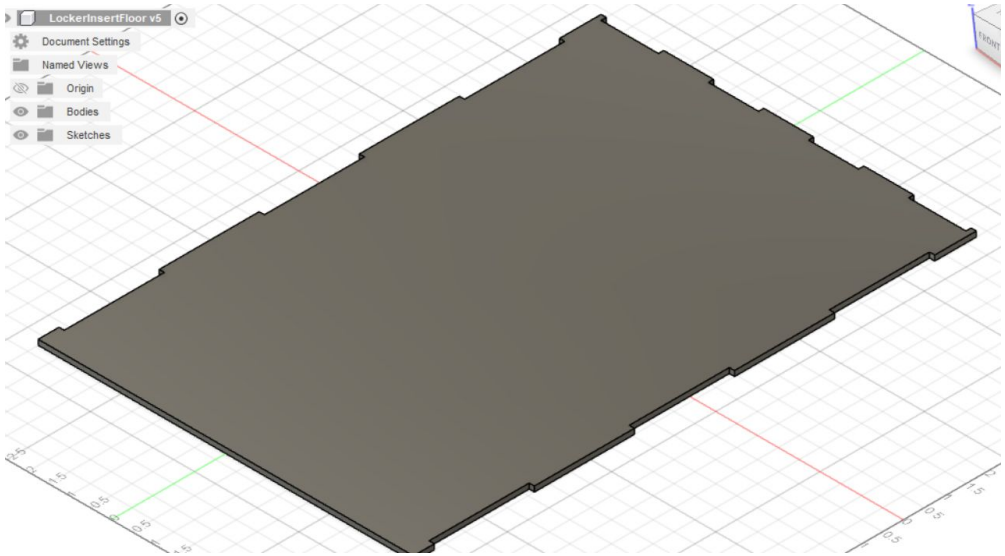
5) The six pieces of the locker will be laser cut out of acrylic. However, an initial prototype will be made out of cardboard using the exact same laser files. This will ensure that the measurements for the acrylic are accurate.

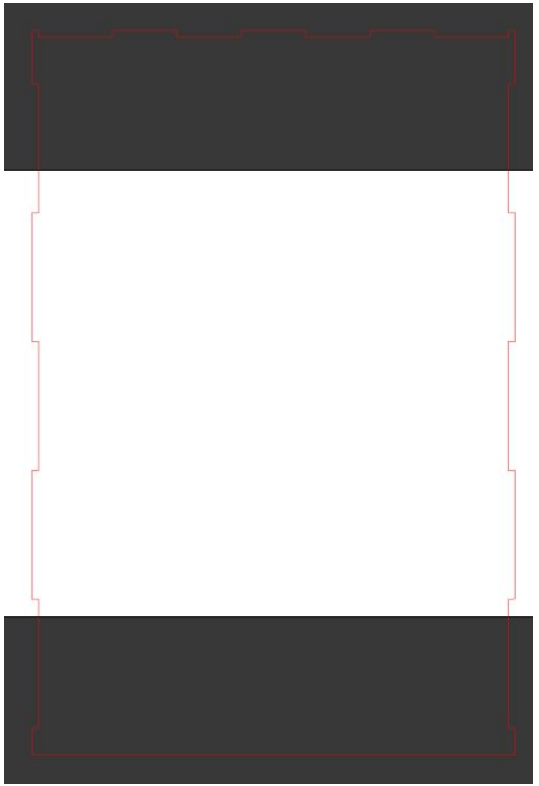
6) There will be no mounting system as the internal box will just be sitting inside on the floor of the locker

7) We believe that the slabs will safely hold around 15 pounds. This is based on similar products made of similar materials online.

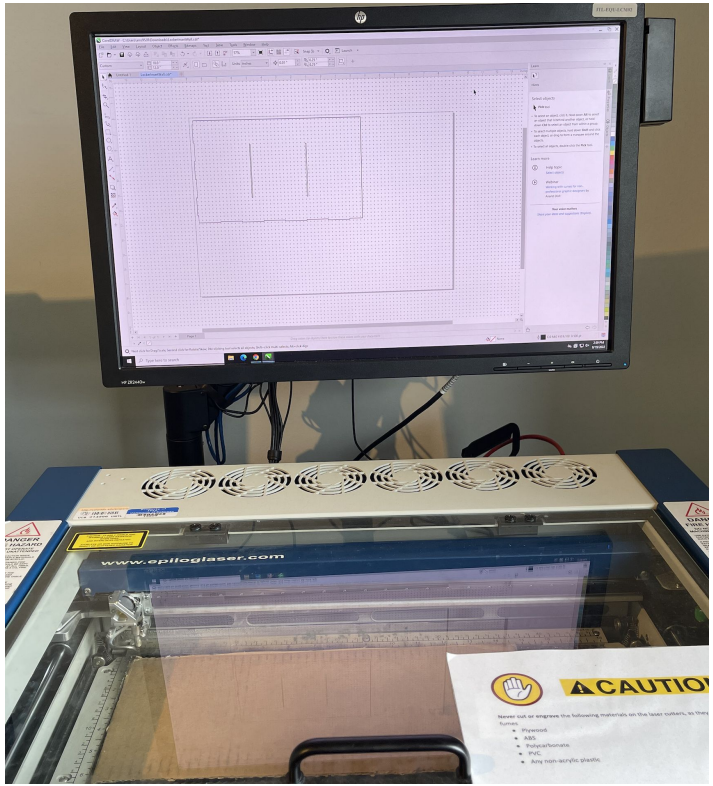
8) If mini people lived in our world, they would require vehicles, similar to the ones that will be in the display. Since the display takes place in the ocean and underground, boats, submarines, and drill rigs would be a must to navigate our world.

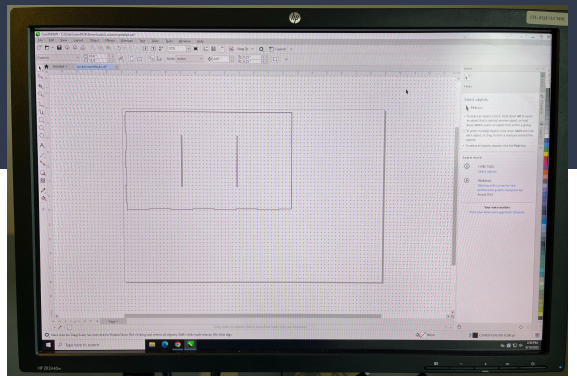
Fusion to Laser Cutter

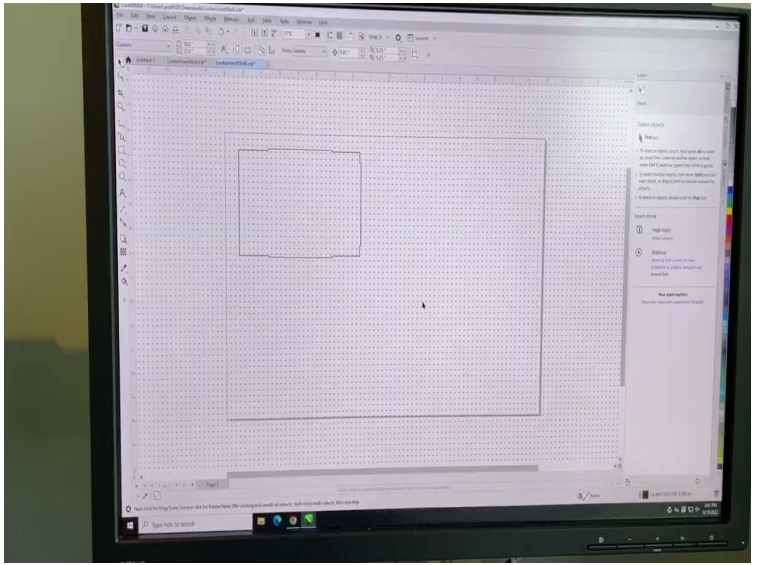




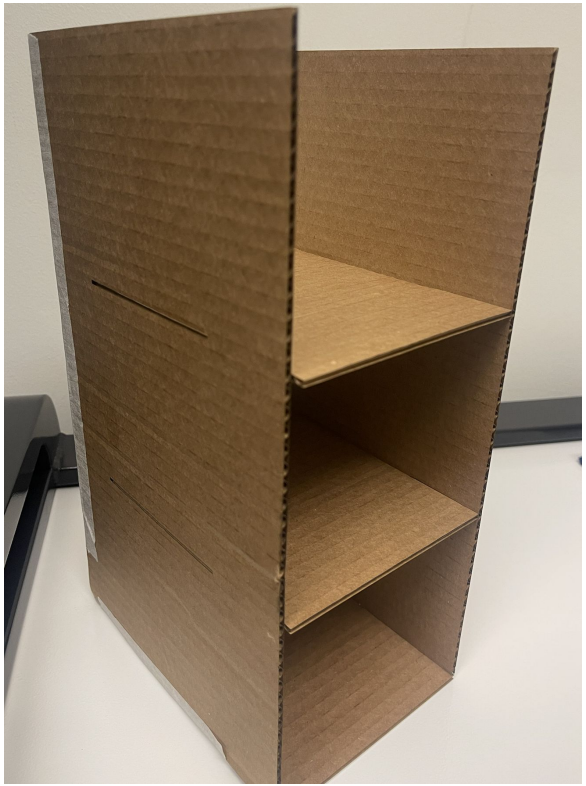
Building in Progress

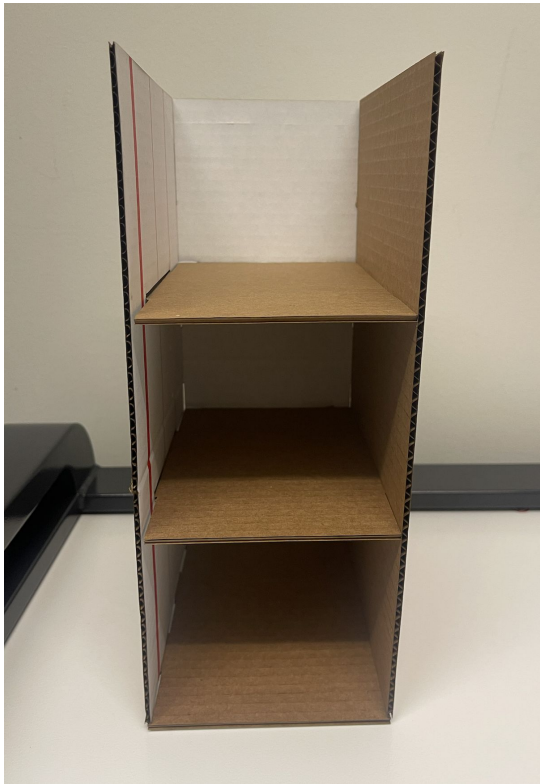






Cardboard Prototype





Reflection

9) We enjoyed being able to bring a part of our concept to life and problem solving any issues we encountered.

10) We found it difficult to think of how we could fit in separate pieces of our project into the locker. Instead, we thought of an idea to make a box so it can slide in and out easily without having pieces getting detached.

11) Something that really worked was our box idea and we were able to easily accommodate our measurements so our box would fit.

12) If we were given another chance to do it again, we would have built more prototypes of different designs to test some of our earlier ideas