rebecca swofford

the new cool for school

computer aided design

artifacts

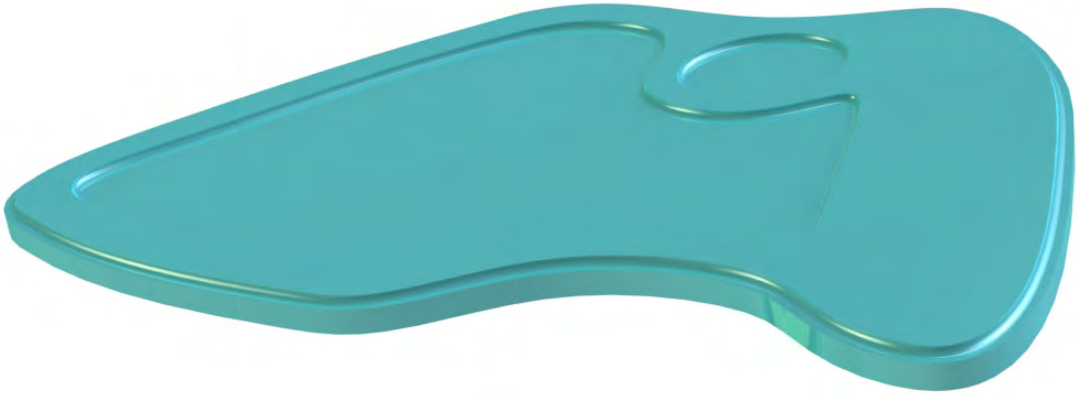
fresh prep

// product designer // university of oregon //


the new cool for school .

introduction project completed spring 2011 in *intro to studio.*

A simple and sculptural cafeteria tray that can comfortably be held with one hand.



The Problem

Cafeteria users have too much stuff and too few hands. Multiple trips to and from the table are required before sitting down to eat.

Design Objective

To reduce the physical effort required when using the cafeteria system by increasing the capacity to hold multiple items.

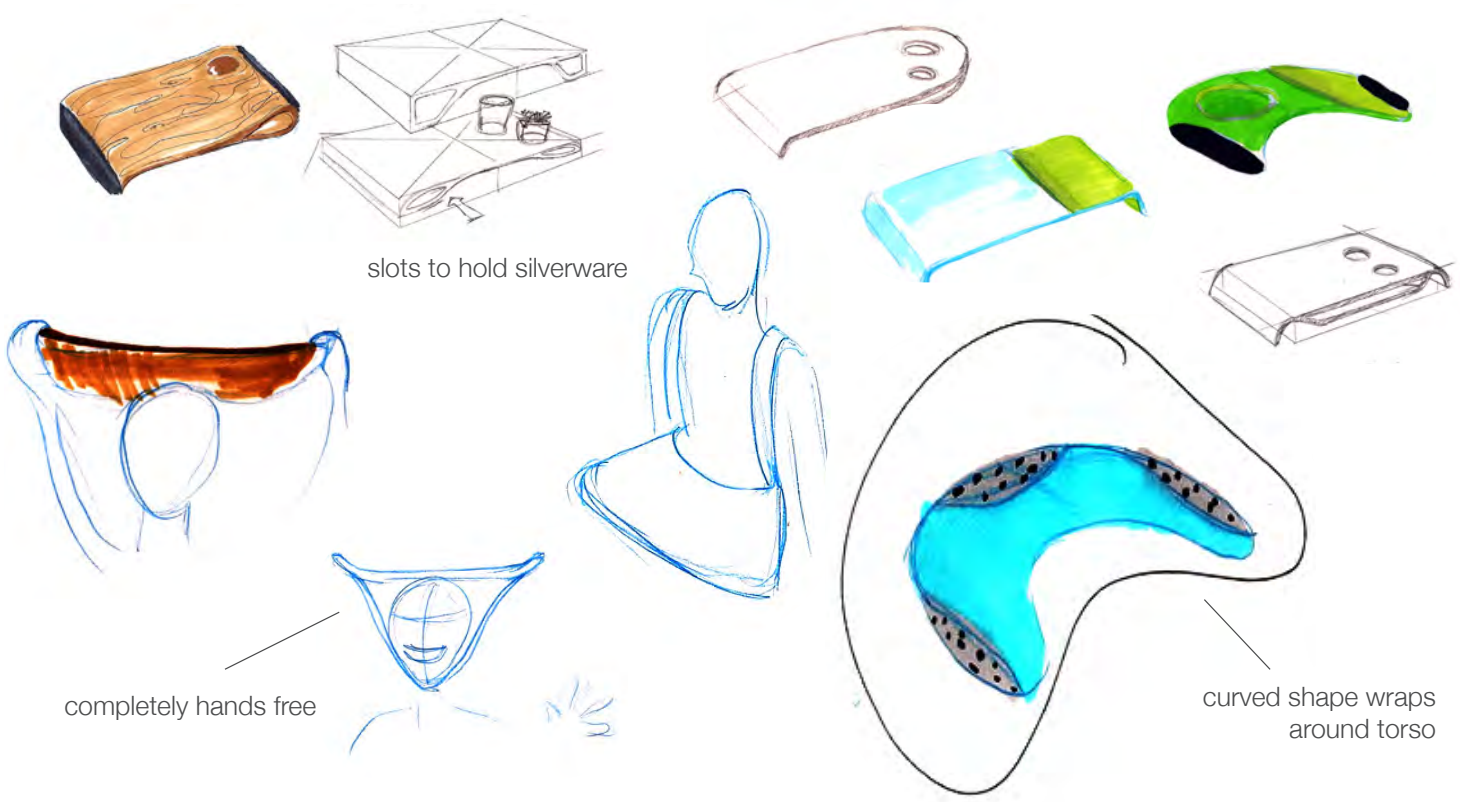
Behavioral Tendencies

How do we comfortably hold items?

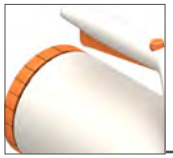
It is natural to hold items against the body for support.

The curved tray design was selected and constructed out of cardboard. The form was altered to be asymmetrical and an additional curve was added for hand support.

By resting the tray comfortably on the hip the opposing hand is free to pick up napkins, grab plates, or carry a bag.





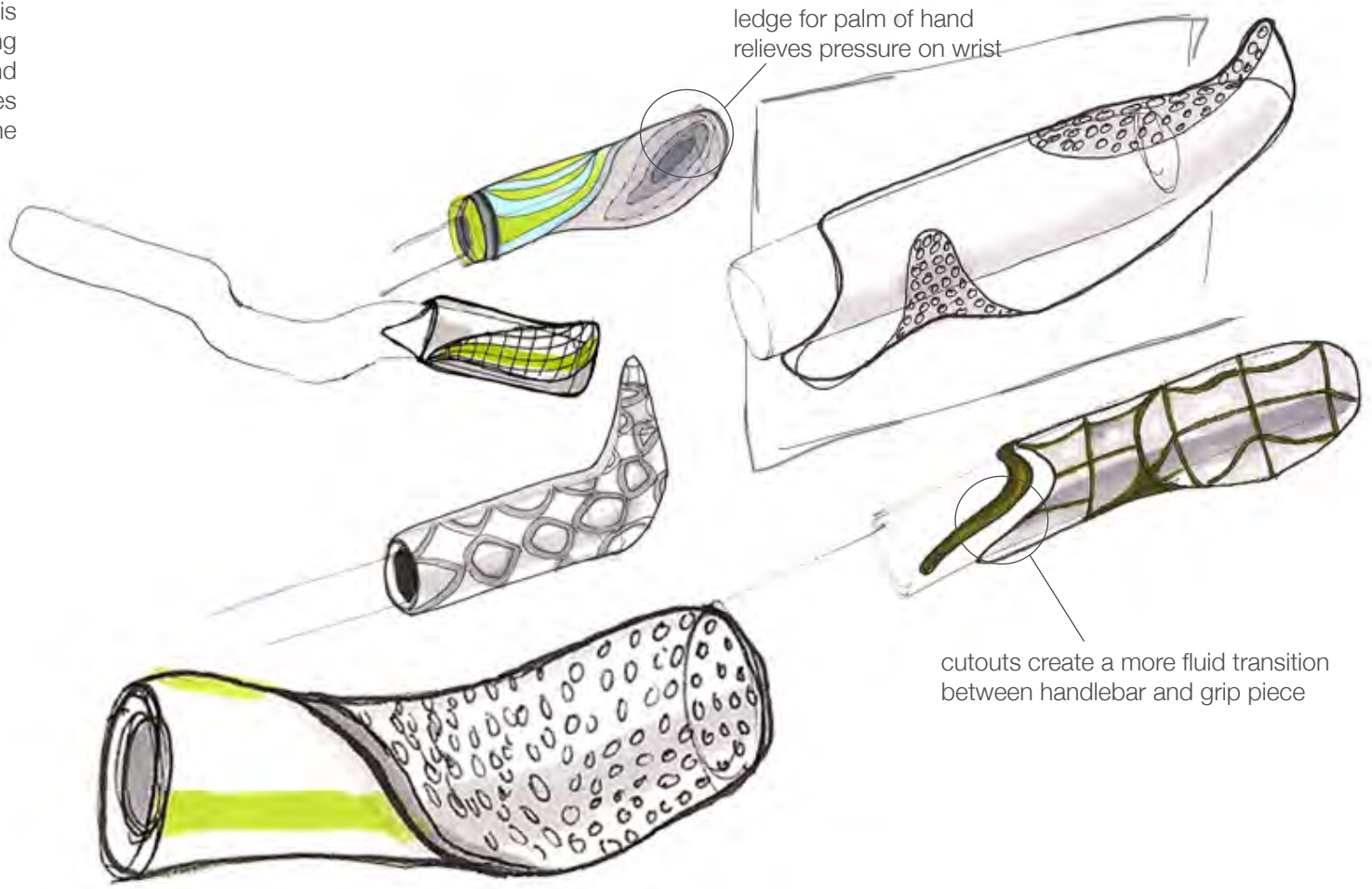


computer aided design.

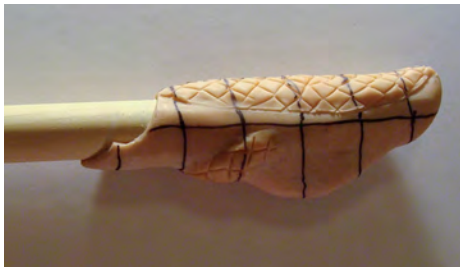
the following projects were completed
fall 2011 in *digital tools.*

SERFAS

The goal was to design an ergonomic grip that was organic in form. Emphasis was placed on creating a more interesting transition between the handlebar and grip piece. Super Sculpey prototypes were used to test the comfort of the intended design.



Super Sculpey prototype. Dimensions were referenced in the CAD model.

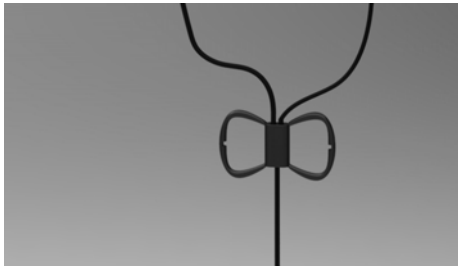


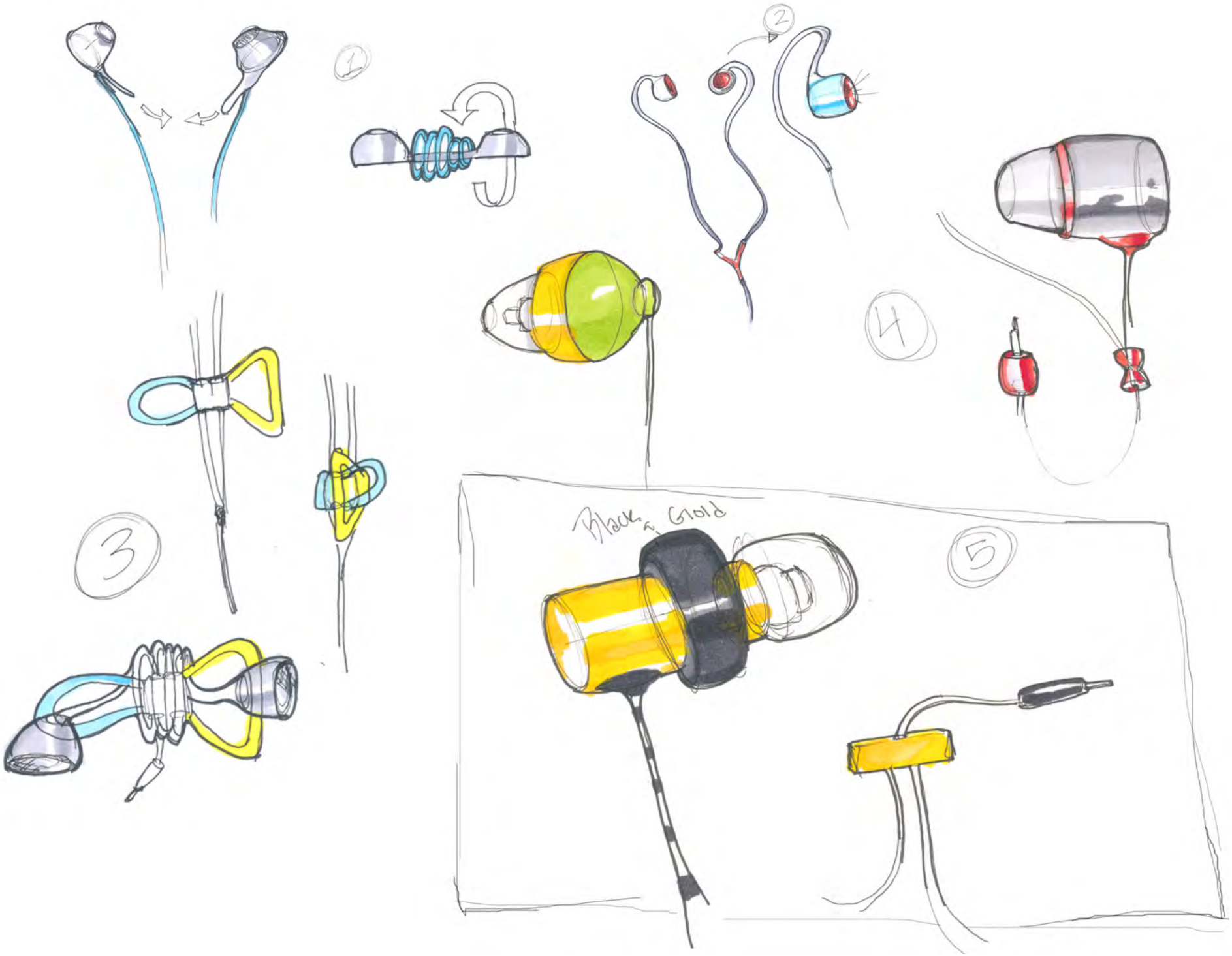
Grip form after CNC machining

Texture, color, and logo placement were explored once the general form had been developed. KeyShot, Adobe Illustrator, and Photoshop were all utilized during this process.

SKULL CANDY

Listening to music becomes a black tie event with these luxurious ear buds. Rose gold accents and a bow tie cord connector make them the perfect accessory to any outfit.




1
2
3
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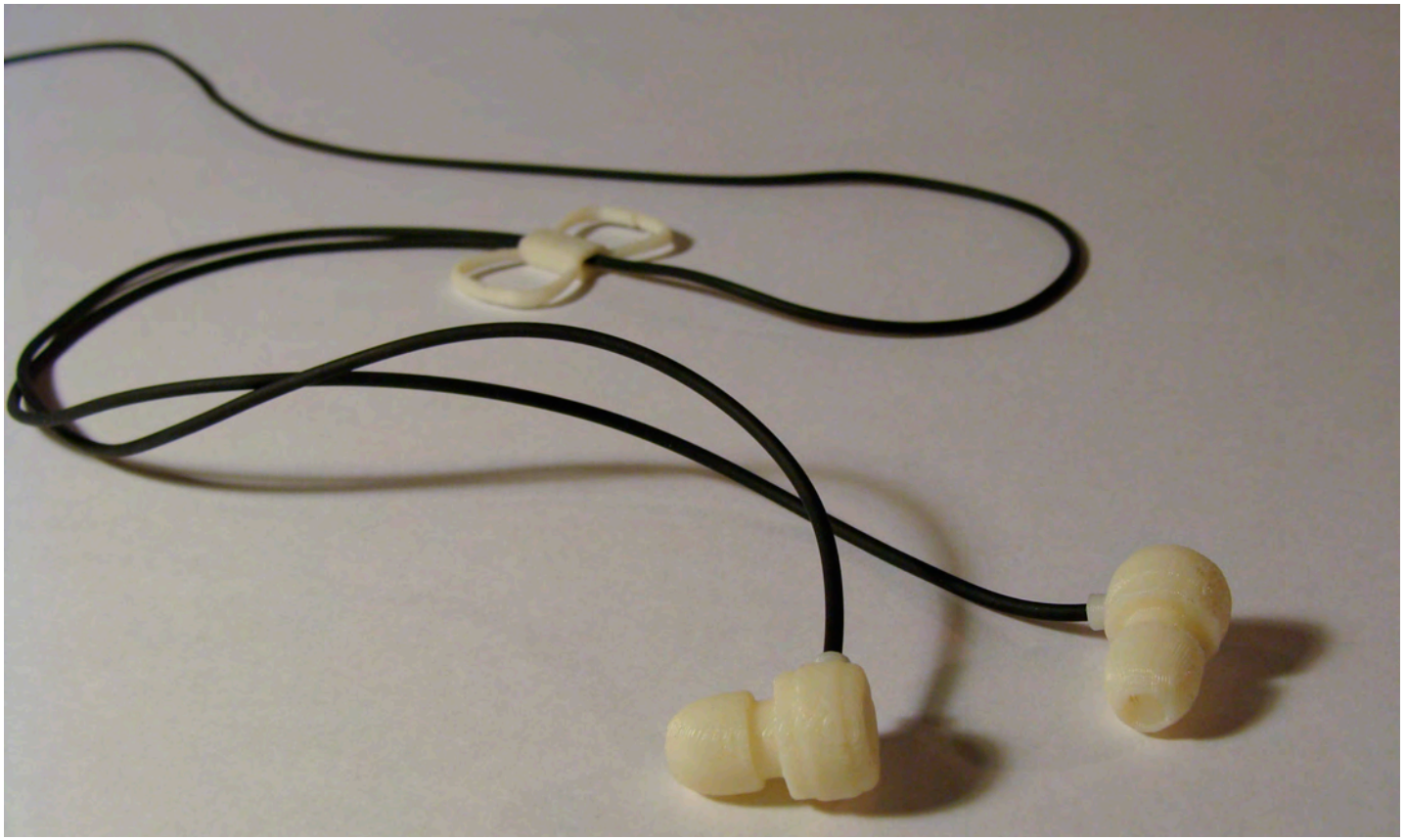
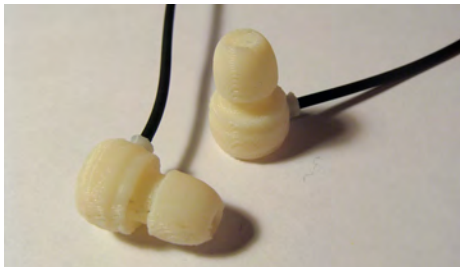
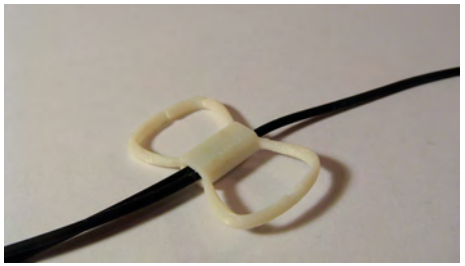
Black & Gold

Prototype
3D print of earbud, connector and 3.5 mm jack

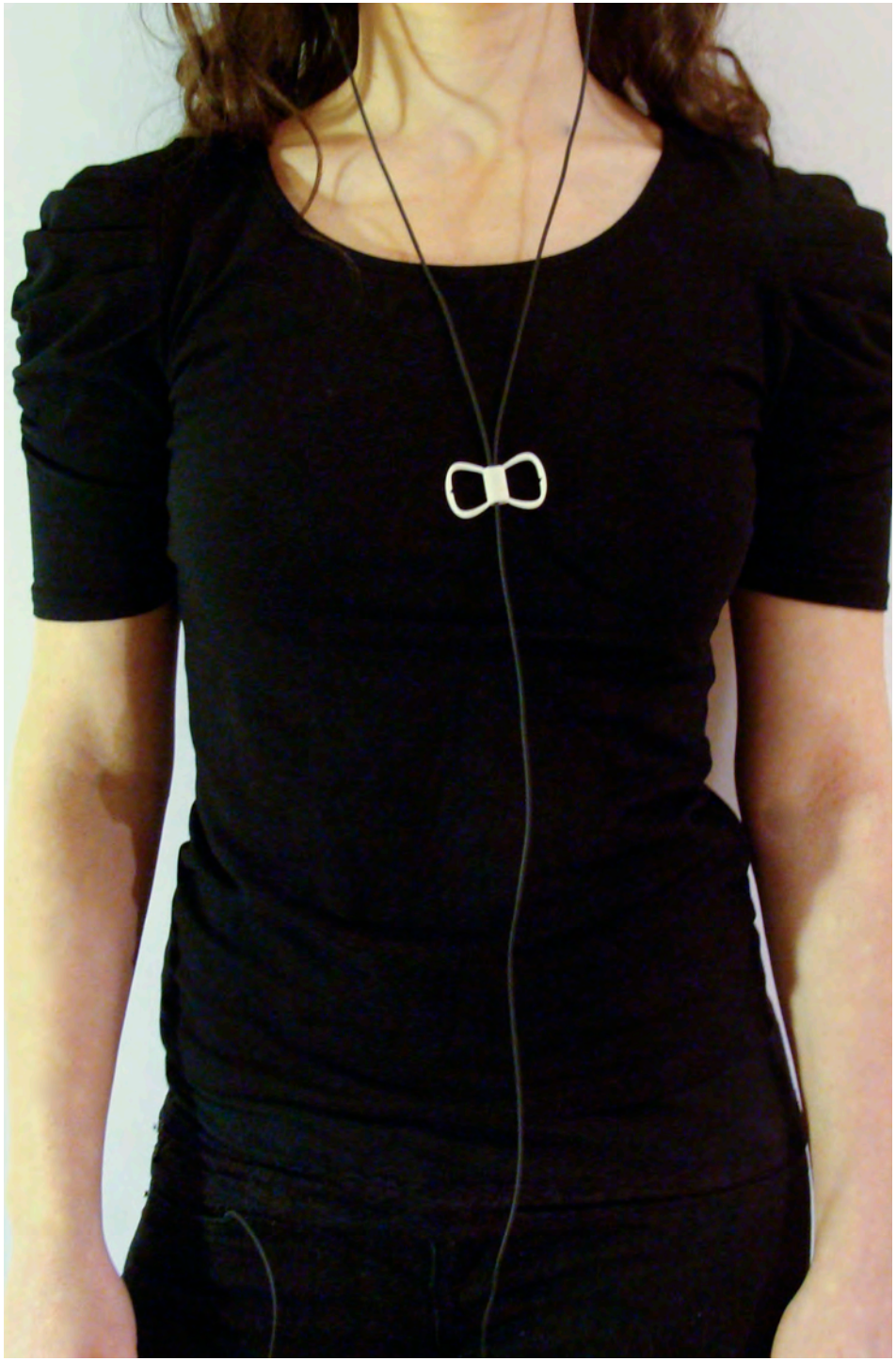






How it is used

The bow connector creates a fashion statement and increases functionality by becoming a cord storage device. The cord is wrapped around the center of the bow. Each ear bud is pulled through one of the loops and secured. Your ear buds can now be tucked in your pocket and remain tangle free.



mix it up

With 5 speeds and a 300W motor, this hand mixer is perfect for the aspiring chef or the occasional cookie baker. So go ahead and “mix it up.”

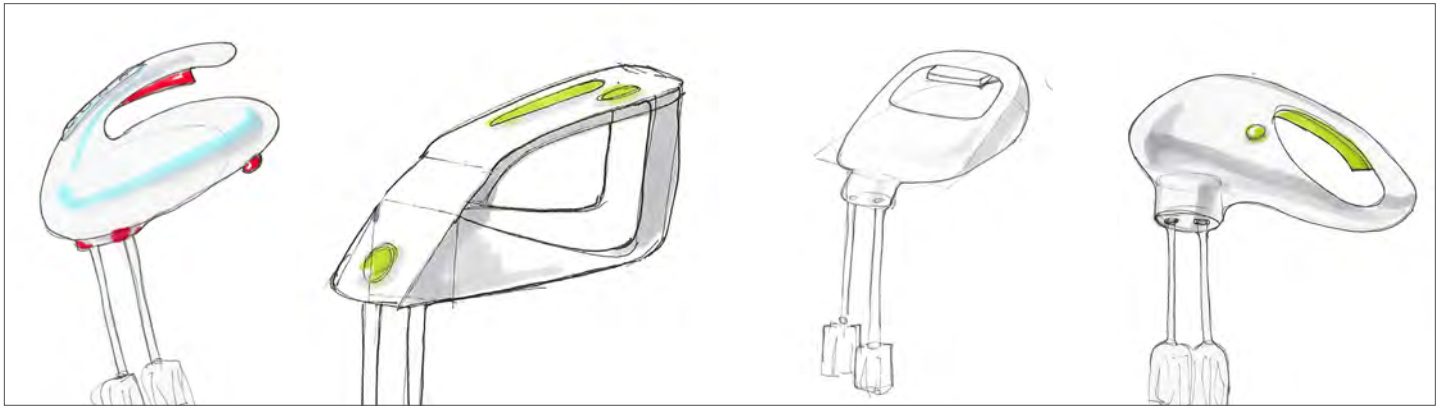
Features include:

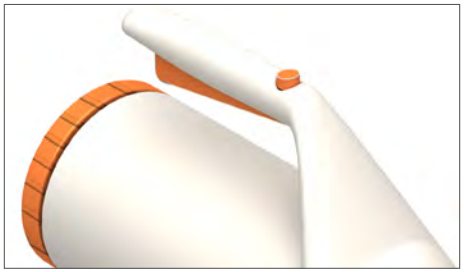
-Quick release beater ejection button

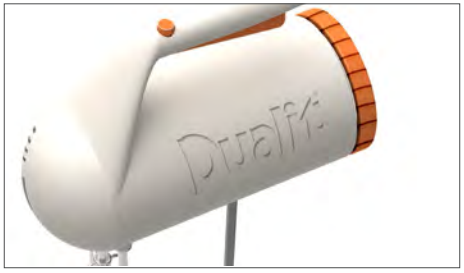
-Wind-up retractable cord

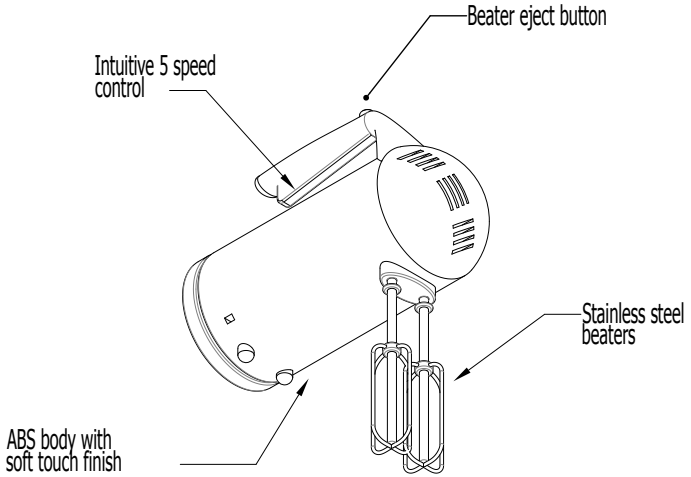
-Intuitive speed control. The more you squeeze the handle, the faster it mixes

-Soft touch finish for a secure and comfortable grip









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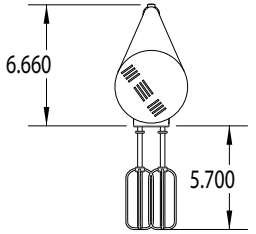
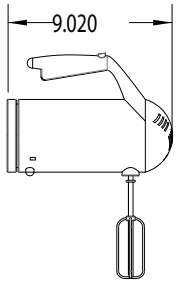


RIGHT:



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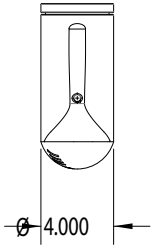

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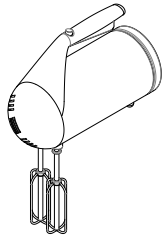
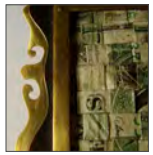
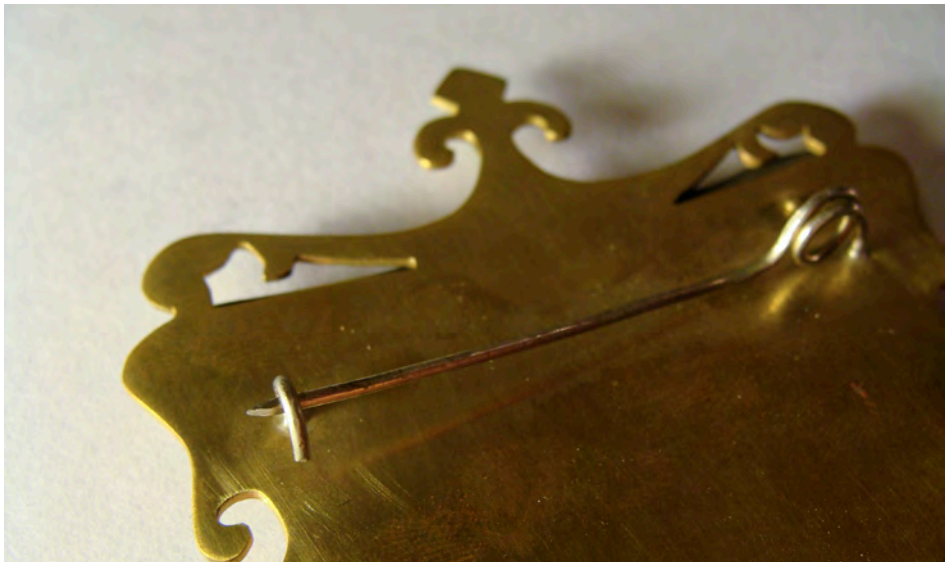




artifacts.

the following projects explore wood and metal materials. metal jewelry pieces were produced winter 2010 in *intro to metalsmithing*.

Brooch
Design prompt: Commodity
Brass, patina, dollar bill



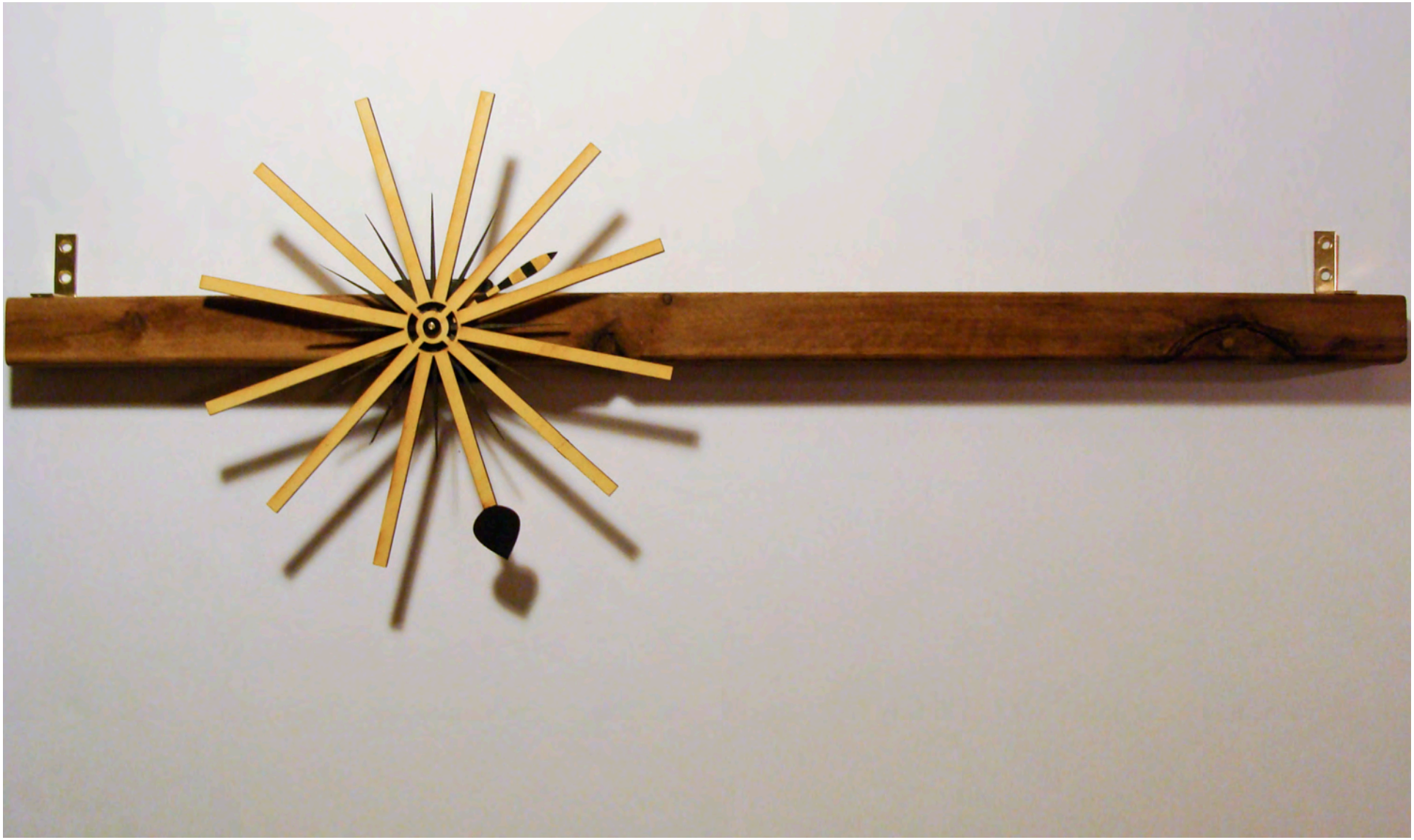
Three layers of brass were cut by hand and joined with rivets. A dollar bill was cut into strips and woven together. Nickel wire was formed to create the pin and soldered to the back of the frame.

Hollow form rings with jewelry box
Design prompt: Wedding band set
Brass, cotton, acrylic paint, wood

The large bow ring makes a bold statement, but the ring is merely a vessel to hold what is truly valued.

The lid can easily be removed when desired.

A small ring that has been passed down through my family rests securely inside.



The Logger Clock

A weeklong warm-up project conducted Fall 2011 in senior studio. As each of the wheels rotate, interesting shadows are cast on the wall. It becomes a beautiful way to watch time pass.

Inspiration object
Fossie Greenleaf Log Caliper

fresh prep.

houseware design conducted in senior studio fall 2011.

The Problem

Washing, chopping and preparing vegetables is time consuming and messy. It often deters people from preparing nutritious home cooked meals.

The Objective

To encourage cooking by streamlining transitions and utilizing natural tendencies. The preparation process should be efficient, simple and fun.

Observed Behaviors

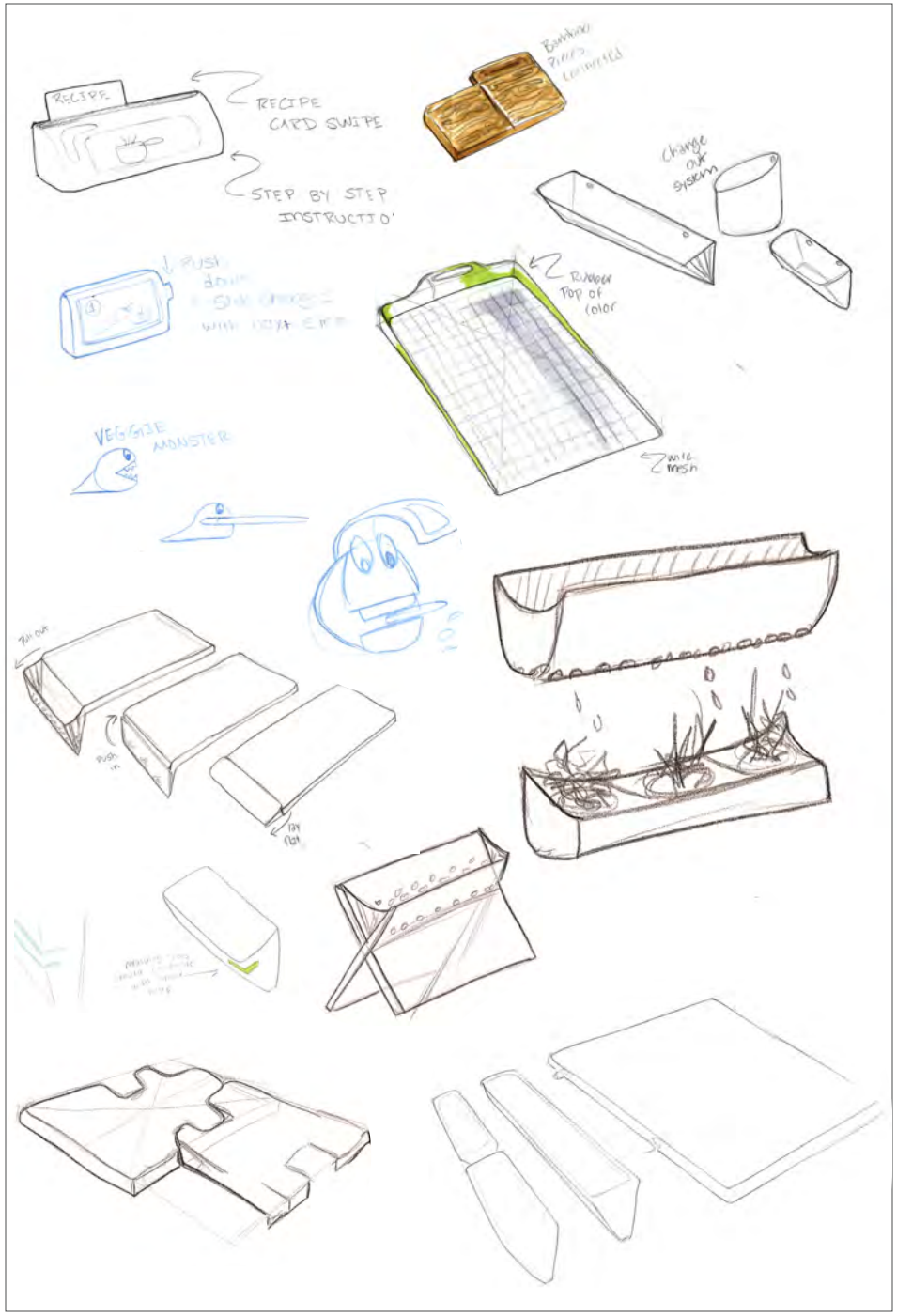
1. Vegetables were kept from touching the bottom of the sink

2. Food was categorized and measured during chopping process

4. Paper towels were used to pat off vegetables after washing. They also prevent dripping when traveling across the kitchen

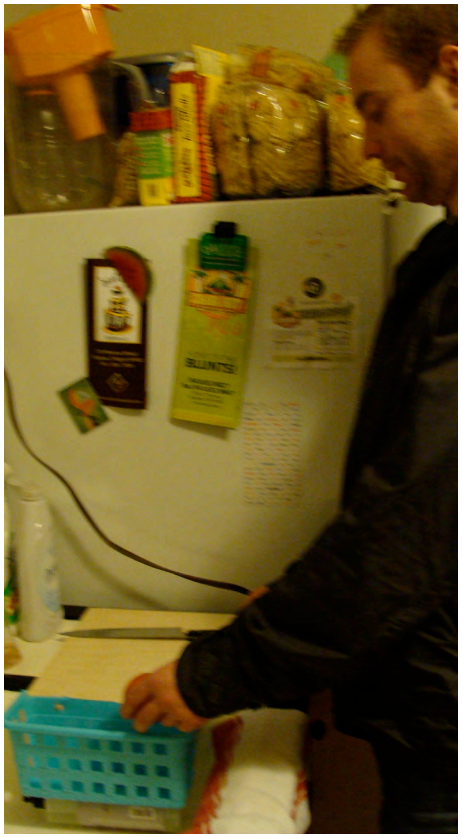
5. Hands were used to scoop and transfer food

Ideation Sketches



Initial Prototype Testing

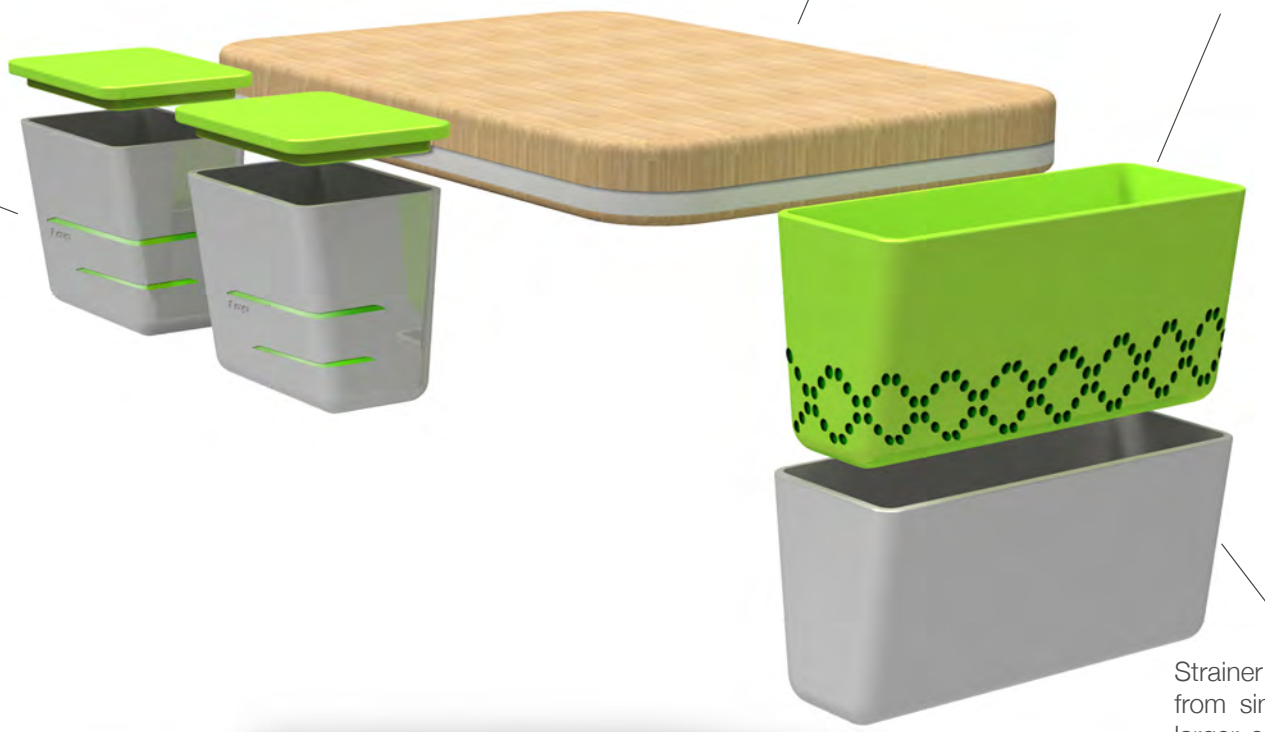
A group of four met to test and discuss the potential of a customizable cutting system.



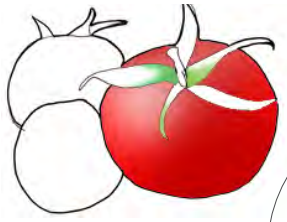
"I like the puzzle piece feeling. People love things they can customize"

The Conclusion

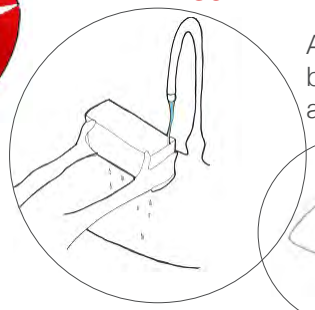
A cutting board system with multiple attachments that can be arranged in a way that works best for you. The magnetic connections allow for fast and effortless transitions. Hang attachments into the sink, off the counter, or use them independently, it's up to you. The system saves counter space and helps maintain a clean cutting surface.



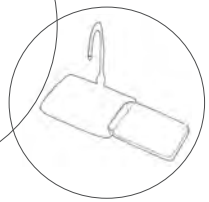
The Scenario



rinse



Attach strainer to cutting board. Water drains into sink as the veggies dry.

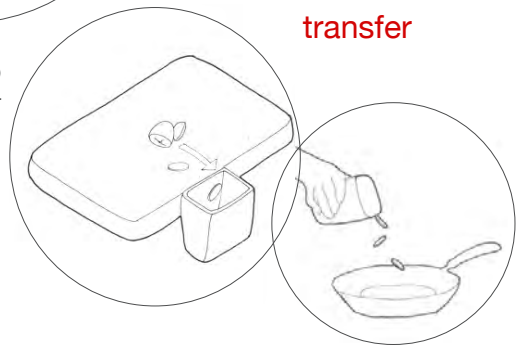


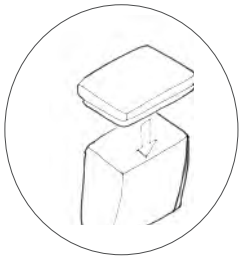
chop

Easily pull vegetables from strainer to begin chopping.

transfer

Pop on small attachment to measure and quickly transfer food to the pan.





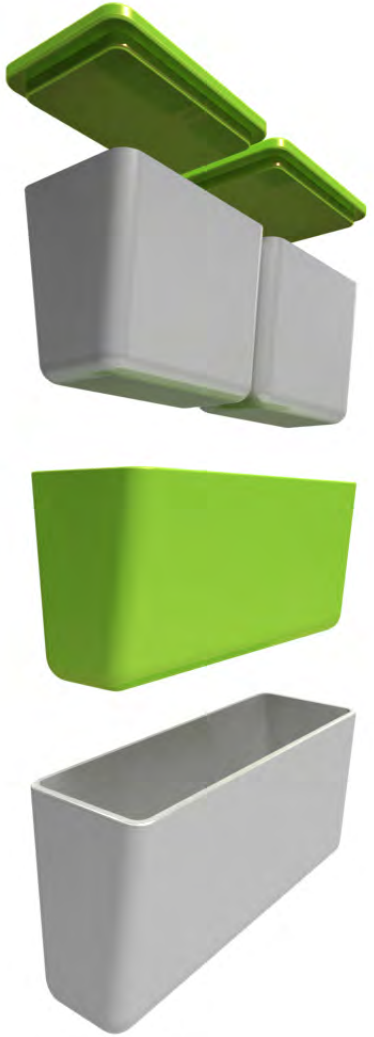
store

Excess fruits and vegetables can be stored in the fridge for later. This is also great for the cook that prefers to chop and prepare food in advance.

System includes:

-2 small containers with lids
-1 large container
-1 Strainer
-1 Cutting board 11” x 15”

All of the pieces nest together to save precious storage space



The Final Prototype
In Context