

The background image shows a vast expanse of clouds from an aerial perspective, likely from an airplane window. The clouds are dense and textured, appearing white and light gray against a dark blue sky. The horizon line is visible in the distance, where the clouds meet a bright orange and yellow horizon, suggesting a sunrise or sunset. In the bottom left corner, a small portion of an airplane's interior or wing is visible.

D'VAN HOWARD

INDUSTRIAL DESIGN 2019

D'VAN HOWARD

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EDUCATION

University of Cincinnati, DAAP

BS in Industrial Design
Class of 2020

Tama Art University

Product Design Exchange Student
Tokyo, Japan
Fall 2018

University of Kentucky

BS in Mechanical Engineering
Class of 2014

Pamplona Learning Spanish Institute

Renewable Energies Study Abroad
Pamplona, Navarra, Spain
Summer 2013

EXPERIENCE

Cramer Inc | Kansas City, MO Design Co-op (Spring 2019)

Joined small R&D team developing upcoming chair lines. Participating in planning, concept development, CAD development, and testing of chairs.

DePuy Synthes (Johnson&Johnson) | Raynham, MA Design Co-op (Summer 2018)

Worked with team on presentation illustrations, user research, and concept development. Cintiq sketching, UI/UX, prototyping concepts. Lead design of personal project and presented concept to engineers.

Ethicon Endo-Surgery (Johnson&Johnson) | Blue Ash, OH Design Co-op (Fall 2017)

Supporting designers with concept development and research implementation. Sketching, ideating, Keyshot, InDesign, prototyping concepts. Presenting ideas in small meetings. Working with other J&J employees on various projects.

Nottingham Spirk | Cleveland, OH Design Intern (Spring 2017)

Sketching, ideating, prototyping concepts. Presenting ideas in small meetings. Working with shop workers to develop prototypes.

NACCO Materials Handling Group | Greenville, NC Design Engineer (Dec 2014 - Aug 2015)

Constructing and modifying component models of forklift trucks for specialty batch orders. Provided engineering support to manufacturing line.

Toyota Motor Manufacturing Kentucky | Georgetown, KY Paint Specialist Co-op (Summer 2012)

Redesigned a prototype moon-roof installation component on manufacturing line. Designed and began development on new dolly to reduce strength required to push car frame.

SKILLS

Soft Skills - Analytical Thinking, Strategy, Empathy, User Experience, Mechanical Prototyping, Story Telling, Human Centered Design, Leadership, Ideation, Scrum Planning, Systems Design, Hindsight, Adaptability, Spanish (low intermediate), Japanese (low intermediate)

Software - Solidworks, Rhinoceros, Fusion 360, KeyShot, Sketchbook Pro, Procreate, Microsoft Office (Word, PowerPoint, Excel), HTML, Adobe Suite (Photoshop, Illustrator, InDesign)

Hard Digital Skills - CAD, Parametric Modeling, Surface Modeling, Rapid Prototyping, 3D Printing (FDM & SLA), Laser Cutting, CNC Machining, 3D Rendering, Digital Sketching, Photo Editing, UI Design

Hard Skills - Hand Sketching, Mechanical Prototyping, Woodshop, Model Making, Soldering, Hand Sewing

INVOLVEMENT

Design For America at UC

Team Lead / Studio Lead
2016 - 2018

UC Honors Program

2015 - Present

UK Habitat For Humanity

Club President
2013 - 2014

UC Dean's List

2015 - Present

LIKES

Problem Solving, Science Fiction, Podcasts, Ultimate Frisbee, Learning New Skills, 3D Printing, Pizza Making, Craft Beer, Food, Superheroes, Board Games, Bowling, Cooking, Hot Sauces

about me

I've always been passionate about helping, learning, and making. I followed the engineering route until I discovered Industrial Design, and now I'm not looking back.

I believe that it's where design meets engineering, that true innovation can be discovered.

FUTURIST. OPTIMIST. PIZZAIST.



Pendulumen

Modernizing Traditional Elements

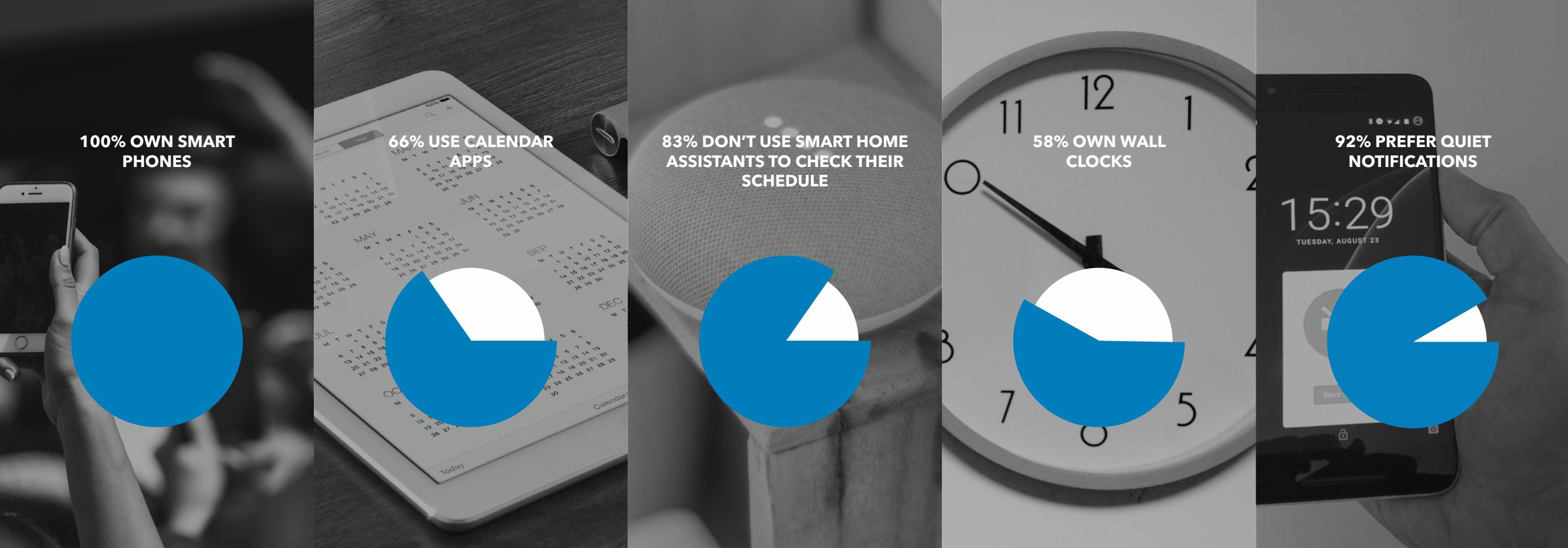




redefining tradition

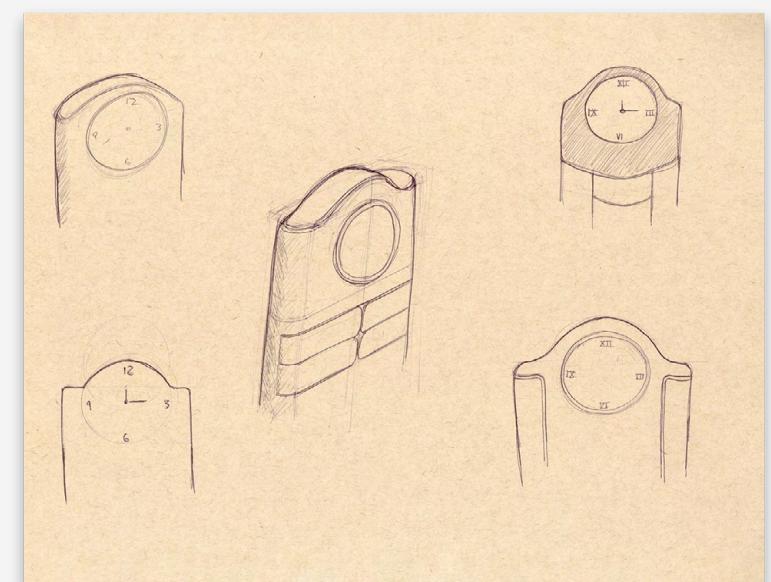
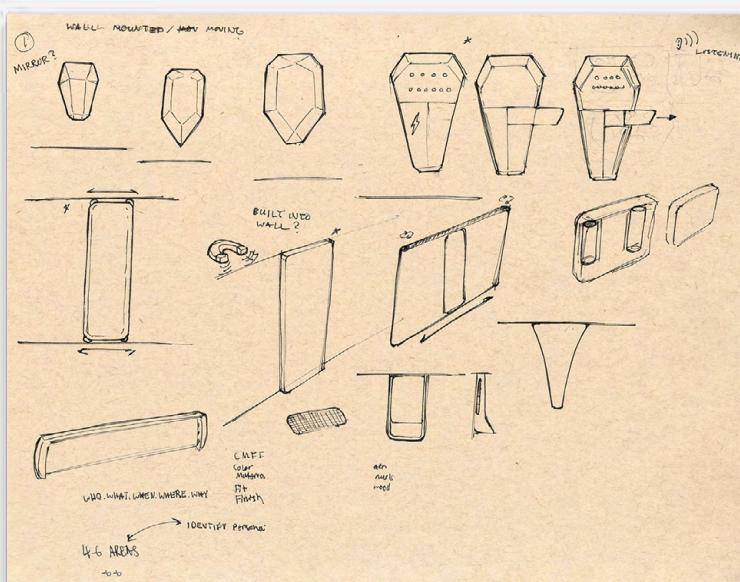
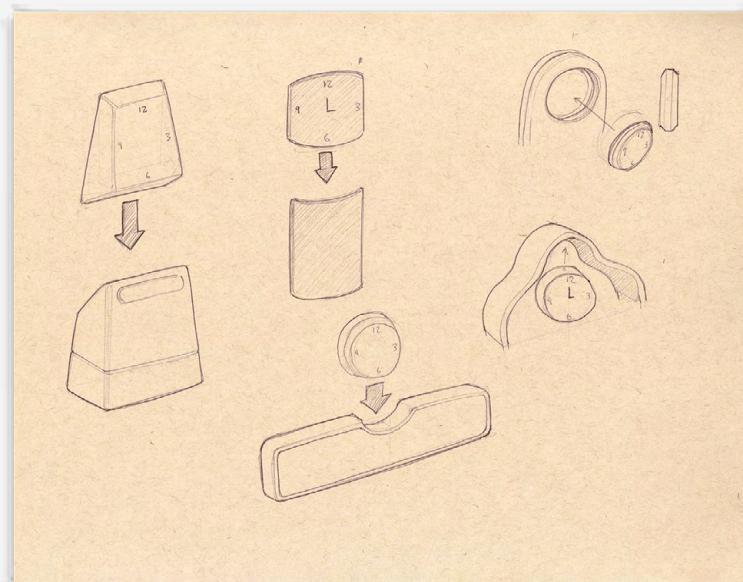
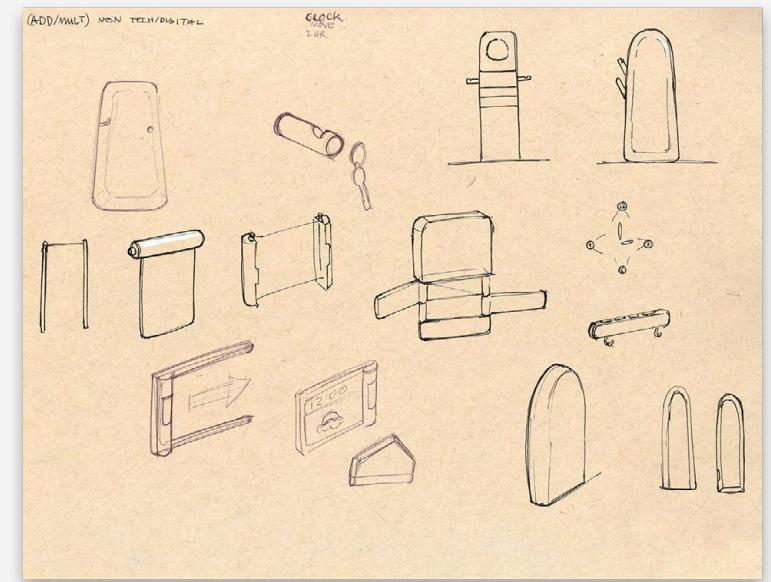
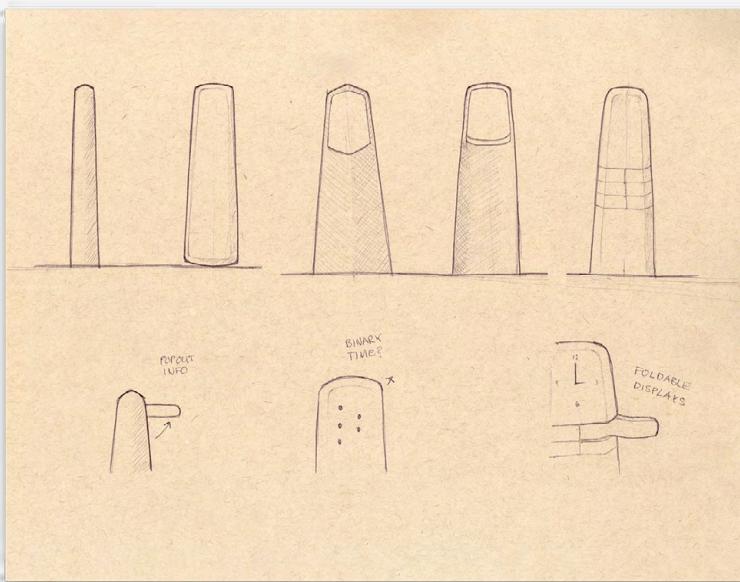
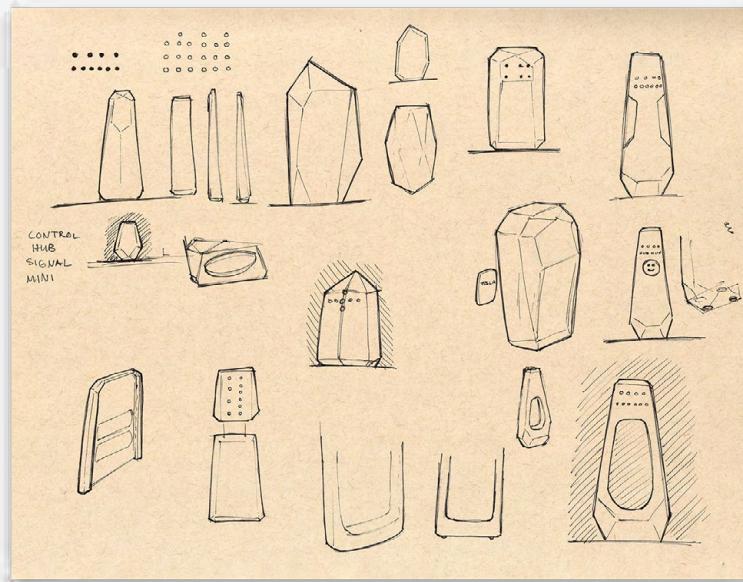
The Grandfather Clock lost its place in the home because of advancing time keeping technology. Less bulk, less adjustment, more functions.

To update the clock, I examined the current clock and technology space, and how technology is changing the way we interact with our home.



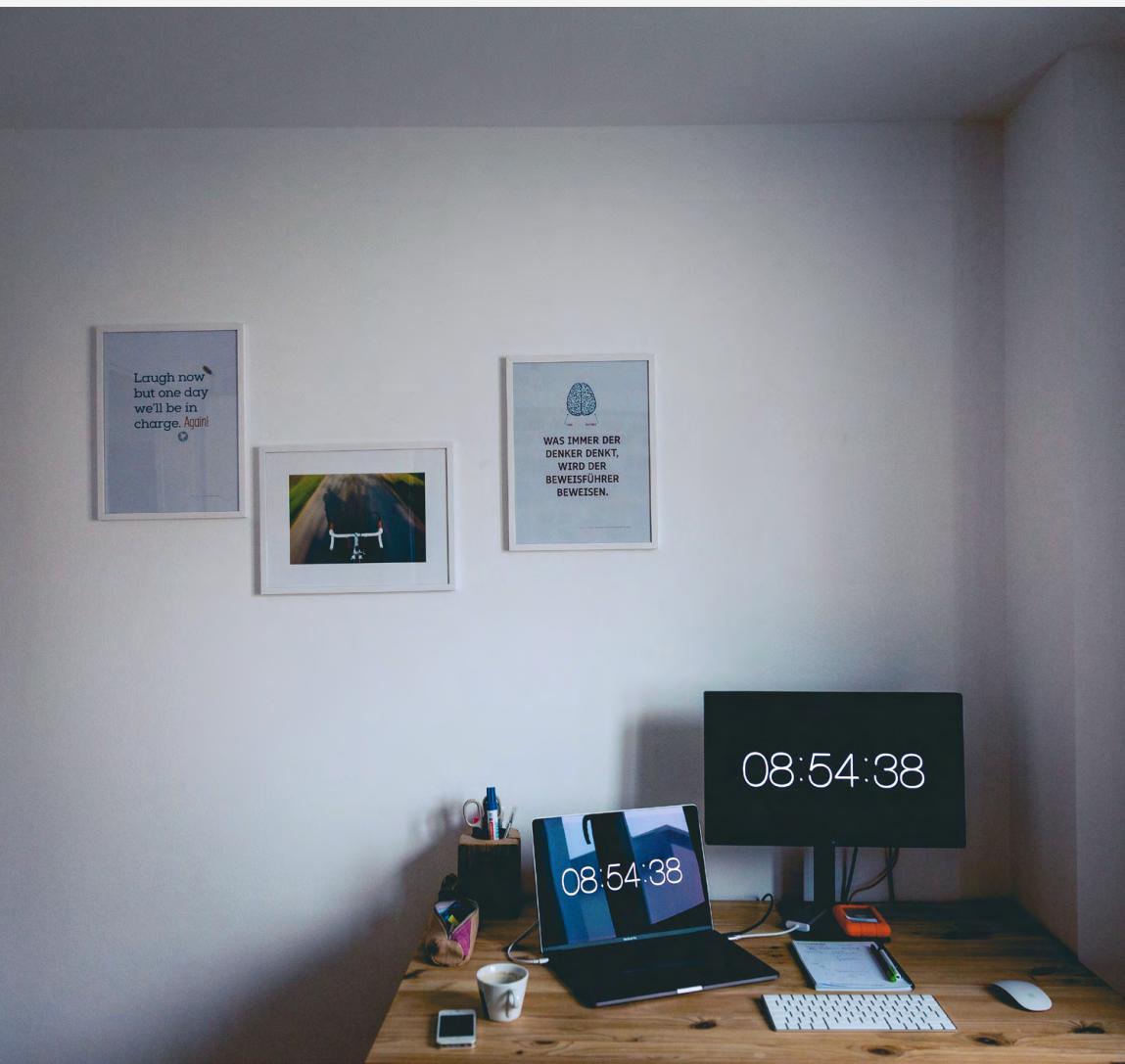
research

To inform the direction and decisions about the design and function, I backed up my design choices with research



brainstorm sketches

Using the research I brainstormed on modern functions and technology that could rejuvenate the grandfather clock



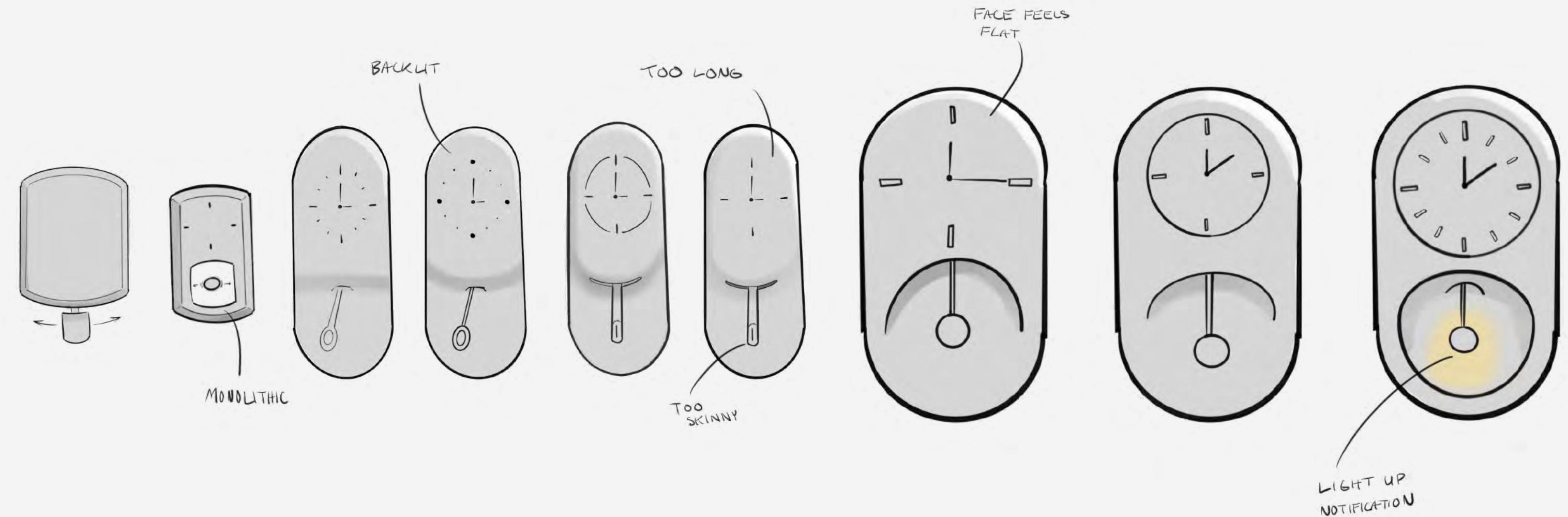
Through research and observation it became apparent that the grandfather clock would not fit in the current workspace of users

The pendulum was the main component that made it possible, so I pivoted to using the pendulum clock as the focus

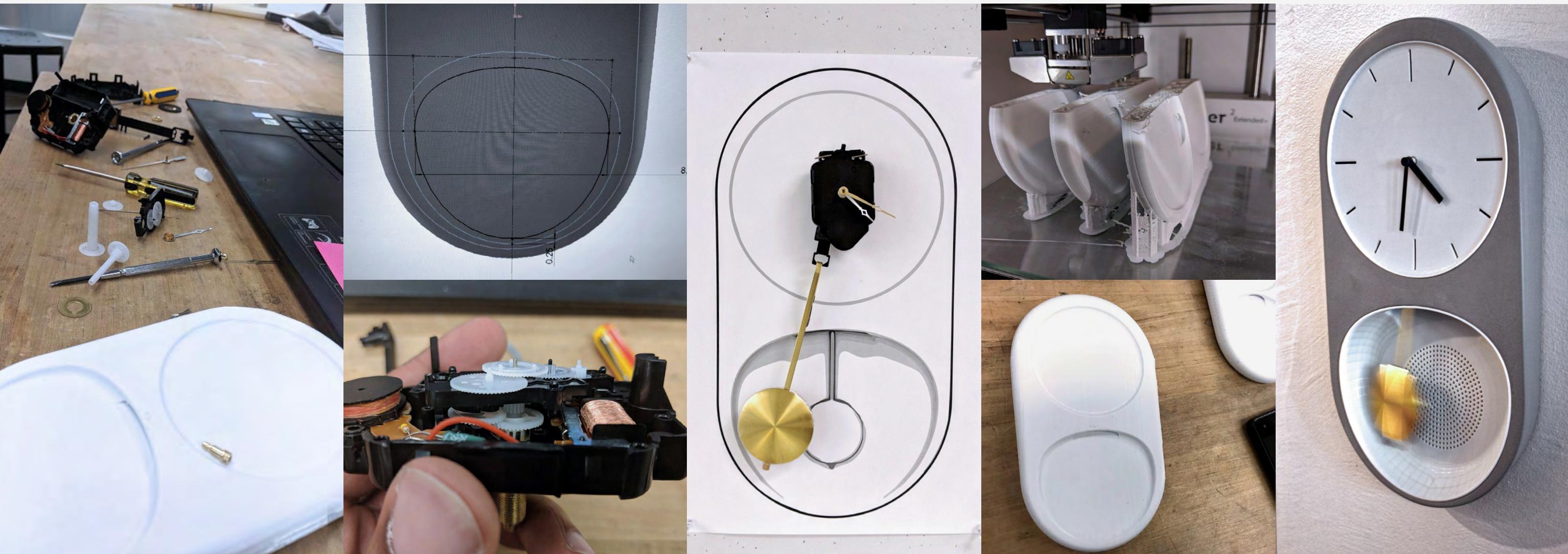
pivot



analogous inspiration



concept



prototyping

PENDULUMEN

SMART HOME ASSISTANT





NOTIFICATION PENDULUM

The swinging pendulum glows to remind you of your scheduled events

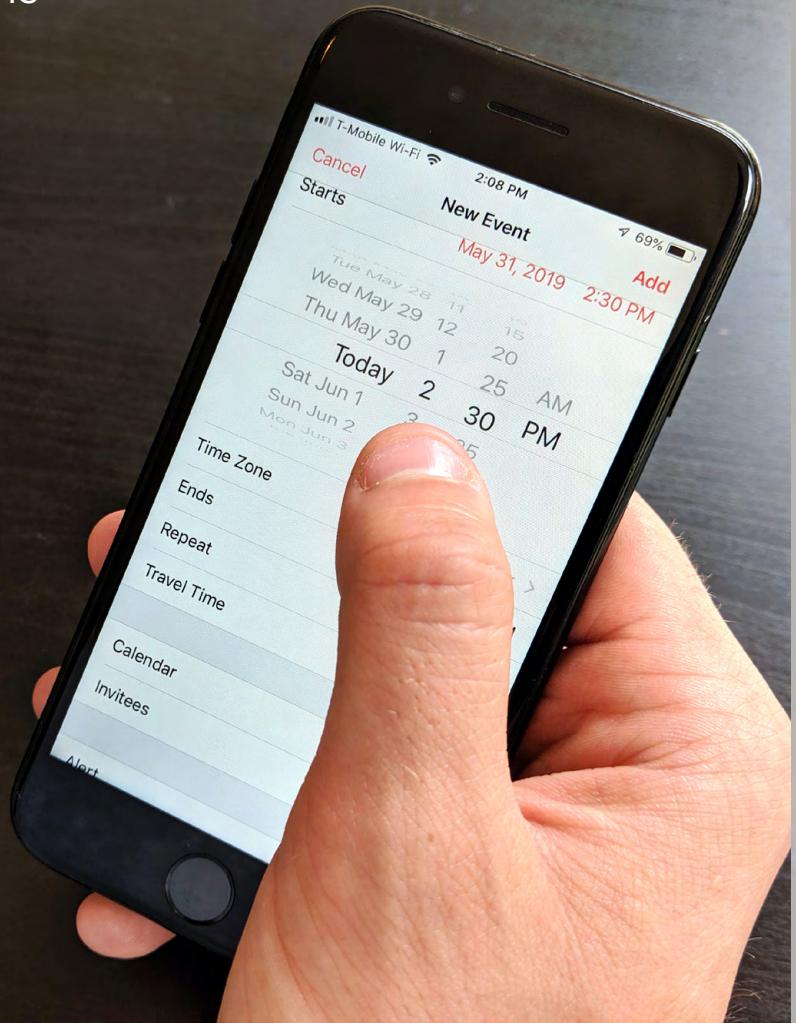
REPAIRABLE

The internals are easily accessible through the back panel, making repairs and updates easy for the user





make plans



remember



enjoy



notification pendulum



SHADE

Eliminating Distractions While Working

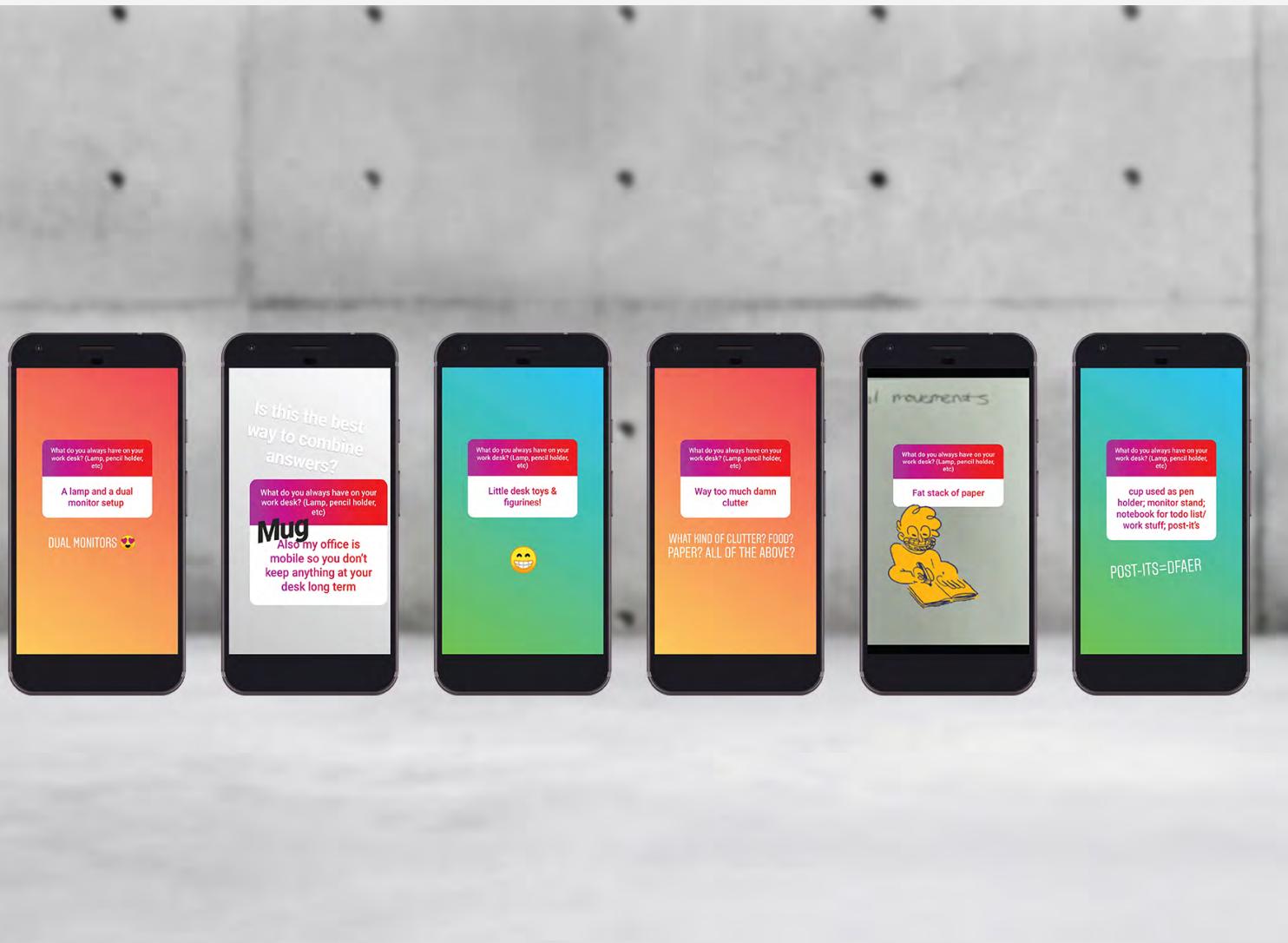
Tama Art University Exchange



constant companion

Smart-phones give us access to all the knowledge the world has to offer,
but all this brain stimulation content makes it hard for you to stay away.

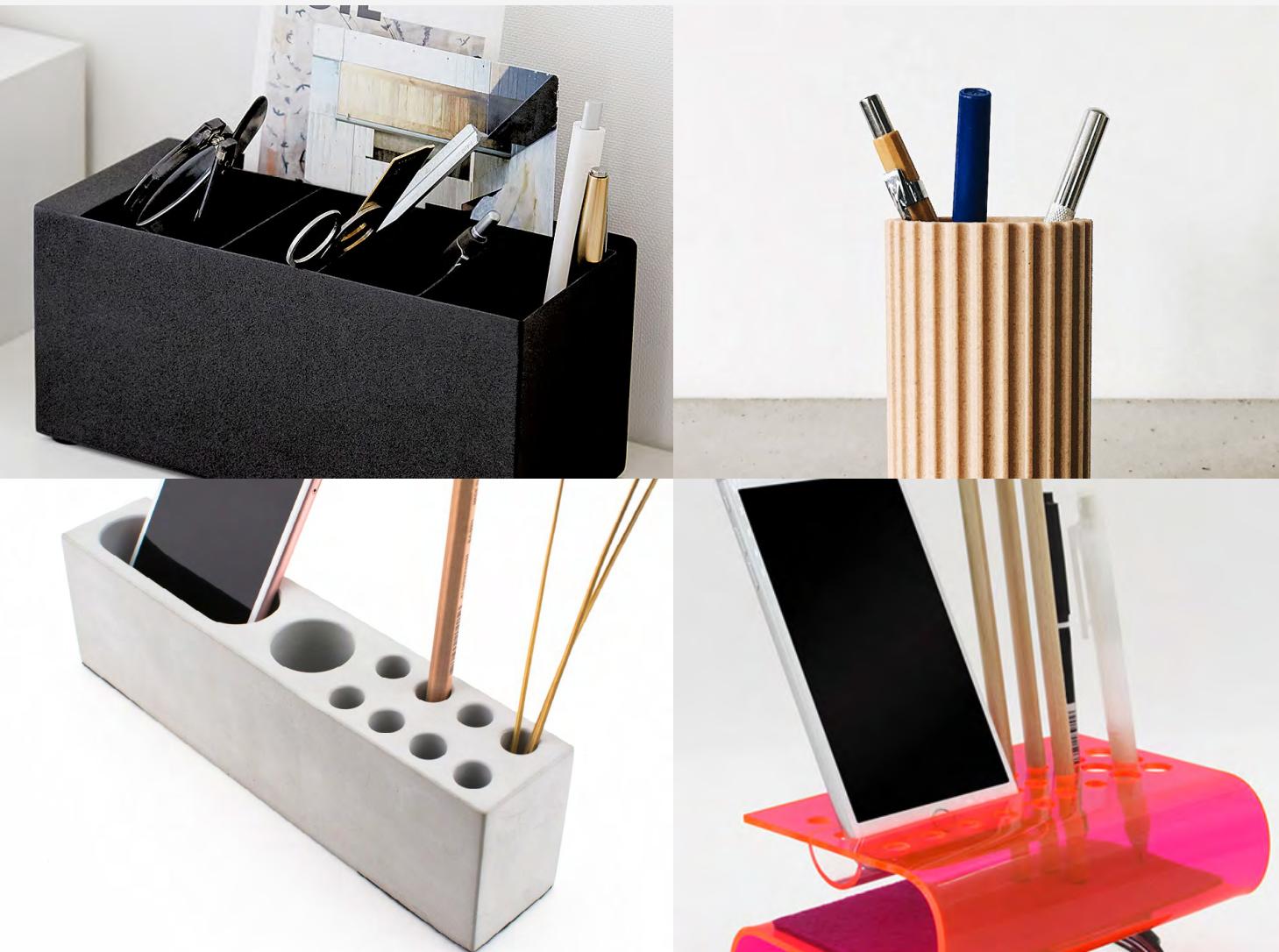
The brain stimulating effects of smart-phones harm us most while we are
hard at work.

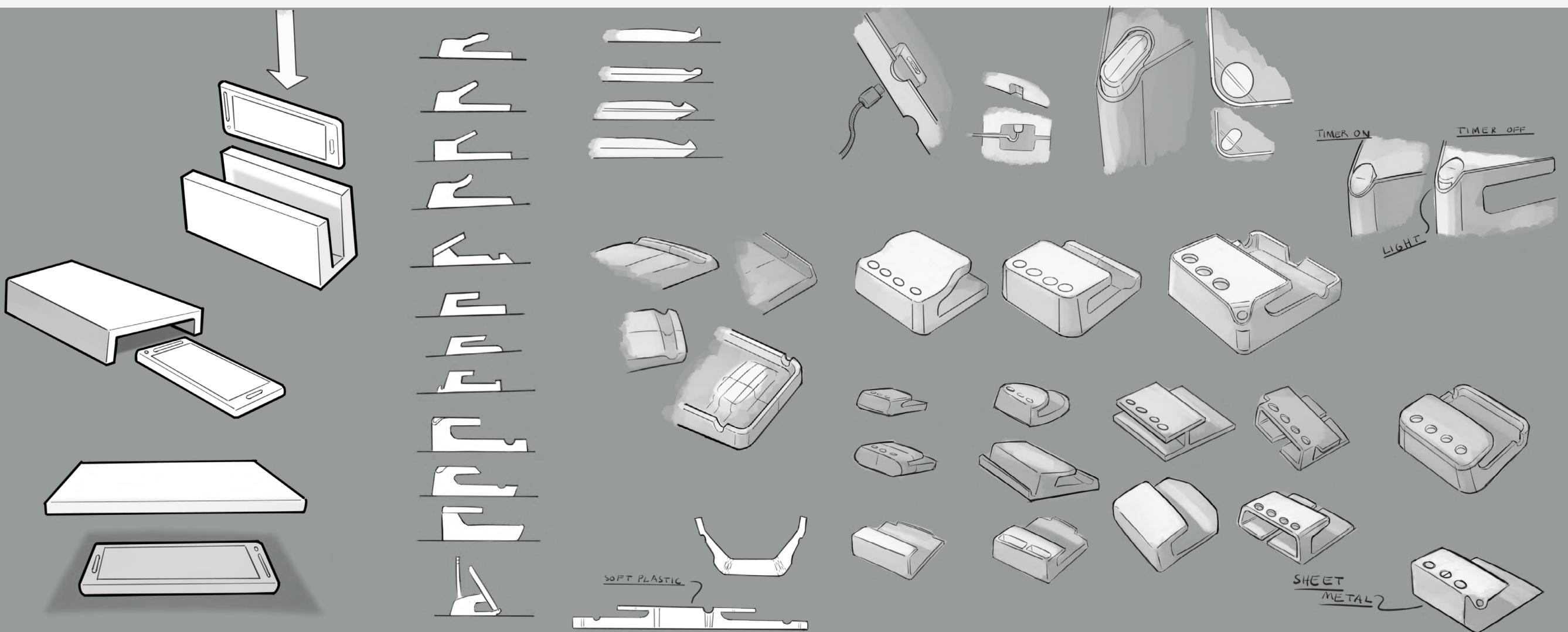


research

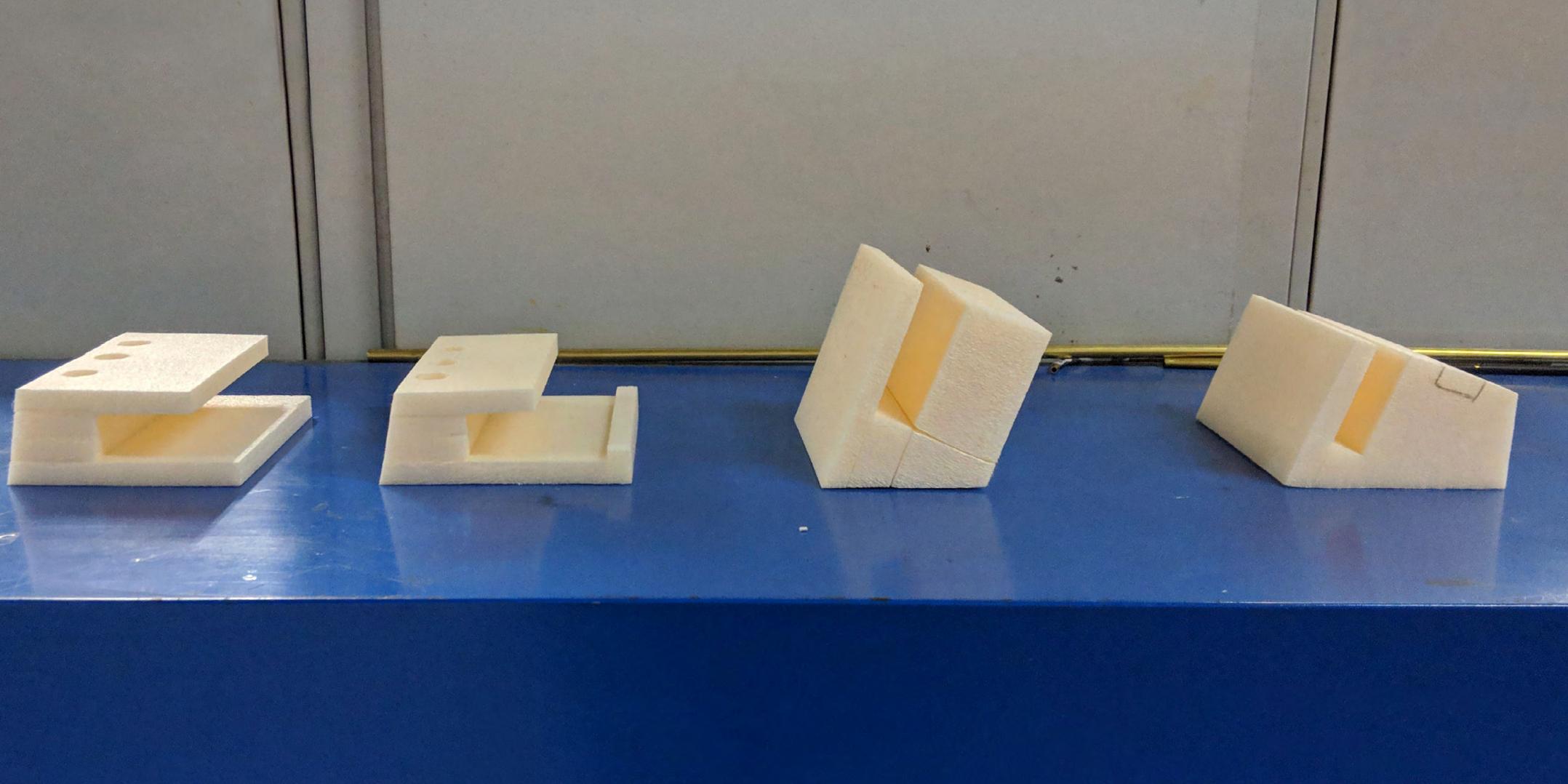
With smartphone users being my target market, Instagram worked well to obtain research.

Looking at the market of desk accessories, current smartphones products all prioritize screen visibility. For those wishing to decrease their screen time, this can be detrimental.





sketches



3d sketching

Physical prototyping was important to understand the interactions and understanding the how the phone can be both blocked from your view while also being accessible when needed.



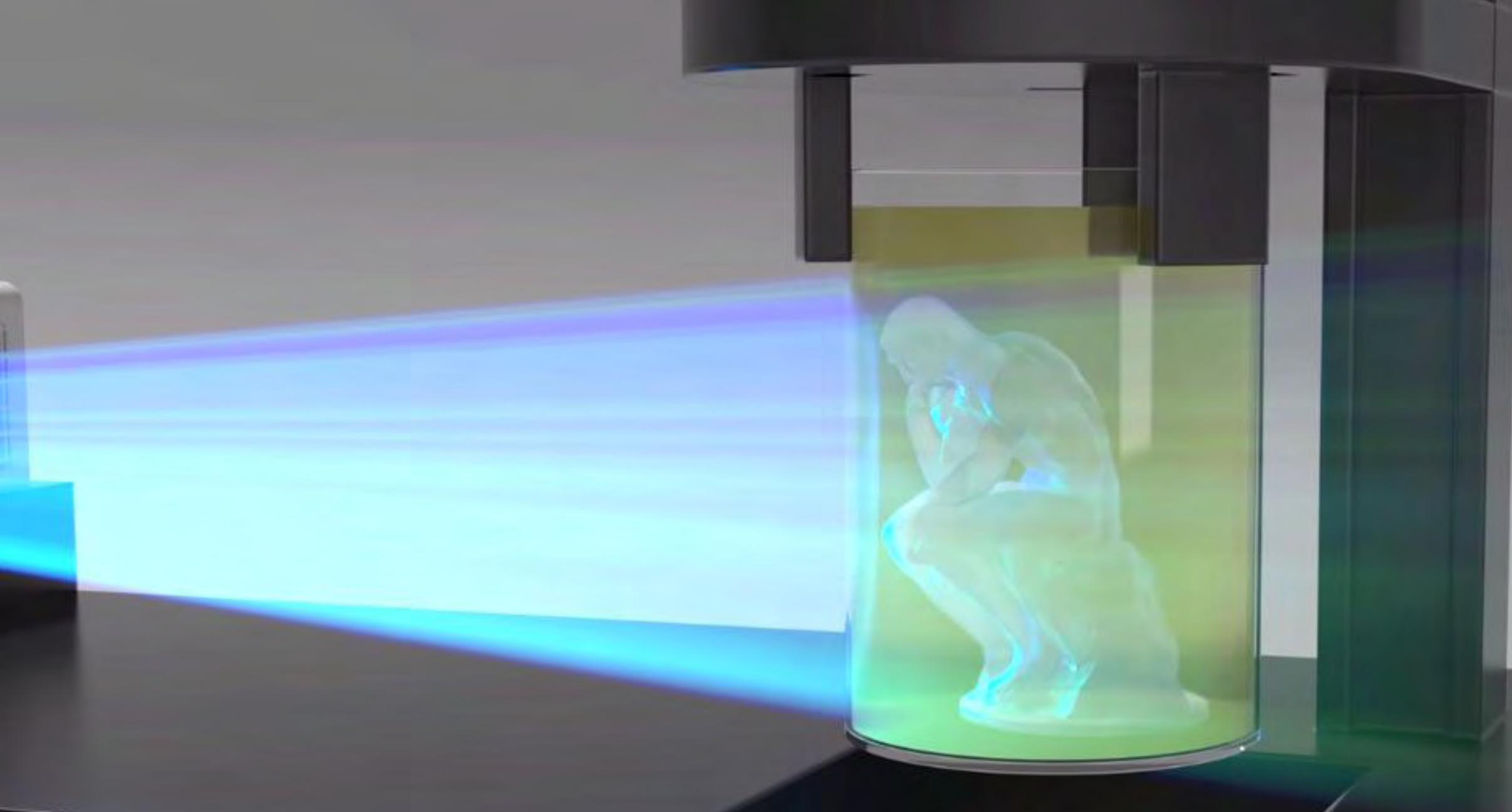




LightJet Printer

Two week concept product for 3D
printing in 2027





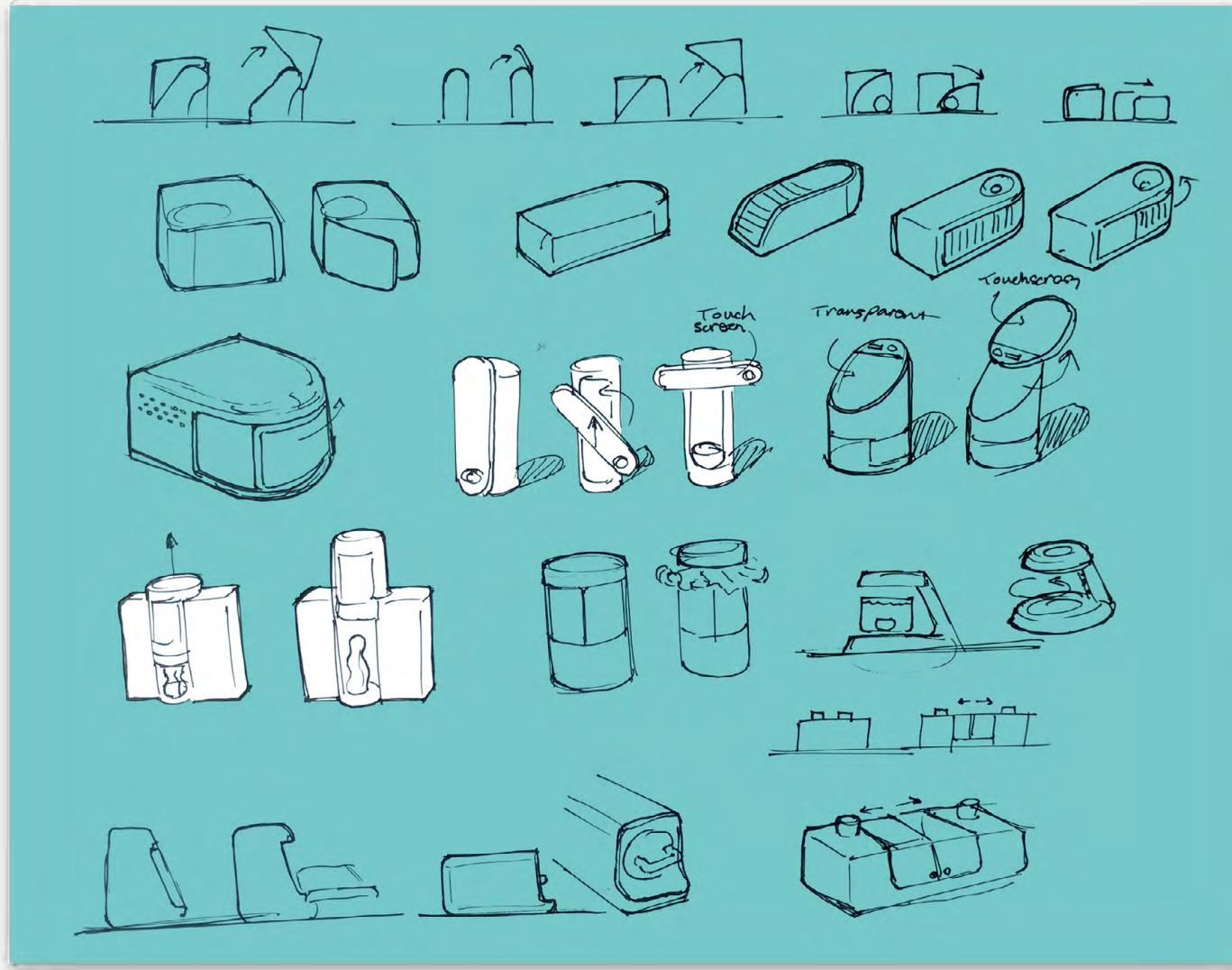
current breakthrough

In early 2019, scientist have developed a new method of 3d printing using light rays projected into a liquid resin. This new method has been found to be 100 times faster. Now imagine how this breakthrough will change printing in the future.

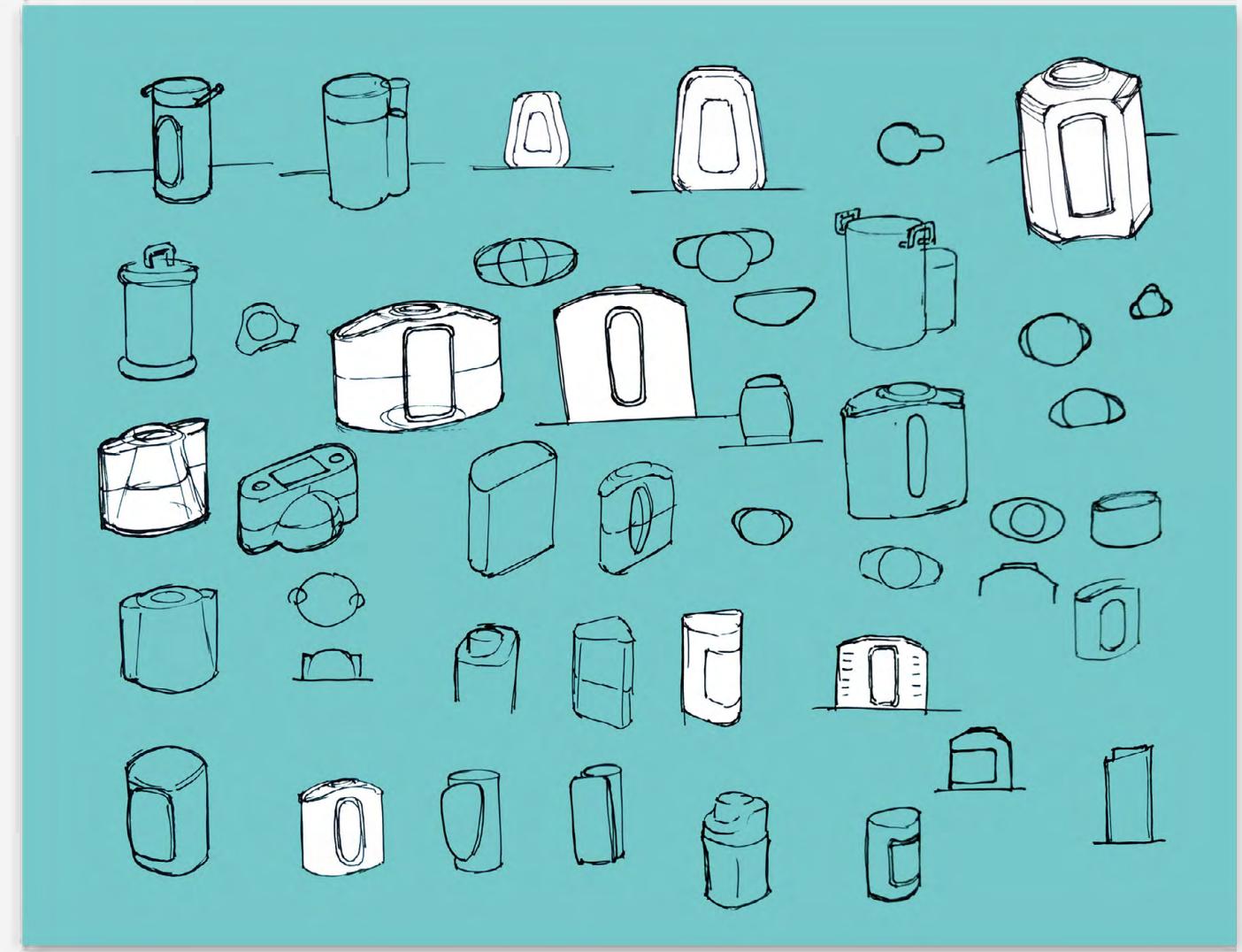


aesthetic

3D printing has promised a better future, but has traditionally been too slow for traditional home use. For this concept the goal was to fit this printer to a residential setting.



sketches



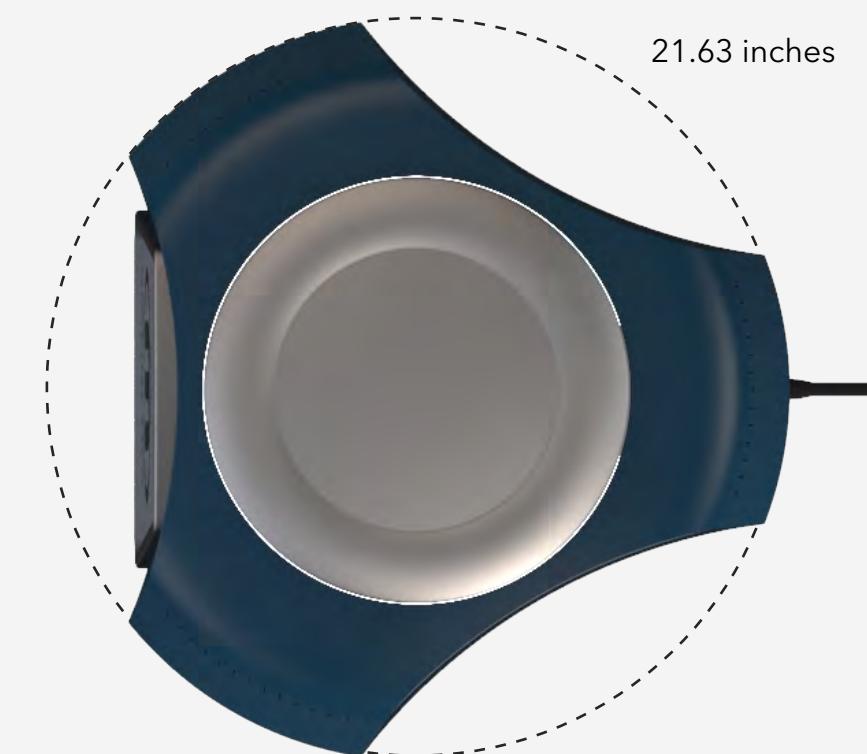
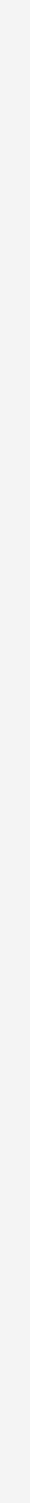
In the context of a home setting, I explored forms that would potentially sit on counter-tops, keeping in mind issues of interaction and space with the opening

Makerbot LightJet

Insanely fast printing at
your finger tips



25.25 inches







Washi Watch

Exploring Japanese Materials

Tama Art University Exchange



My semester project was
to explore Japan and find
inspiration for a project

overview



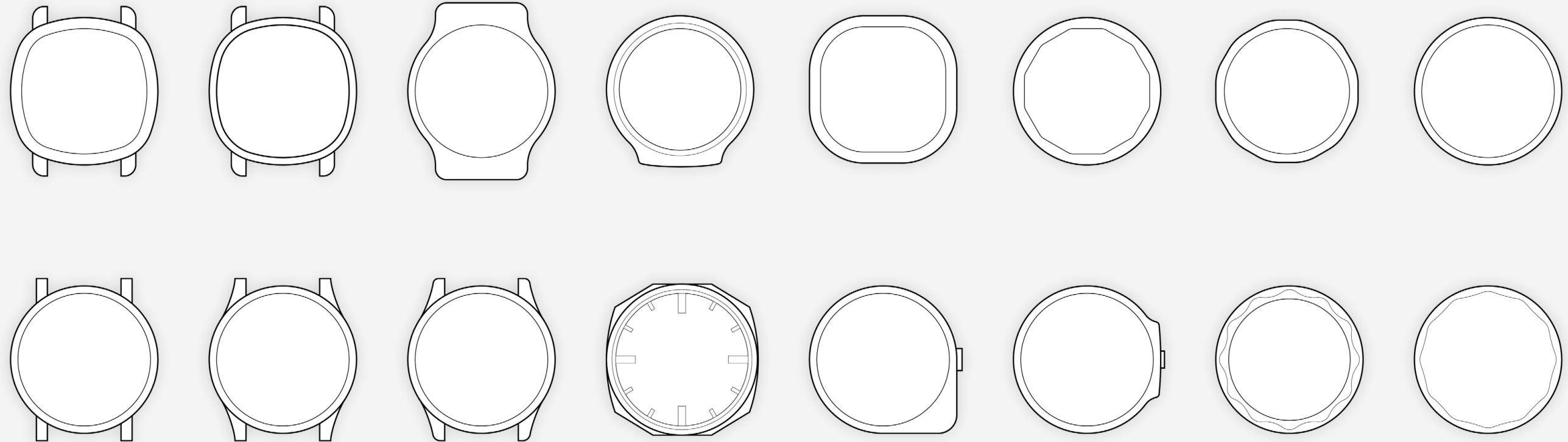
washi aka japanese paper

I became fascinated with the many uses of washi. Washi can come in many forms and has a huge amounts of applications. Stationary, clothing, lighting, umbrellas, and much more.



watch-strap?

I was surprised to not find a watch that attempted to use paper as a watch-strap, so I decided to make my own.



case body

Going through several iterations I decided to choose a simple design that would bring more focus to the watch-strap



watch face

I considered several materials for the case body and how the case material would affect the watch face material.



material choice

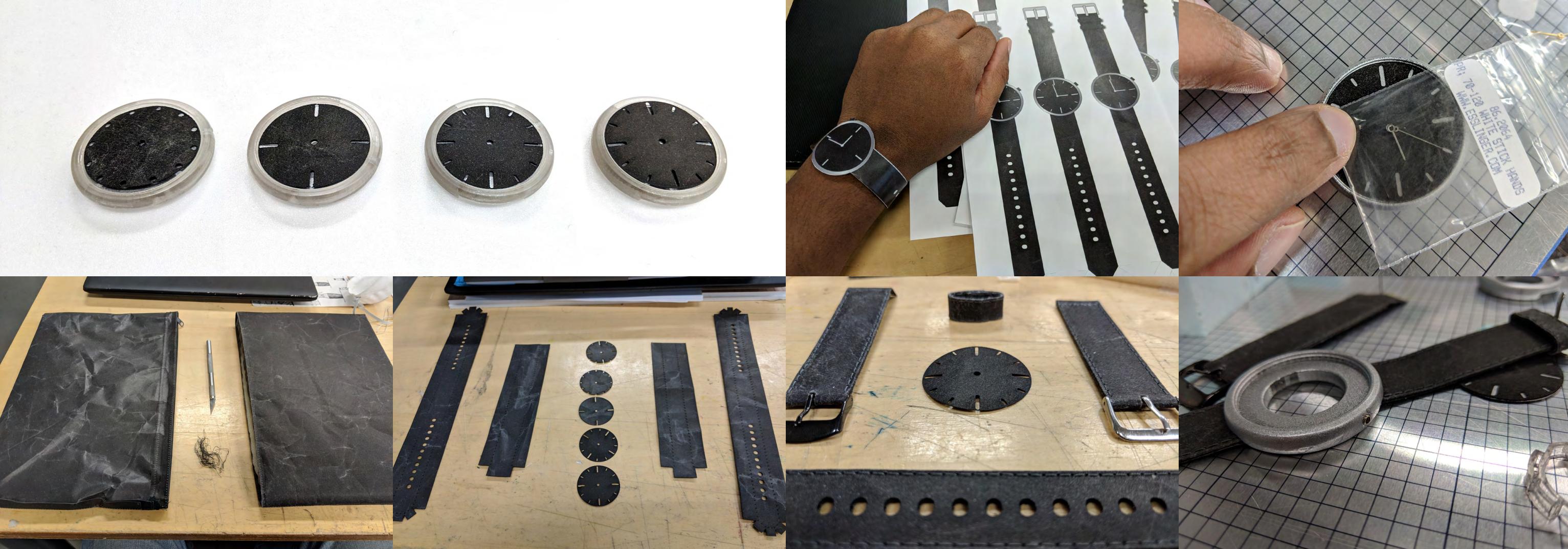


I was on the verge of making my own material when I discovered the **SIWA** brand. They are made from a special blend of wood fiber and plastic called **Naoron**. With the added strength from plastic, I felt confident it could be used as a watchband.



final round

Faces were chosen to optimize the readability of the face white and maximize the area of the washi dial.



prototyping

To choose a final face, I made prototypes to get a better idea of the scale of the watch on the wrist.

I chose to use standard watch parts instead of custom so that I could reduce the cost of the watch.



Laser cut dial

Ergonomic crown

Aluminum case

Water resistant

Tear resistant











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THANK YOU

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