

The background image is a wide-angle aerial photograph of a vast, textured landscape of cumulus clouds. The clouds are white and light gray, with darker shadows on the left side. Above the horizon, the sky transitions from a deep blue at the top to a warm orange and yellow glow near the horizon, suggesting a sunrise or sunset. In the bottom left corner, a small portion of an airplane's window and frame is visible, providing a sense of altitude.

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, conceiving, 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, ideating, 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

DIGITAL - Solidworks, Rhino, Fusion 360, KeyShot, Microsoft Office (Word, PowerPoint, Excel), HTML, Adobe Suite (Photoshop, Illustrator, InDesign), Eager to Develop New Skills

ANALOG - Analytical Thinking, Sketching, Empathy, Human Centered Design, Prototyping, 3D Printing, Laser Cutting, CNC programming, Ideation, Woodshop, Leadership, 20/20 Hindsight

LANGUAGES - English (Native), Spanish (Beginner Proficiency), Japanese (Beginner Proficiency)

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, Sci-Fi, 3D Printing, Ultimate Frisbee, Learning new skills, Podcasts, 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

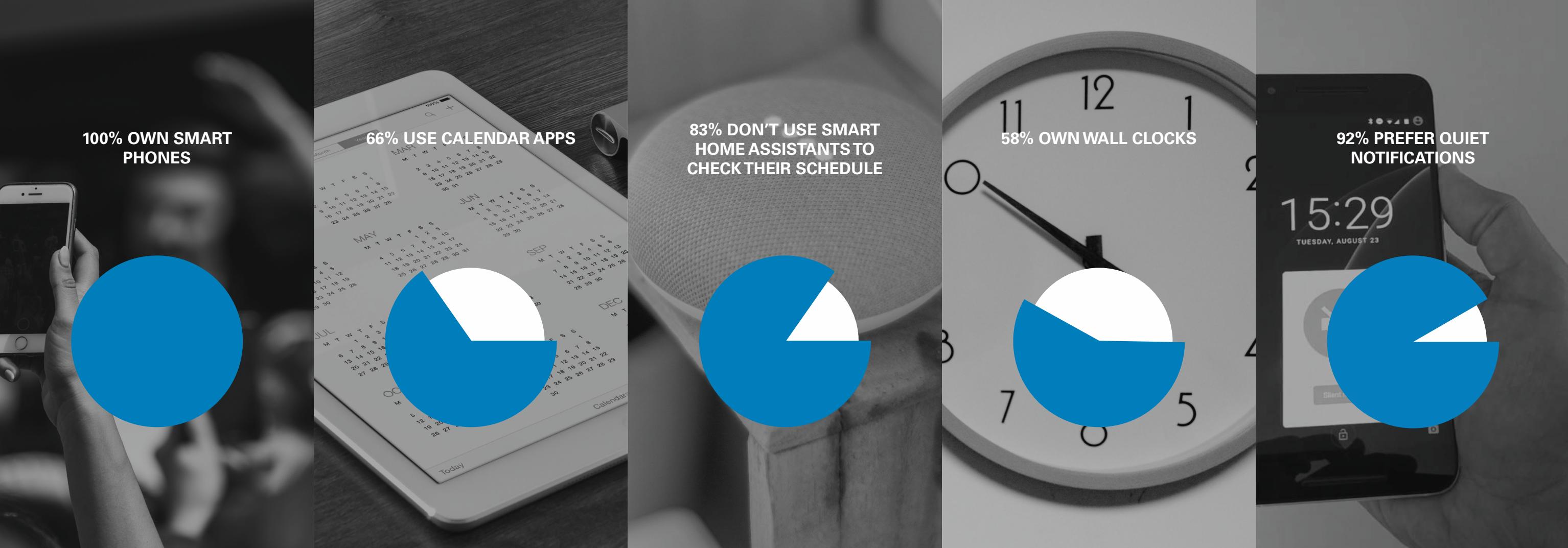




redefining tradition

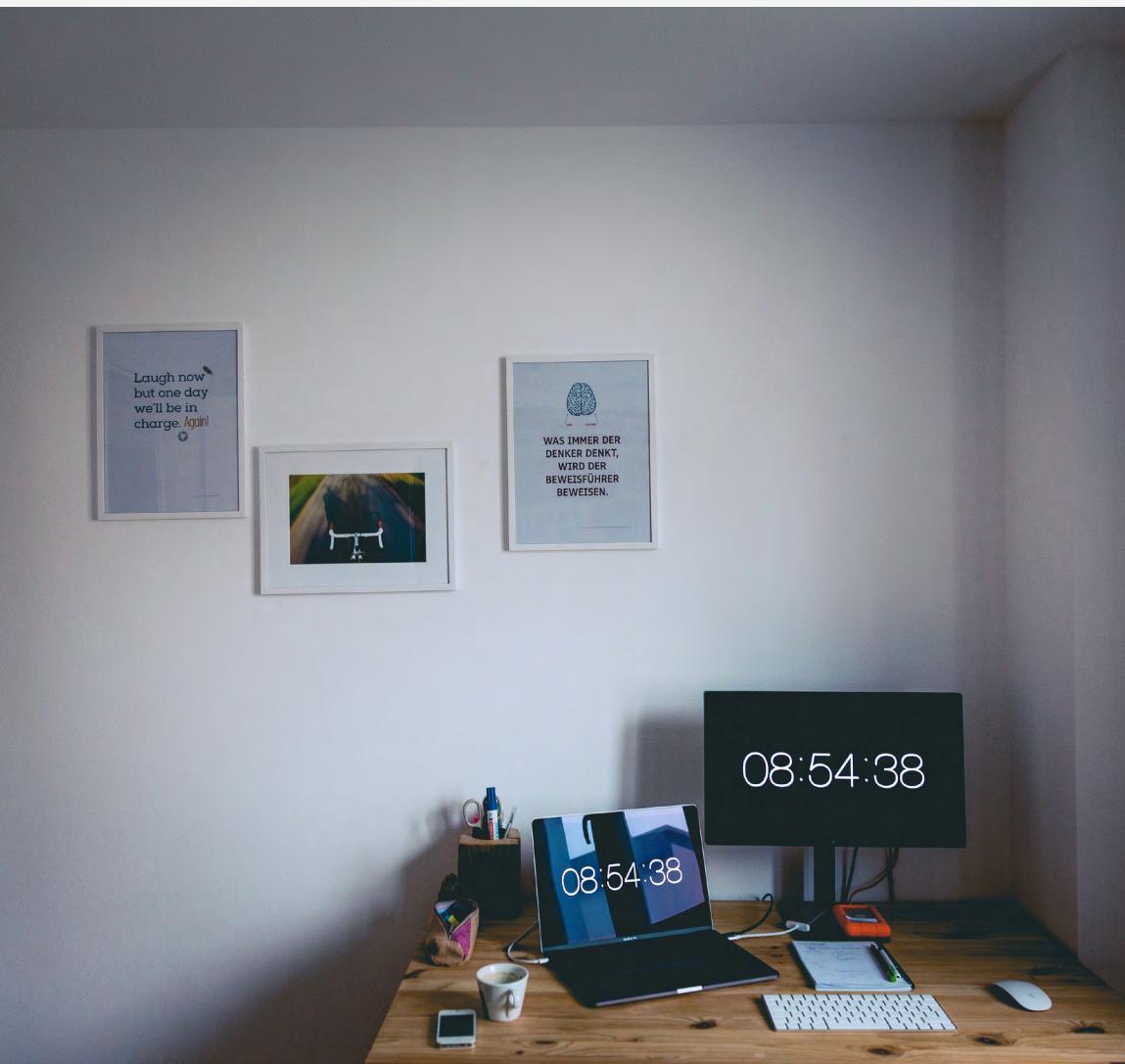
The Grandfather Clock lost its place in the home because of advancing time keeping technology. Less bulk, less adjustment, more functions.

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



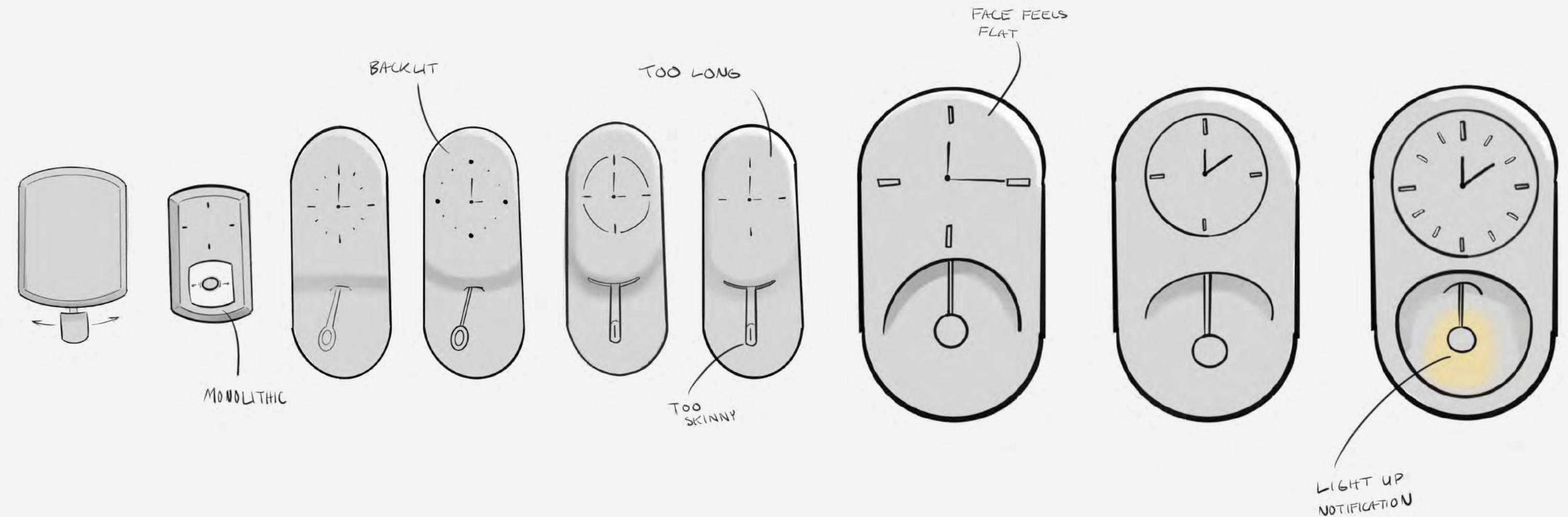
Through research and observation it became apparent that the grandfather clock would not fit in the current workspace of users

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

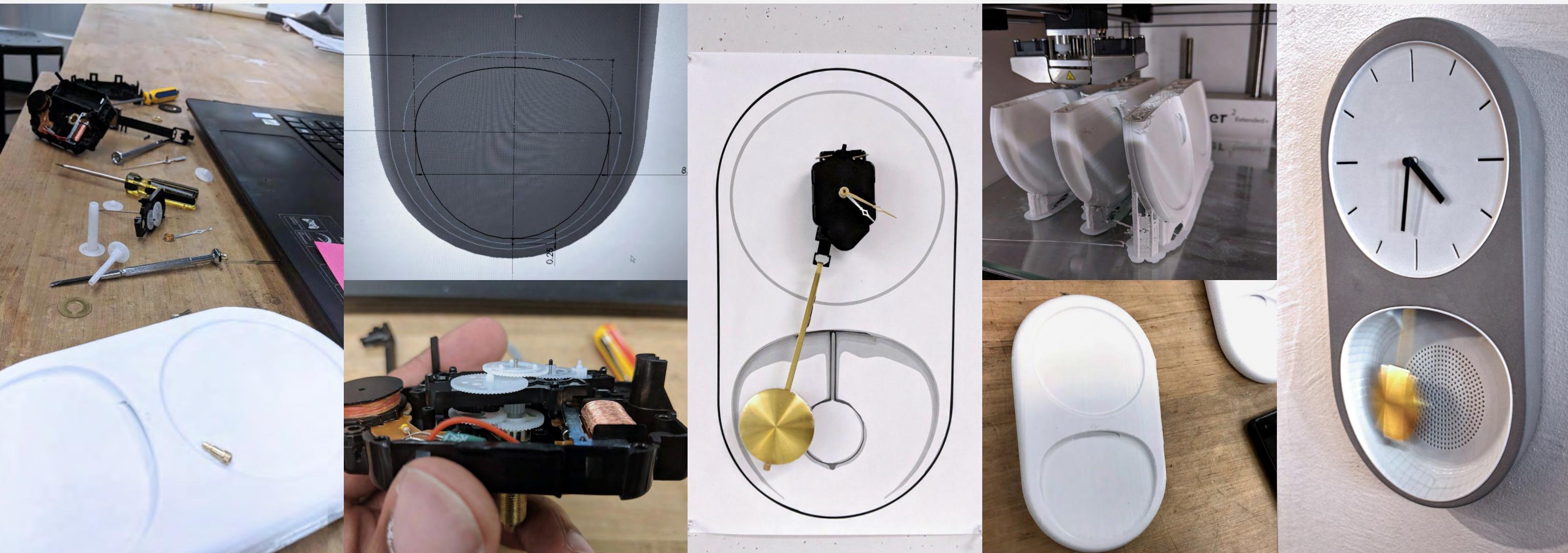
pivot



analogous inspiration



concept



prototyping

PENDULUMEN

SMART HOME ASSISTANT

Google Assistant

12 mm drivers

LED back-lit face

Notification Pendulum





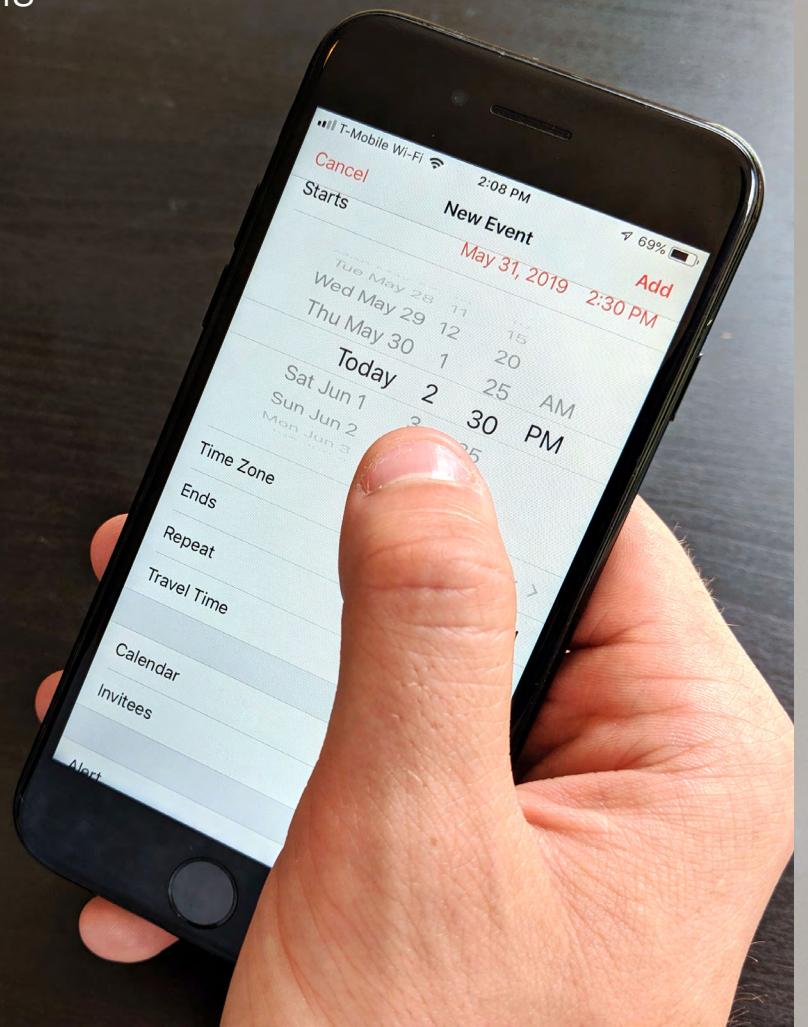
NOTIFICATION PENDULUM

The swinging pendulum glows to remind you of your scheduled events





make plans



remember



enjoy



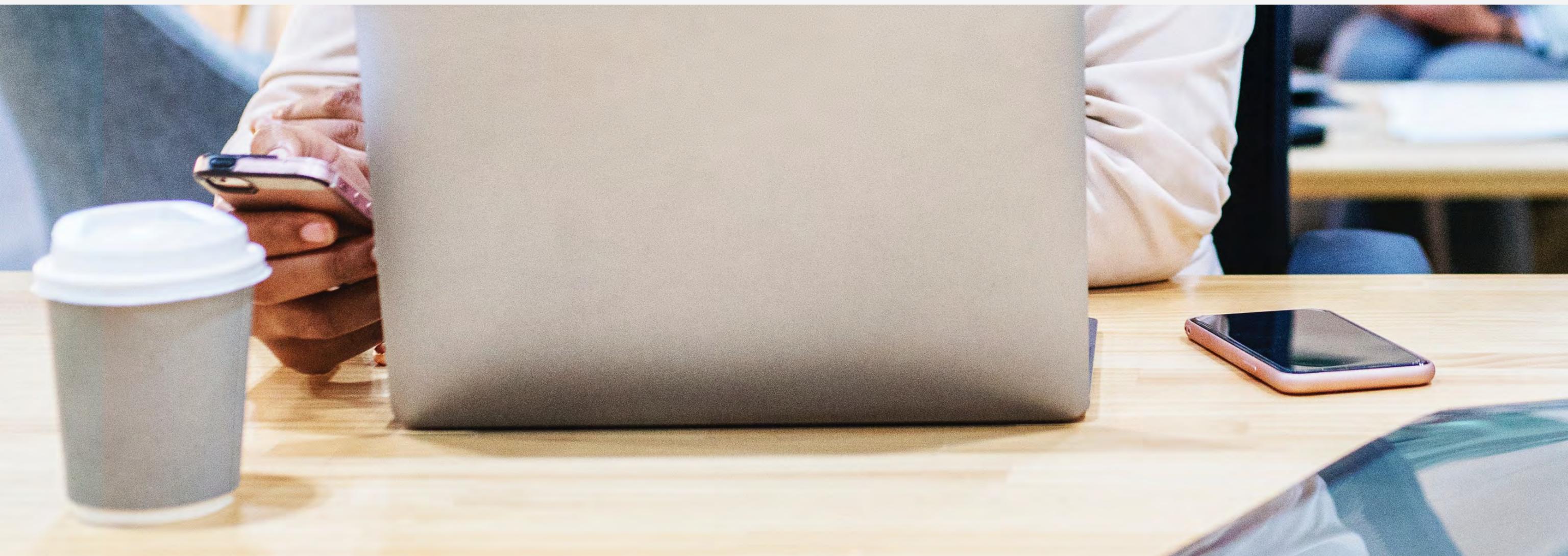
notification pendulum



SHADE

Eliminating Distractions While
Working

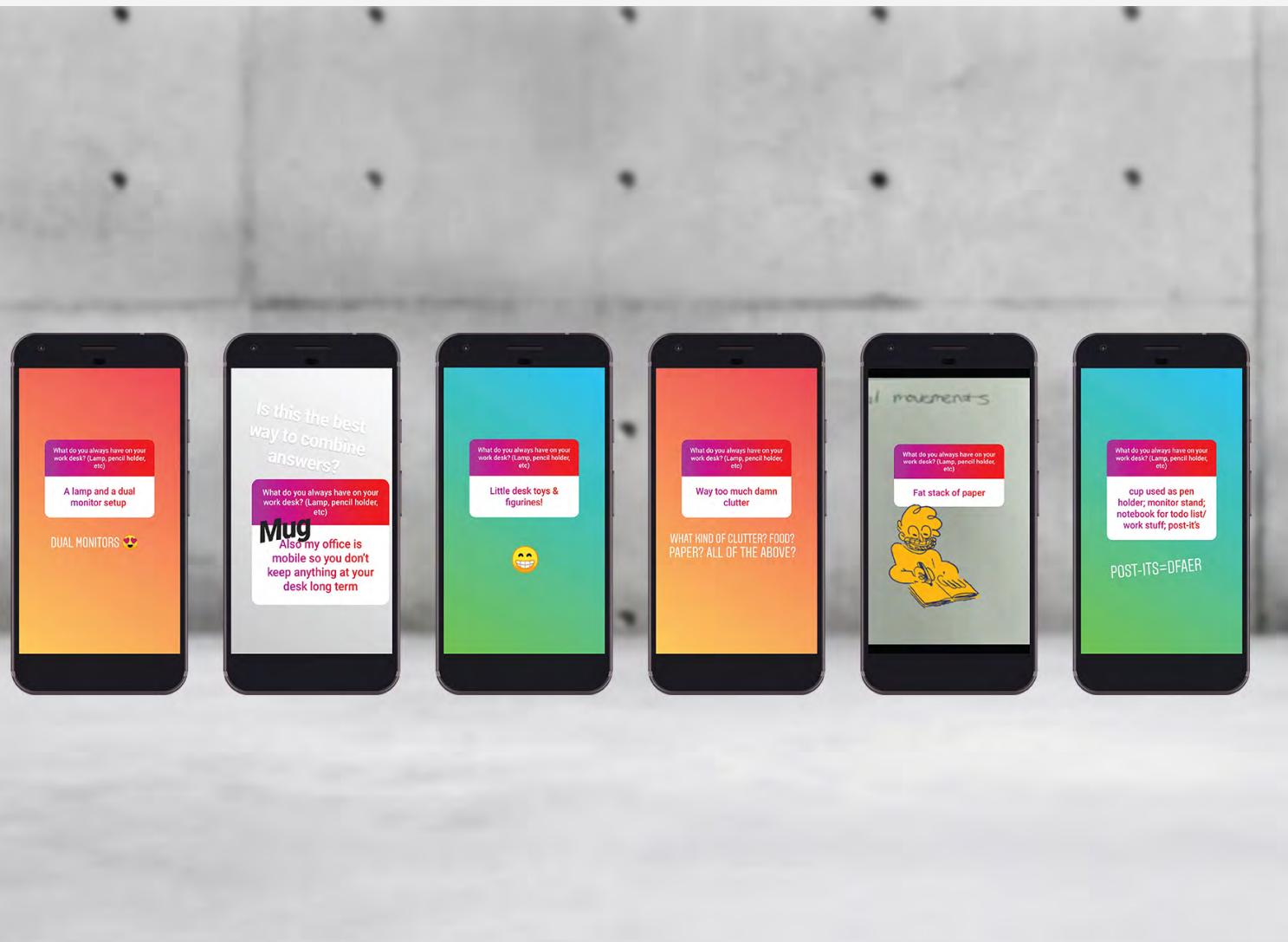
Tama Art University
Exchange



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.

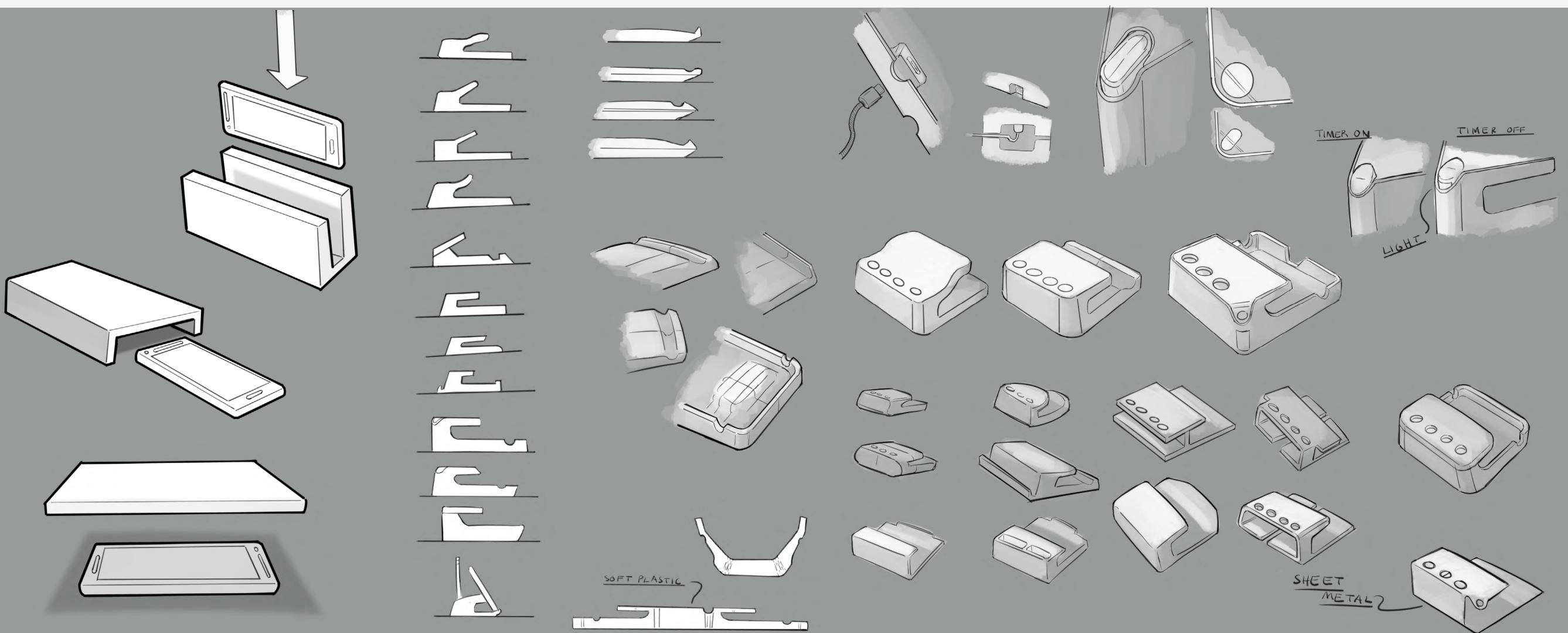
The brain stimulating effects of smart-phones harm us most while we are hard at work.



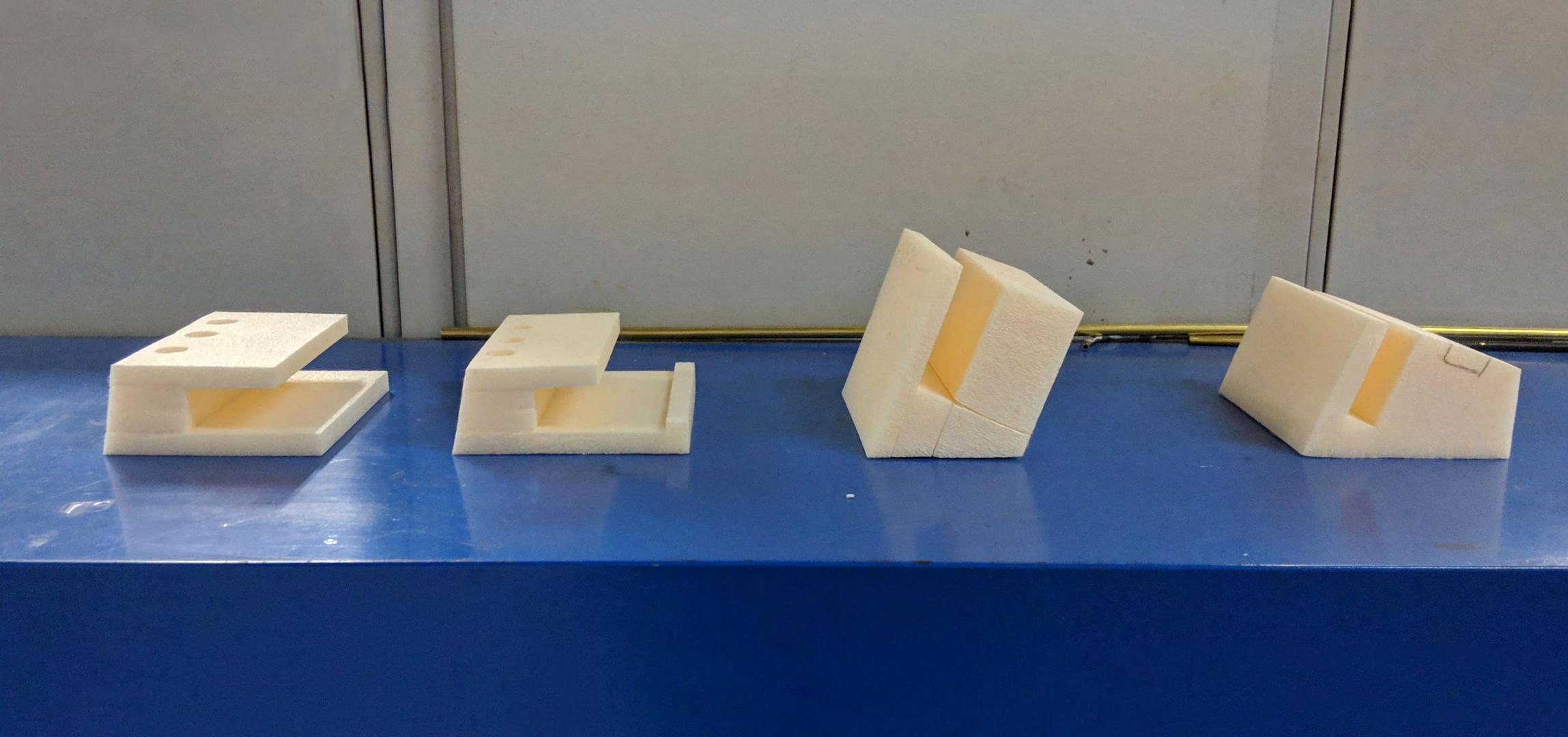
With smartphone users being my target market, Instagram worked well to obtain research.

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.

research

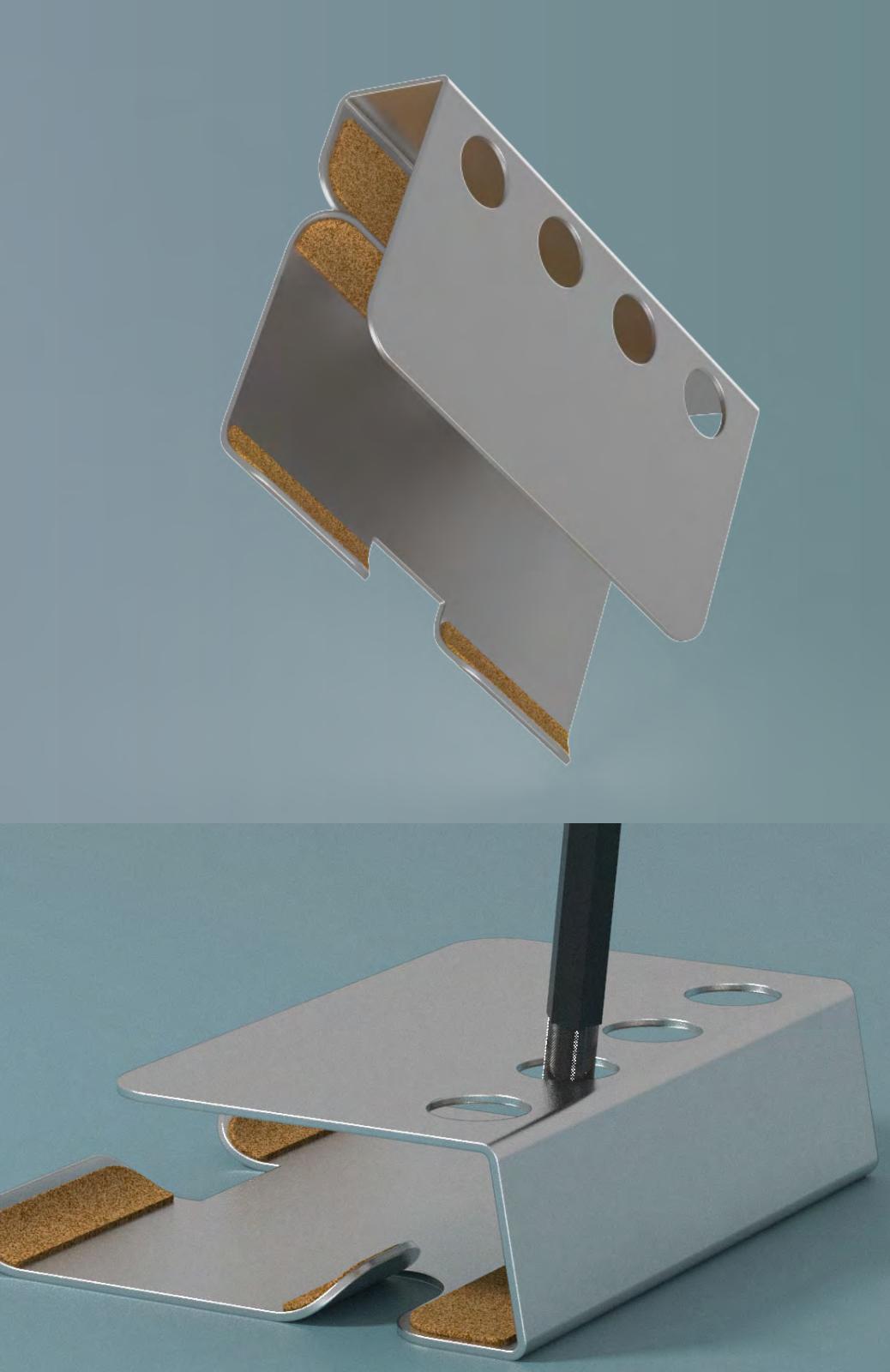


sketches



3d sketching









WASHI WATCH

Exploring Japanese Materials

Tama Art University Exchange



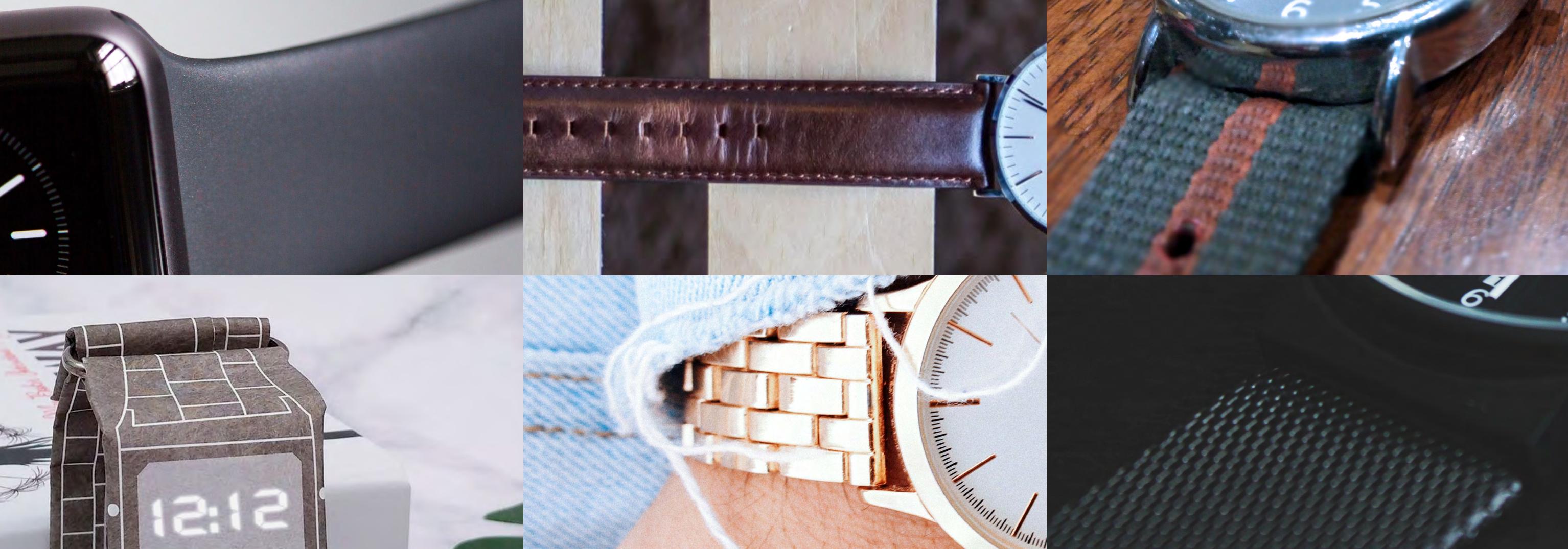
My semester project was to explore Japan and find inspiration for a project

overview



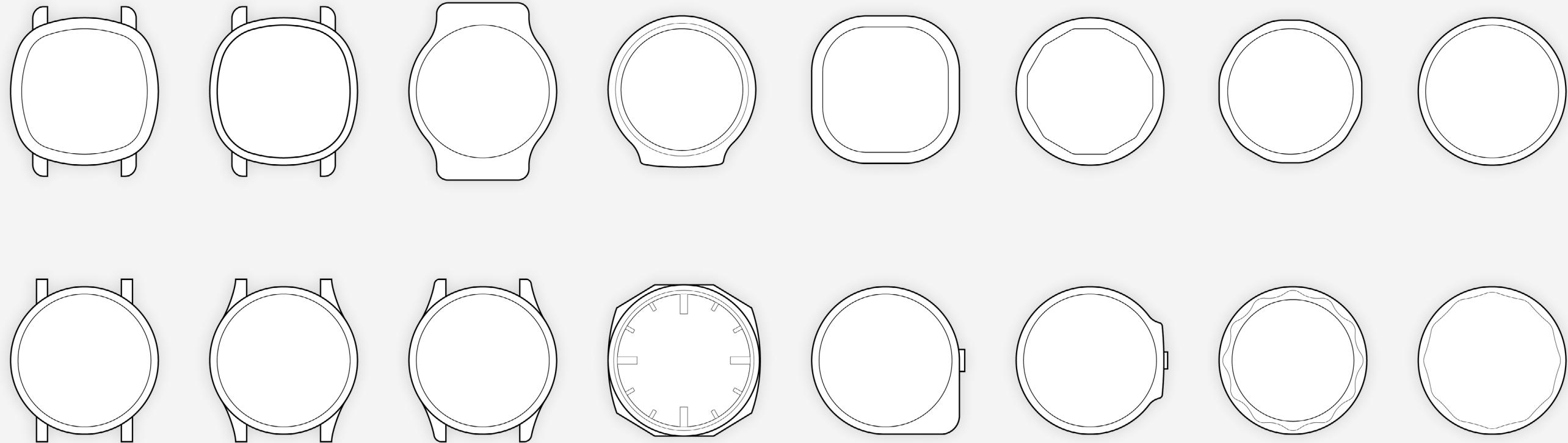
washi aka japanese paper

I became fascinated in 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

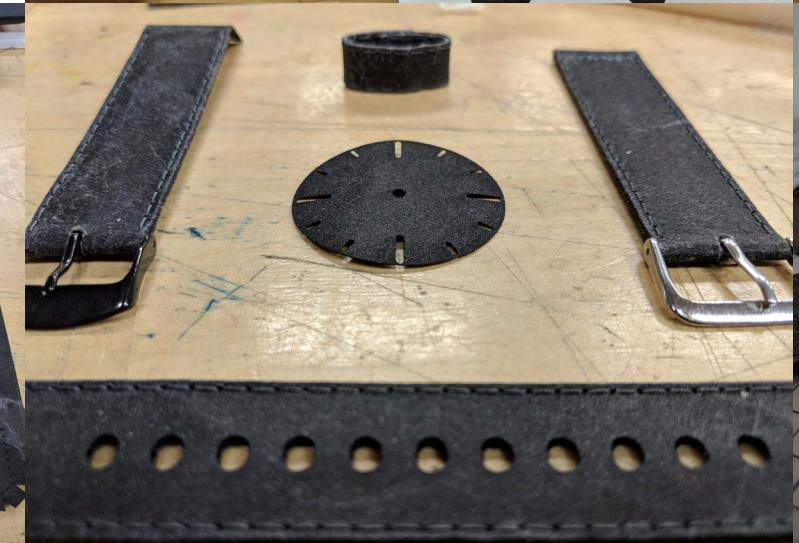
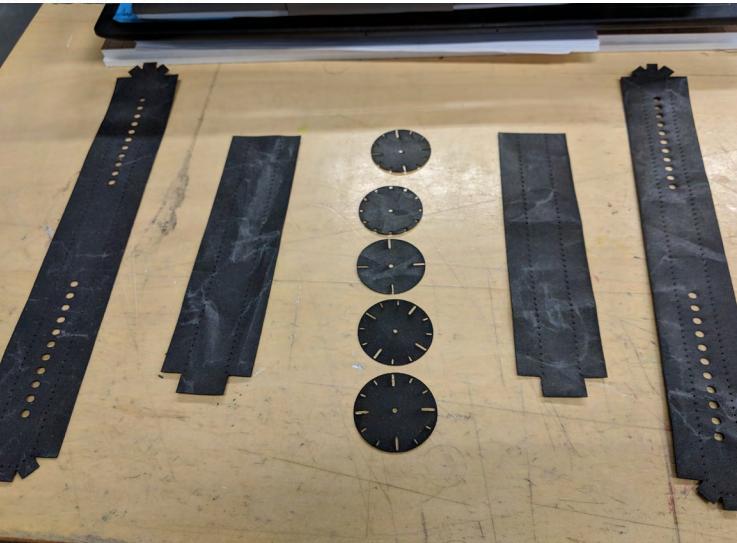


I was on the verge of making my own material when I discovered the SIWA brand. They are made from a special blend of wood fiber and plastic called *Naoron*. With the added strength from plastic, I felt confident it could be used as a watchband.



final round

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



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.

prototyping

WASHI WATCH



Ergonomic crown

Laser cut dial

Aluminum case

Water resistant

Tear resistant









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THANK YOU

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