



Hunter McCluer

Industrial Design Portfolio
2024

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Hey !

I'm Hunter



I'm really fascinated by the natural world and how we interact with it. I started my career designing and building scale models and test hardware in the aerospace industry (I'm the third Hunter in my family to do work for NASA - it's in the genes somewhere) which has allowed me to dive into my interests in material science and emerging tech.

In my free time I'm usually cooking, trail running, making crappy house music, or building a robot that will open my curtains.

Experience

Ball Aerospace / BAE / NASA

Model Maker

March 2023 - Present

HM Research + Development

Industrial Designer / Founder

May 2020 - Present

Staach Furniture

Industrial Design Co-op

January 2021 - May 2021

Vignelli Center for Design Studies

Student Council Rep + Archivist

August 2019 - August 2020

Skills

Design research + analysis

Ideation sketching

Sketch Rendering

Advanced 3D Modeling

Product visualization

Rapid-prototyping workflows

Hi-fidelity model making

Circuit design/breadboarding

Graphic design + packaging

Education

Rochester Inst. of Tech.

Industrial Design BFA

2018-2022

Tools

Solidworks

Fusion 360 + FusionCAM

Shapr3D

Keyshot

Blender

Vizcom / Midjourney

Adobe Suite

Arduino IDE

Python

Languages

English - native

German - conversational

Spanish - conversational

Monarch Brewer

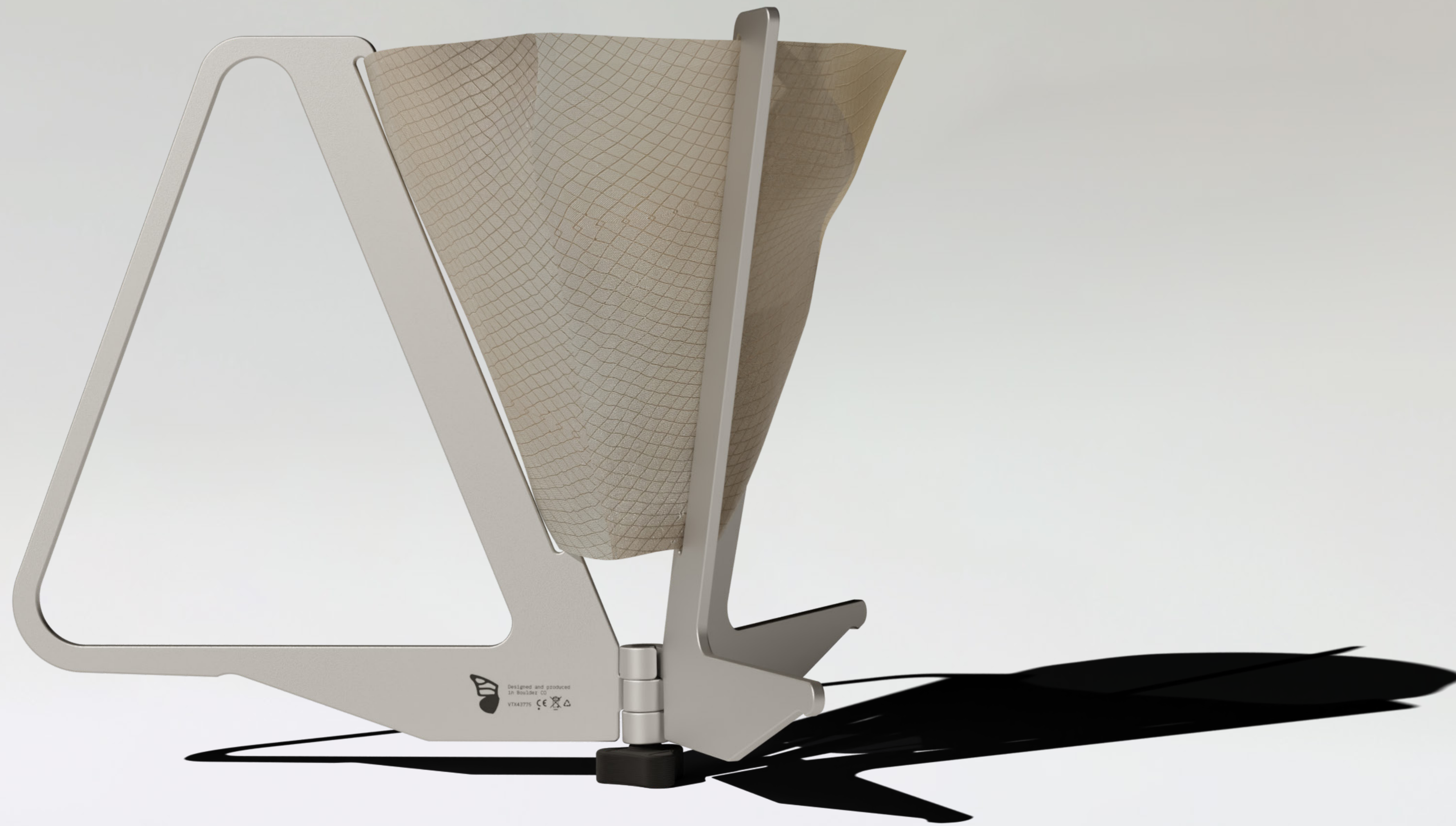
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EconomyPlus+

21

Monarch

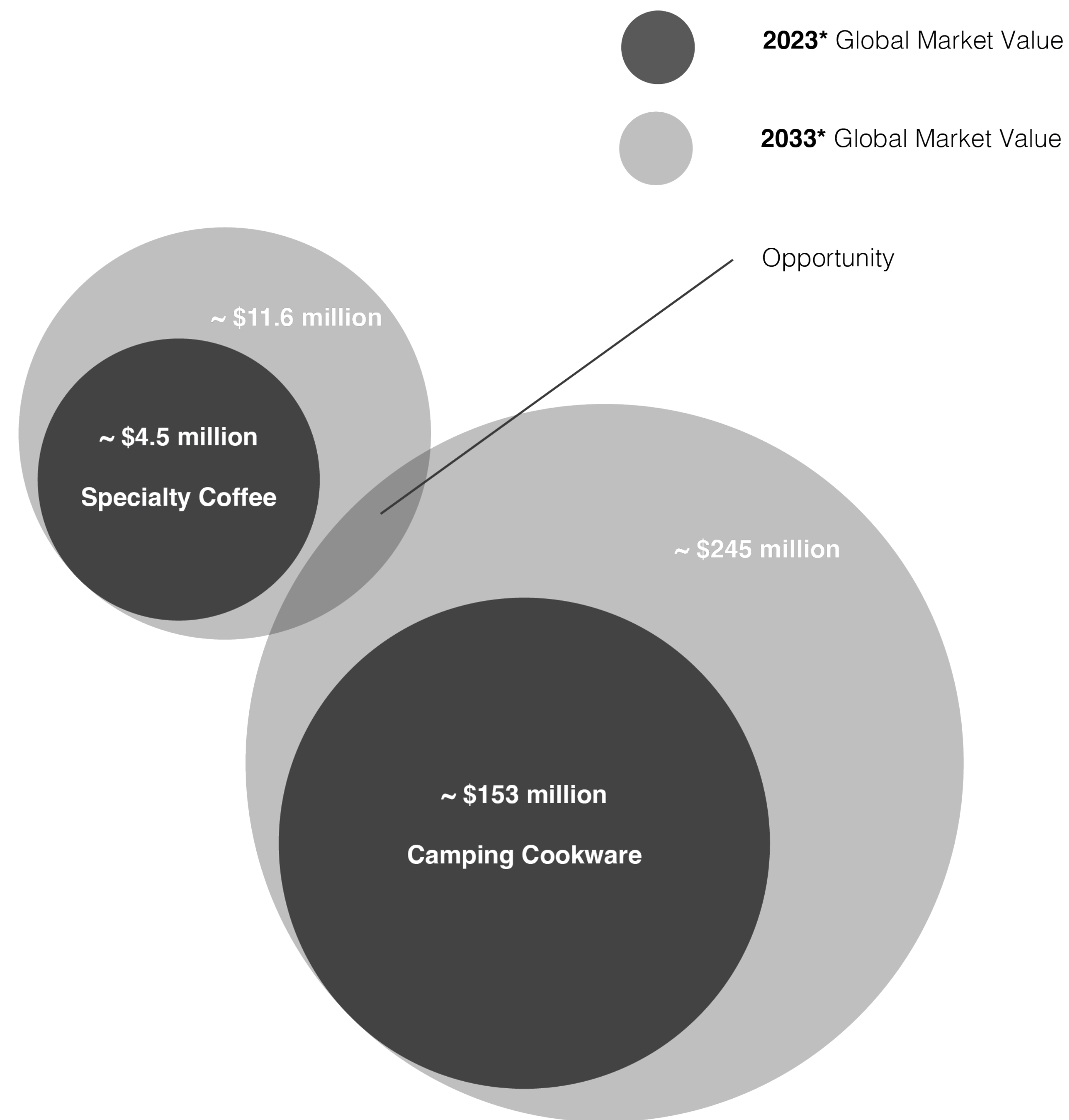
The world's lightest, most
compact coffee brewer.



If you love great coffee, you spend a lot of time
thinking about how to get it - especially
if you're on the go.

How do you make a great cup of coffee appear anywhere?





*sources:
Absolute Market Research
Rationalstat

Combined ~\$100 mil growth in specialty coffee / camping cookware markets projected over next decade.

There's opportunity for a portable coffee brewer that's compact and simple.

Simple

Compact



Multi-part

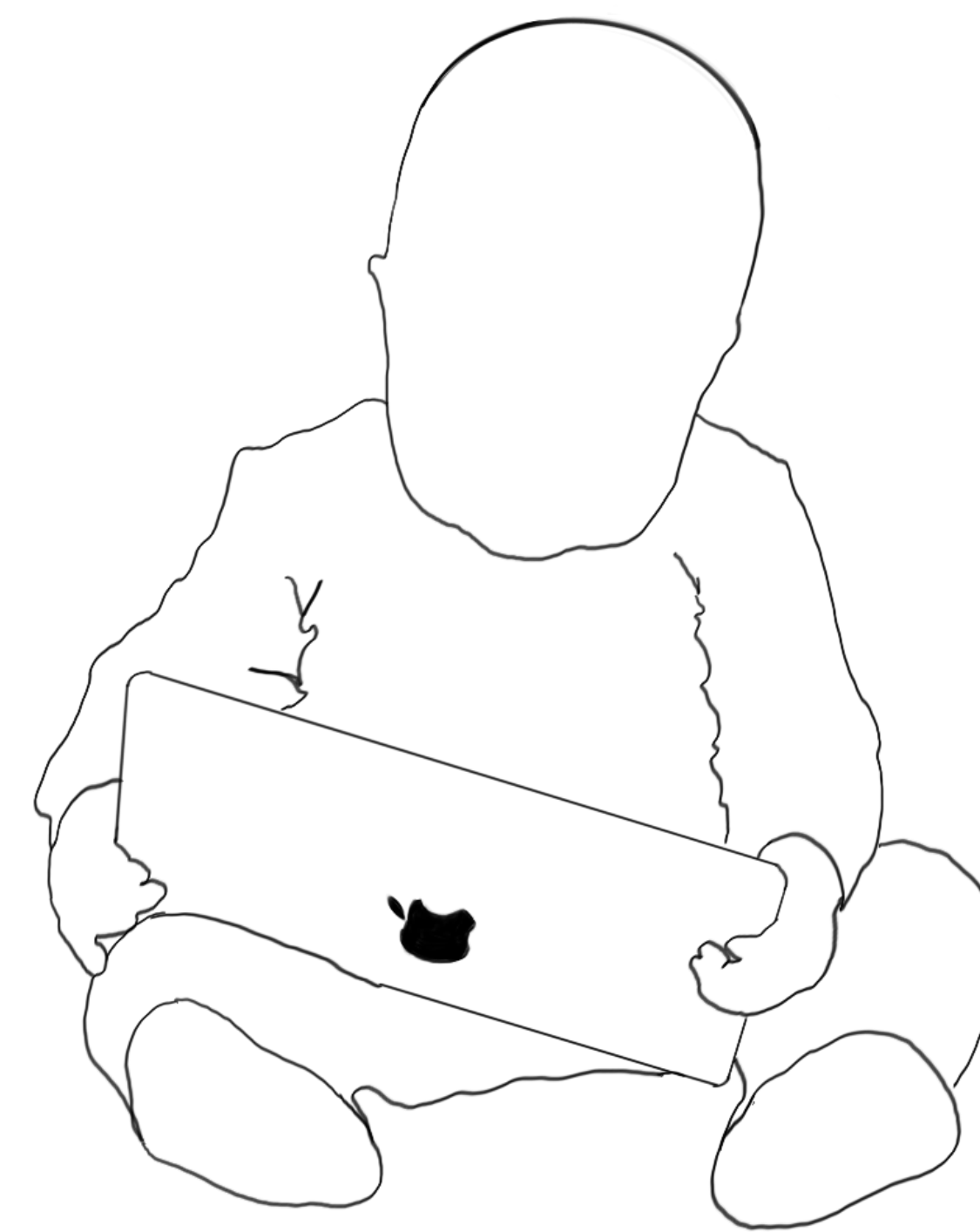


Bulky

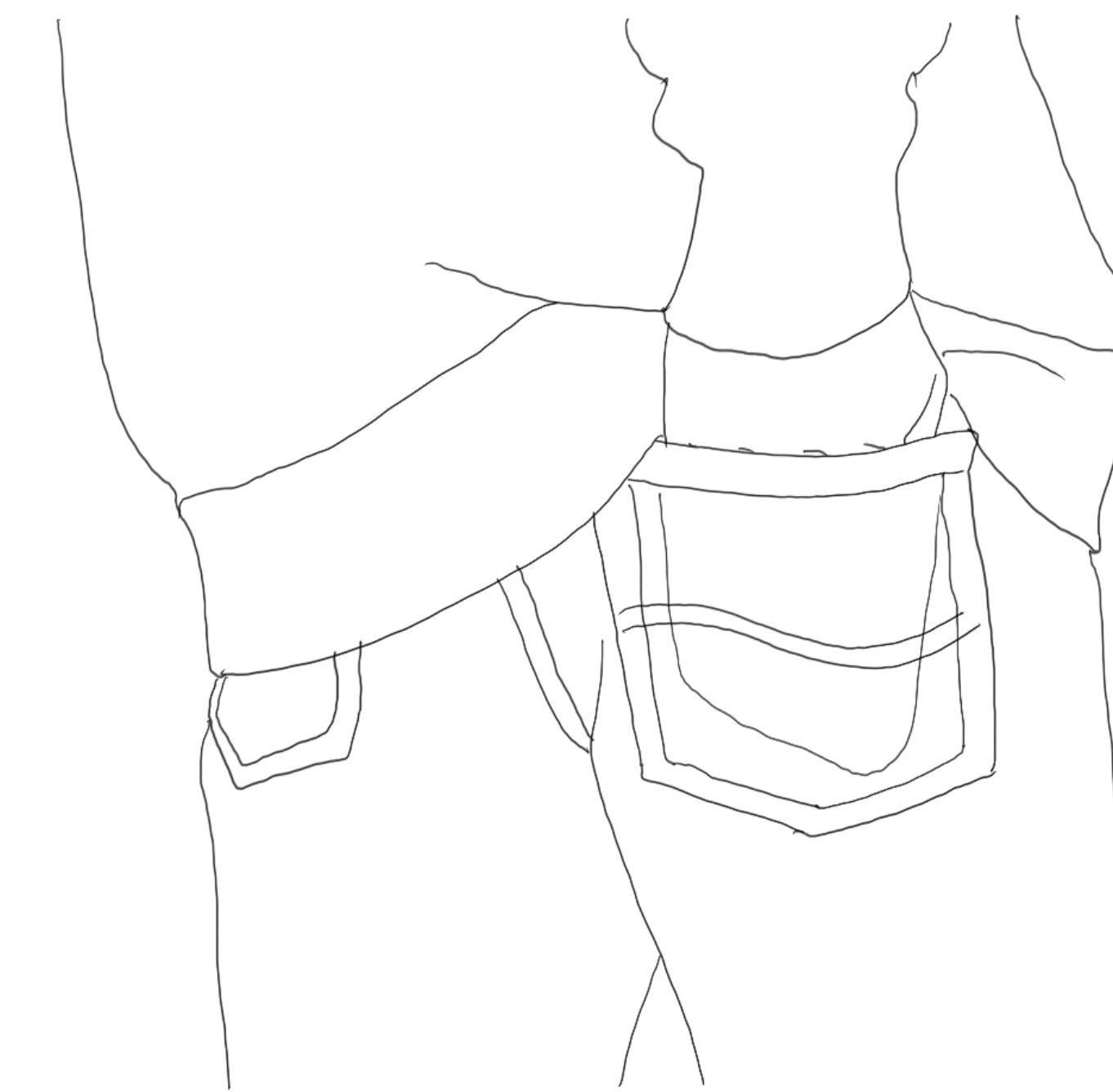
Design Goals



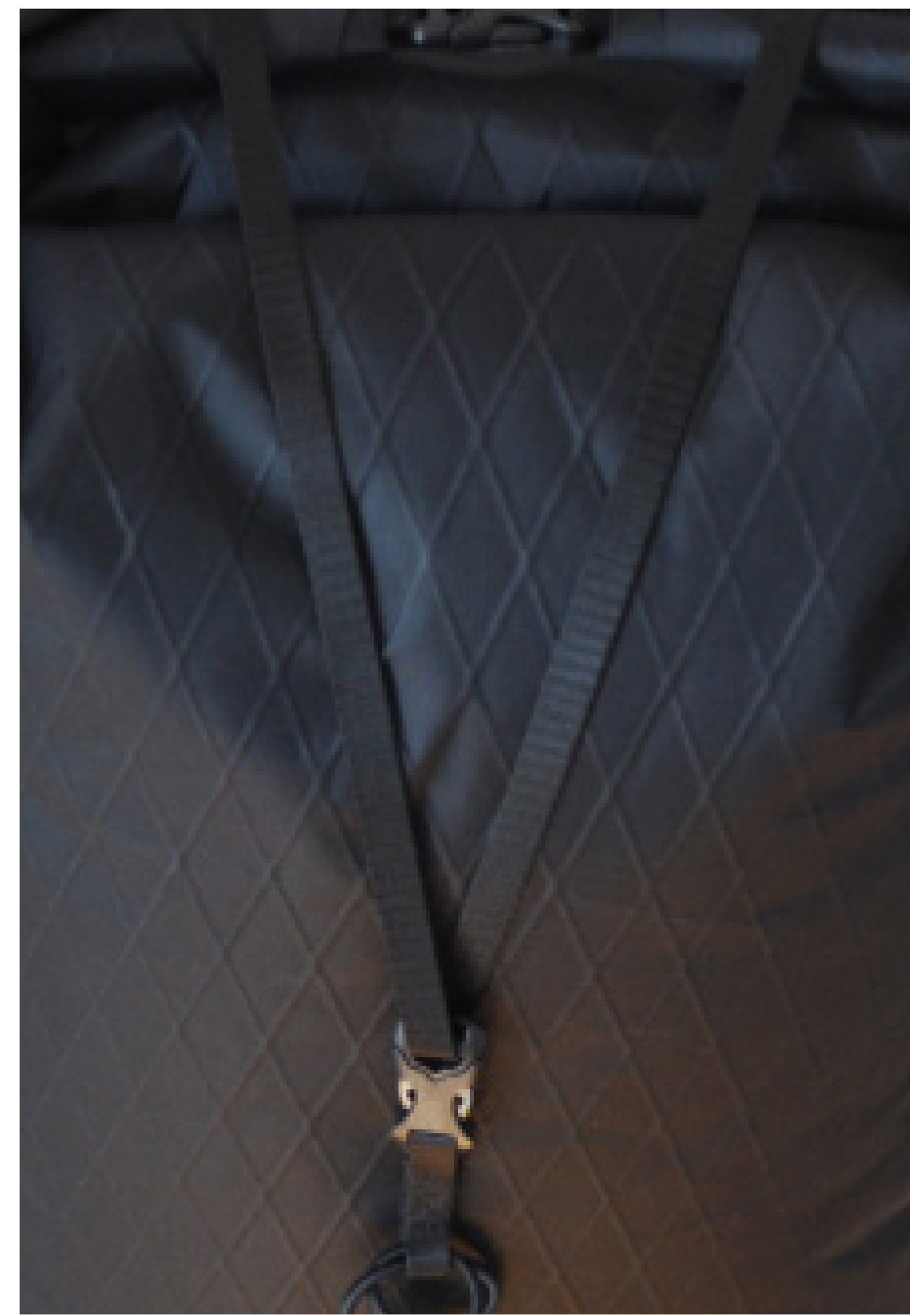
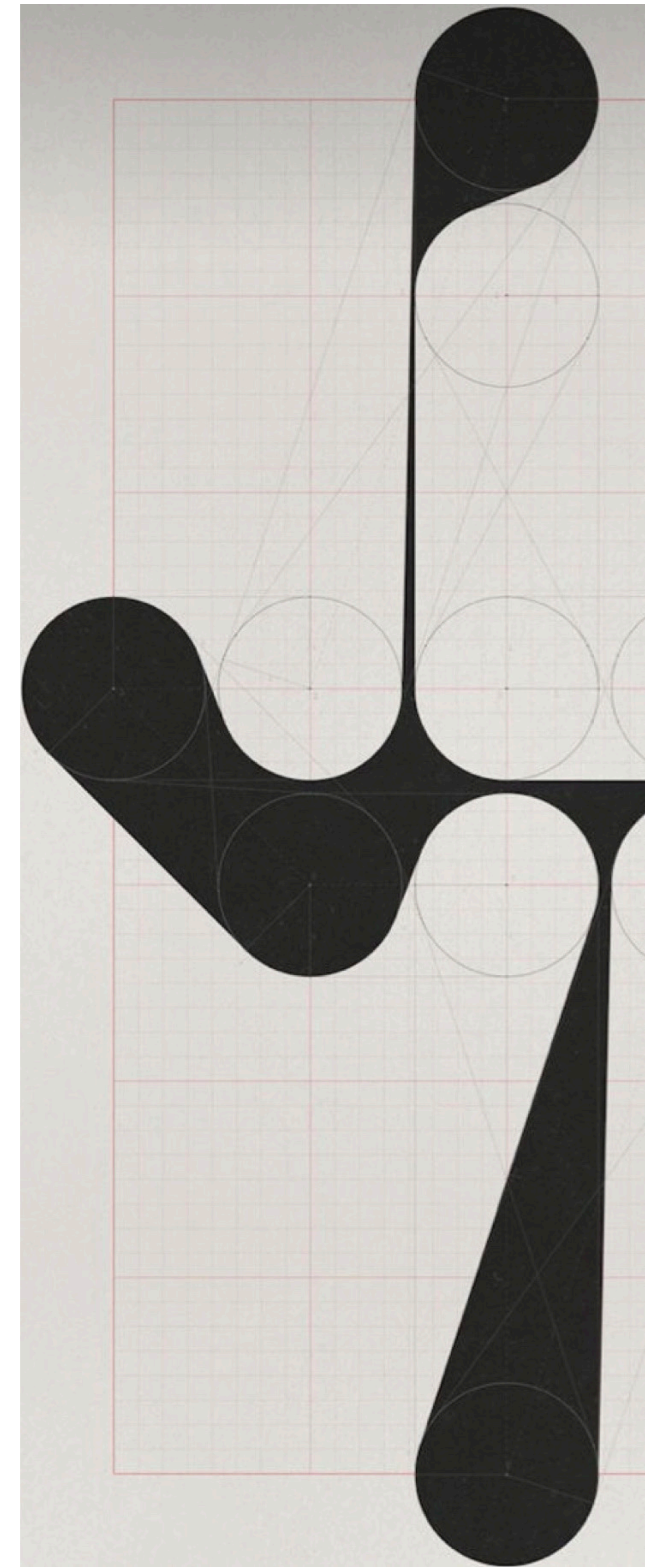
Light

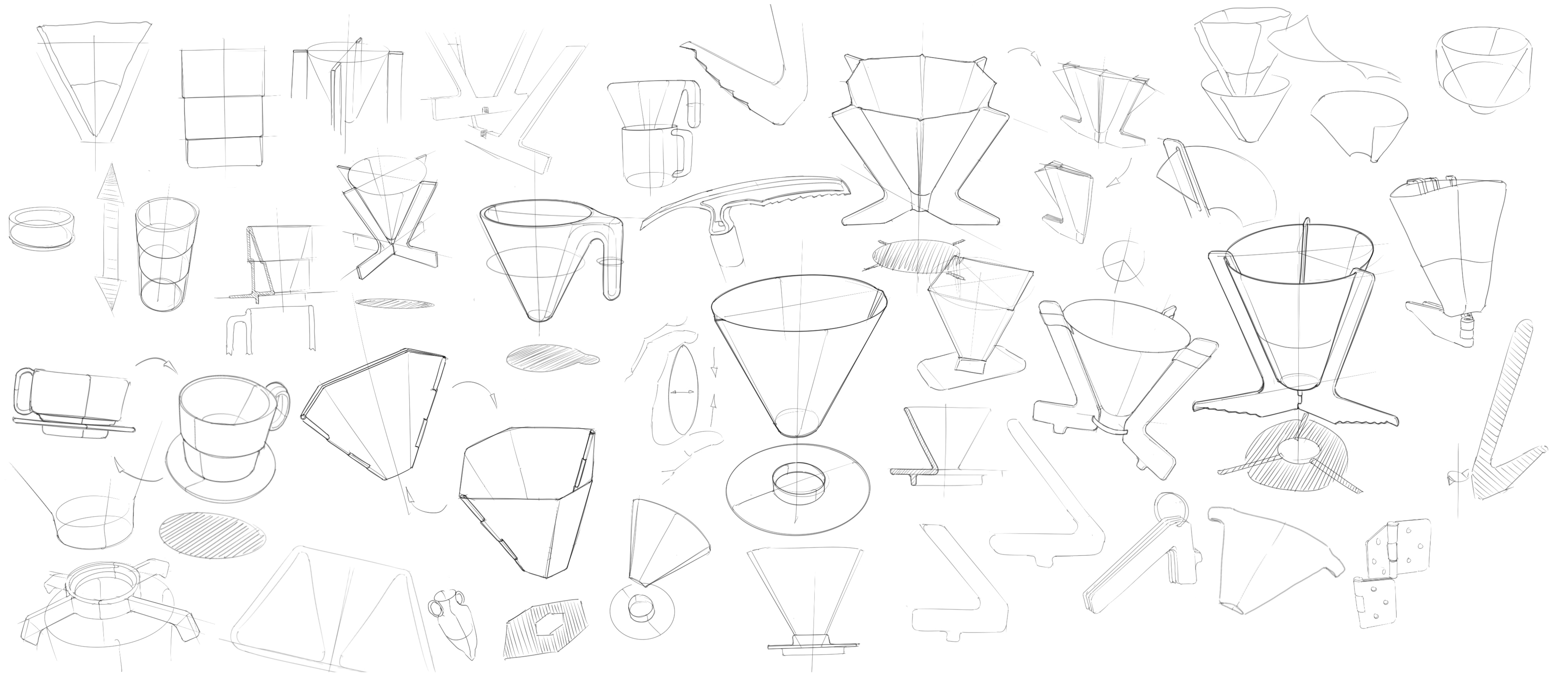


Intuitive

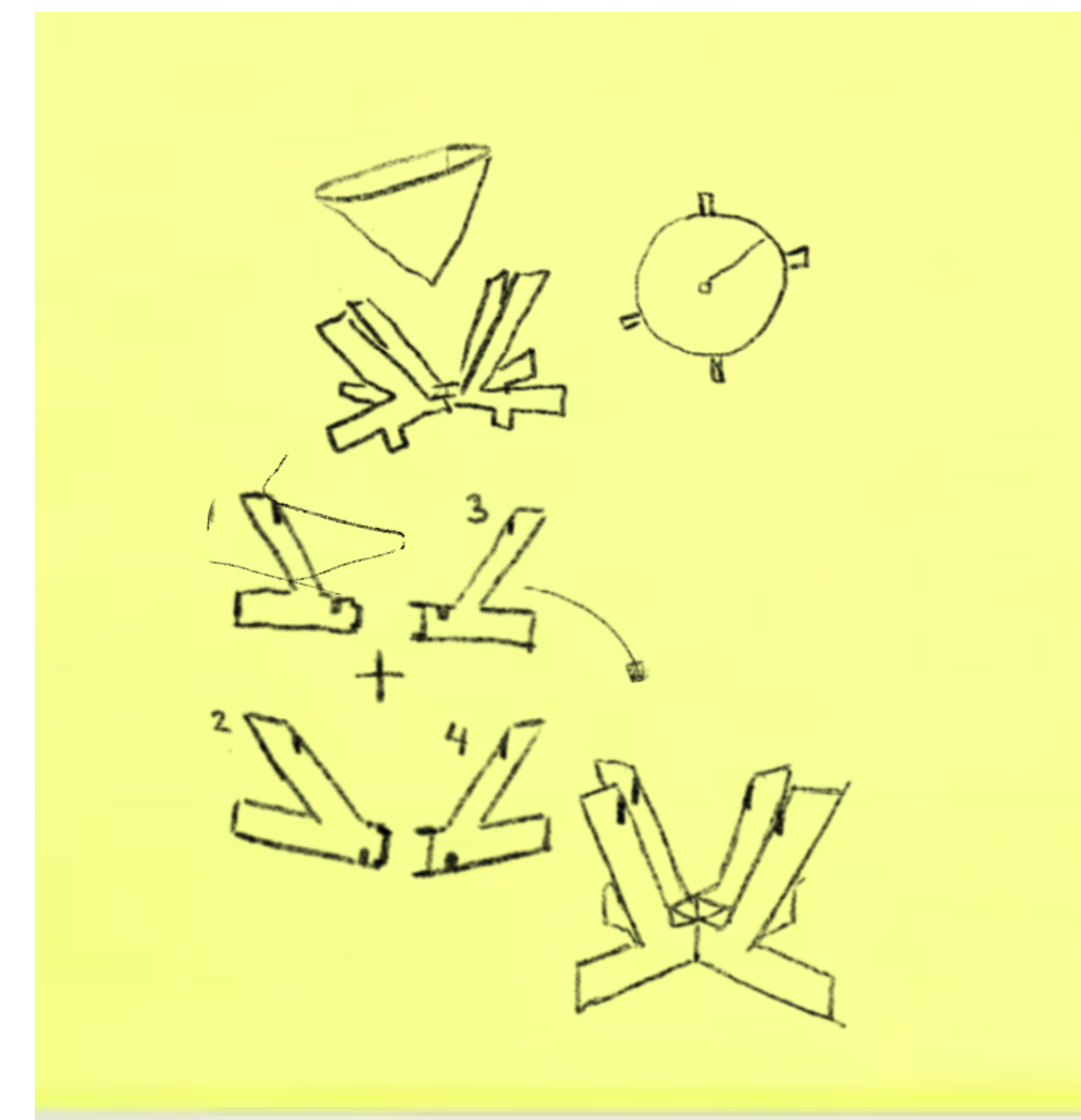


Stowable





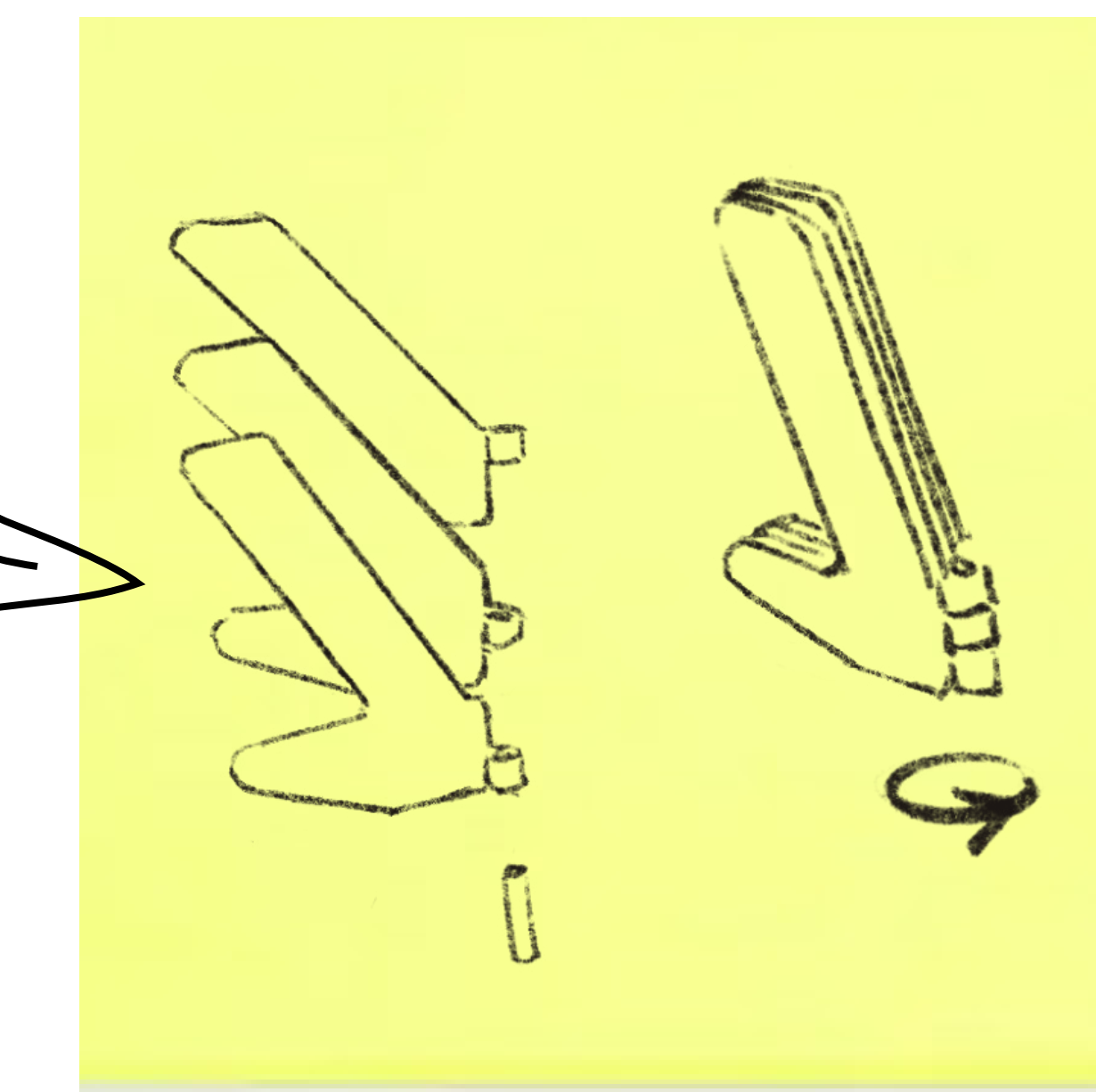
Concept Validation



- Self-deploying
- Parts integrated
- Not compact enough
- Needs handle

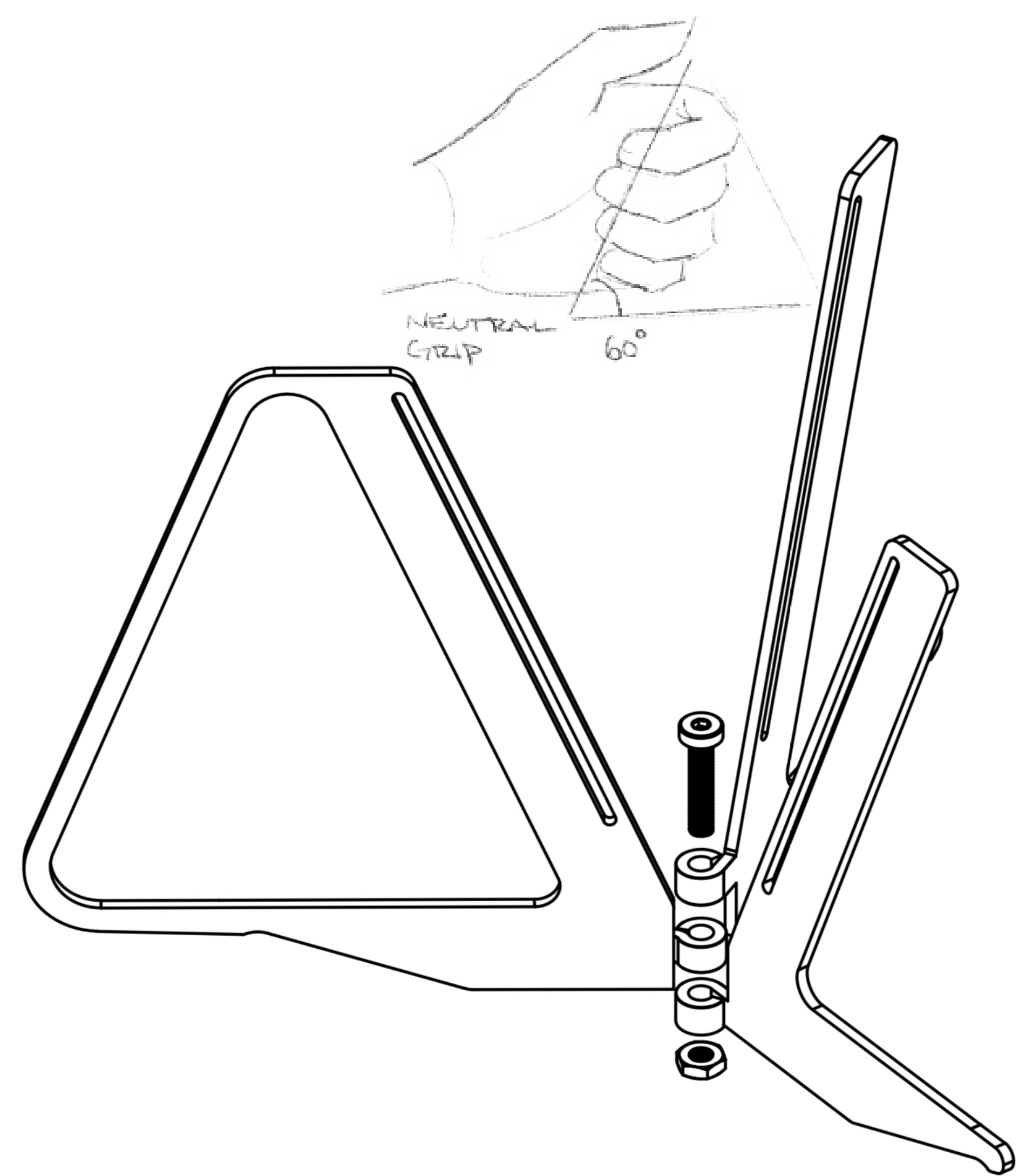
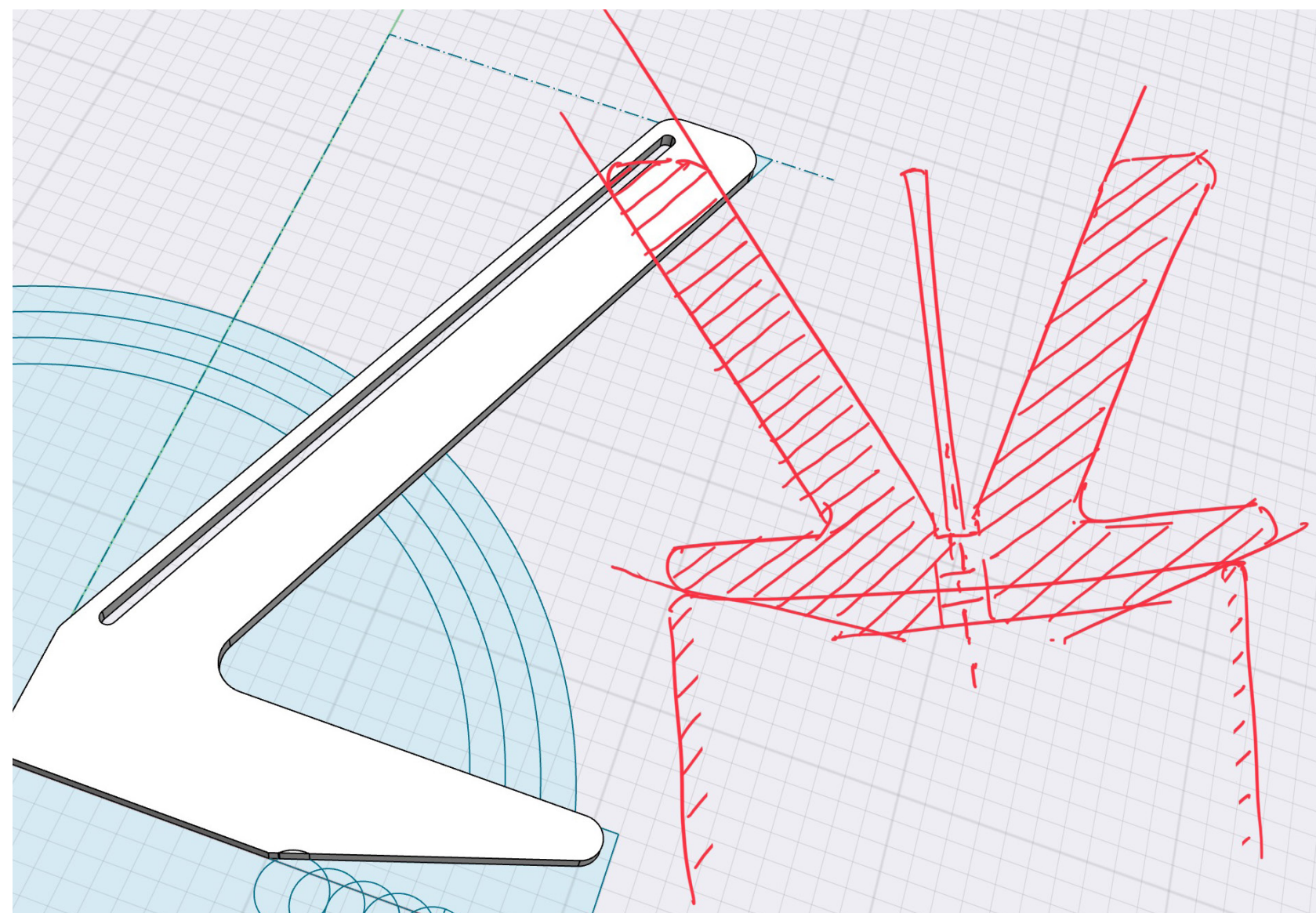


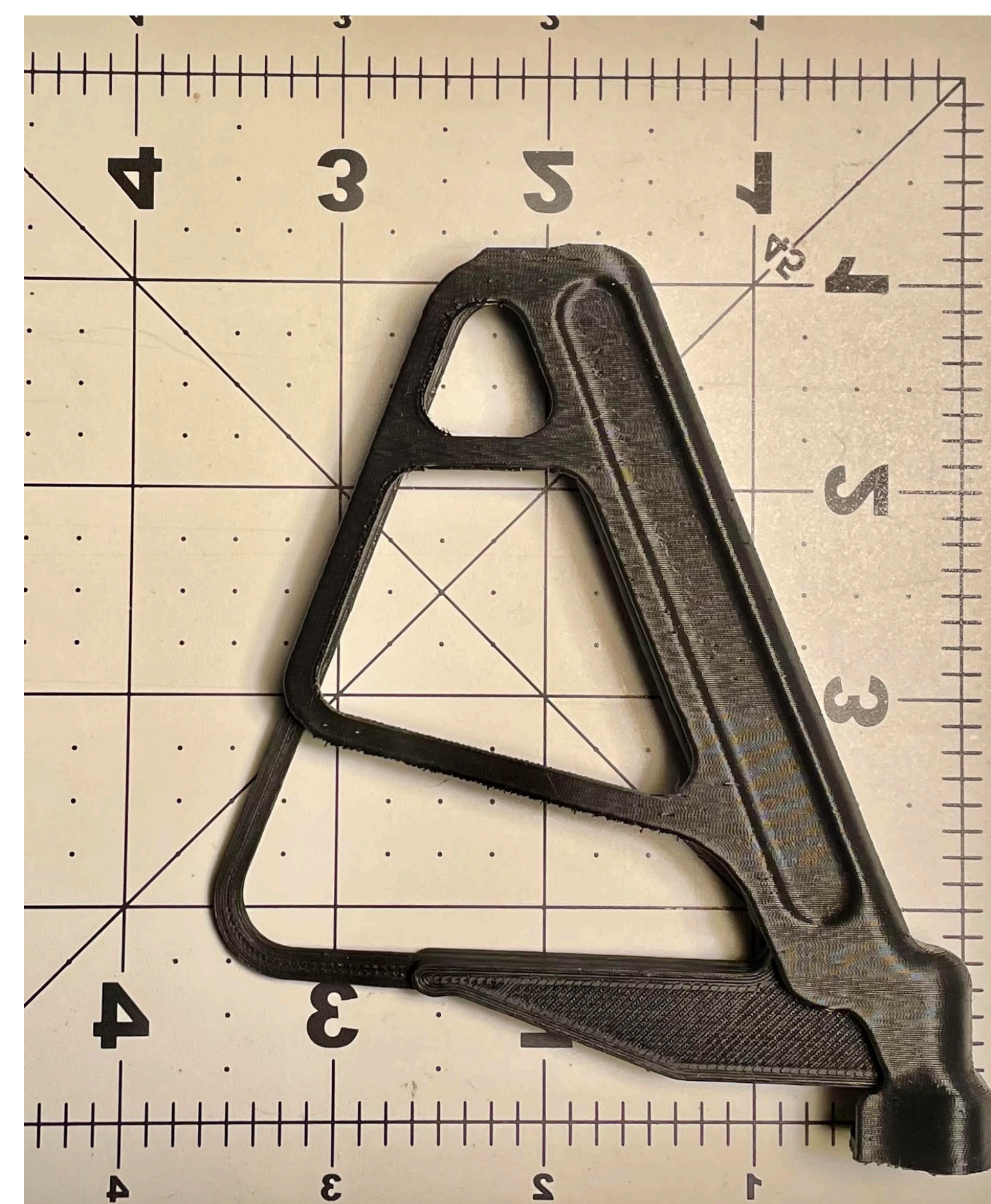
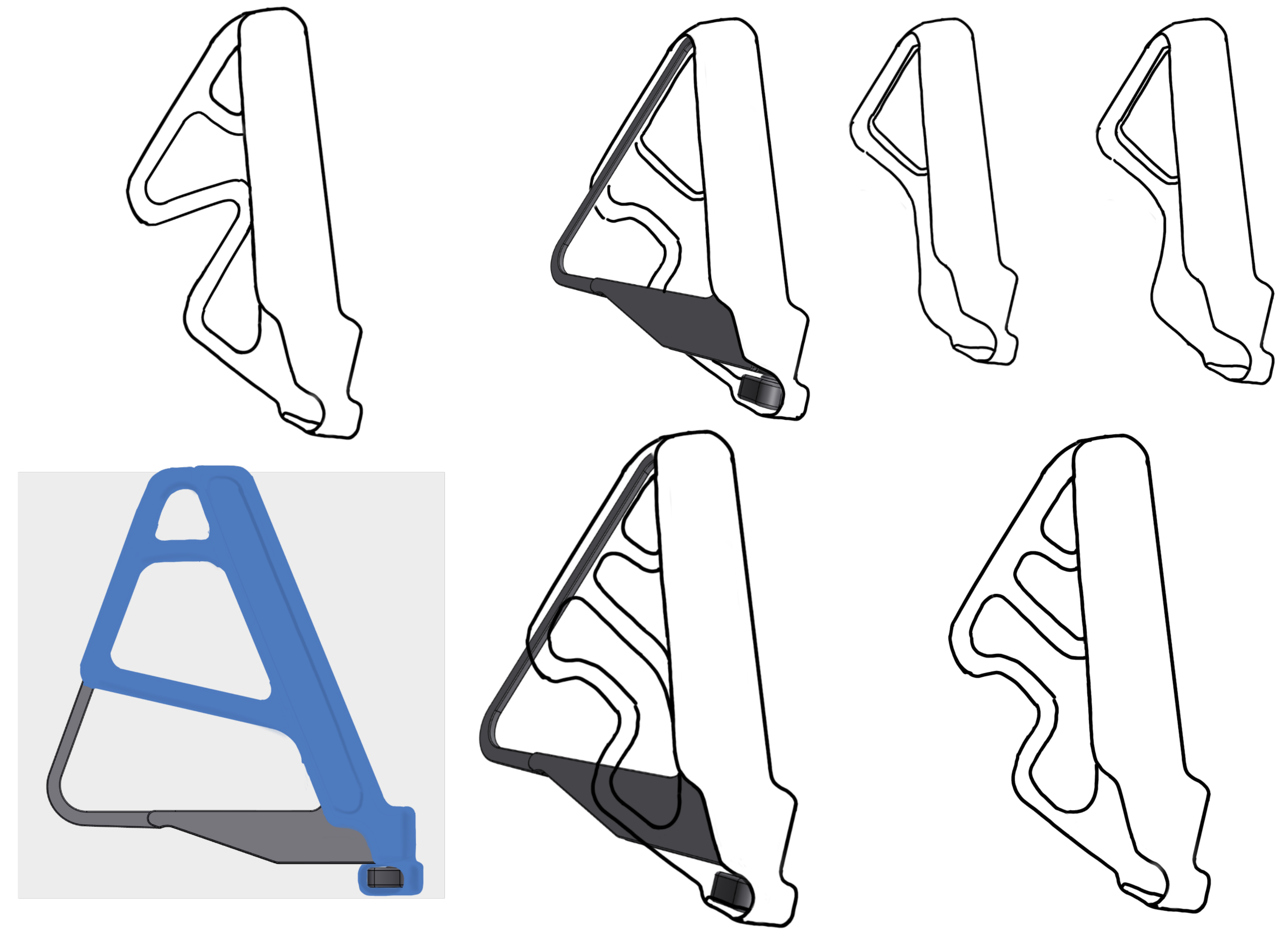
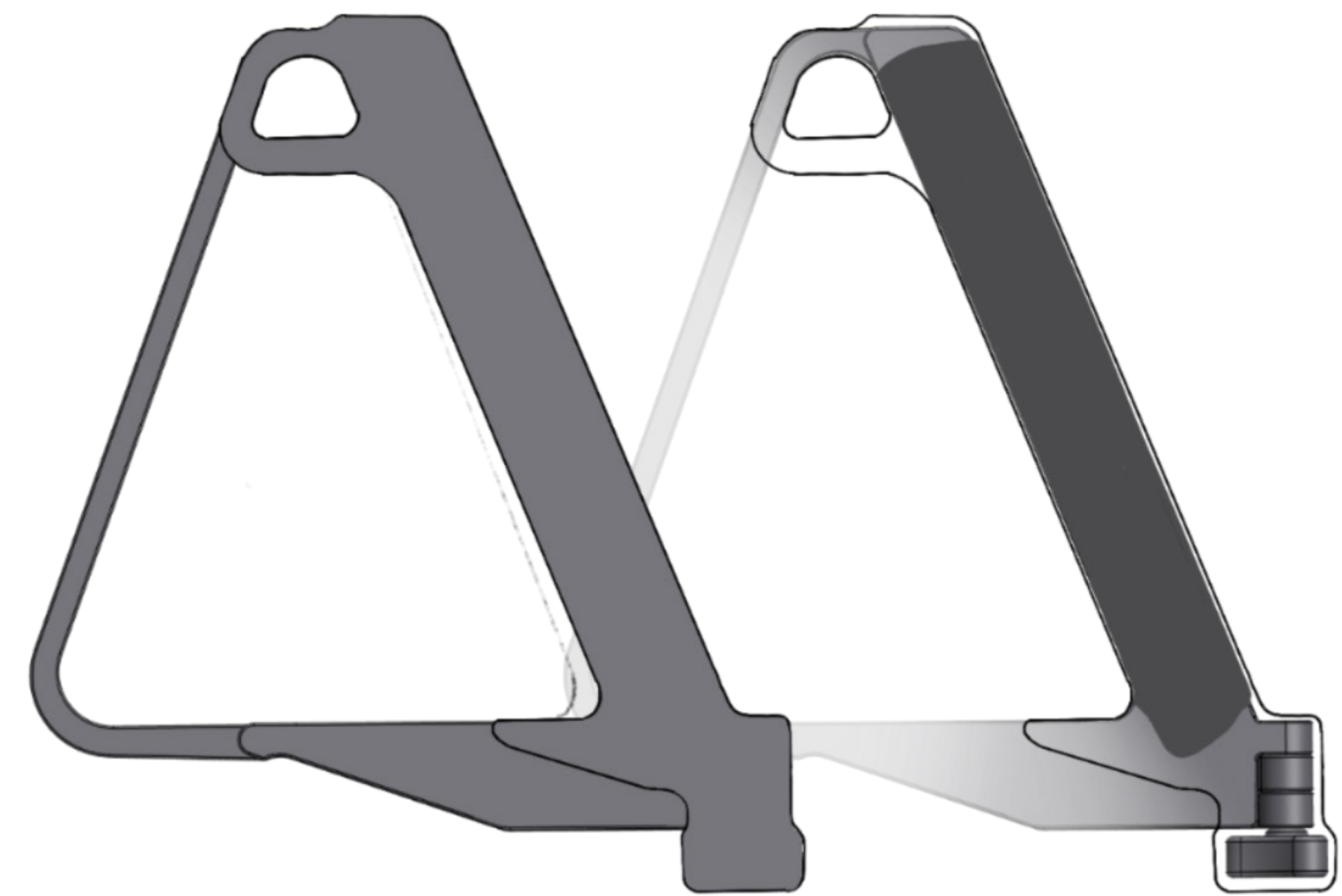
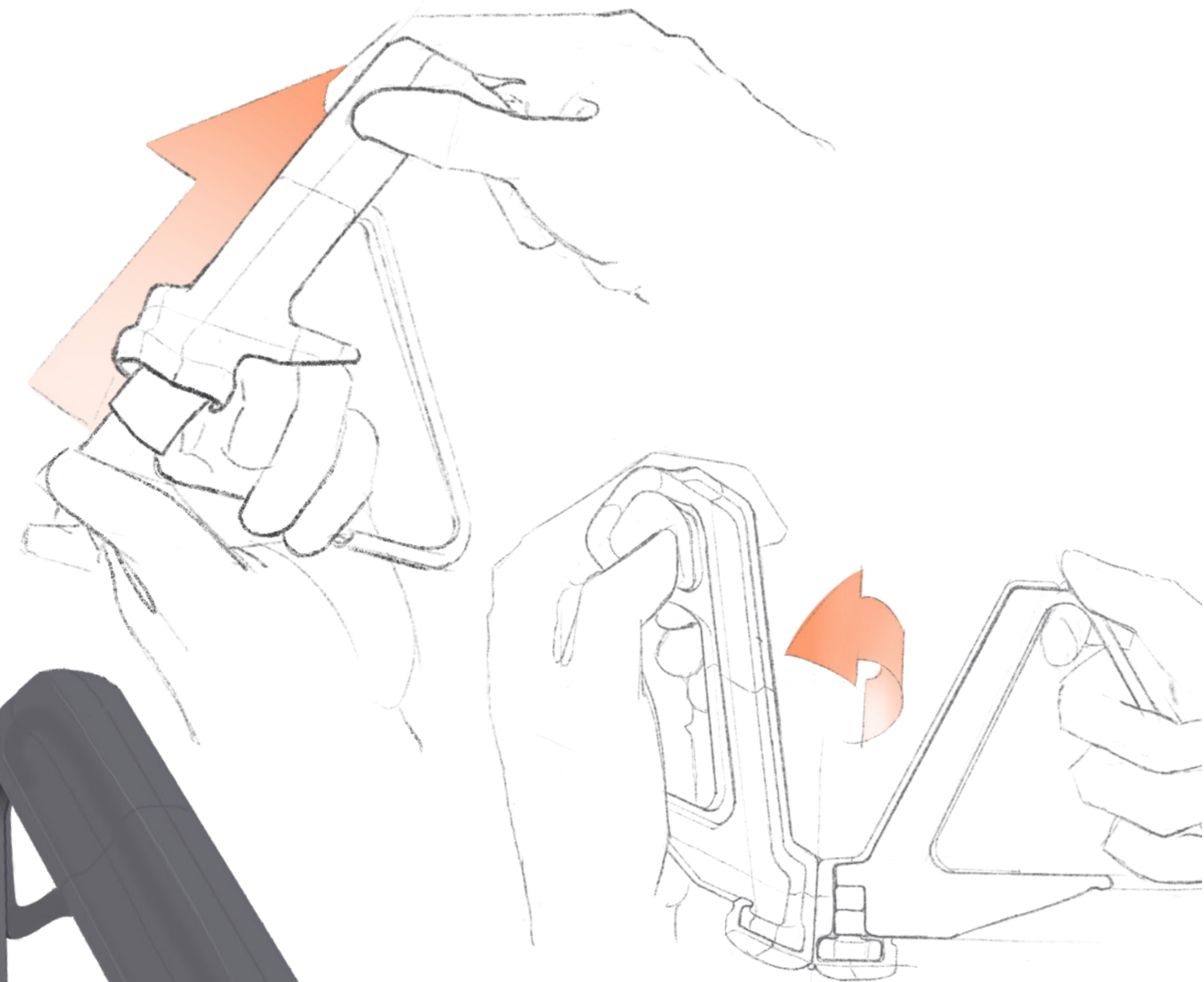
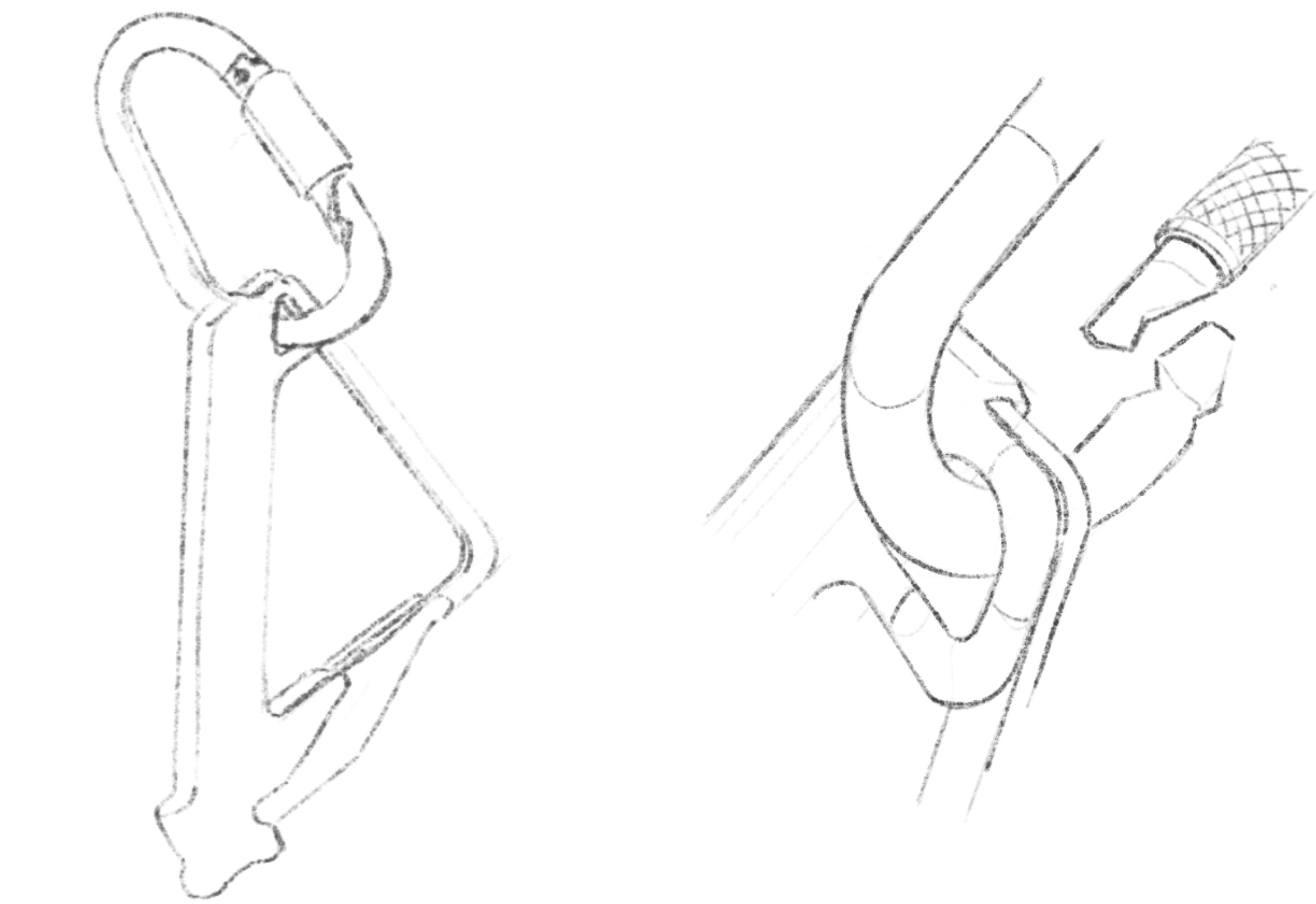
With only three wings
it could revolve completely...

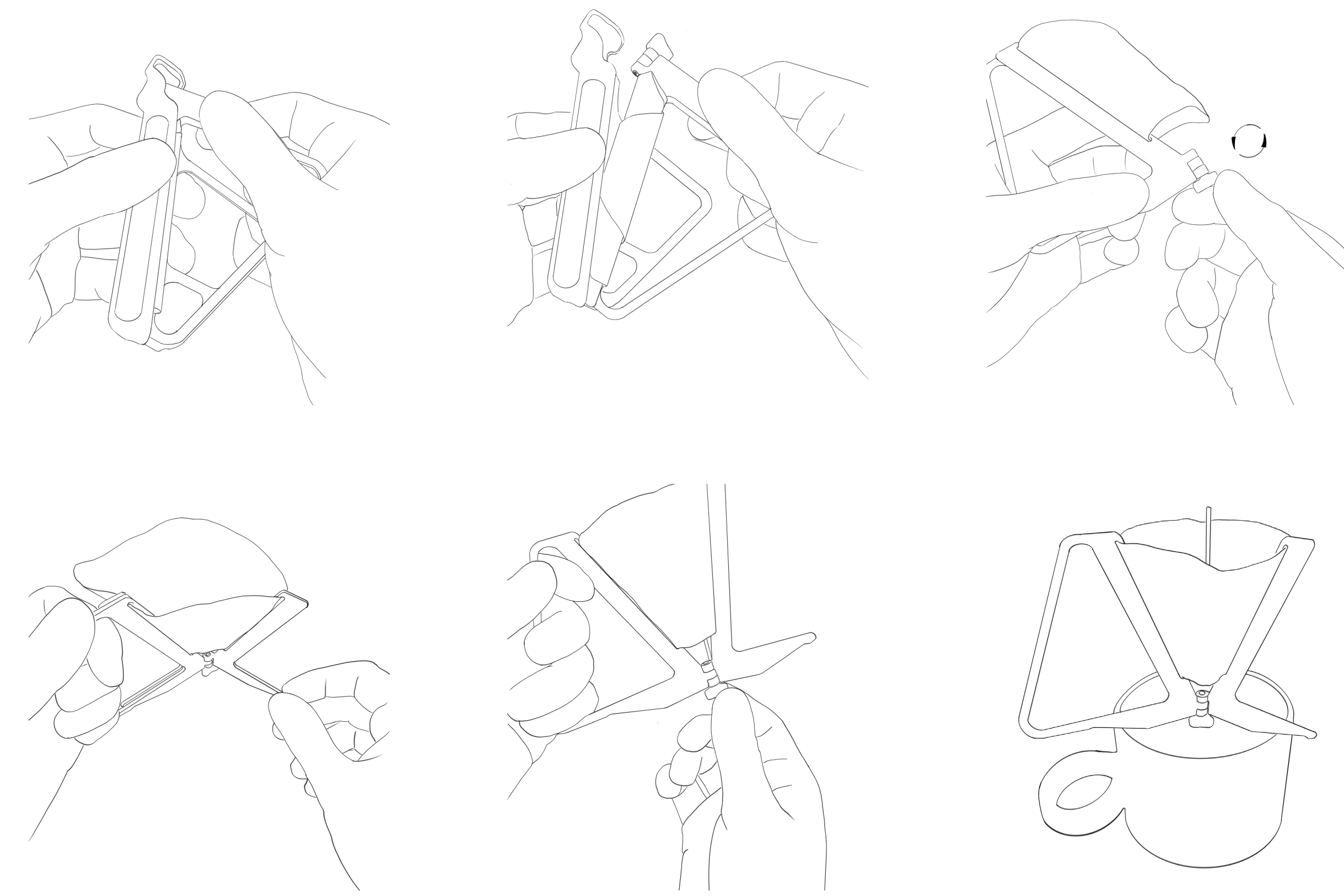
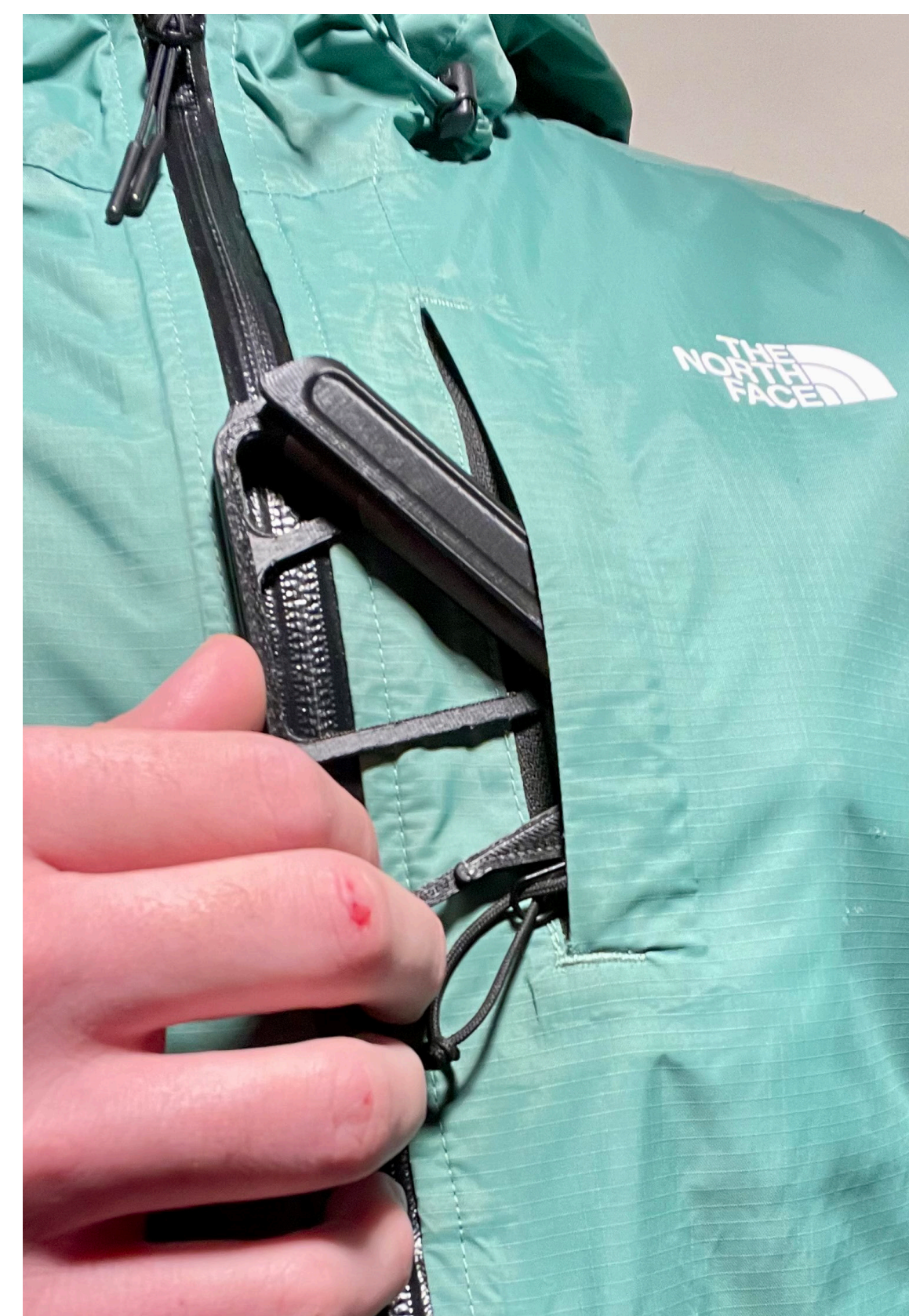


- Functional
- Lightweight
- Too complicated
- Filter basket too small

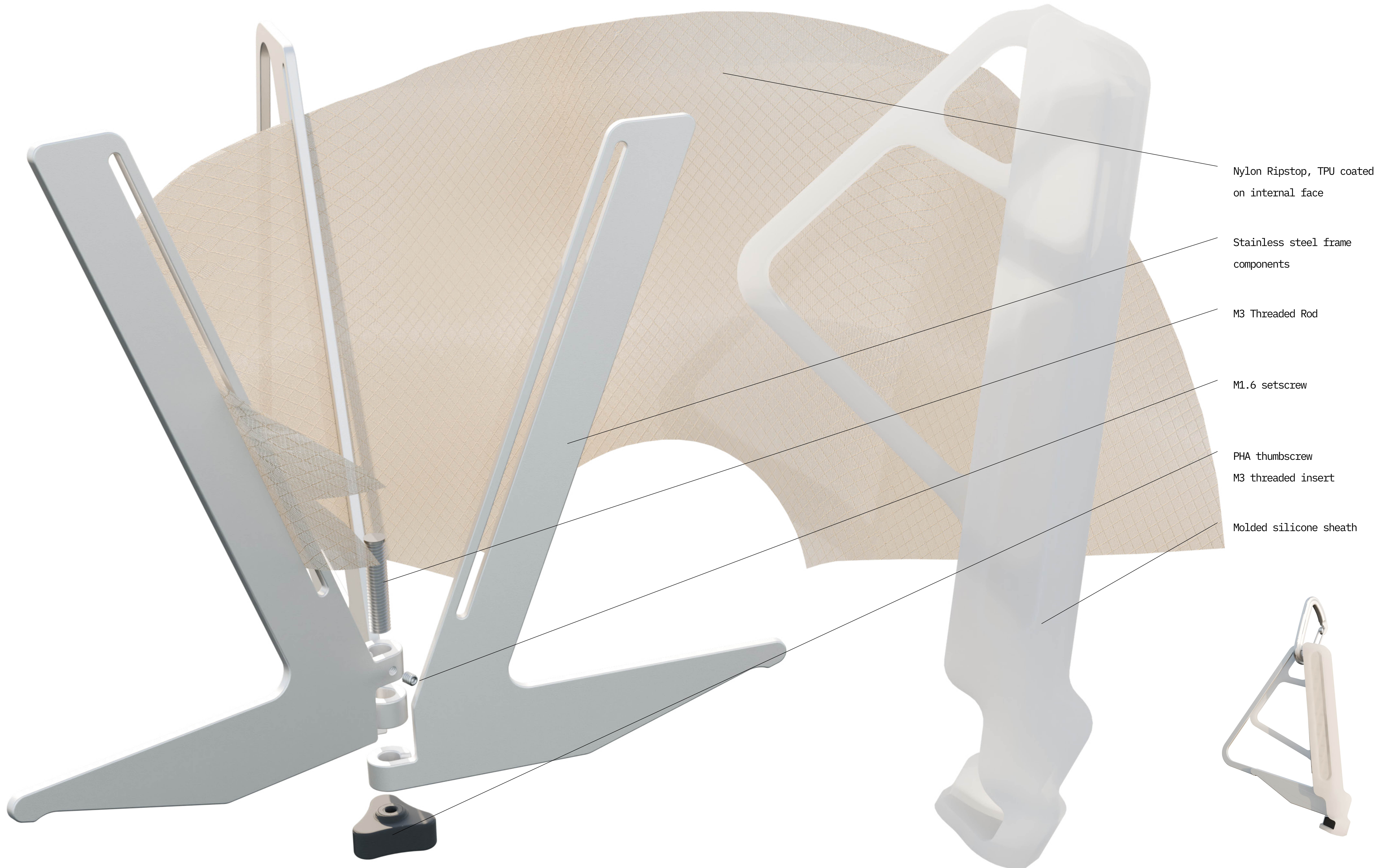












Nylon Ripstop, TPU coated
on internal face

Stainless steel frame
components

M3 Threaded Rod

M1.6 setscrew

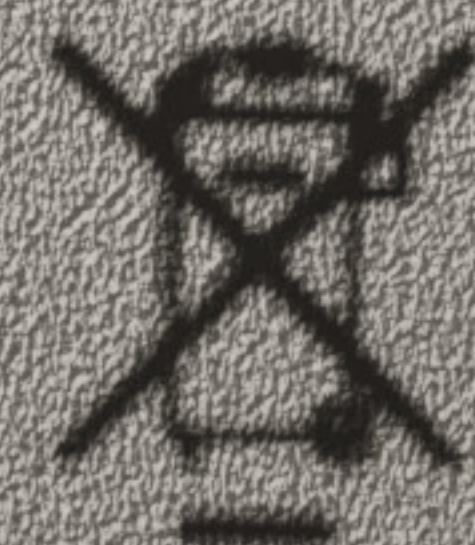
PHA thumbscrew
M3 threaded insert

Molded silicone sheath

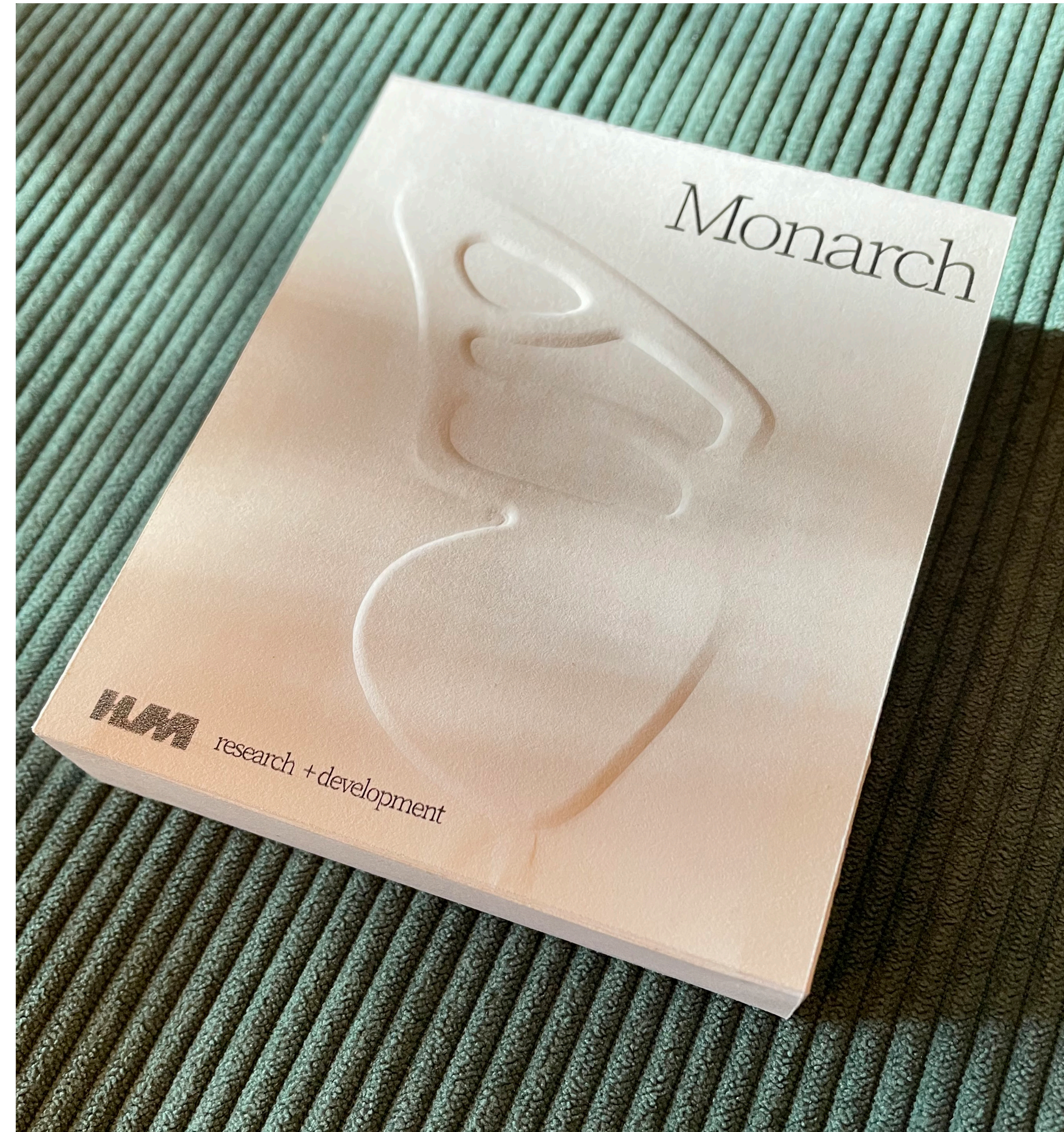


Designed and produced
in Boulder CO

VTX43775

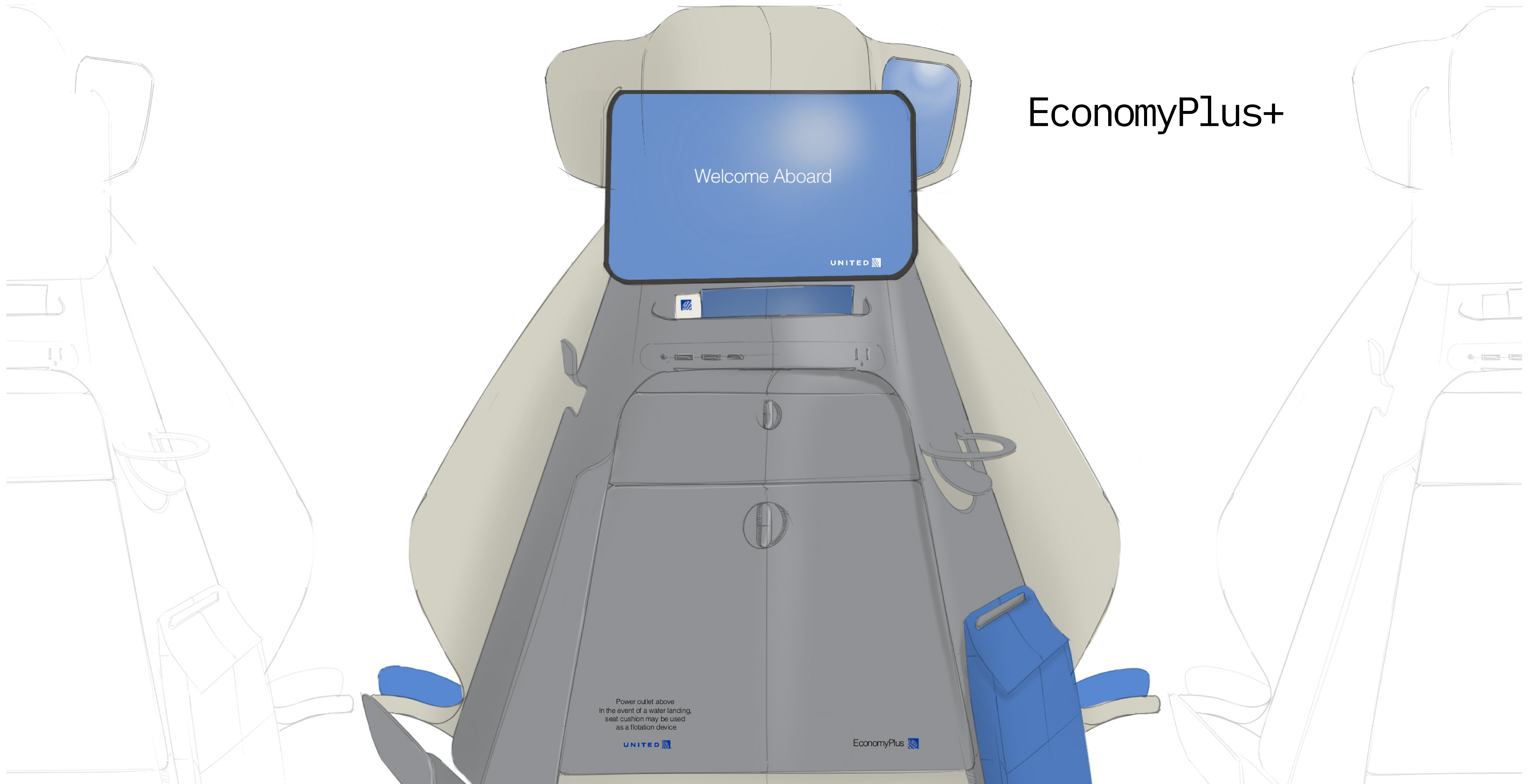






Brew great coffee.
Anywhere.

EconomyPlus+



Welcome Aboard

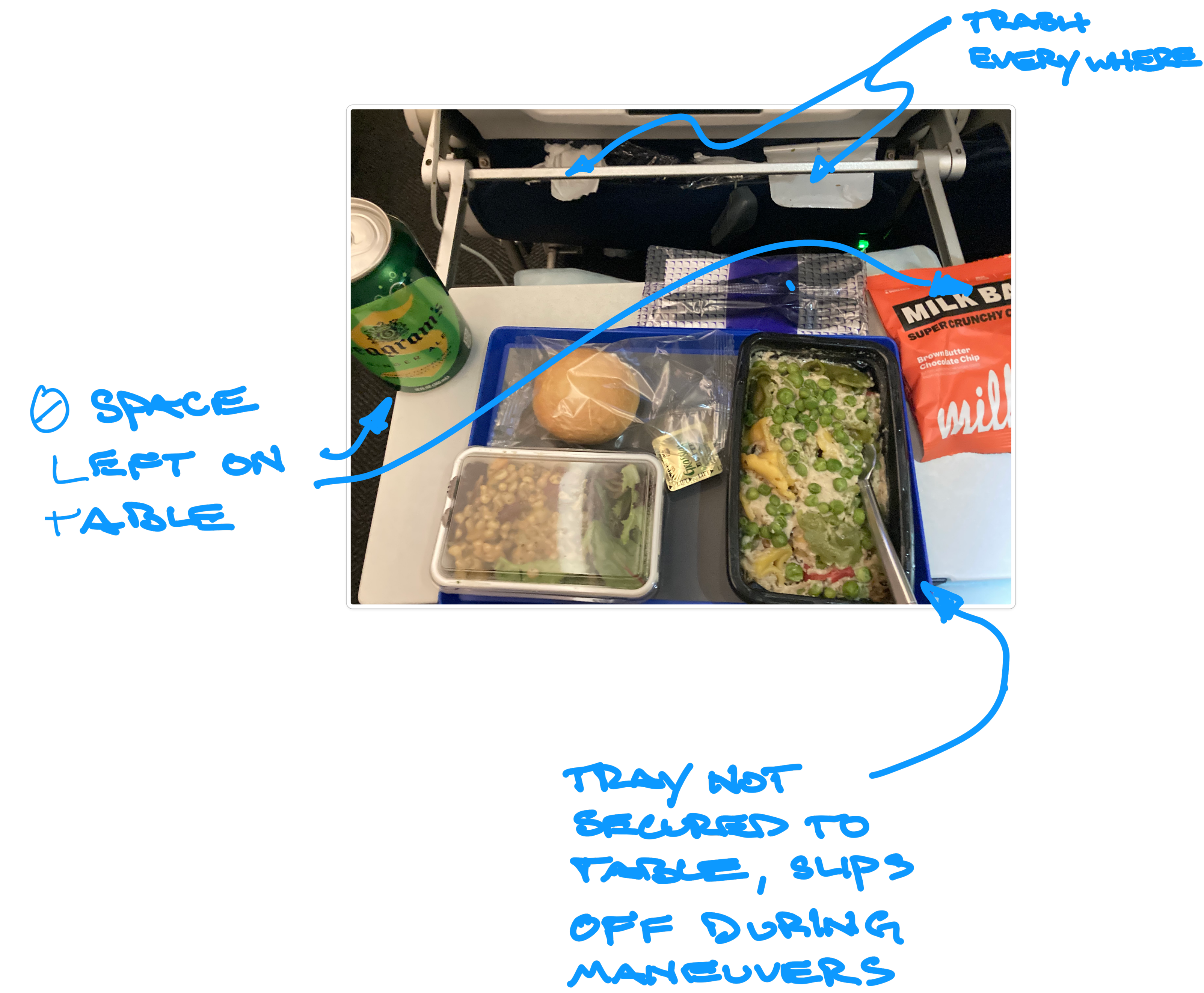
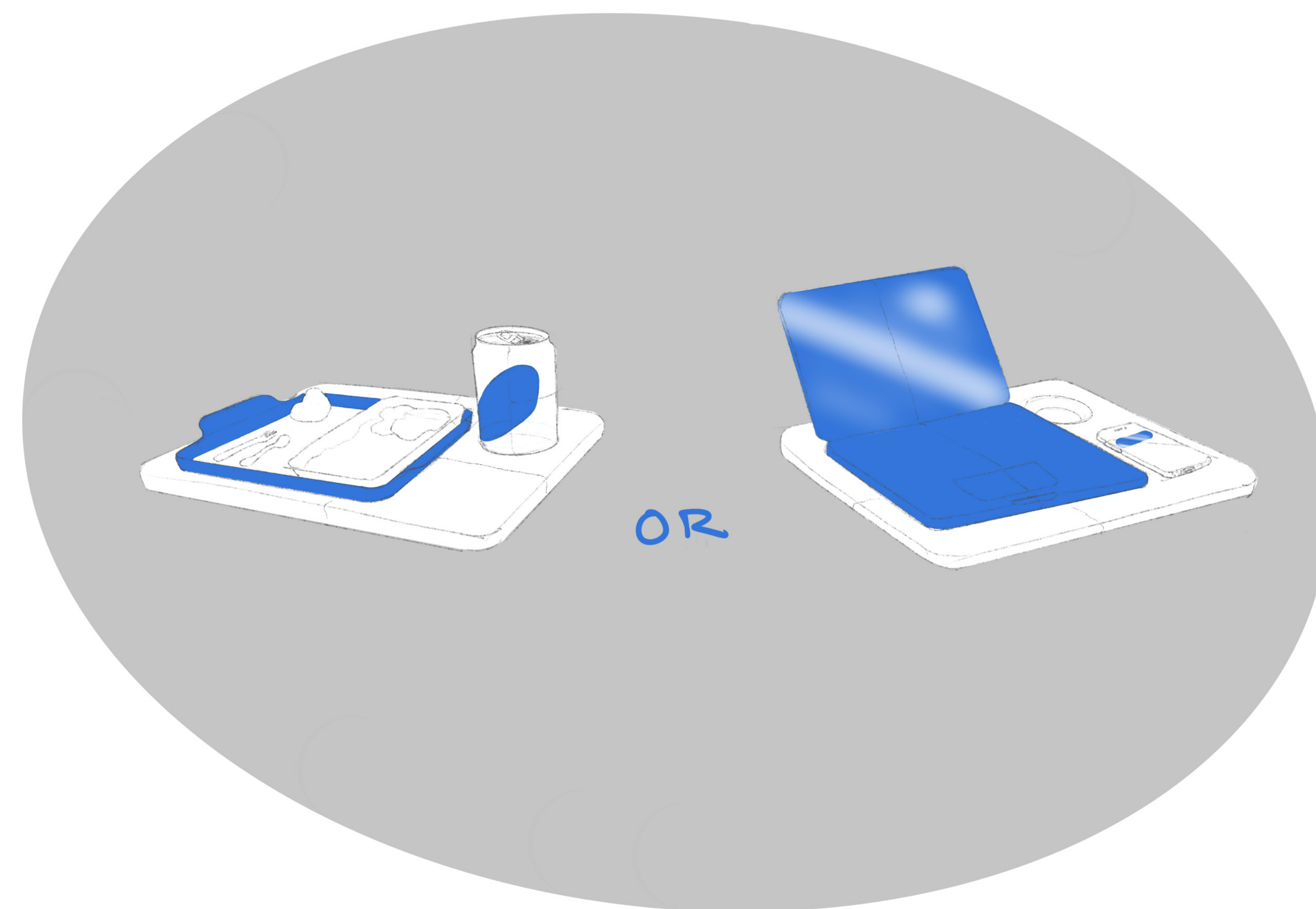
UNITED

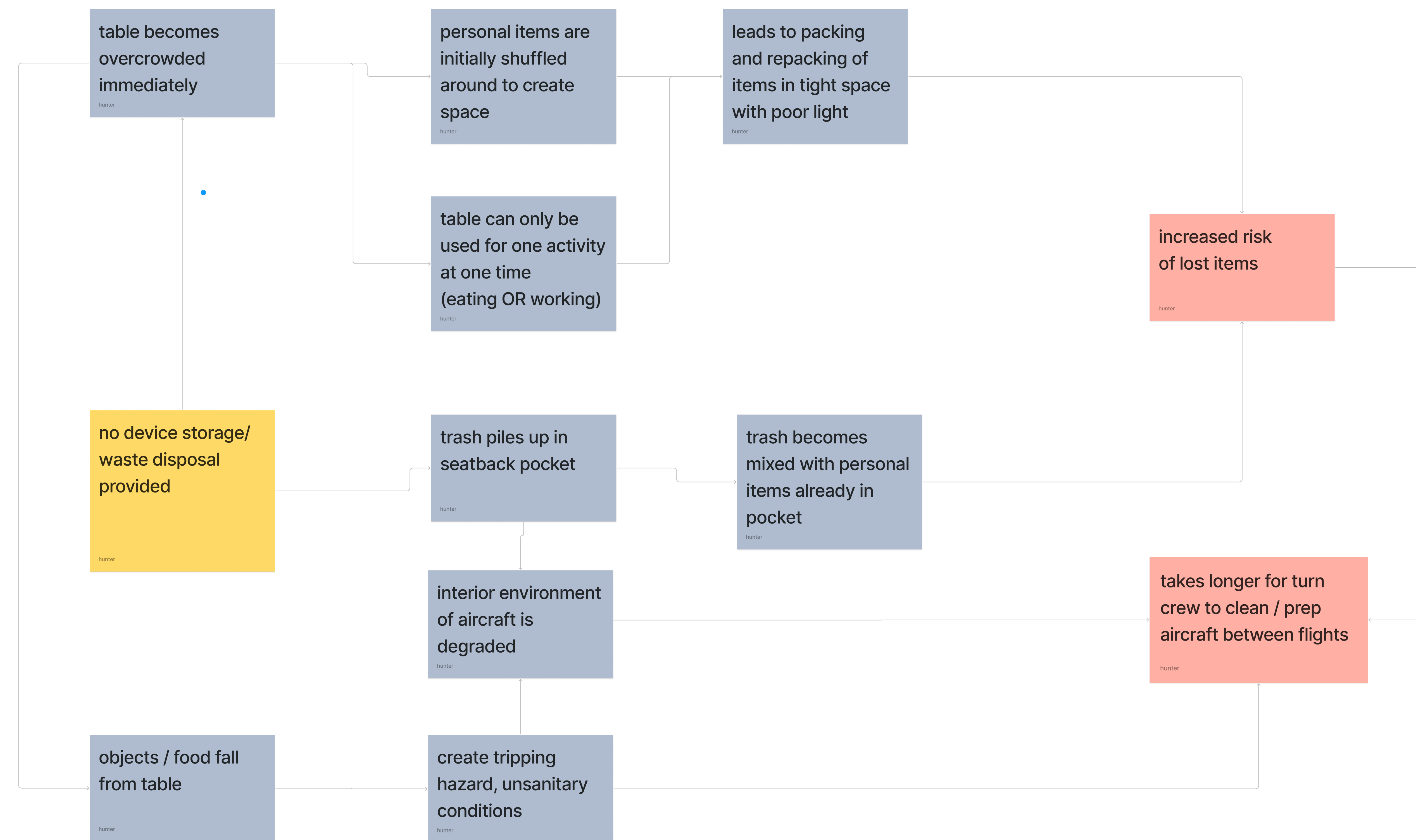
Power outlet above
In the event of a water landing,
seat cushion may be used
as a flotation device

UNITED

EconomyPlus

The standard airline seat is not well designed for modern traveling.





A simple lack of storage for personal items or waste has a cascading effect.

The result is significant time and money lost.

OVER 2 MILLION

personal items left
behind on aircraft
annually.

AN INCREASING TREND

in personal electronic
devices being left
behind on aircraft.

25 MINUTES

time that turn crews have
to clean aircraft between
flights - impacted when
dealing with lost
personal items.

Goals

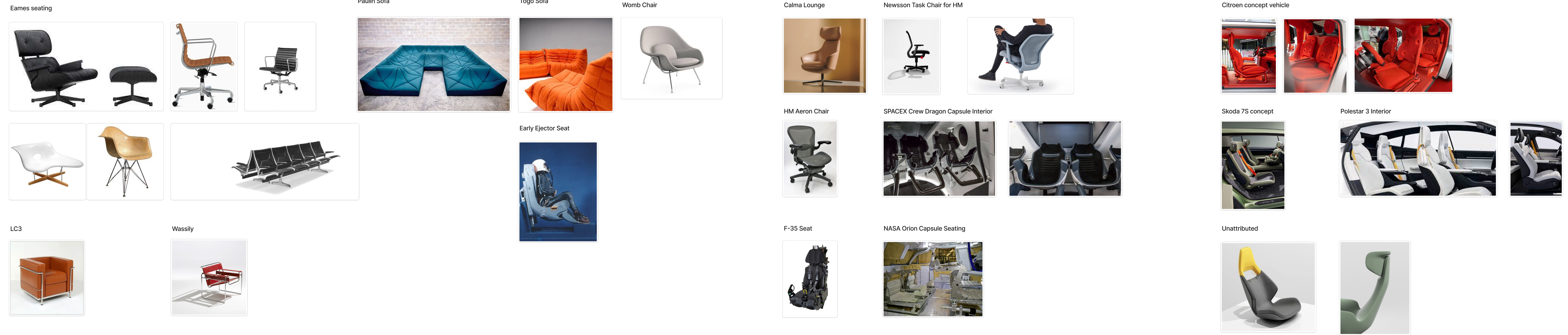
A cabin seating system that

- increases passenger comfort
- reduces personal item loss
- provides efficient waste storage and collection
- saves time for passengers and crew

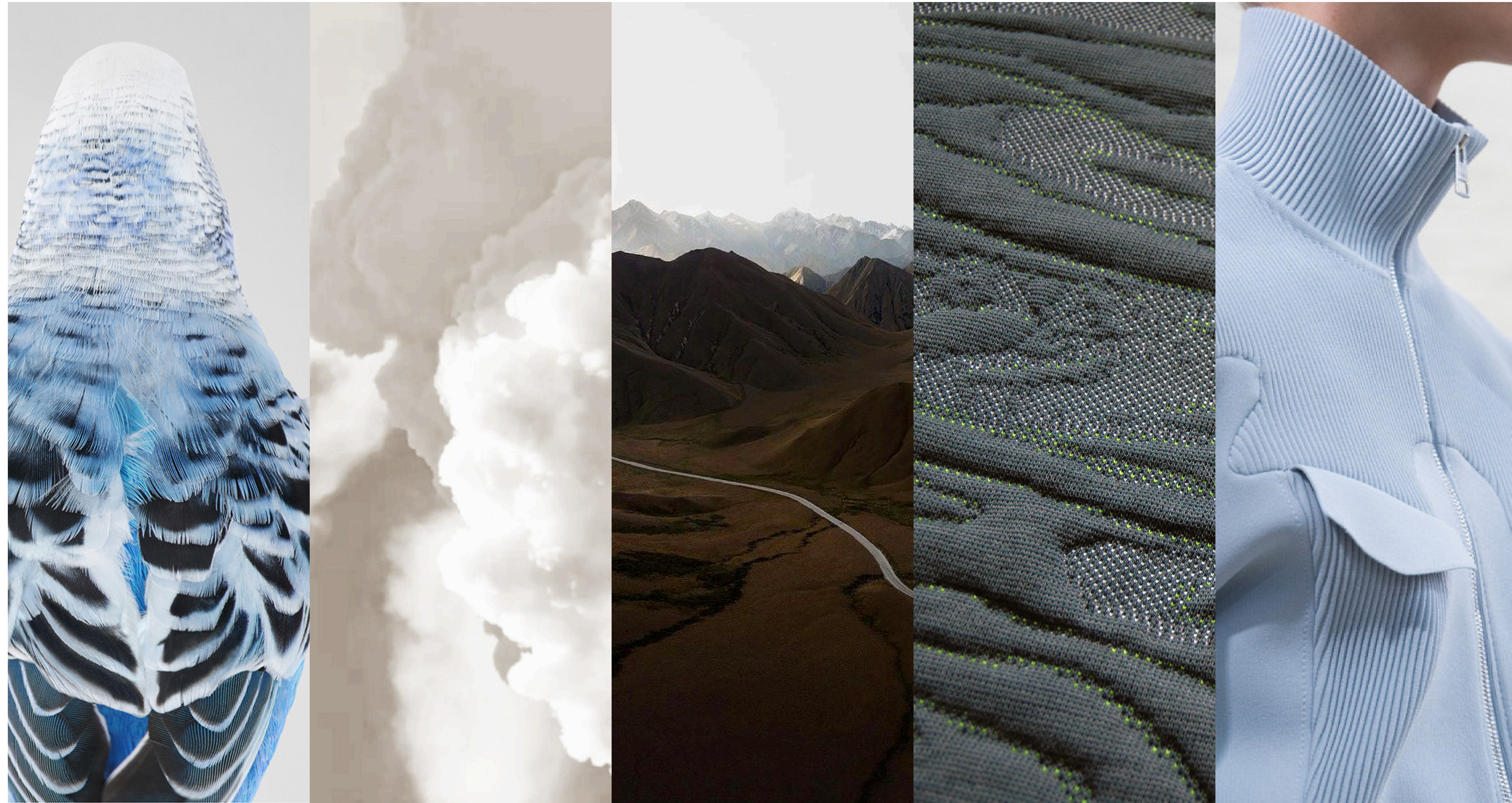
Where to start?

past

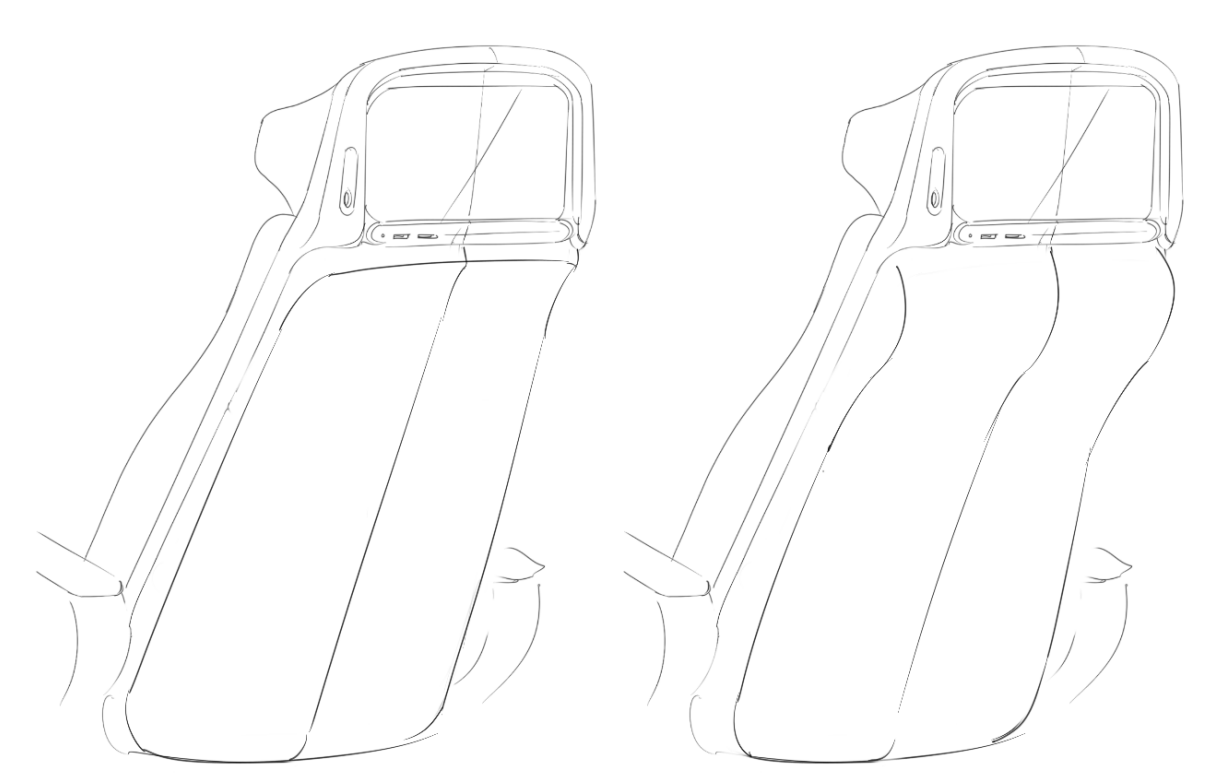
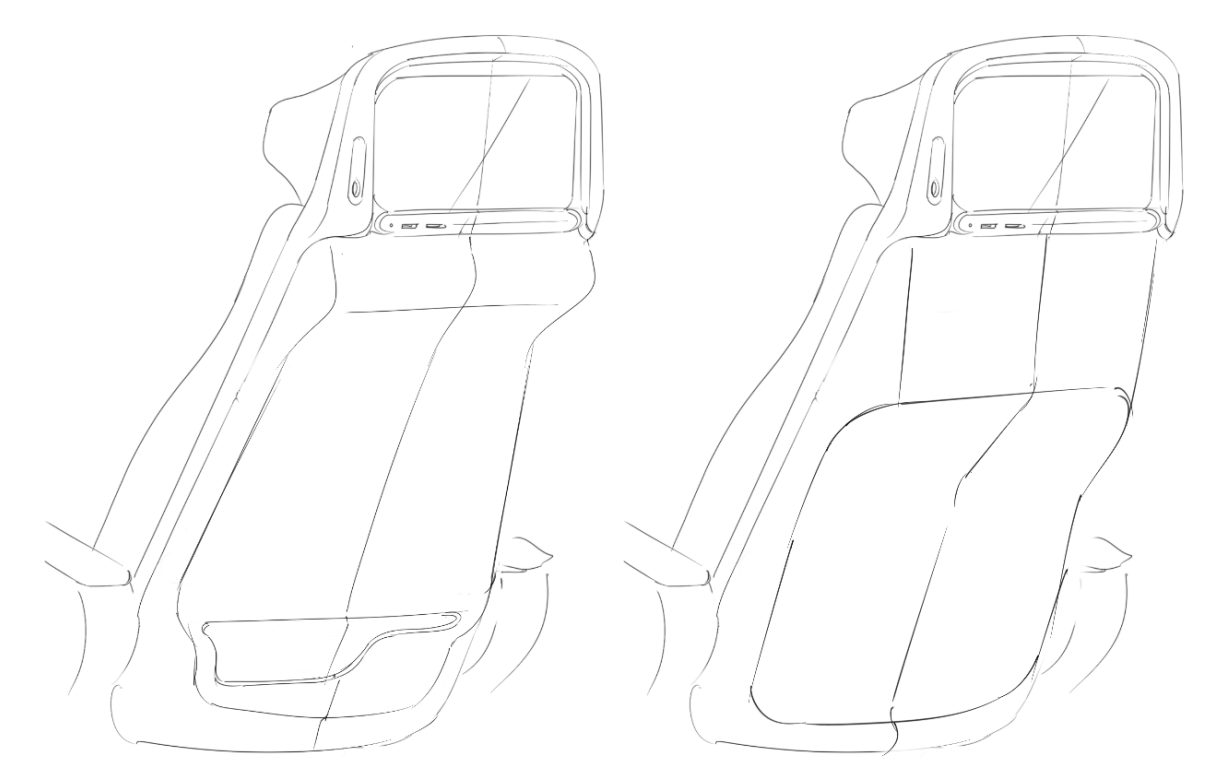
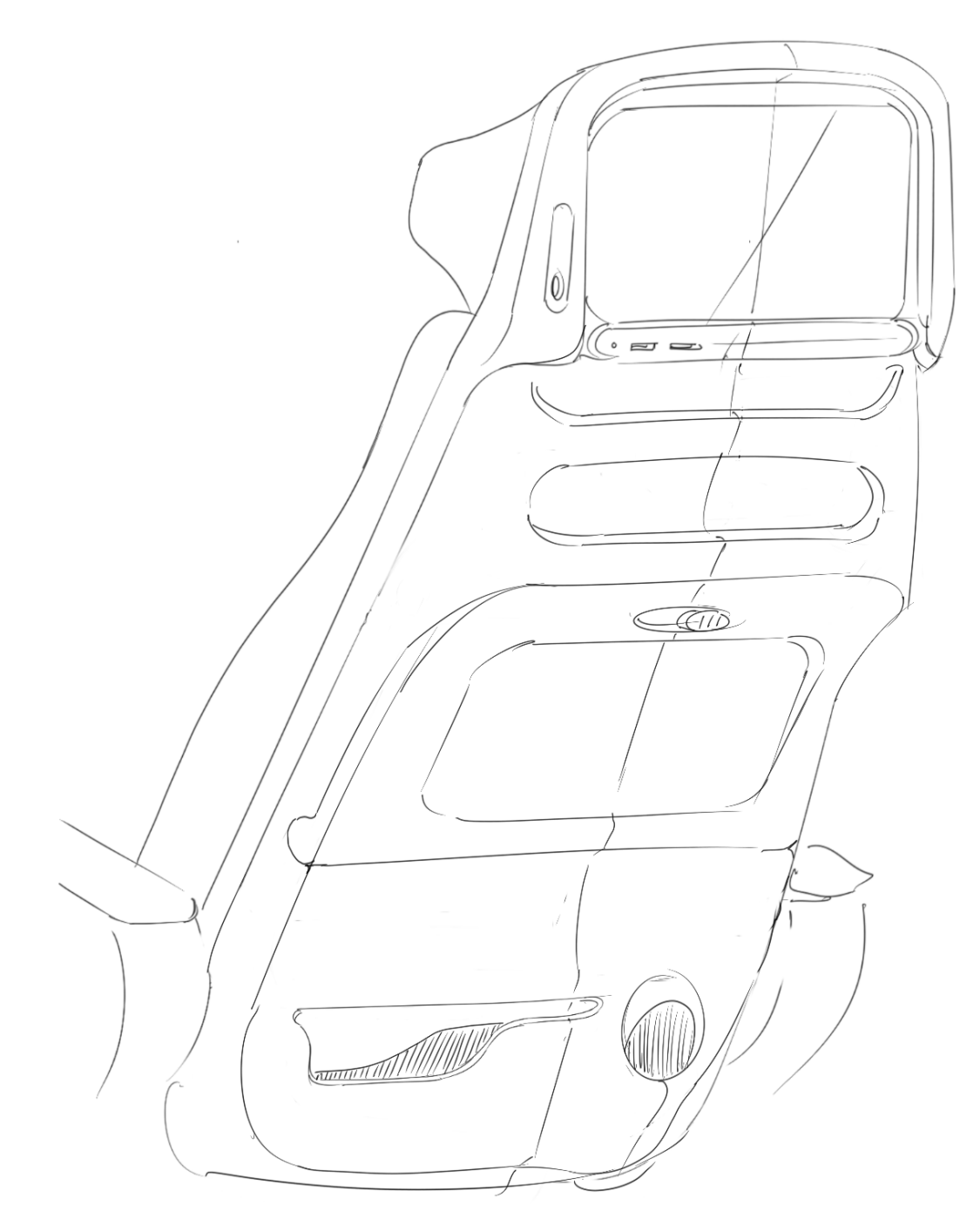
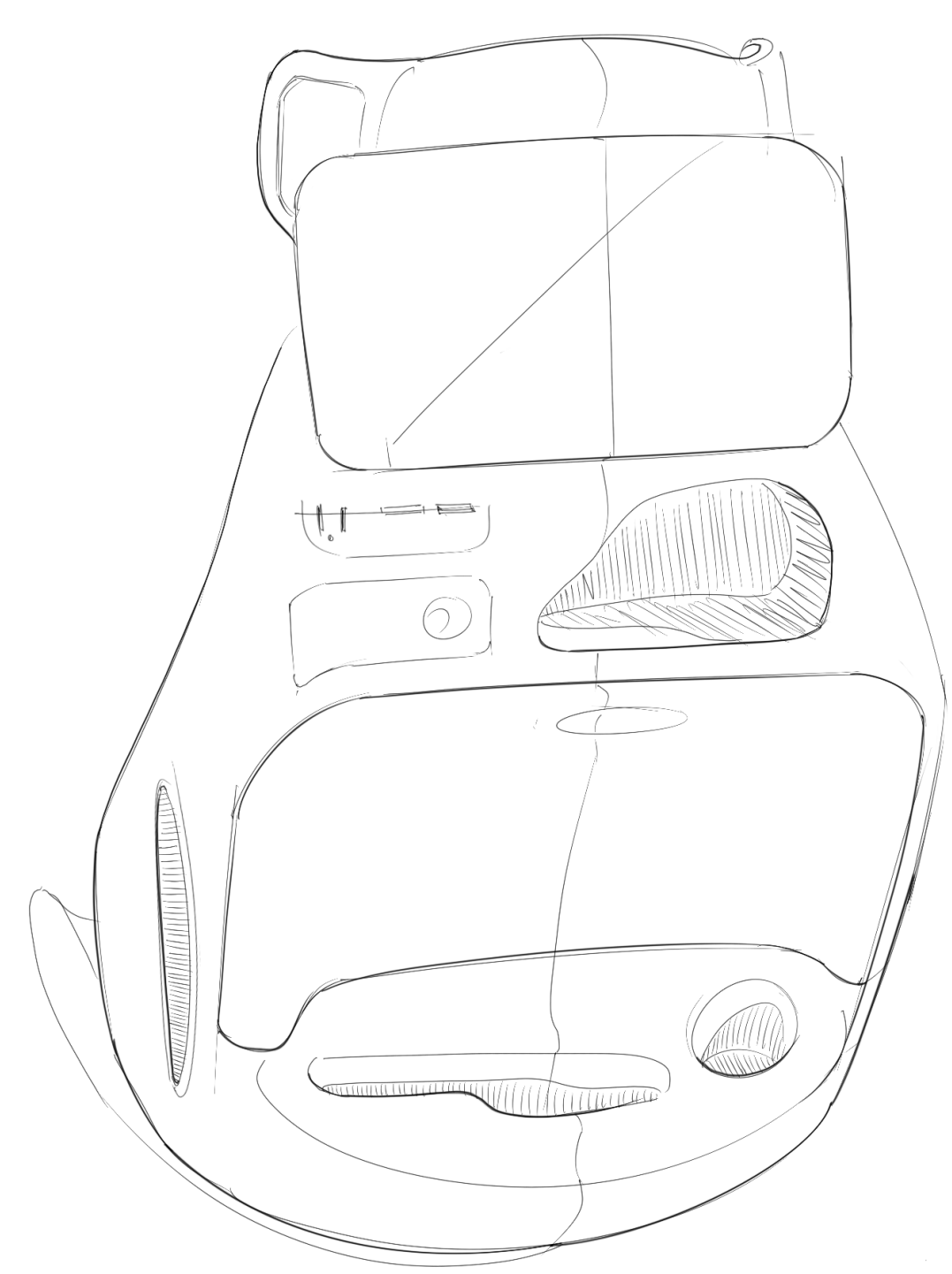
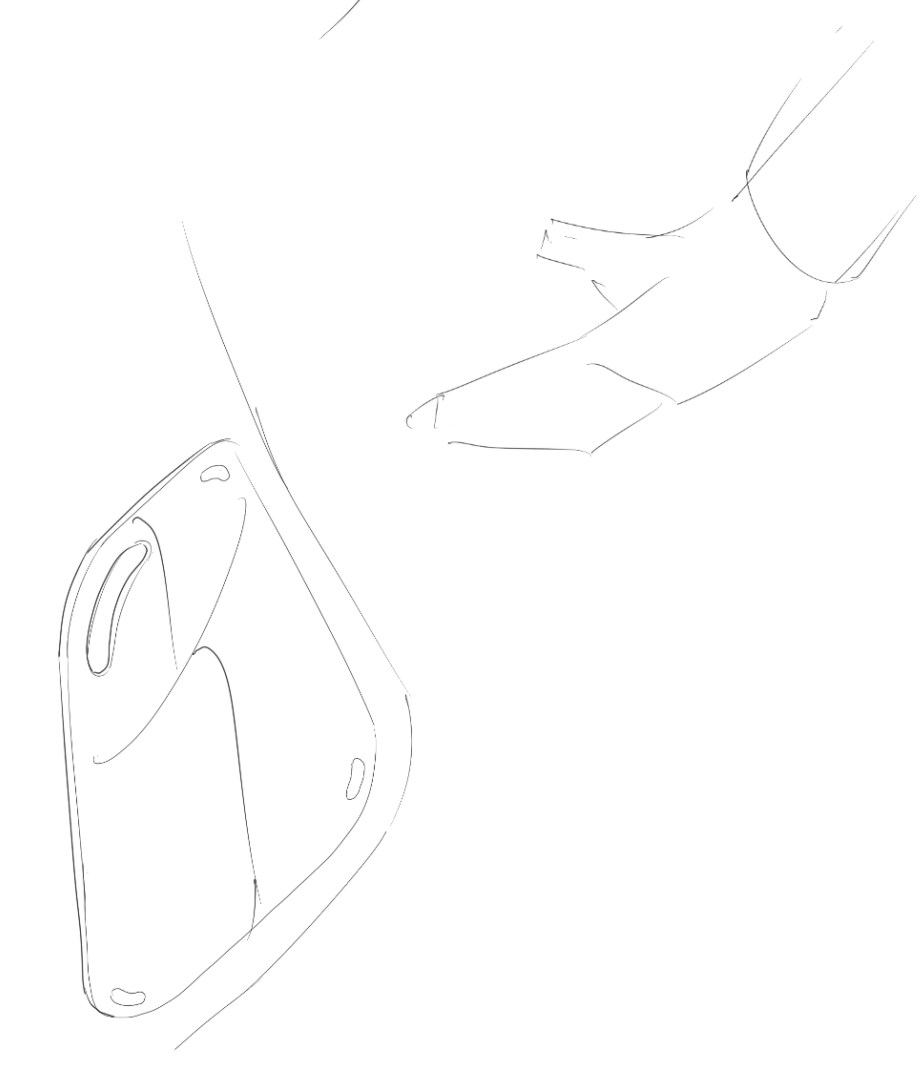
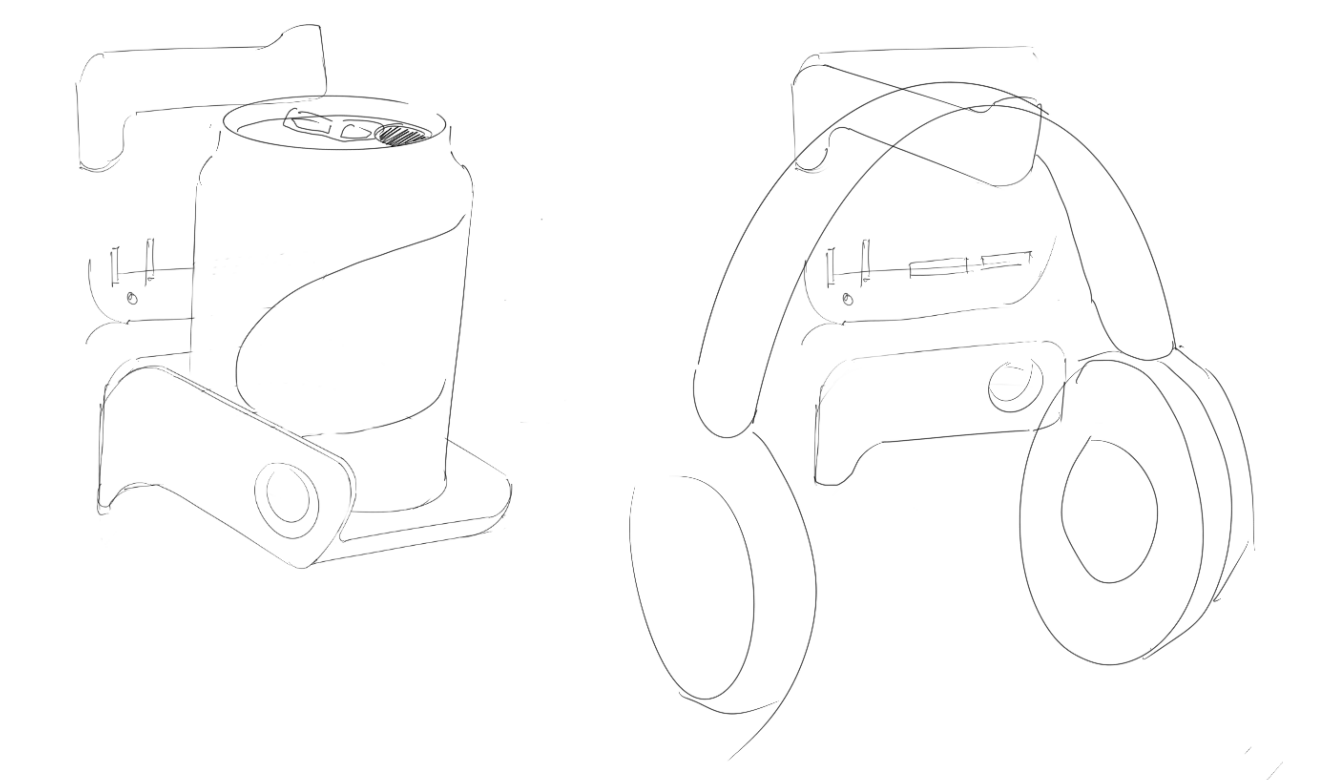
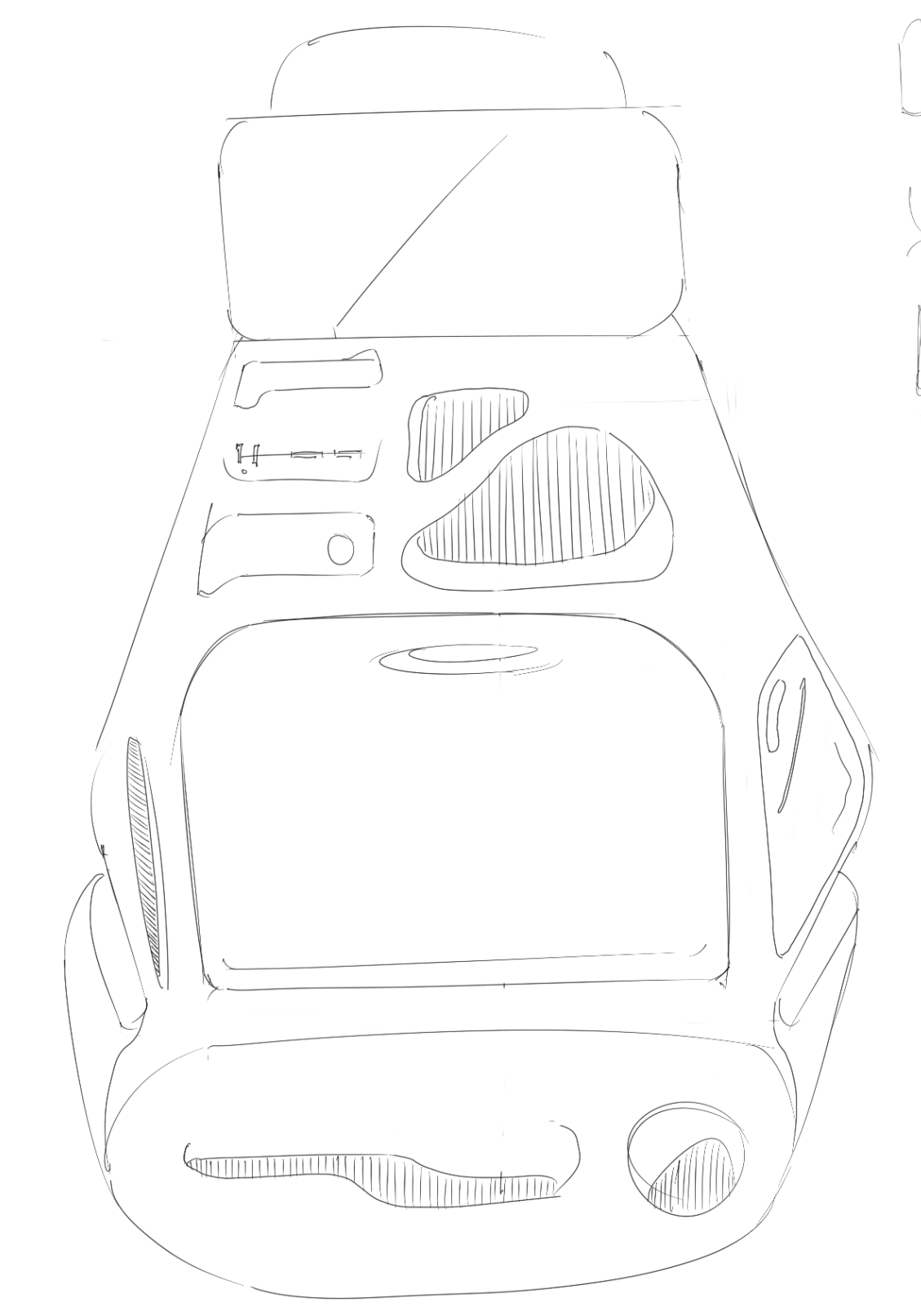
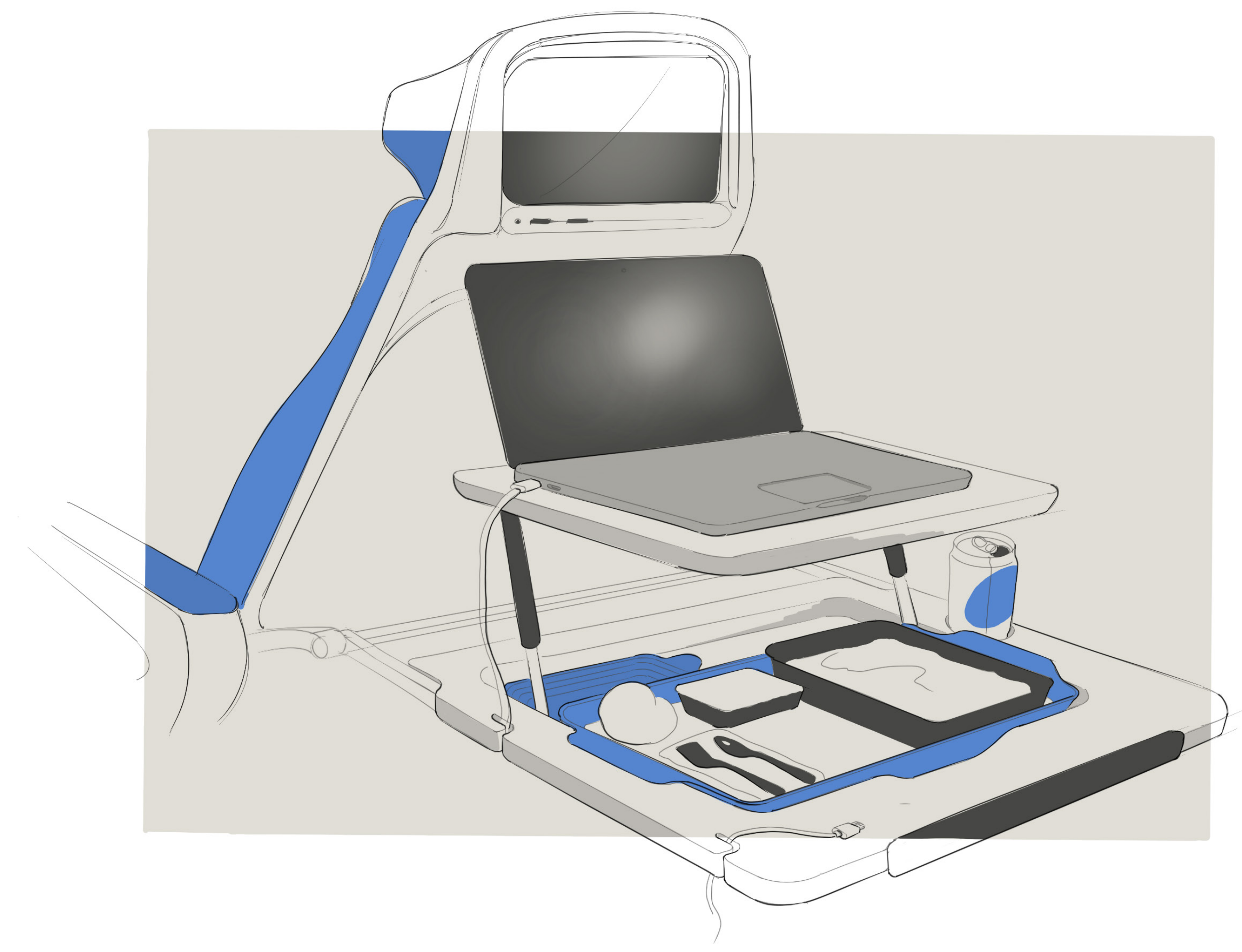
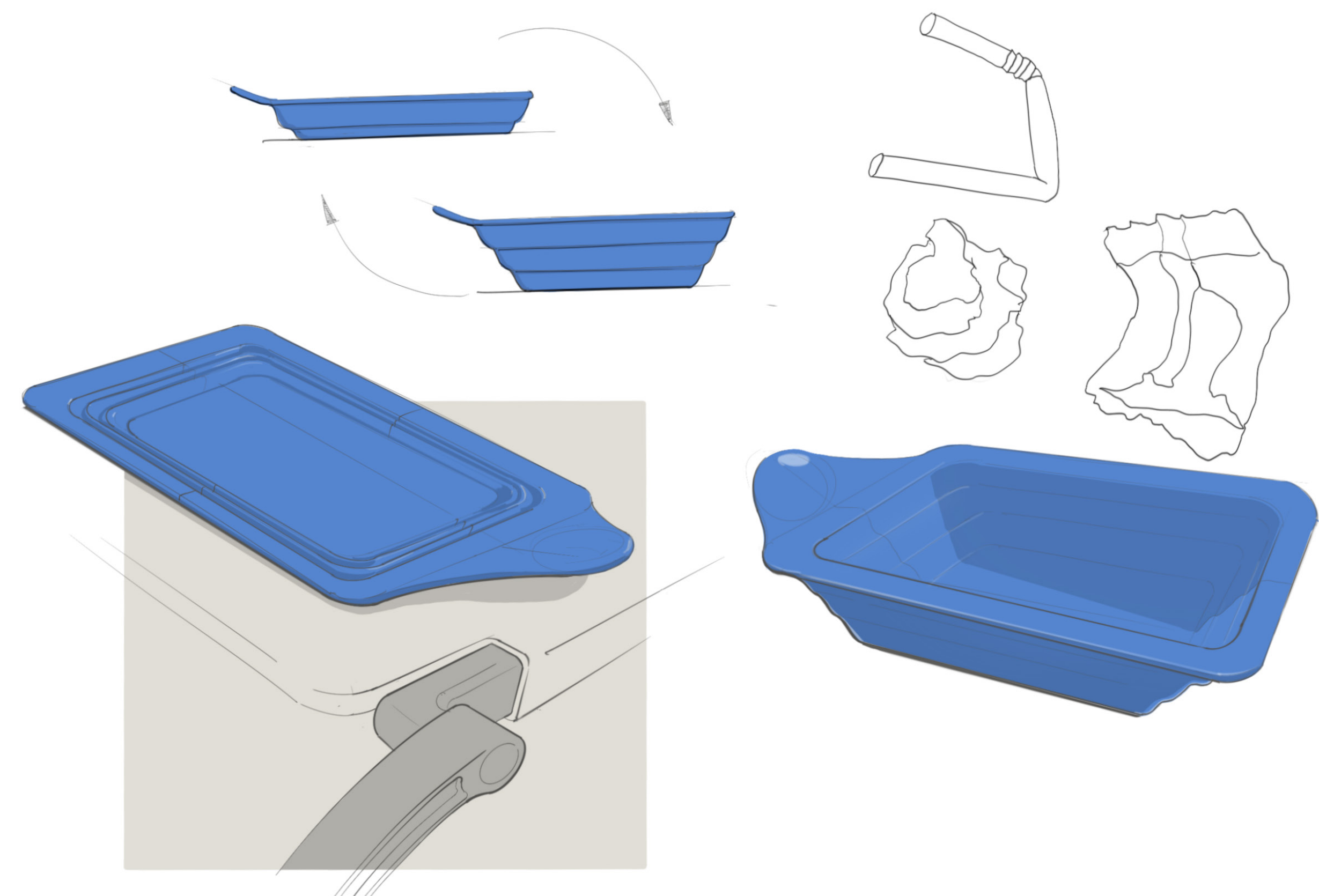
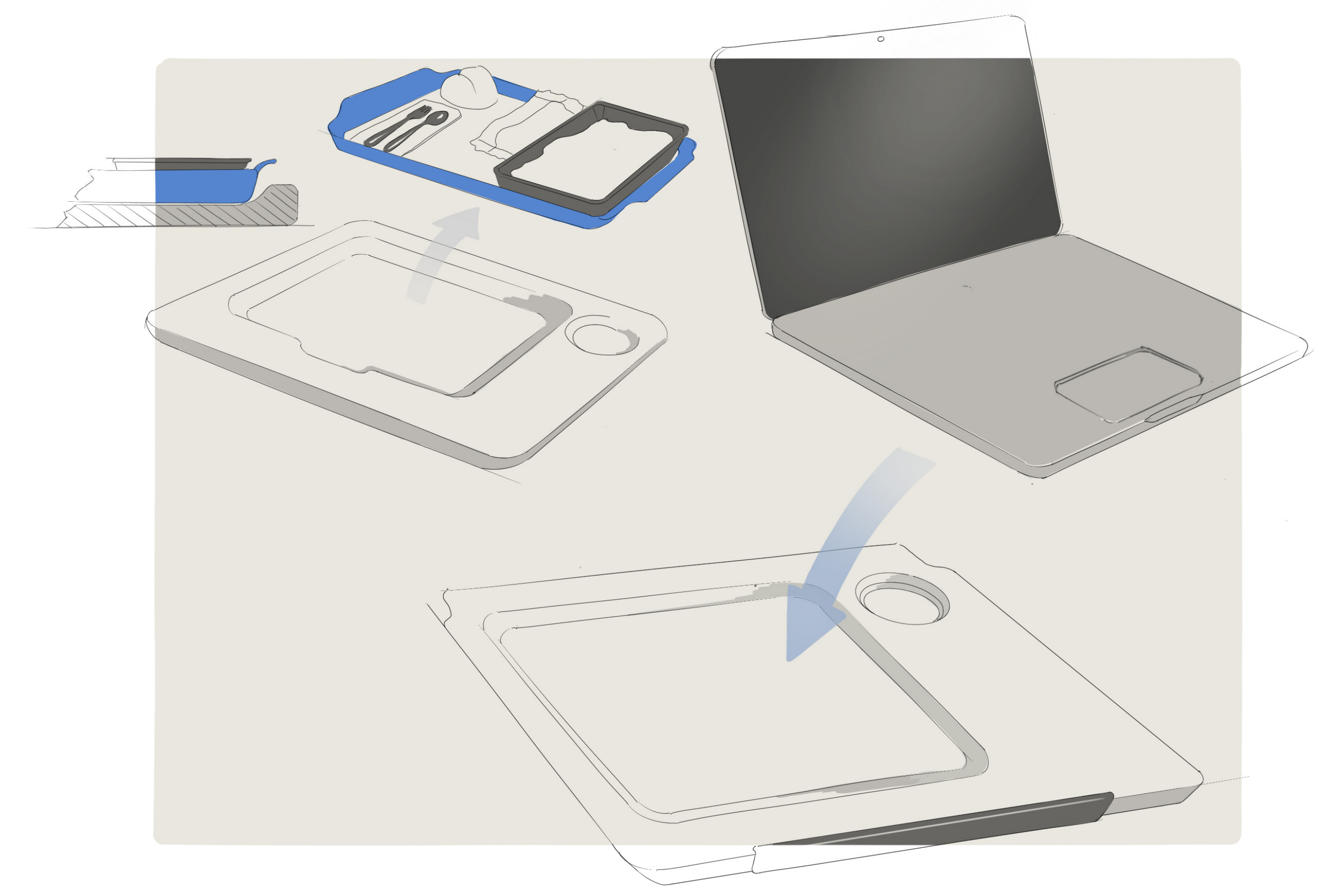
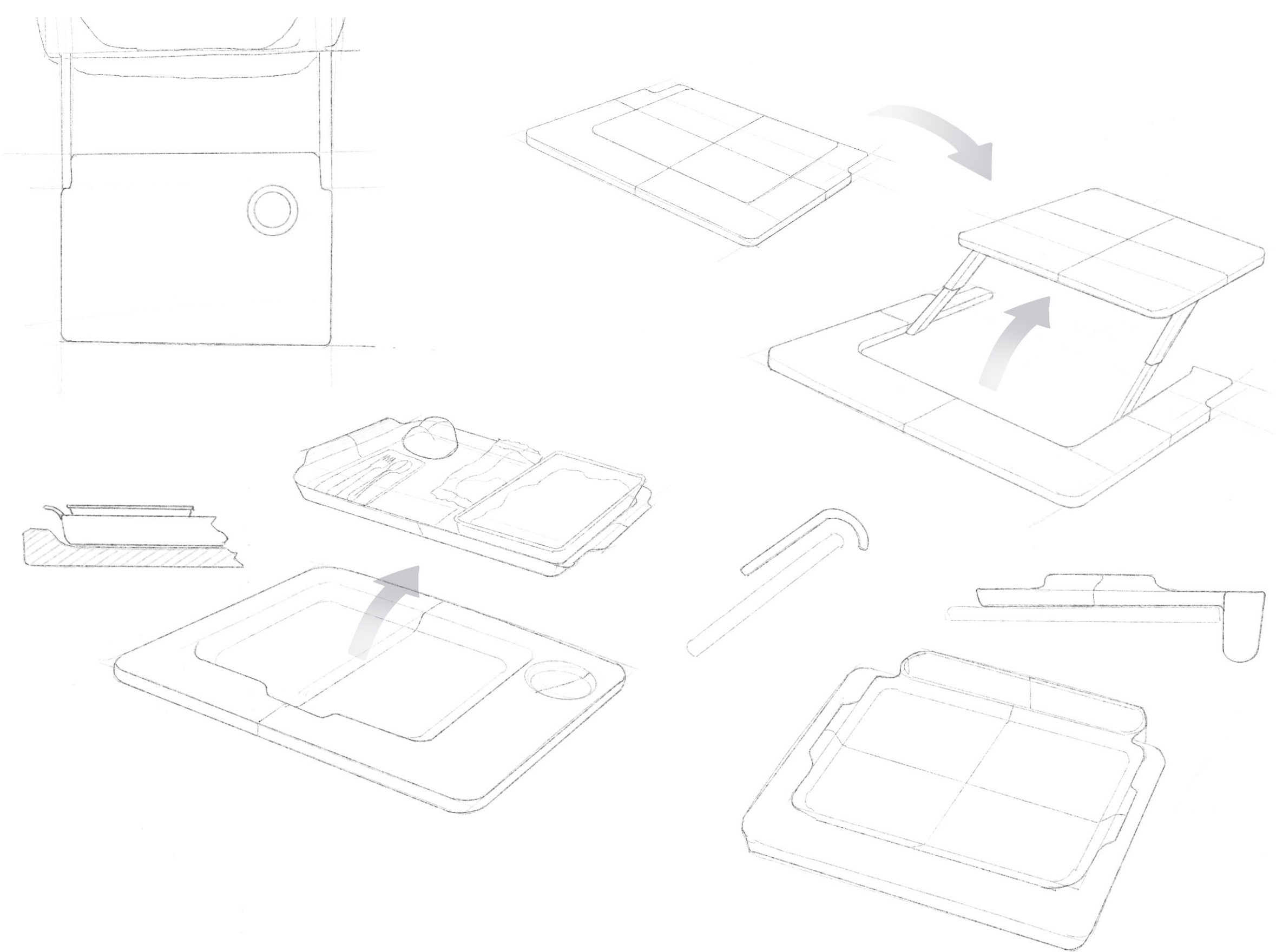
future

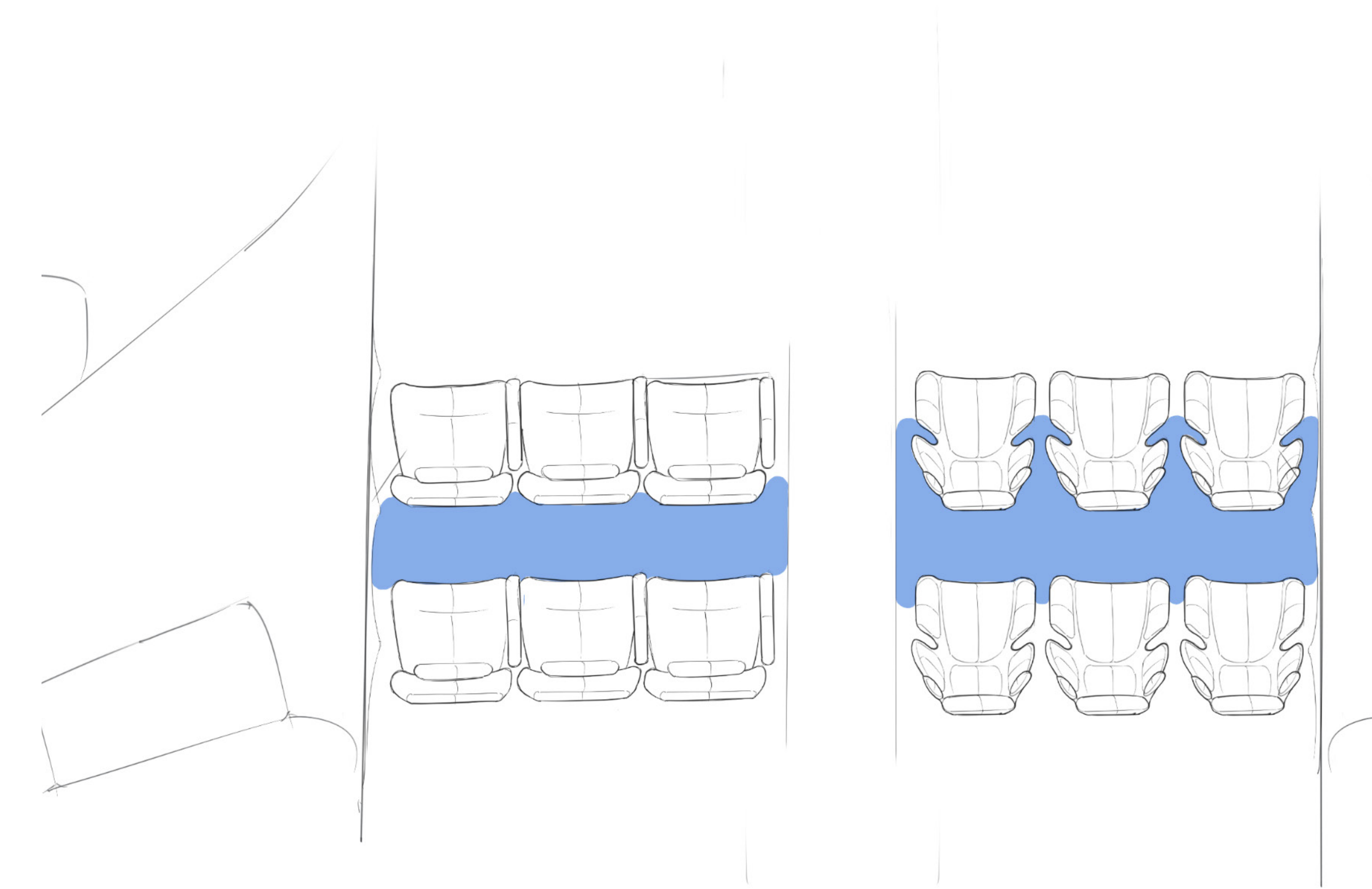
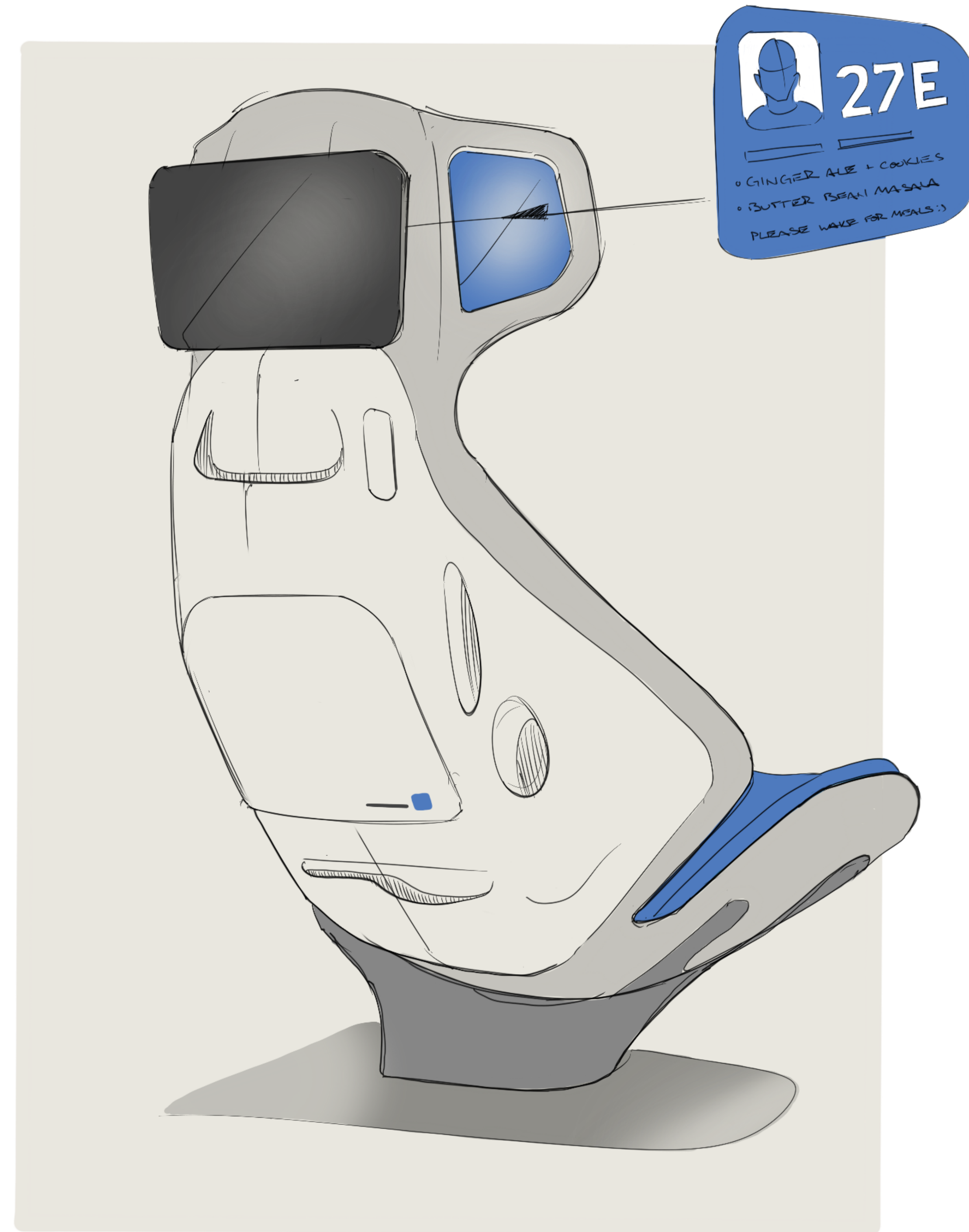
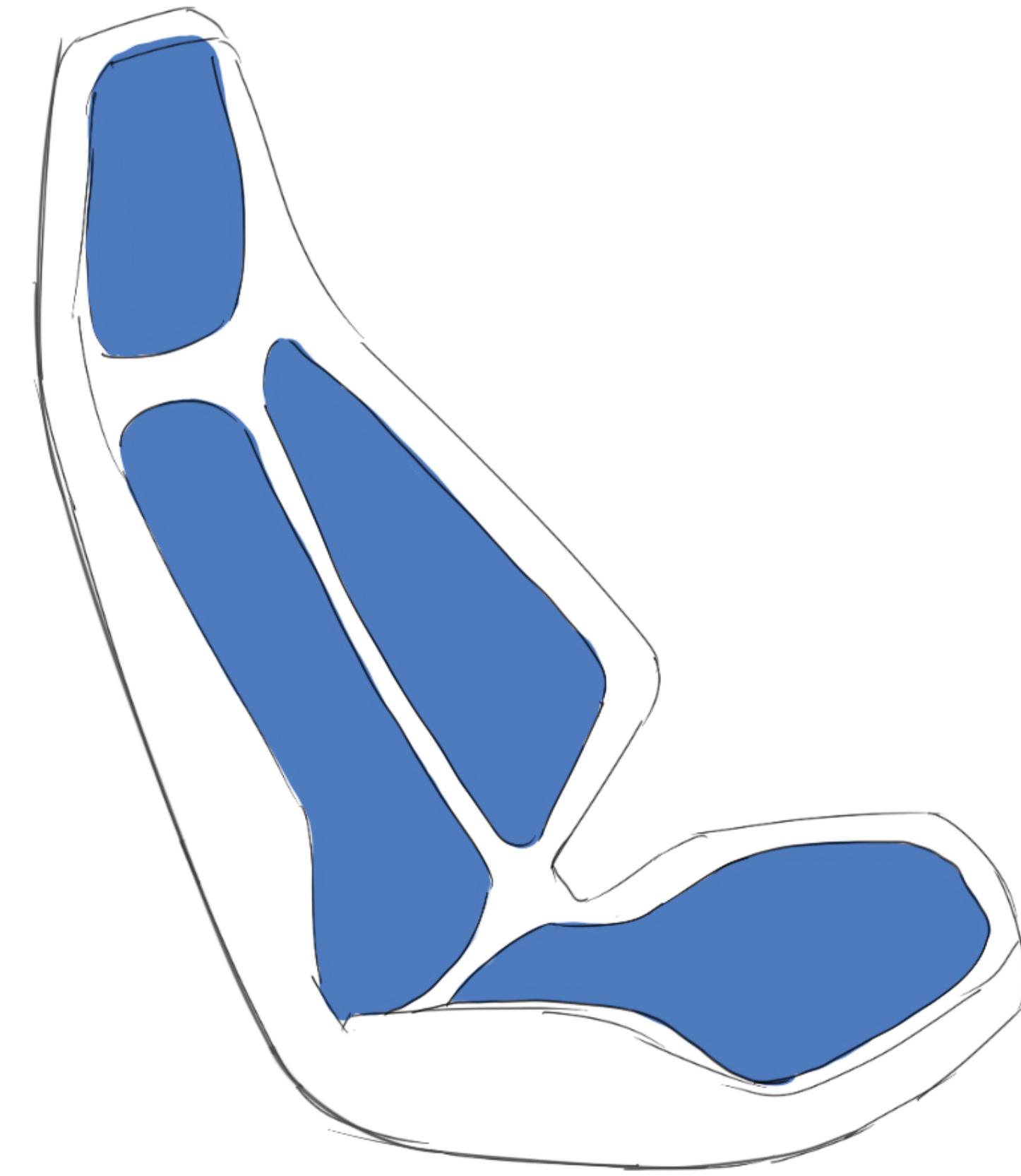


Examining the past, present, and future of great seating.

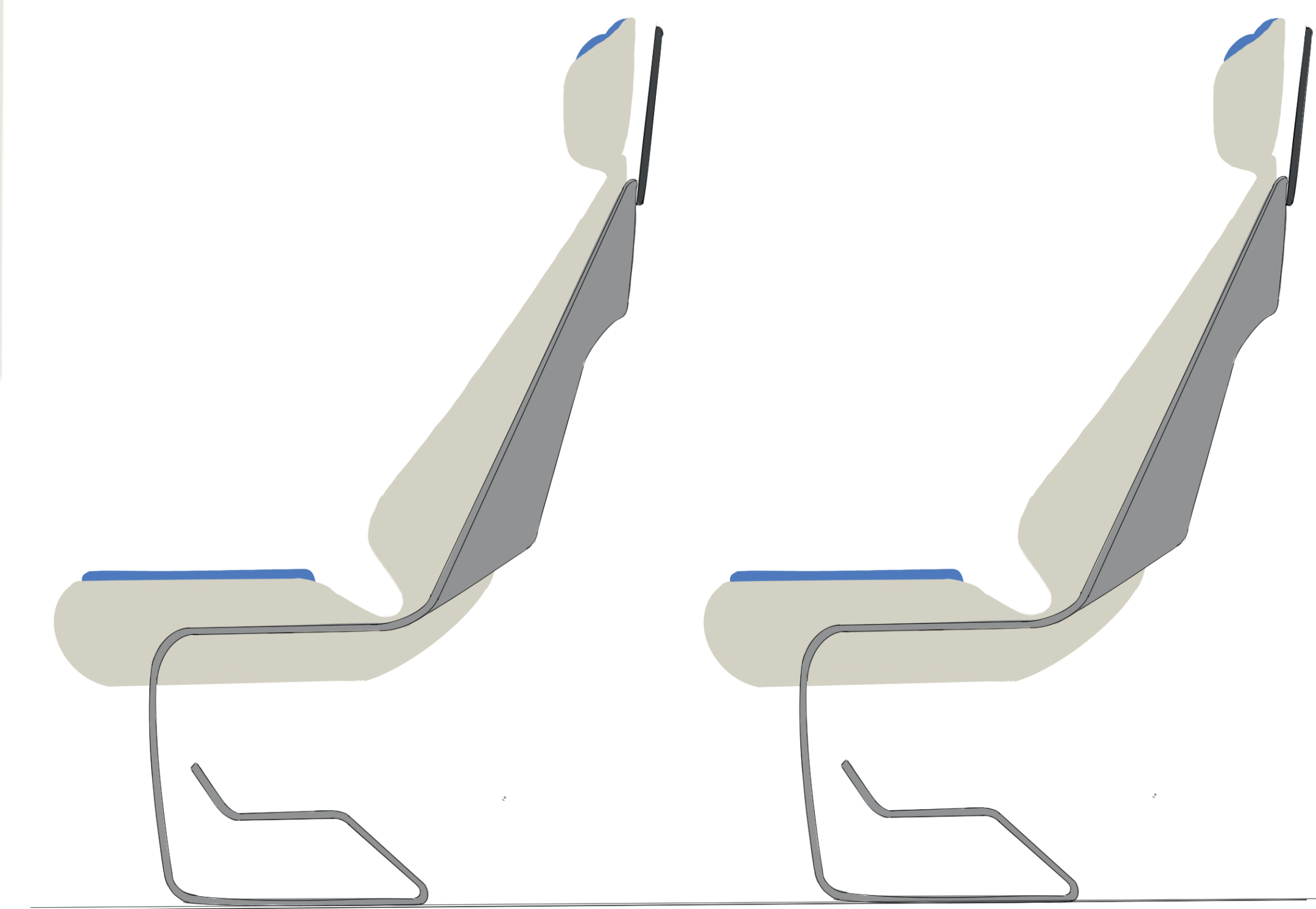


Ideation

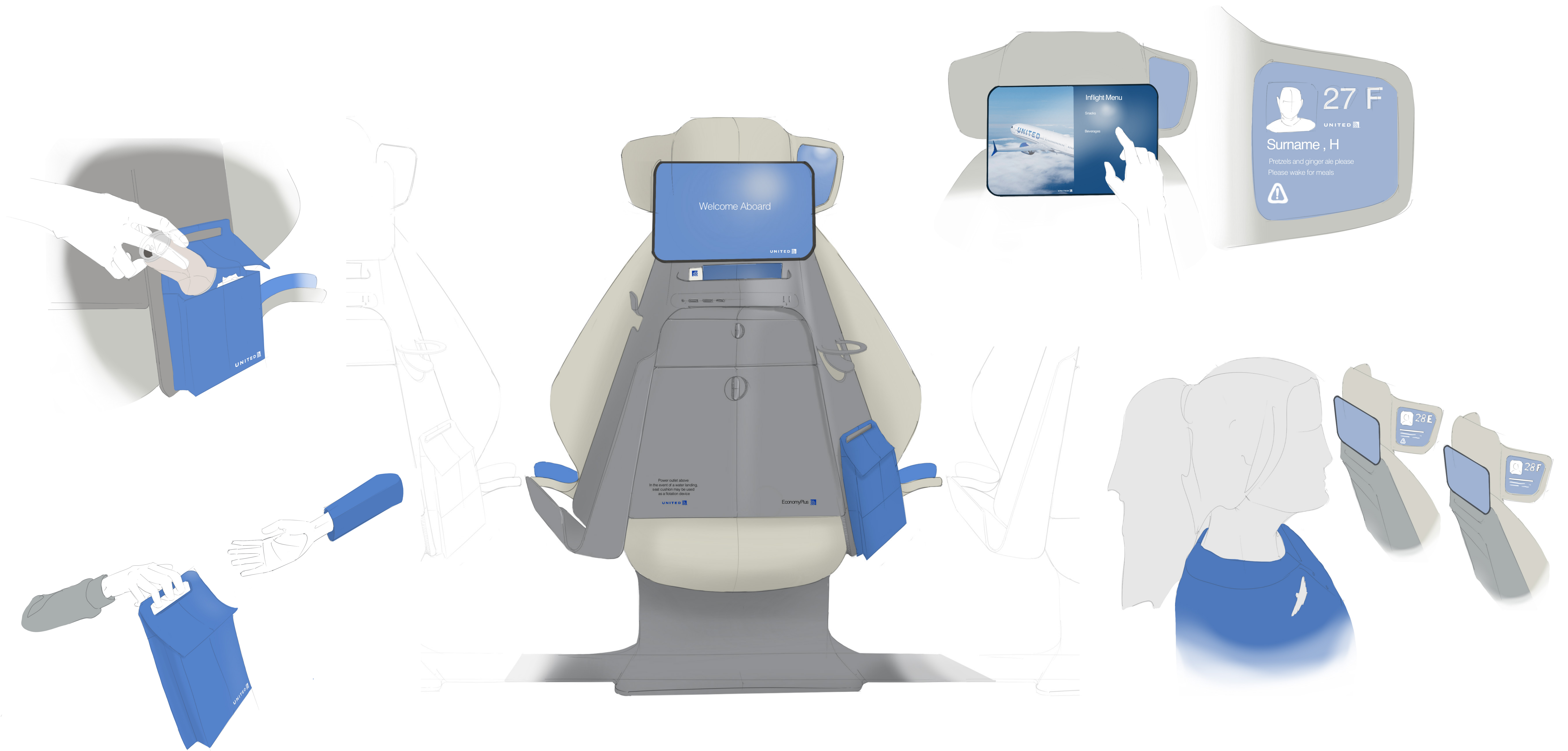




Altering seat form opens up floor / cabin space.







Uh oh, Hunter hasn't filled this page out yet.

We'll make sure he gets right on it.

In the meantime, check out

https://www.instagram.com/_hj.m_/

OR

<https://huntermccluer.work/sandbox>

to see more work.

Thanks for viewing!

