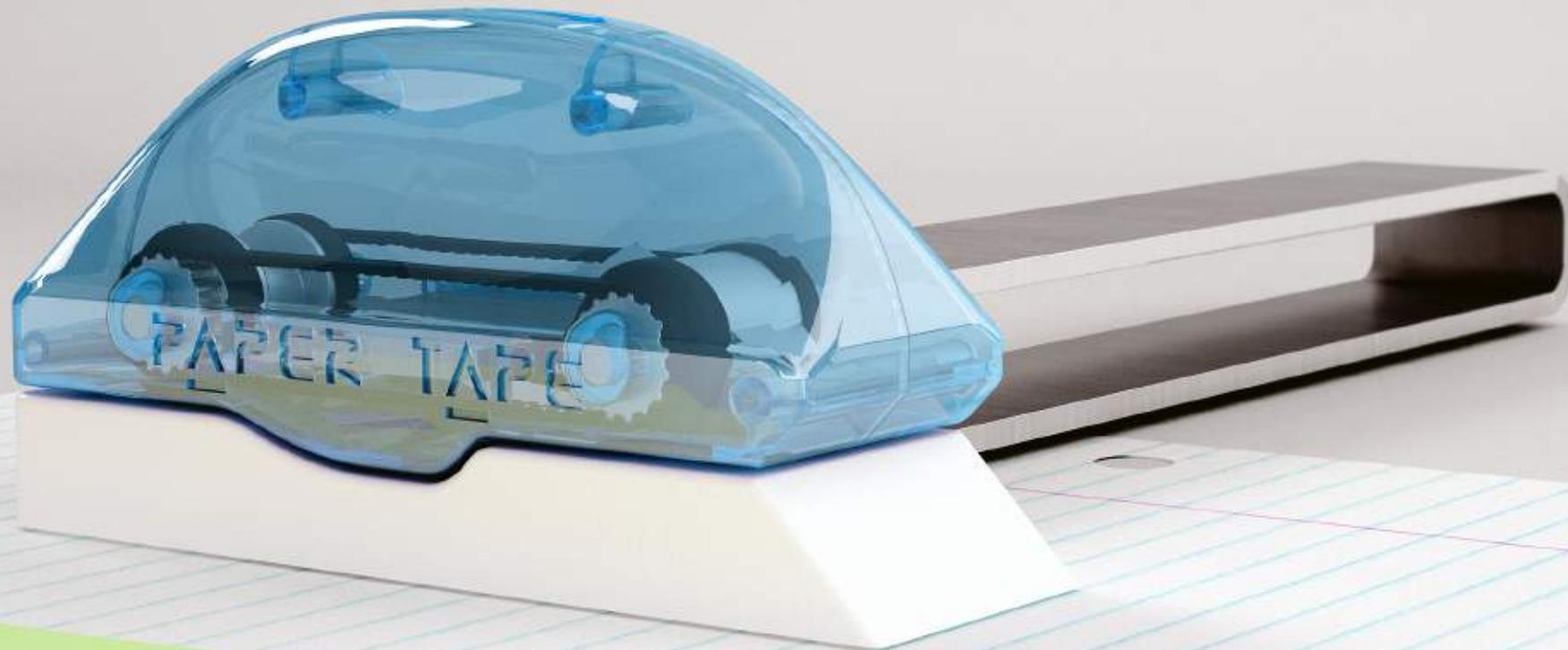


PAPER TAPE

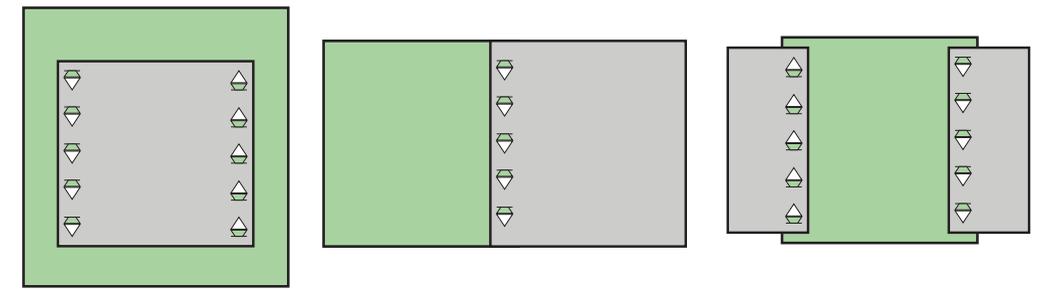
Secure paper together without extra fasteners and materials.



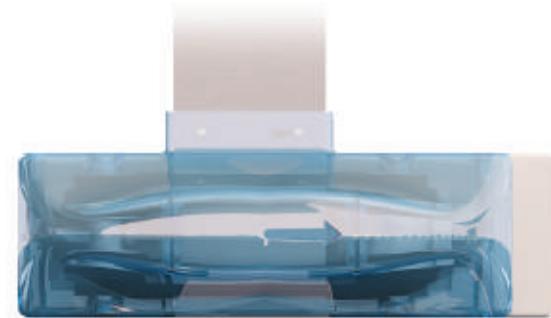
The Paper Tape uses a three part mechanism to secure paper sheets together, allowing for a more sustainable alternative to fasteners such as tape. The three stages are cutting, folding and tucking, leaving a secure joint using only the material put in.

The design features an injection moulded upper and lower plastic body, accurately aligning the internal rolling mechanism. An aluminum support guard extrudes from the side of the body to confirm proper alignment between the upper and lower body.

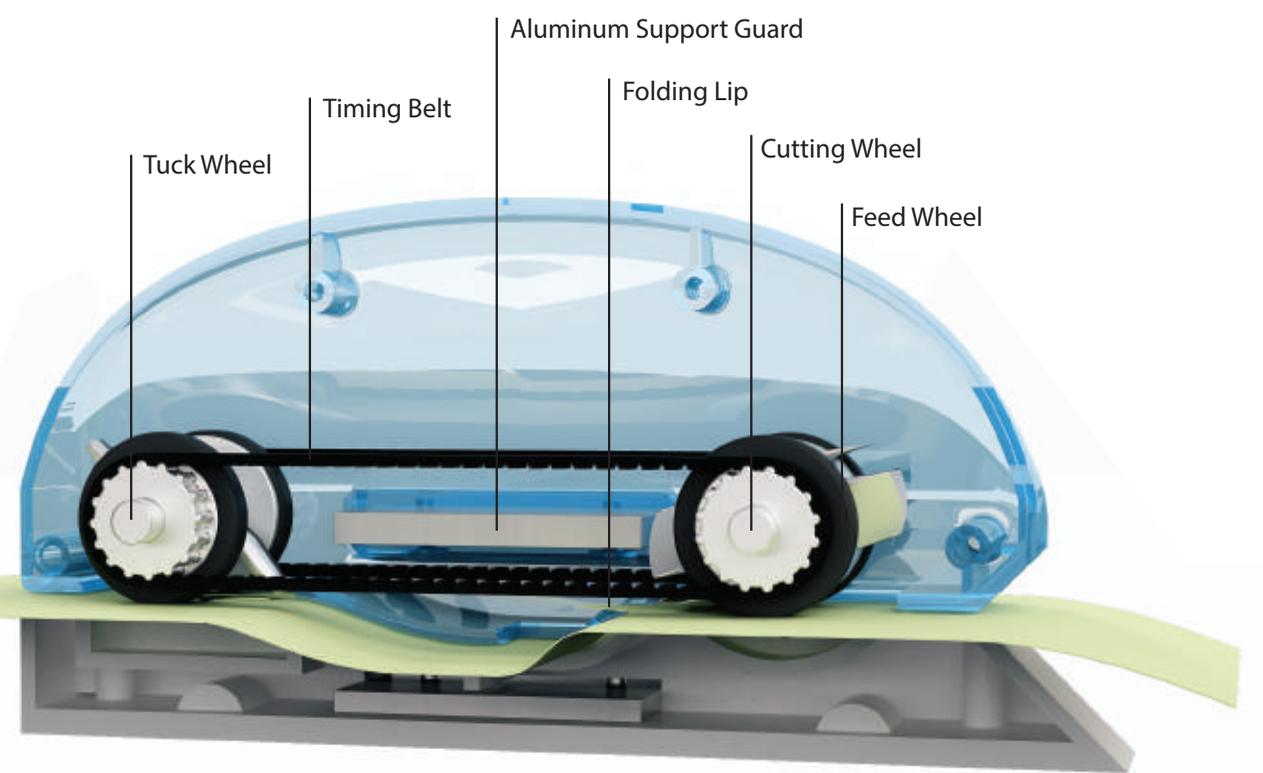
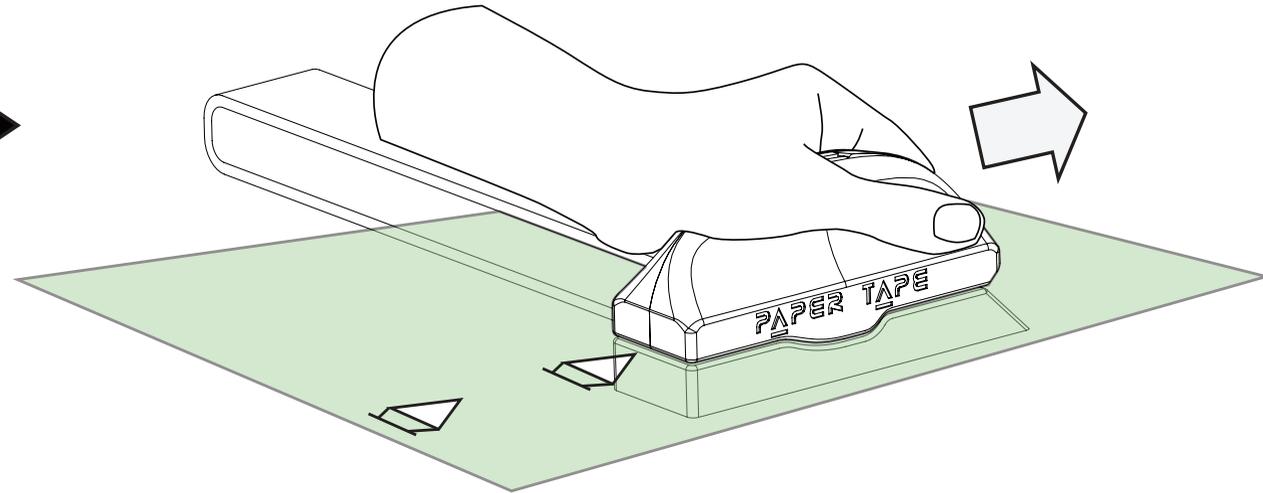
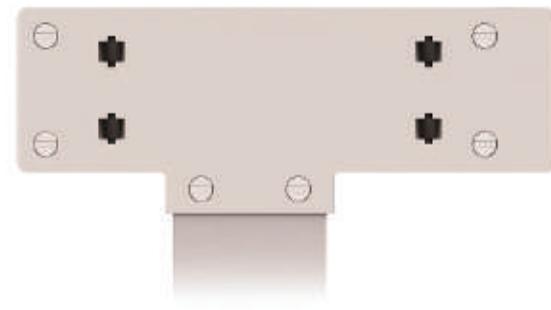
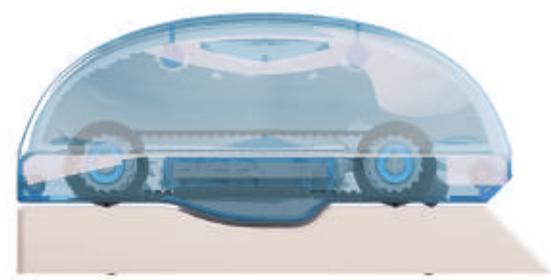
Pattern Examples



Cutting Pattern

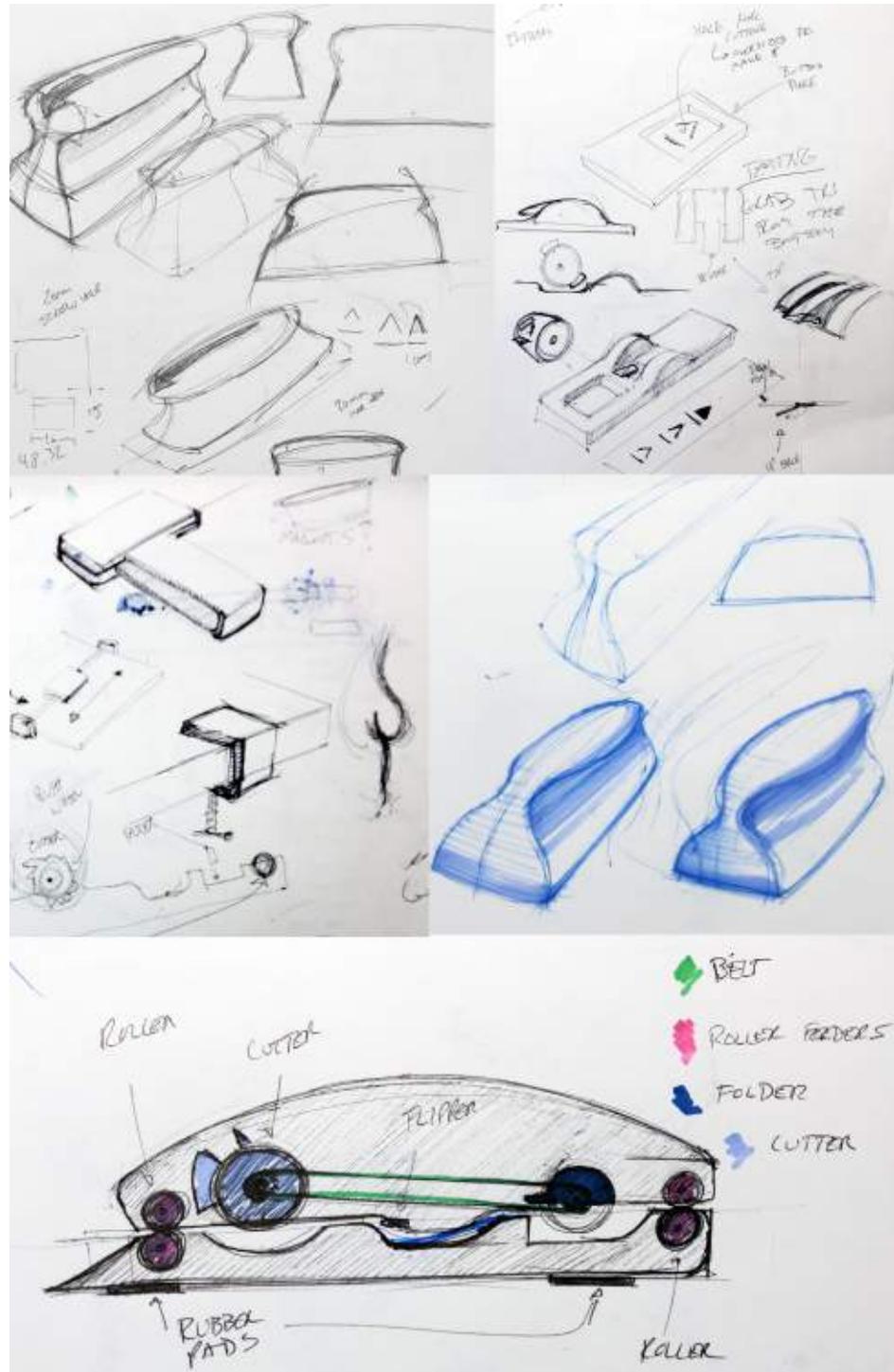


Folding Pattern



Progress Work

Rough Ideation



Functional Prototypes



Form Prototypes





lean

Travel Pillow

The Lean Travel Pillow offers supreme comfort and versatility for travelers and those looking to rest their head. Its inner flexible headband ensures a secure fit, while extra-grip fabric on the sides reduce slippage. The hugging design of the sides provide exterior sound dampening and with a thin channel, allow for use of earphones.

Problems



Susceptible to environmental noise

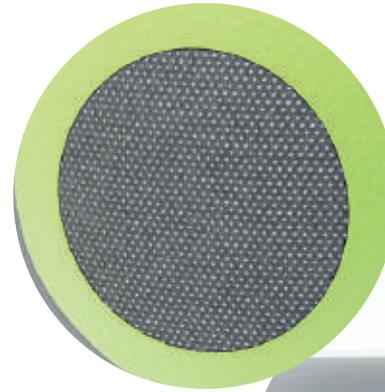
Lack of neck support

Unstable

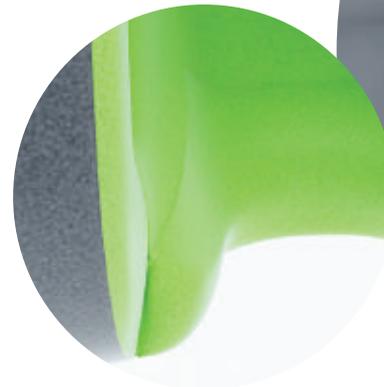
Only partial head coverage

Solution

Easy-grip side panel material for secure leaning



Neck support padding



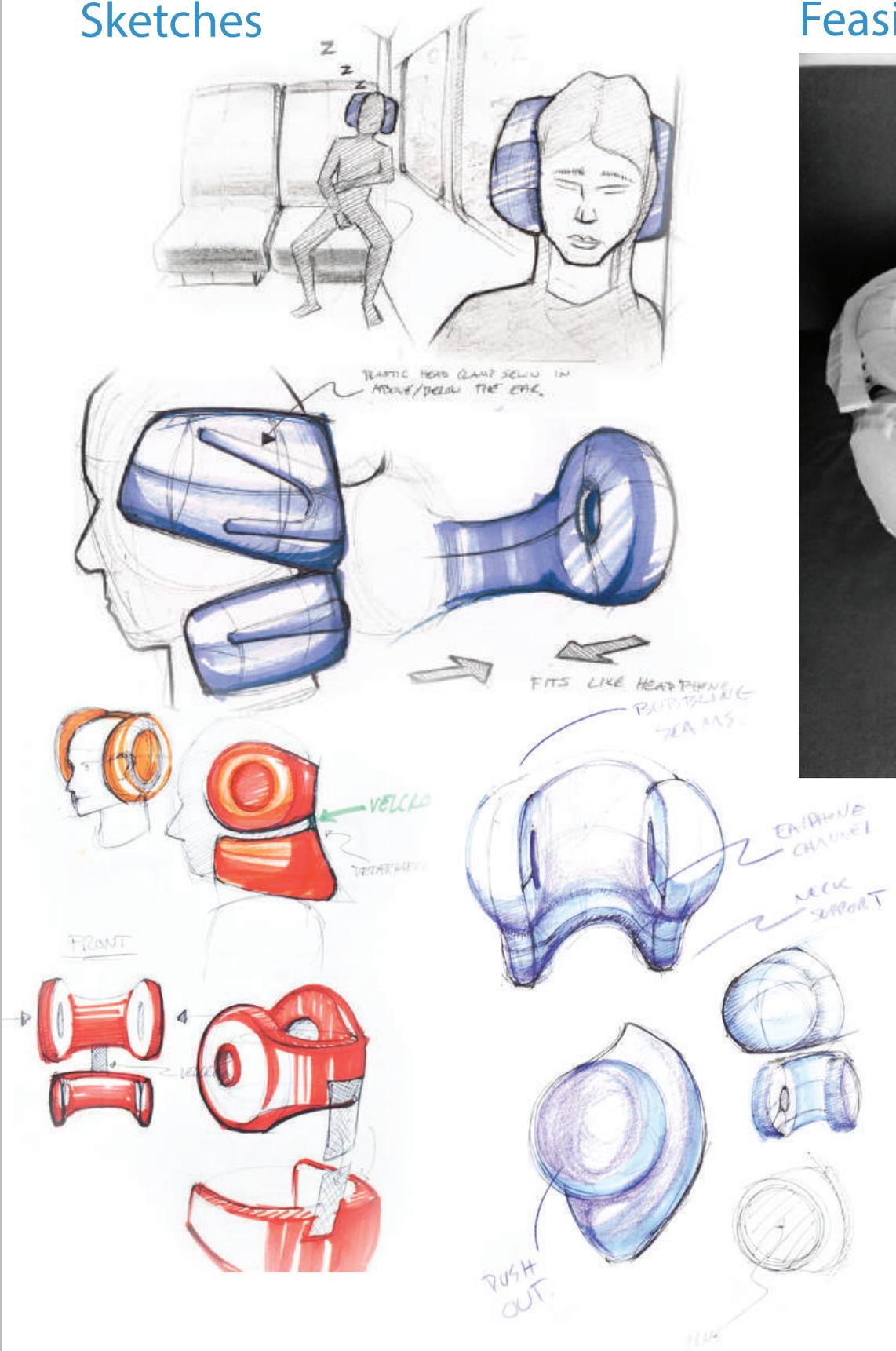
Inner memory foam for comfort



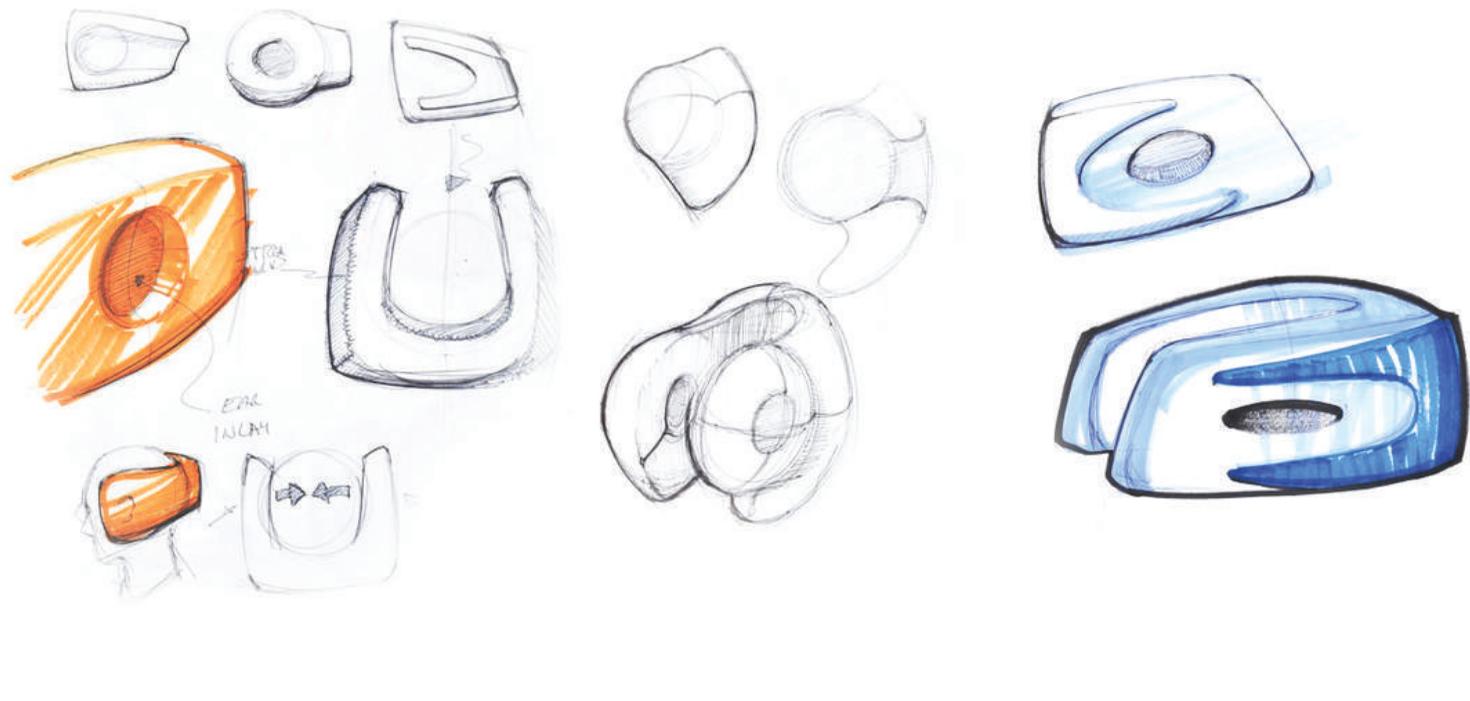
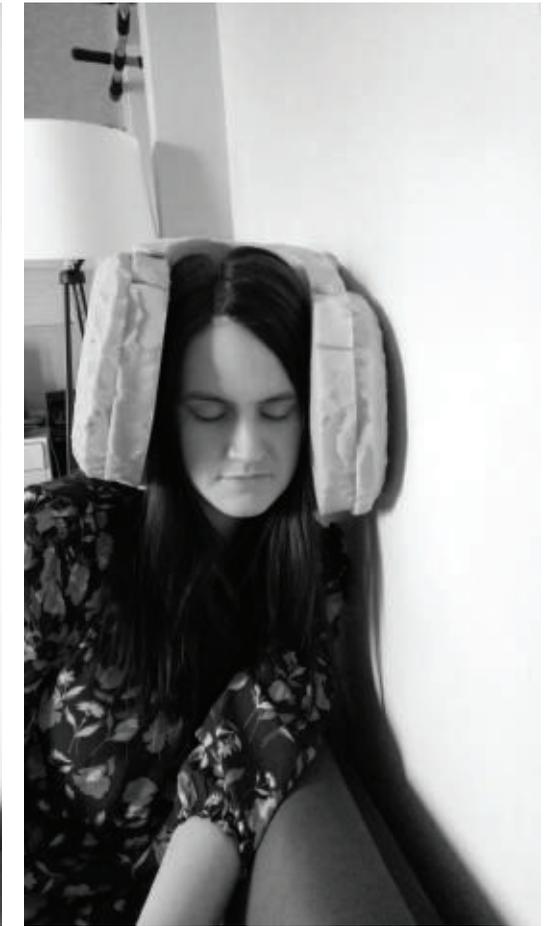
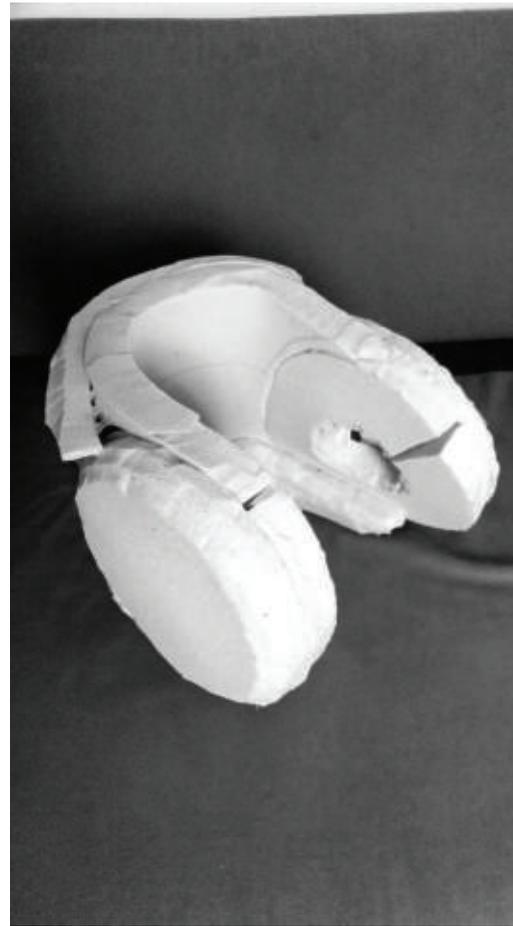
Ear hole offers outside sound suppression and channel for headphone wire



Sketches



Feasibility Prototype and Testing



RIF SHADES

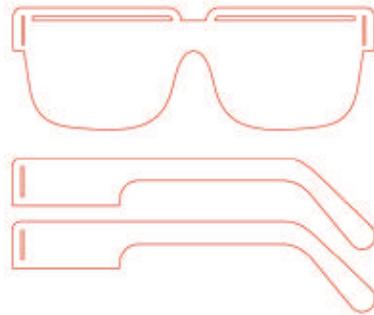
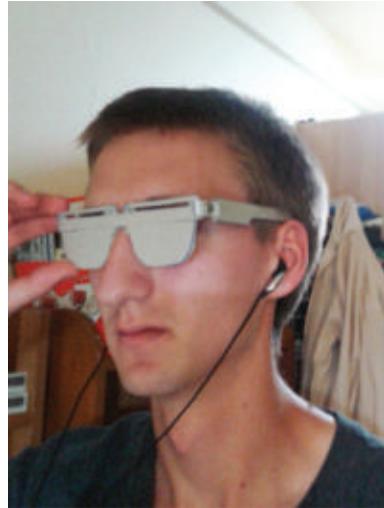
Rif Shades are a stylish, sleek and inexpensive way to hide your eyes from the sun. The design combines the lens and frame into a single material (acrylic) meaning less parts, easier manufacturing and a unique aesthetic.



Initial Prototypes

The first round of prototypes I created were made from cardboard. An initial CAD version of the glasses were created to have dimensional accuracy. From this model I could print a blueprint on paper and build it. It was important to make physical models at this early state since it is a wearable product. It was great to get a feel for the dimensions and how the hinge mechanism worked.

At this point in the design I wanted to use plastic strip(for cardboard boxes) for the hinge mechanism. It would loop through the laser-cut pieces and be fastened with small rivets.



Lasercut Prototype 1

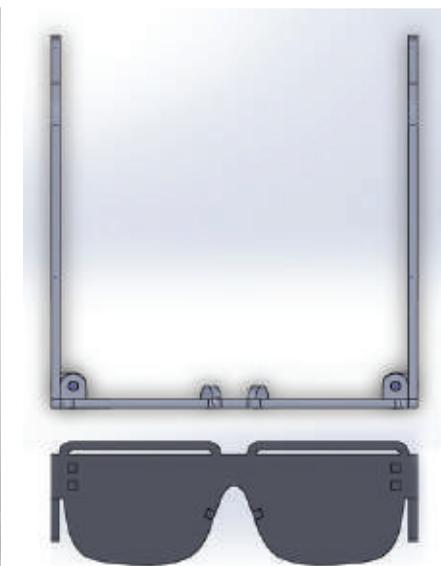
Once happy with the dimensions and form I went on to create a first round of laser-cut prototypes. These gave a great feel of the final product weight and aesthetic.

I learned from this prototype that the hinge mechanism did not work as well as originally thought. The plastic strip was a bit too rigid and did not fare well when constantly hinging and wrapping around the glasses. As the image below shows, many times the plastic strip would give out and tear.



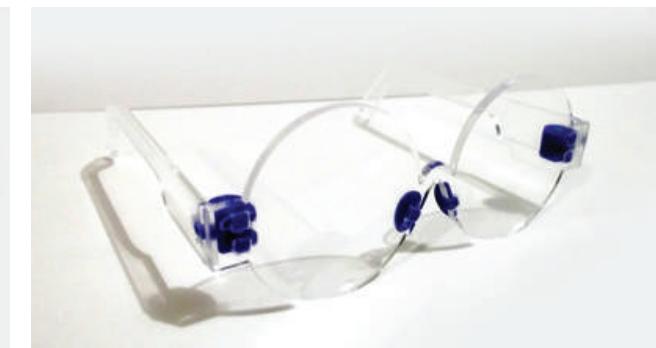
Lasercut Prototype 2

Needing a new hinge mechanism I developed a new set of prototypes. This version uses a laser-cut hinge mechanism which results in the glasses being 95% acrylic. This new hinge requires a pin much like most typical door hinges you see. This resulted in a much sturdier fold for the arms with much less wiggle.

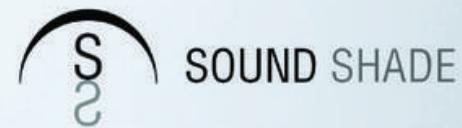


Lasercut Prototype 3

The third set of prototypes use an alternate lens design, though will not get rid of the previous style. 3d printed parts are used for the hinge and nose piece with slight variations for maximum efficiency.



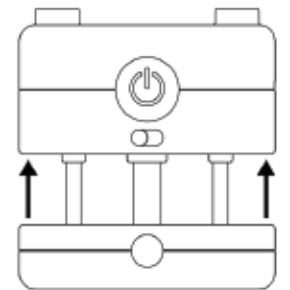
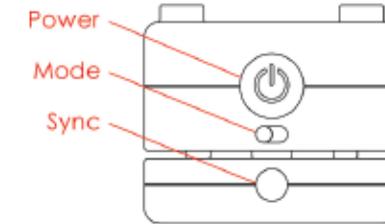
Sound Shade Portable Parabolic Speaker



The Sound Shade Speaker is a revolutionary portable speaker design used to tackle the issue of noise pollution. Using parabolic dish and Bluetooth technology, sound emanating from this speaker is effectively channeled to the users within its directed target space with minimal falloff.

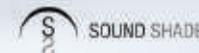
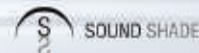
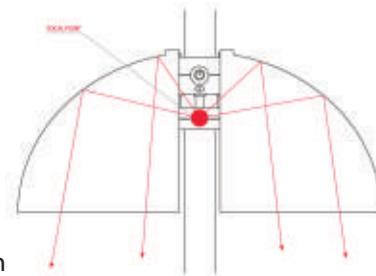


A two-half removable parabolic dish attaches to the speaker body, focusing reflected sound waves from a focal point. Made from PETG polymer, the dish gains strength as well as a pleasing transparent aesthetic.

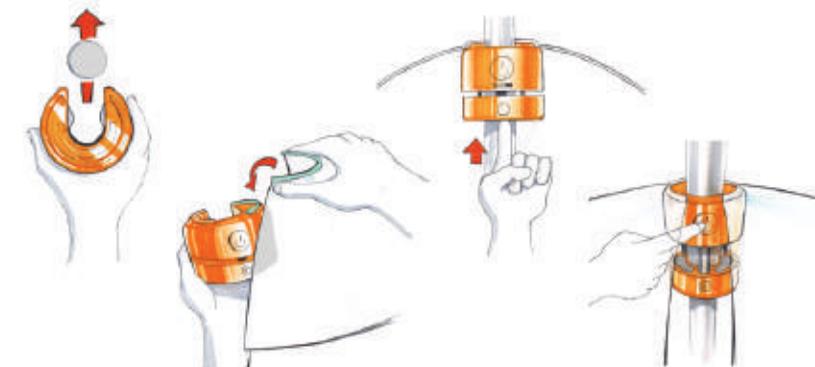


Features

- Simple Hardware Interface
- Internal Hard drive
- Easy Setup
- Collapsible Body
- Bluetooth / Auxiliary Communication



Setup



Process Testing and Technical

Scenario 1

Process:



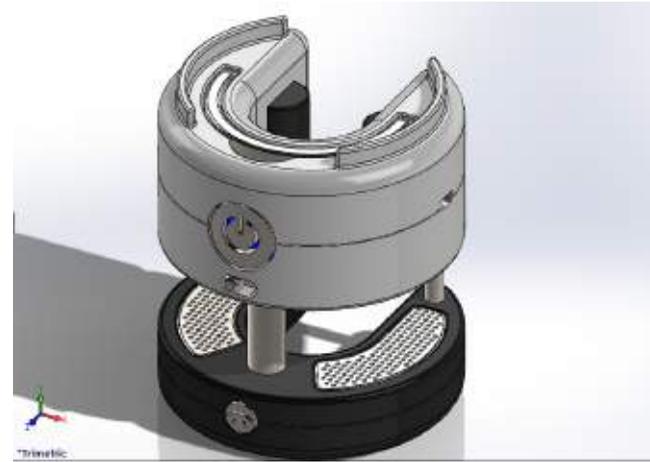
Rig contains a vertical pole with pink lines at varying heights, standing beside a table



User attaches speaker body to 4 different pole heights indicated by the pink lines; the user being 13 inches away horizontally from pole. This horizontal distance is an average distance to the middle of a picnic table.



User is placed 29 inches away from pole and again attaches the speaker body to the 4 heights. This horizontal distance is an extreme



Scenario 2

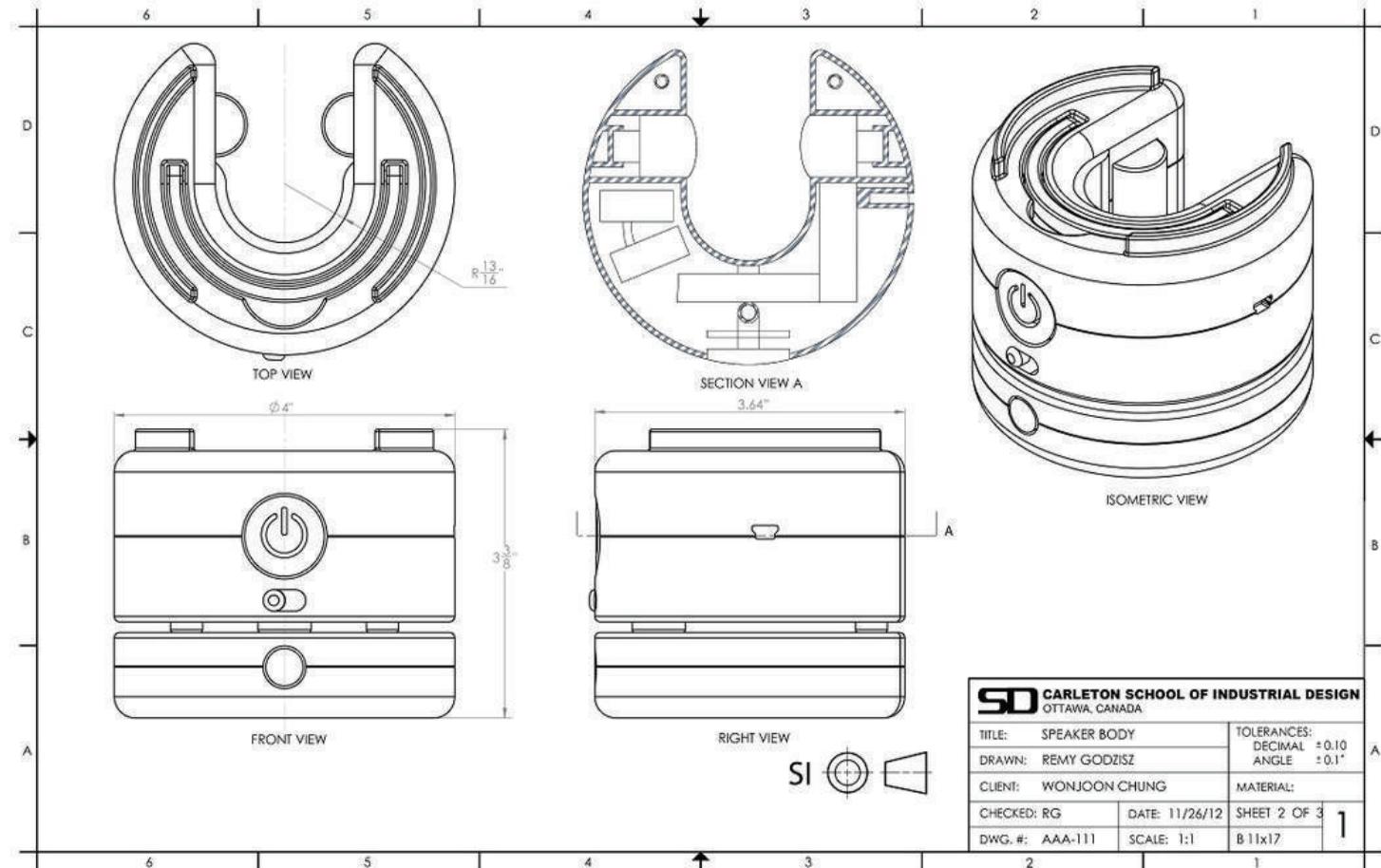
Process: The test facilitator explains only the functions of the buttons, not the use cycle.



User goes through the steps of how they would intuitively set up the speaker to wirelessly play music while verbally communicating their steps.

User now does the same but to set up the speaker to play music through the wired auxiliary mode.

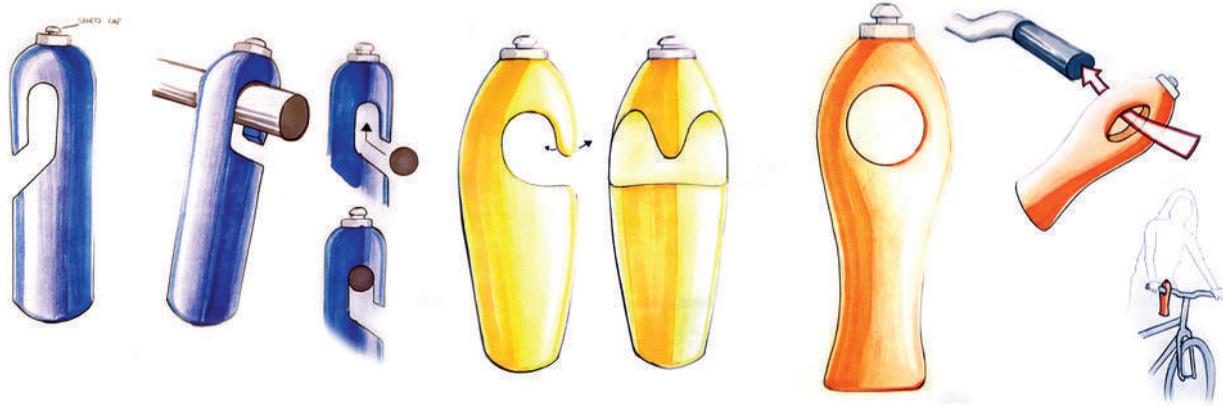
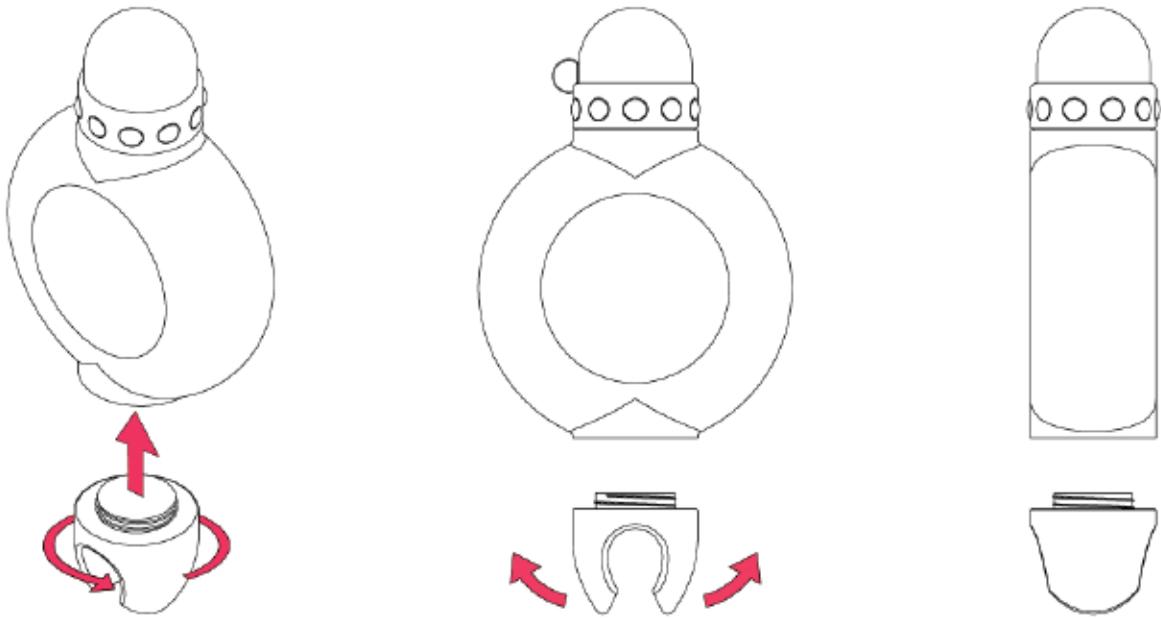
User walks through while verbally communicating how they would intuitively charge the speaker with a power cord.



Donut Water Bottle

The Donut water bottle offers an ideal thirst solution for both kids and adults on the go, providing easy access along with transportability.

The unique design allows the user to easily grip the bottle whether it be with the right, left or both hands. A special screw-on attachment can be used at the base, allowing the bottle to be securely suspended from structures such as a bicycle handlebar or walker.



Remduino

Educational kit to teach programming for hardware

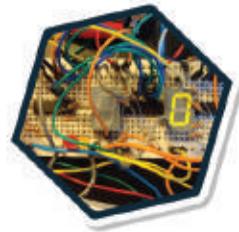
Is an electronics module system to aid education of computer programming. When educating, especially in short workshops a large amount of time is spent learning construction of hardware systems, leaving less time to focus on programming. Utilizing the existing Arduino hardware capabilities to form a plug and play module system paired with engaging visual programming software.

Awards

Marc C. Gauthier Award in Innovative Technologies
Finalist in IDSA Merit Award



Setting up hardware systems and programming for students can be...



MESSY



CONFUSING



TIME CONSUMING

So lets solve that with...



EASY HARDWARE



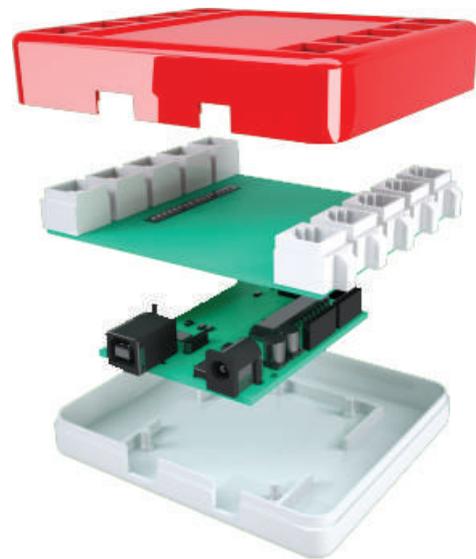
ARDUINO



VISUAL SOFTWARE

Hardware

Software



Simple plug and play hardware to relieve hardware barriers.

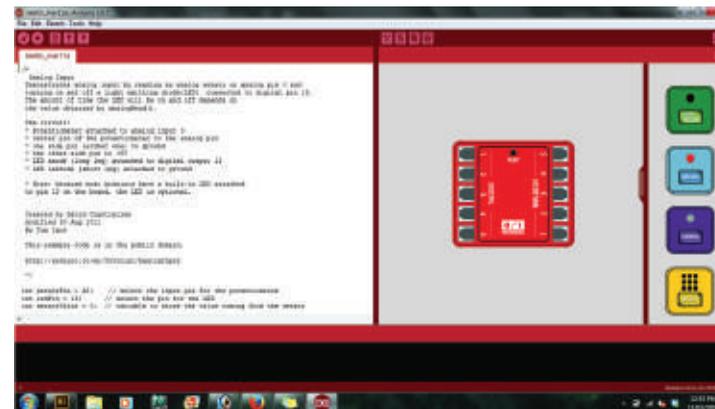
Universal 6-pin connectors supply power, ground and 4 signal lines.

Provides growth with user skills, allowing use of Arduino independently of system for complex projects.

Variety of hardware modules to program for.

Plastic enclosures protect electronics against dirt, static and heavy use.

Large existing Arduino community to work and learn from.



Upload user projects to an online database for others to see and download.



Search using a project browser to see and download projects from people around the world.



Build Mode lets the user code projects and use a selection of virtual modules they may not physically possess.



Simulate lets the user test their code with a virtual representation of the hardware system without actually using the physical modules.

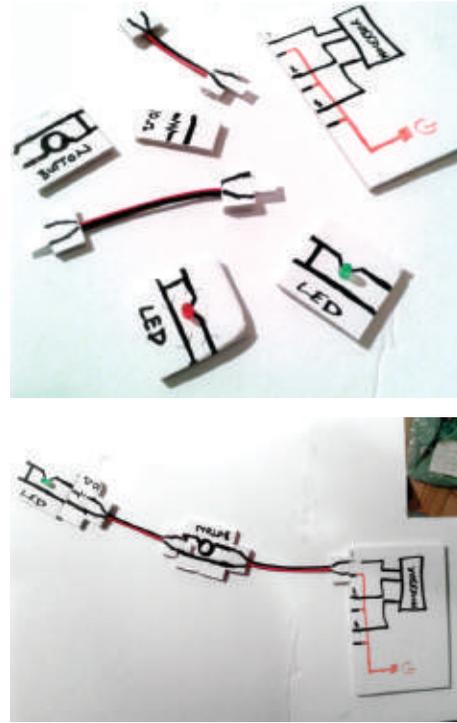
View walkthrough animation here:

<https://www.youtube.com/watch?v=PHkqcRWEymE>

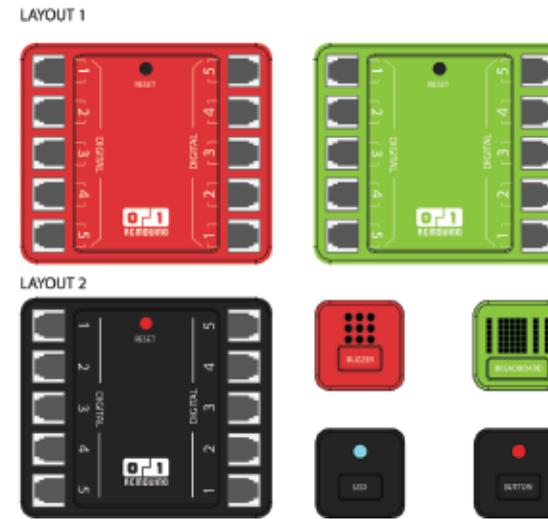
Process Highlights



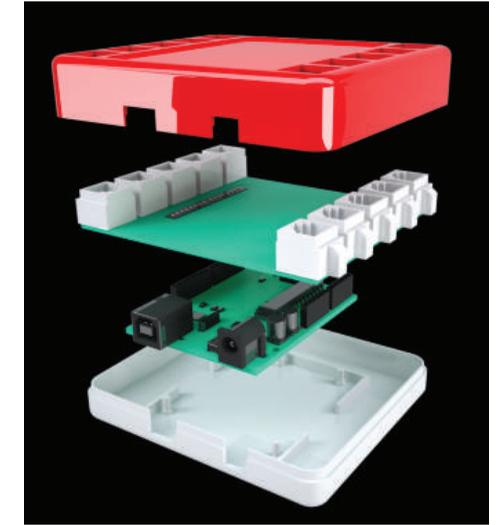
Research and Concept Proofing



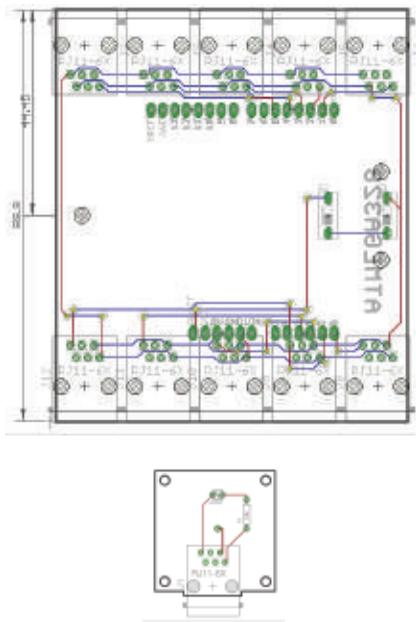
Early Prototypes



Physical Design



SolidWorks Modeling



Custom PCB Design



3D Printed Prototypes

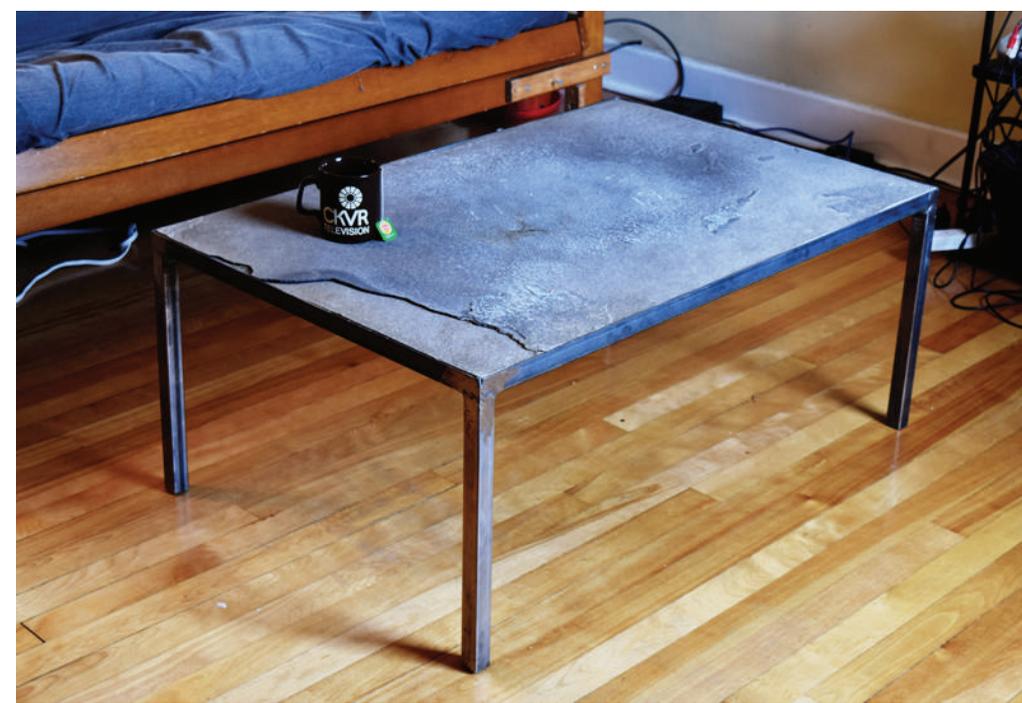


Packaging Design



Final Model

Furniture Design and Construction





Architectural Modeling and Rendering - Car Sales Building



Architectural Modeling and Rendering - Salus Salad + Juice Bar



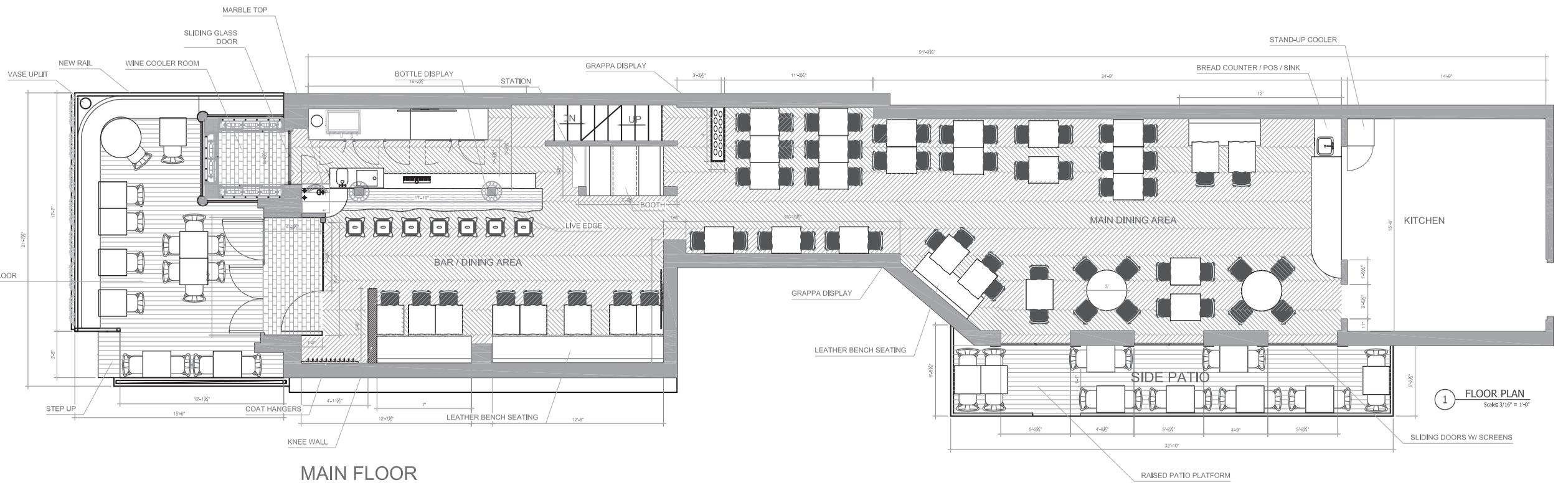
Architectural Modeling and Rendering - Denningers Grocery Store



Architectural Modeling and Rendering - Mantra Restaurant

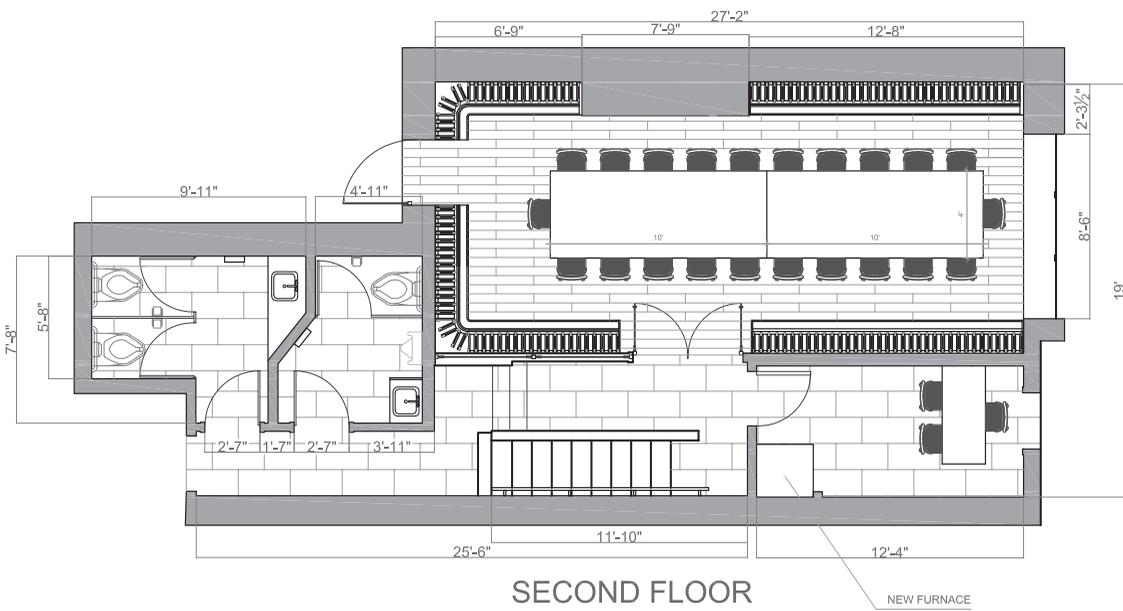


Remy Godzisz

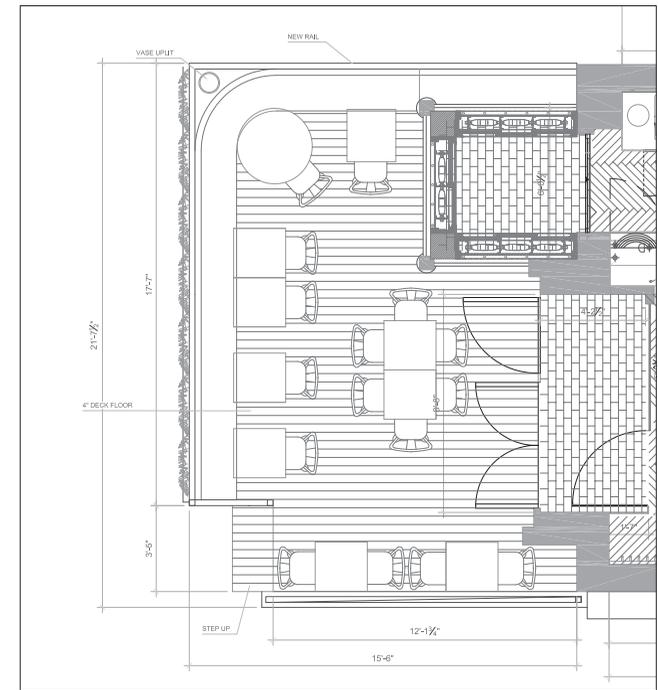


MAIN FLOOR

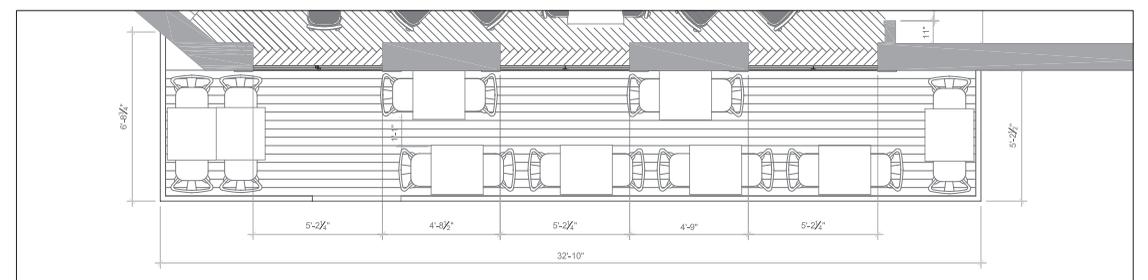
FULL PATRON COUNT - 156



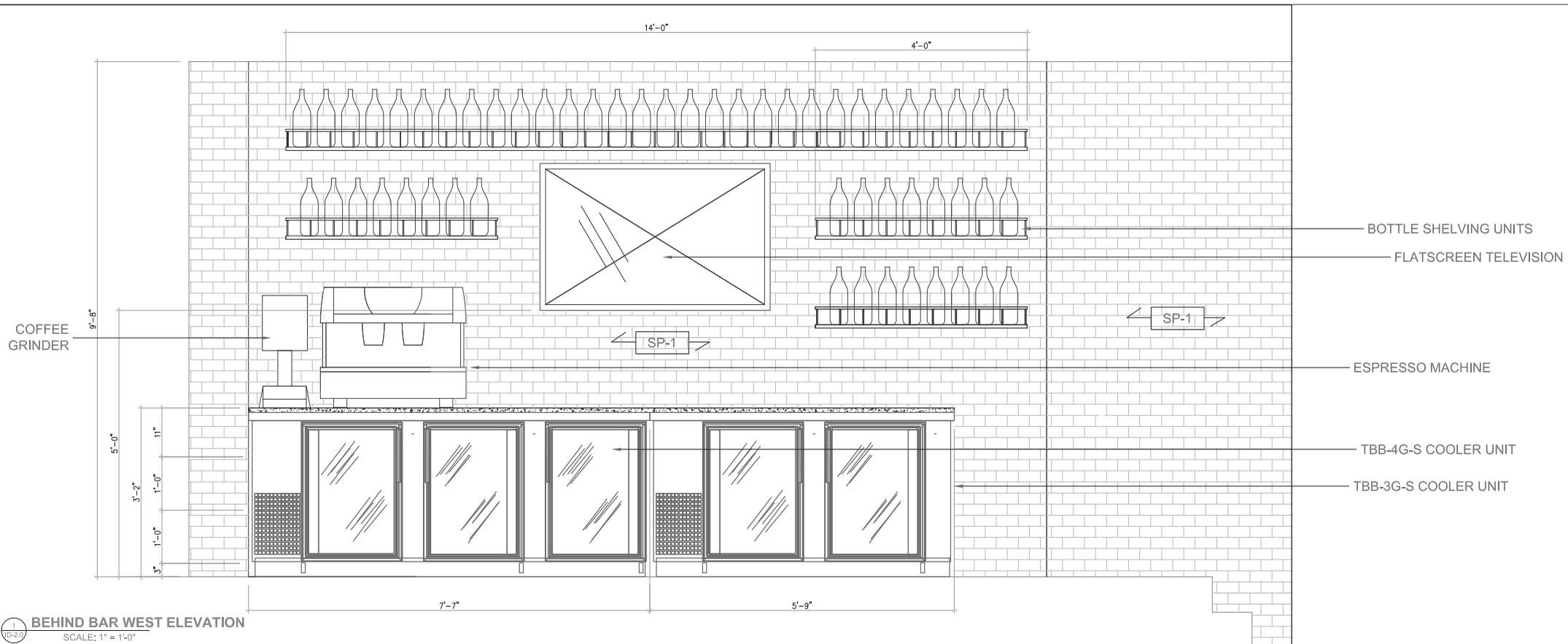
SECOND FLOOR



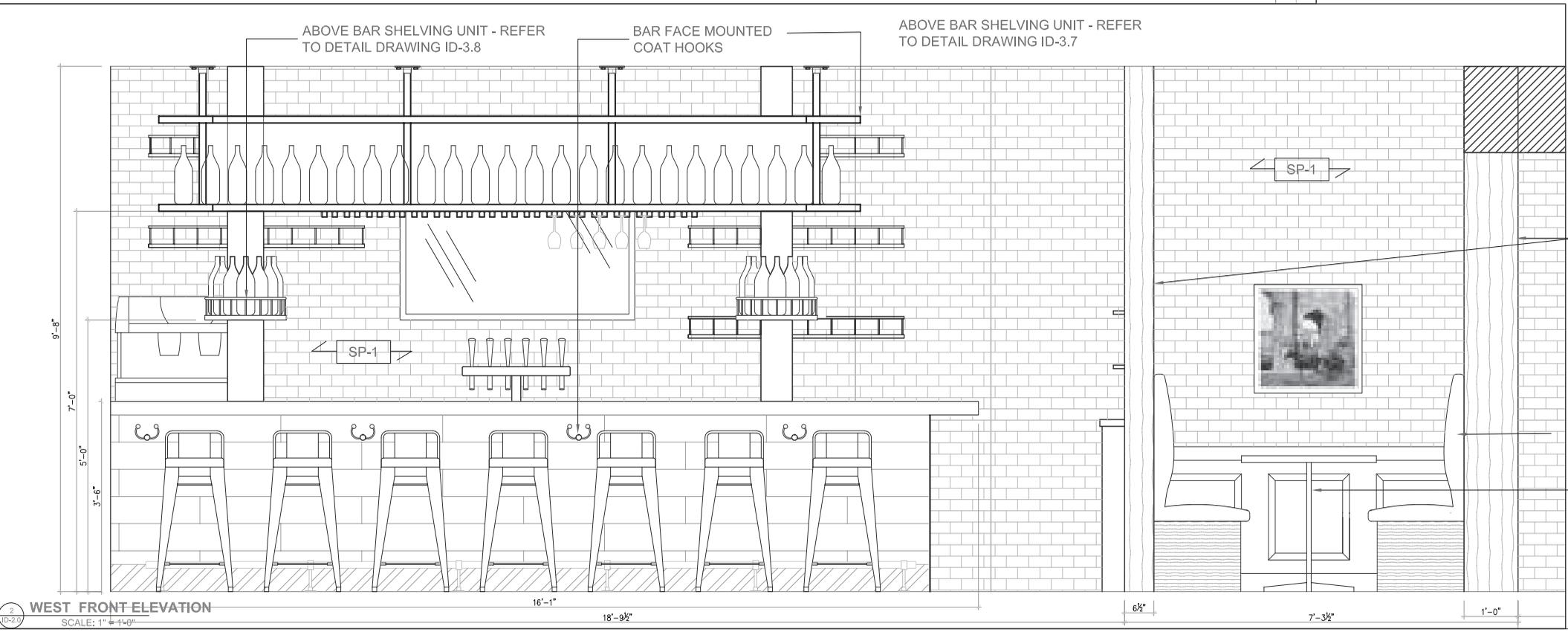
FRONT PATIO DETAIL



SIDE PATIO DETAIL



1
ID-2.0
BEHIND BAR WEST ELEVATION
SCALE: 1" = 1'-0"



2
ID-2.0
WEST FRONT ELEVATION
SCALE: 1" = 1'-0"

BOTTLE SHELVING UNITS
FLATSCREEN TELEVISION
ESPRESSO MACHINE
TBB-4G-S COOLER UNIT
TBB-3G-S COOLER UNIT

EXISTING STRUCTURAL COLUMN
FIXED BOOTH SEATING - REFER TO ID.3.4
4' BOOTH TABLE

7 DECEMBER 2015
AS NOTED
RG
WEST FRONT ELEVATION

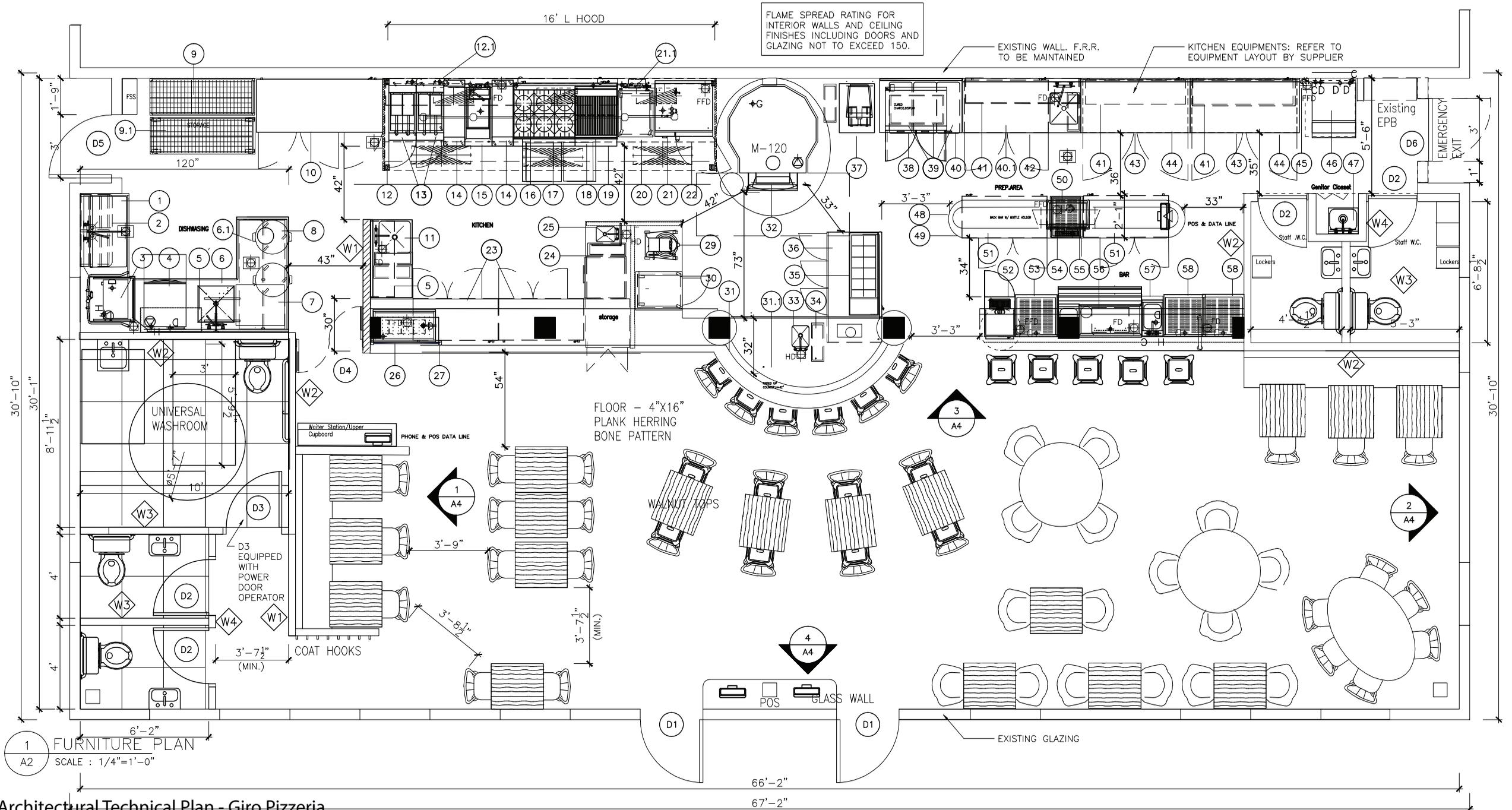
ID-2.0

INTERIOR WALL TYPES

- W1  1/2" GYPSUM BOARD
2X6 METAL STUDS @ 16" O.C.
1/2" GYPSUM BOARD
- W2  1/2" GYPSUM BOARD
2X6 METAL STUDS @ 16" O.C. W/SOUND INSULATION.
1/2" CEMENT BOARD/WATERPROOF PLYWOOD
+ CERAMIC WALL TILES ON ONE SIDE
- W3  1/2" CEMENT BOARD/WATERPROOF PLYWOOD
2X3-5/8" METAL STUDS @ 16" O.C.
1/2" CEMENT BOARD/WATERPROOF PLYWOOD
+ CERAMIC WALL TILES ON BOTH SIDE
- W4  1/2" GYPSUM BOARD
2X3-5/8" METAL STUDS @ 16" O.C. W/SOUND INSULATION
1/2" CEMENT BOARD/WATERPROOF PLYWOOD
+ CERAMIC WALL TILES ON ONE SIDE

DOOR SCHEDULE:

NO	UNIT SIZE	R.O. SIZE	NOTES
D1	34"x6'6"	-	MAIN ENTRANCE DOOR
D2	30"x6'8"	-	-
D3	36"x6'8"	-	*EQUIPPED WITH POWER DOOR OPERATOR *USE SWING CLEAR BUTT HINGE
D4	2-17.5"x6'10"	-	-
D5	32"x6'8"	-	-
D6	32"x6'8"	-	* EMERGENCY EXIT DOOR



Remy Godzisz

Work Samples

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