

Lucy Fata

Industrial Design

Portfolio

2026

Hello!



Lucy Fata

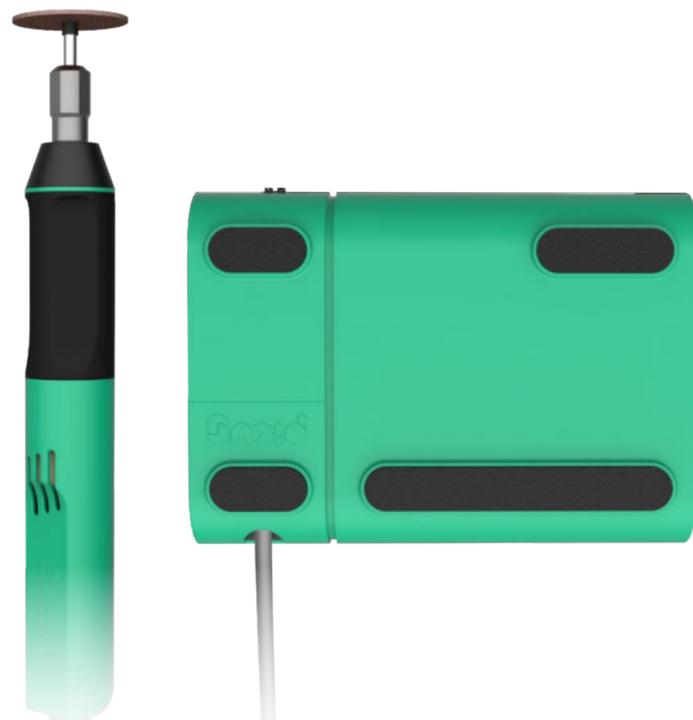
My passion for design and creative thinking is driven by a belief in empathetic design. I love to immerse myself in projects to create innovative, unconventional and inclusive solutions. I thrive on learning new skills and tackling challenges, which is a big part of why I enjoy design.



Project 1



Interactive
Construction
play set



Project 2



Rotary Tool



Project 3



Library Delivery



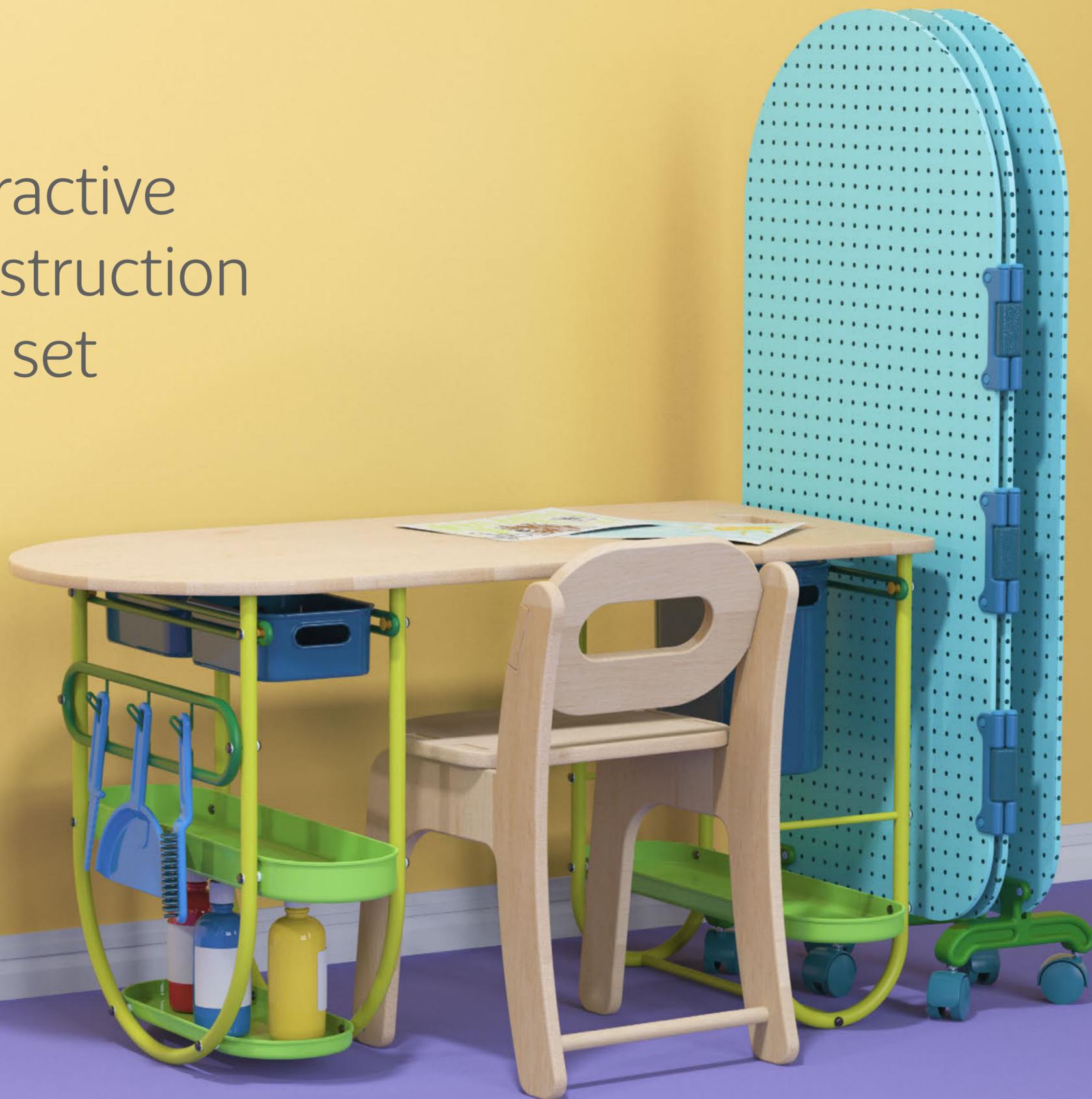
Project 4



Game Console

Pick-it

Interactive
Construction
play set



Problem.

In the rise of the digital age, kids are struggling to develop necessary fine motor skills.

Solution:

Engaging way to get kids practice skills like:

- grasping things;
- pinching
- wrist rotation

looking at the stats:

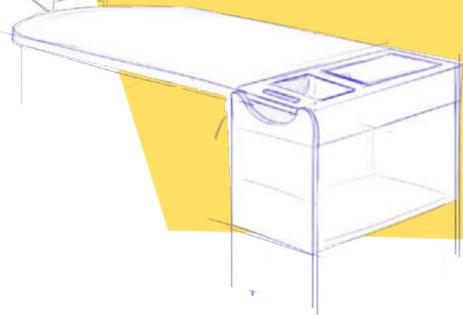
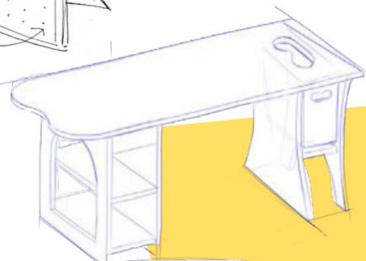
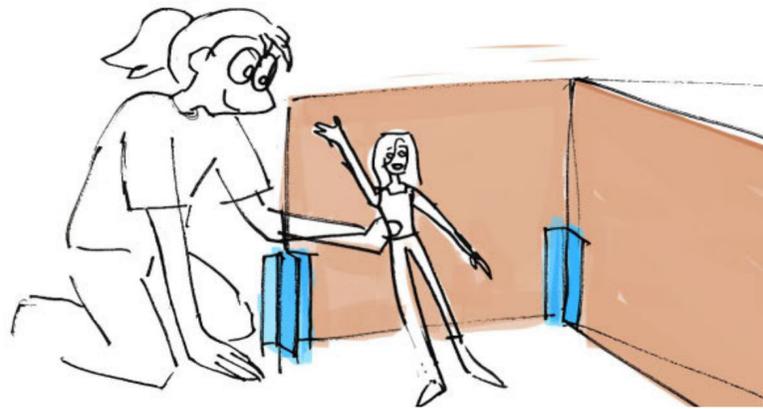
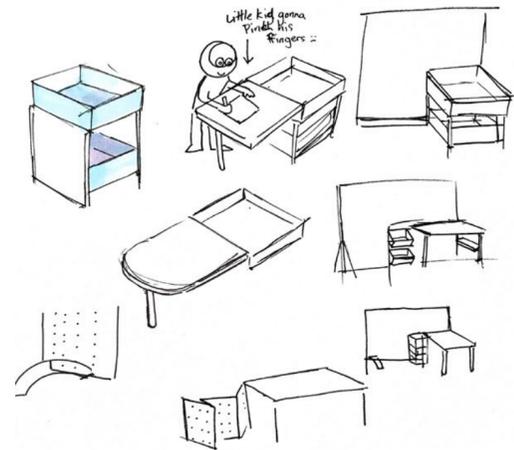
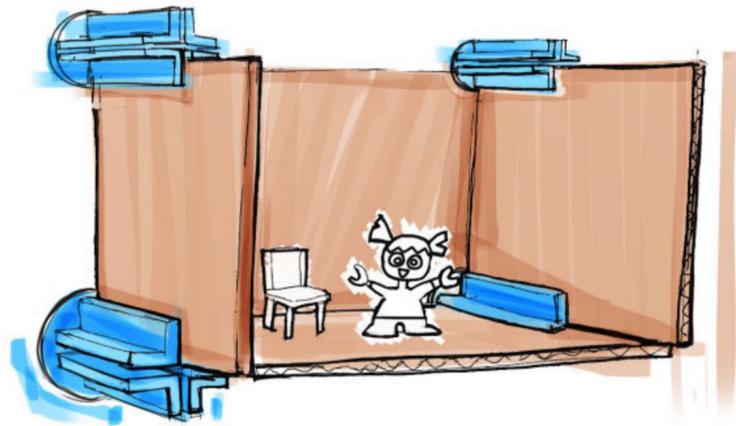
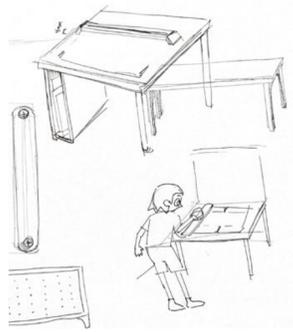
58%

of parents want toys
that build STEM skills

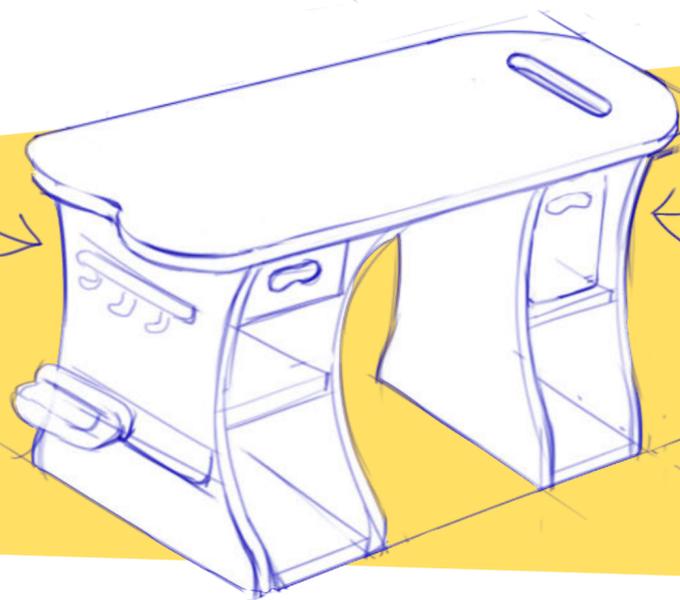
An estimated

9000

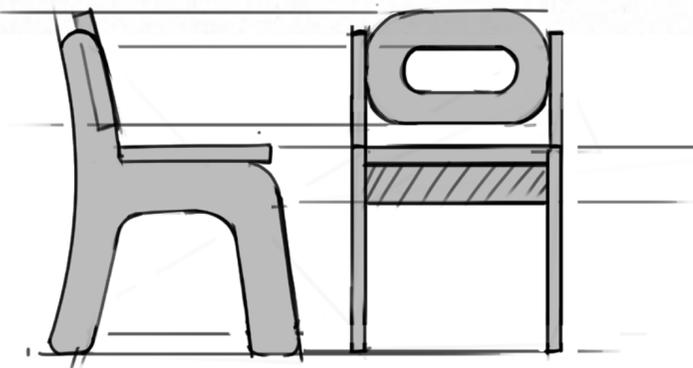
pieces of cardboard are
thrown out by the average
American household



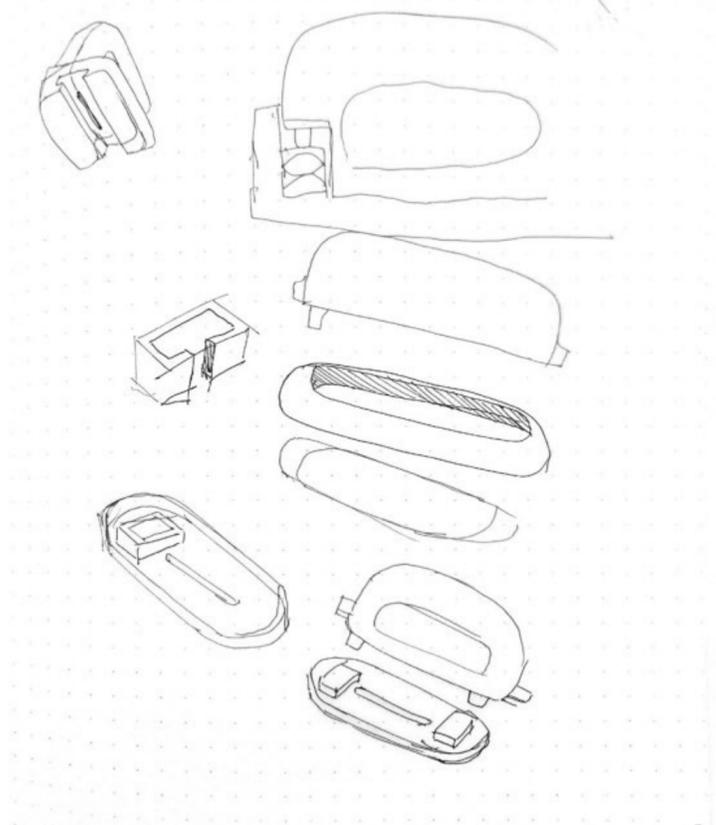
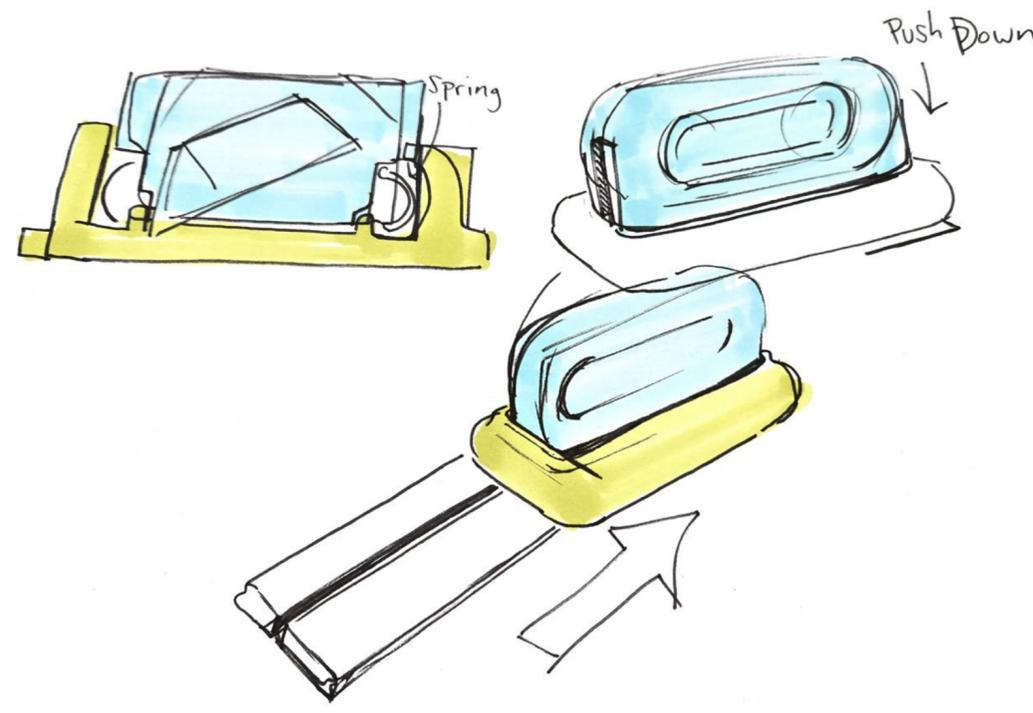
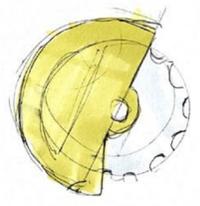
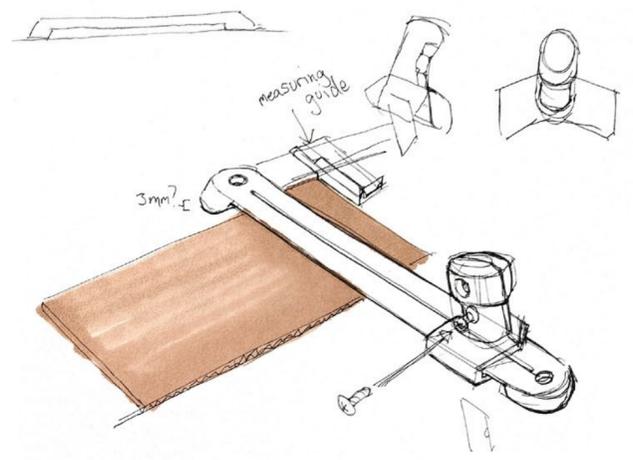
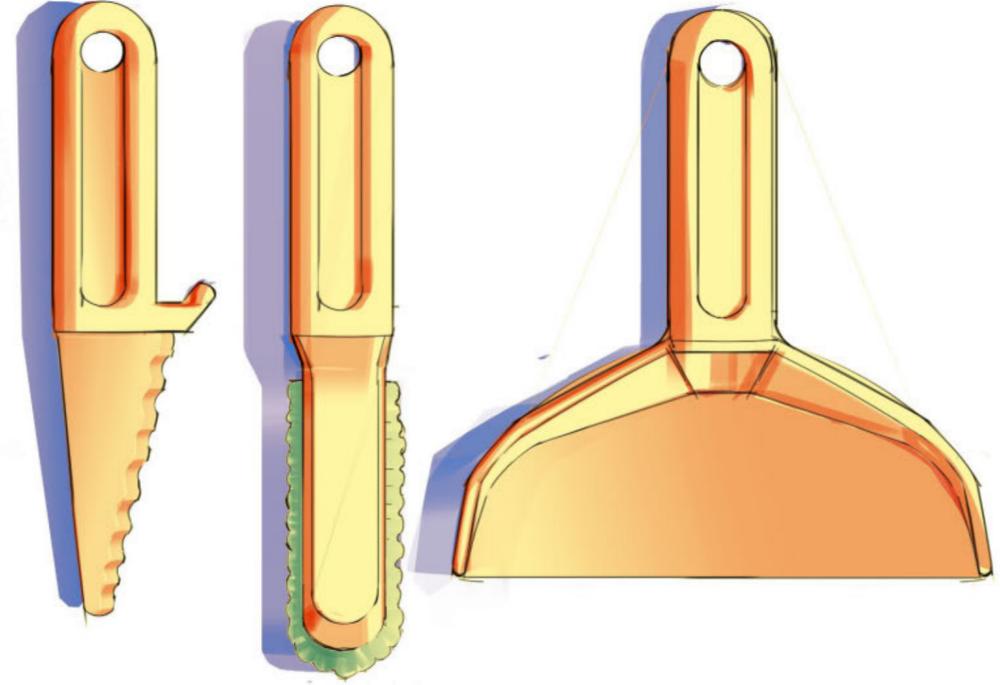
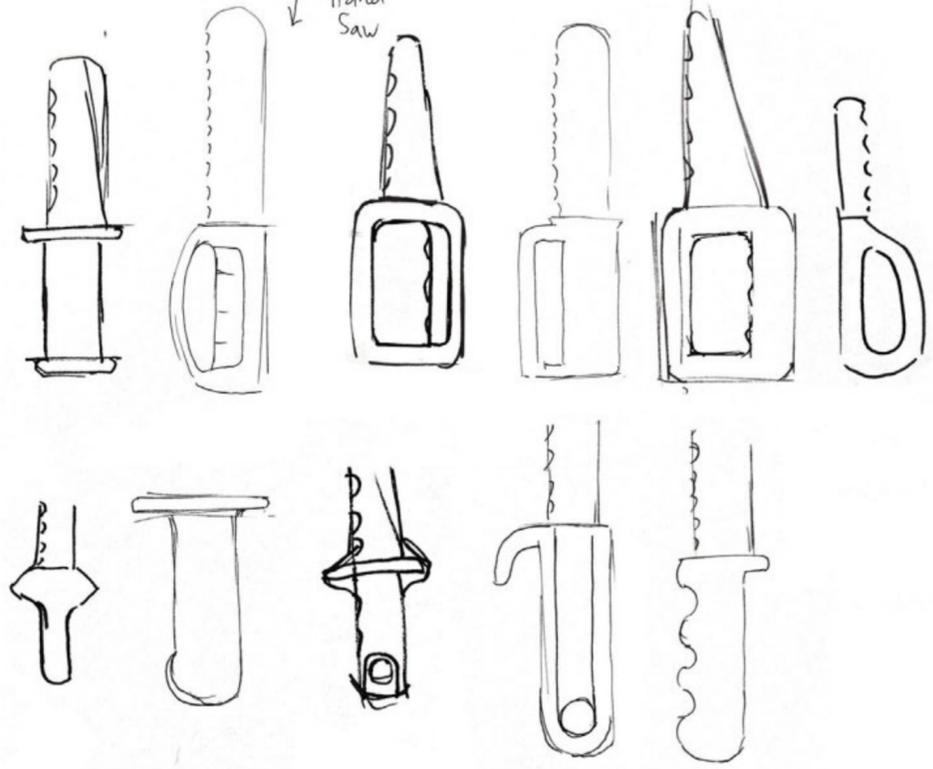
Hooks for tools.



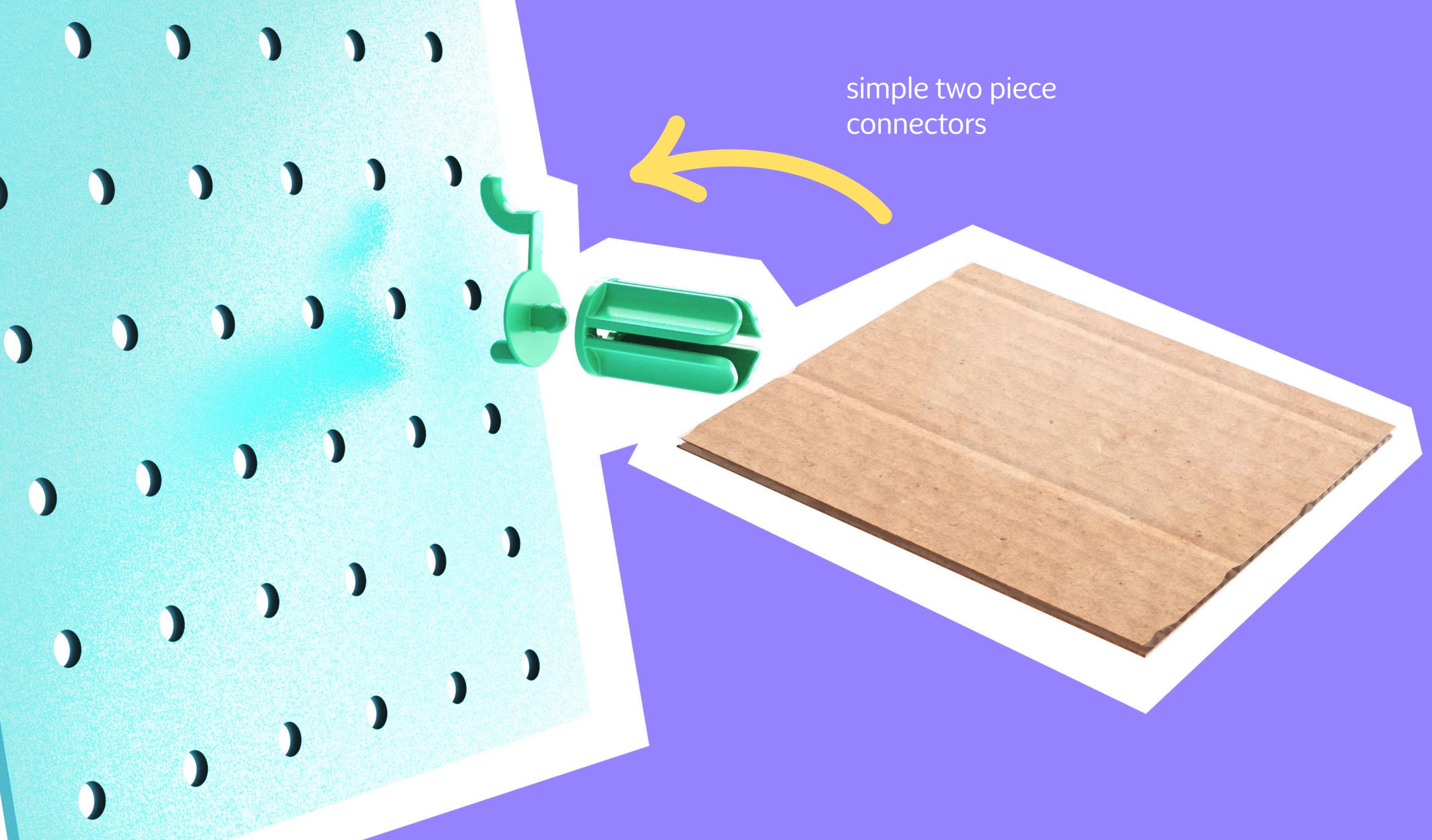
Trash Can

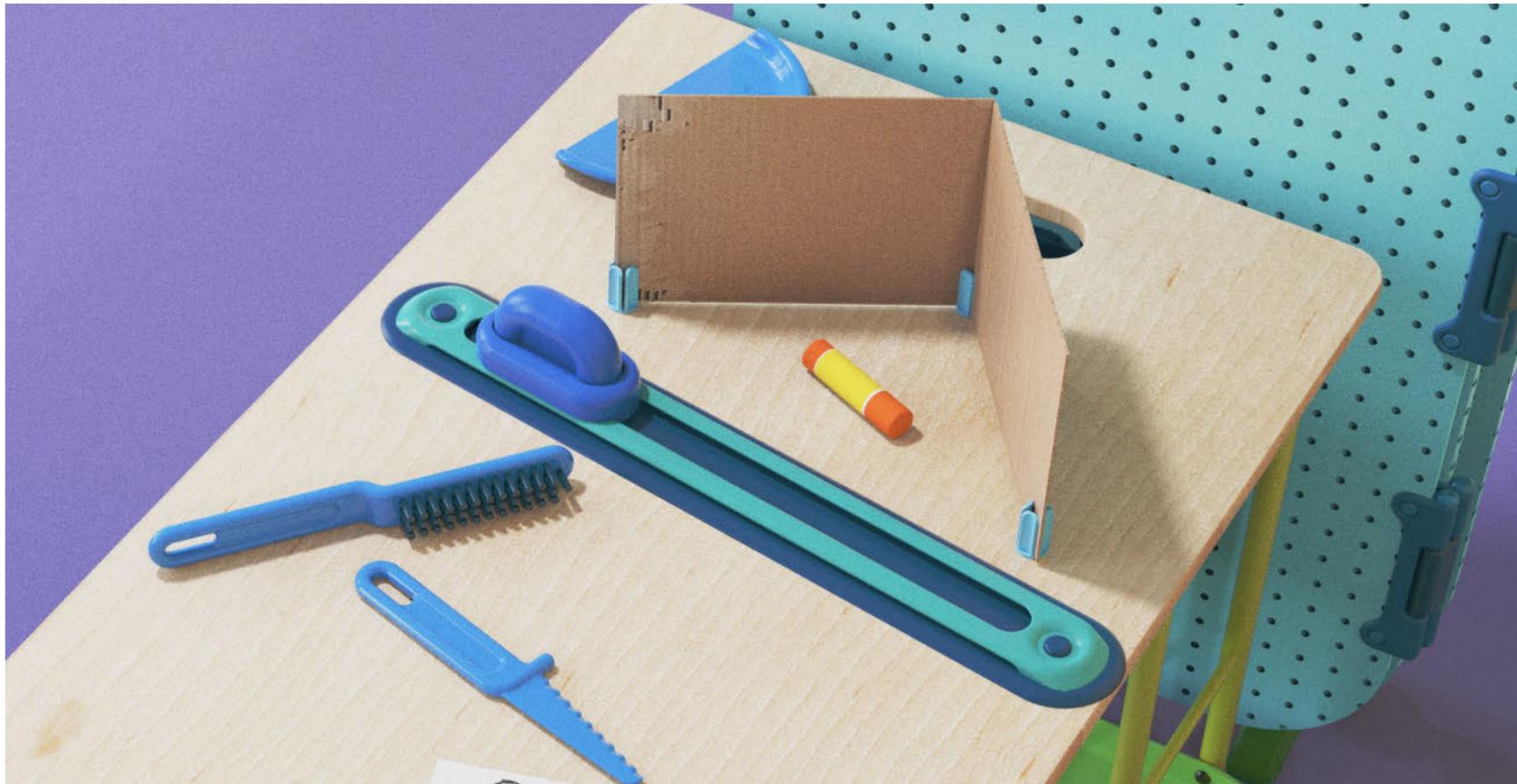
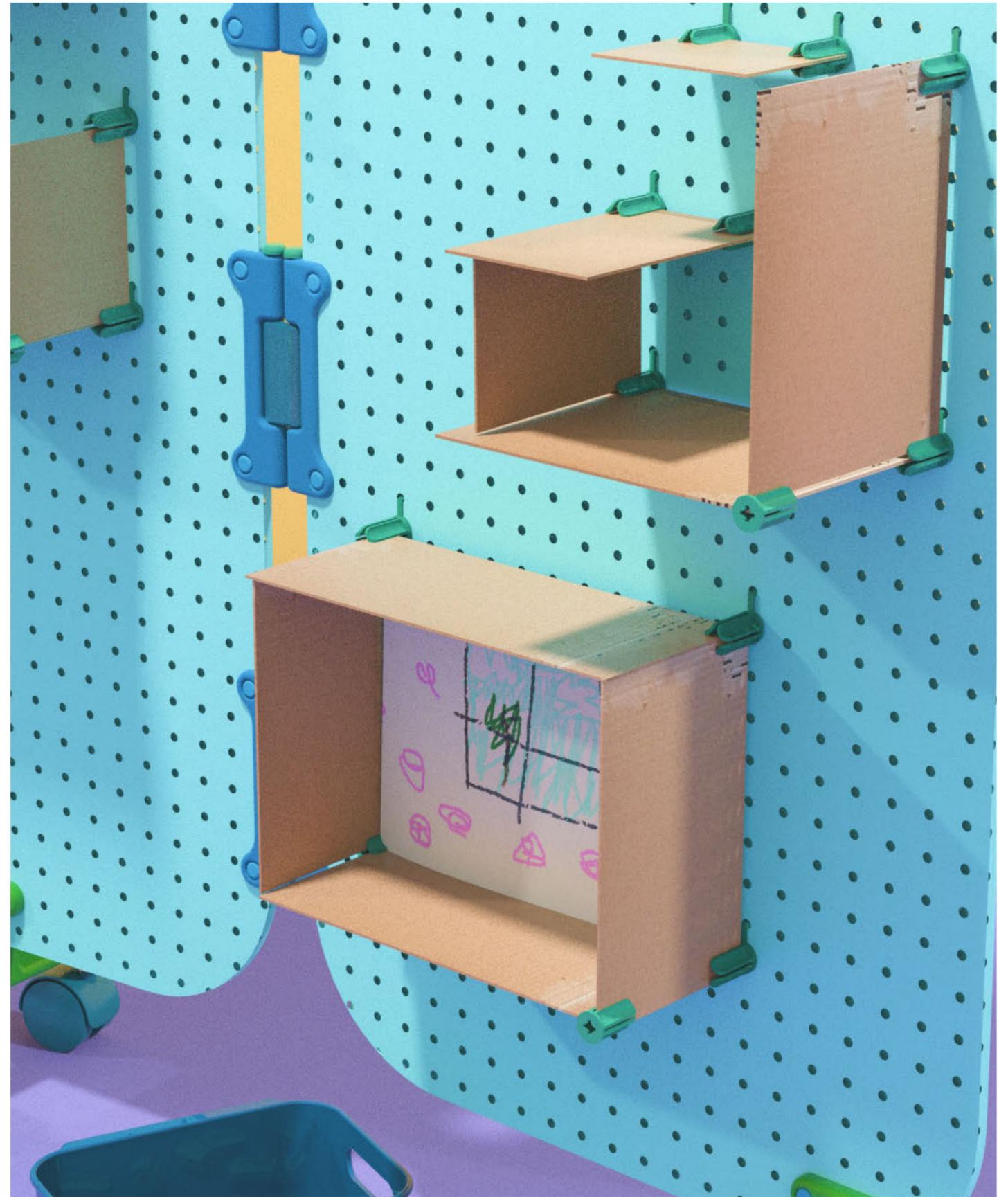
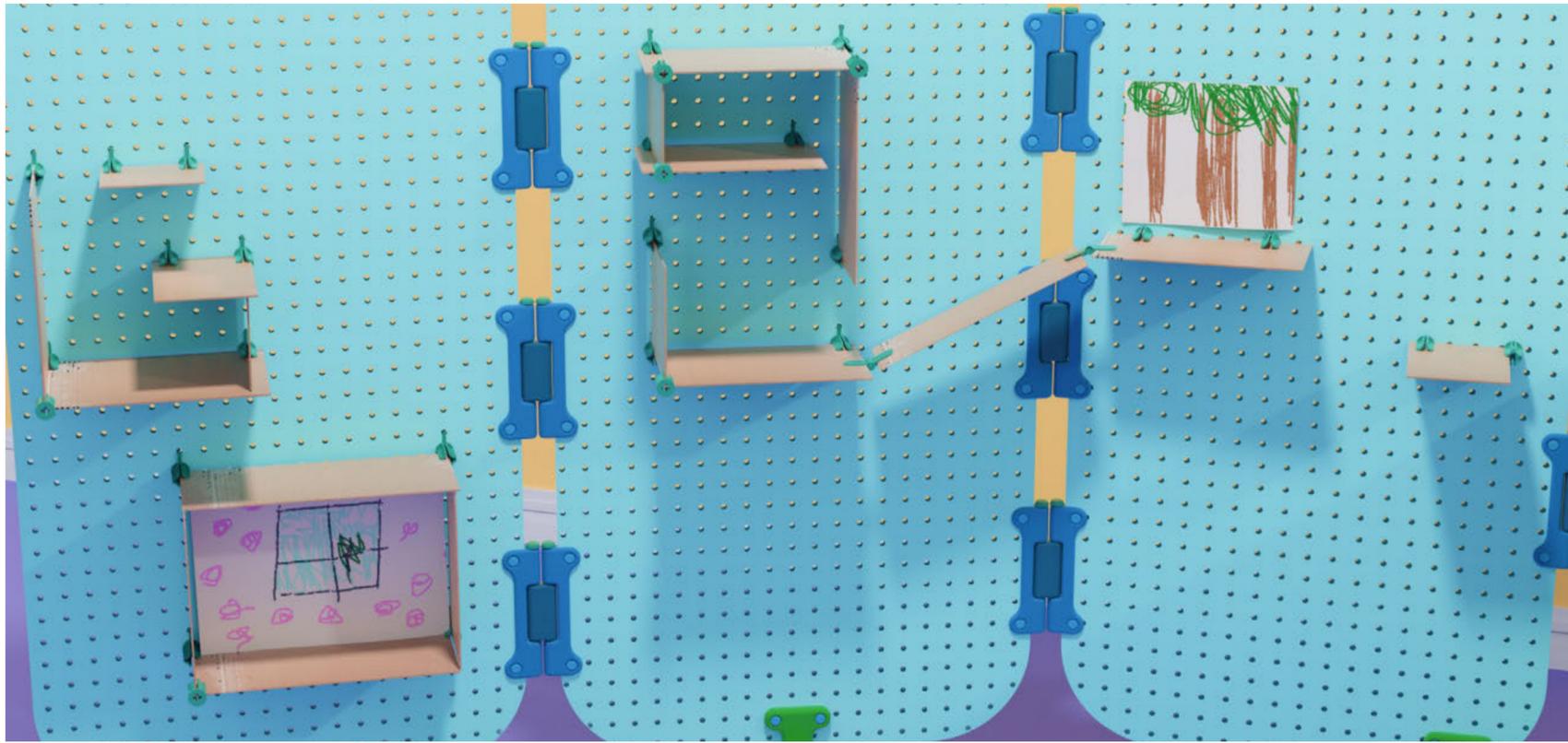


Plastic
Hard
Saw

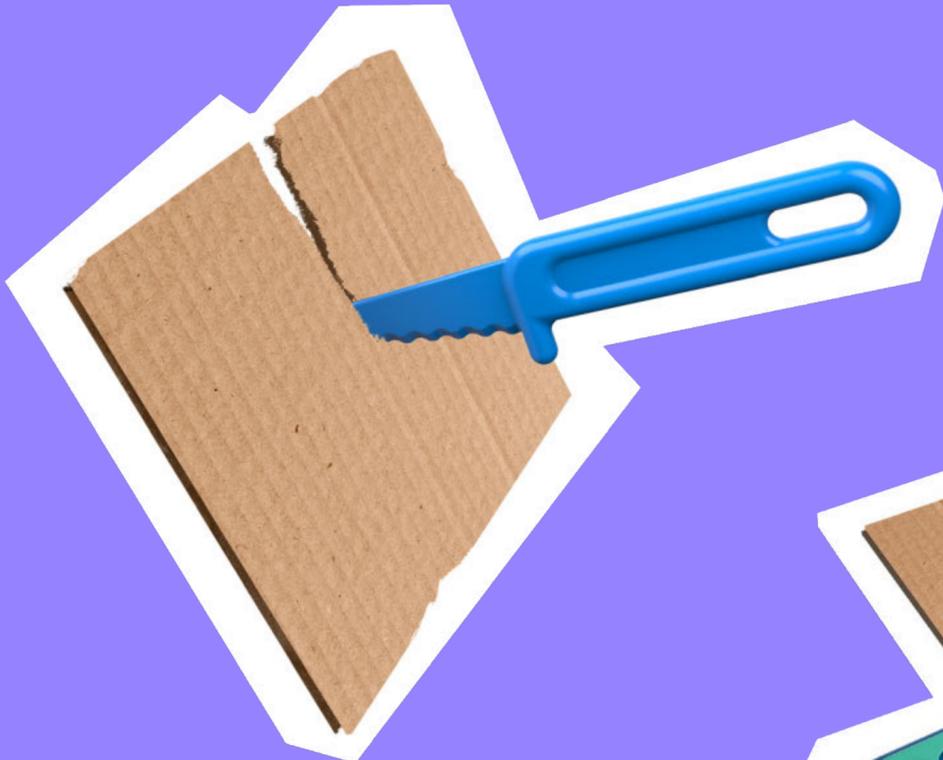


simple two piece
connectors

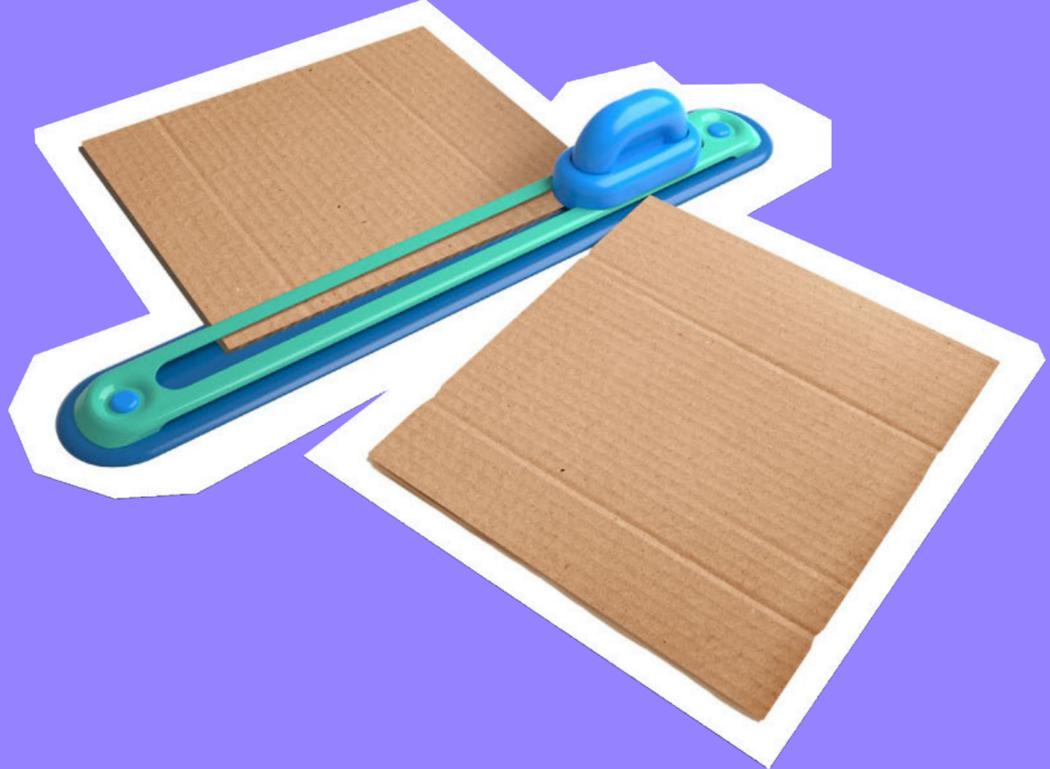




tools to craft safely
and cleanly.



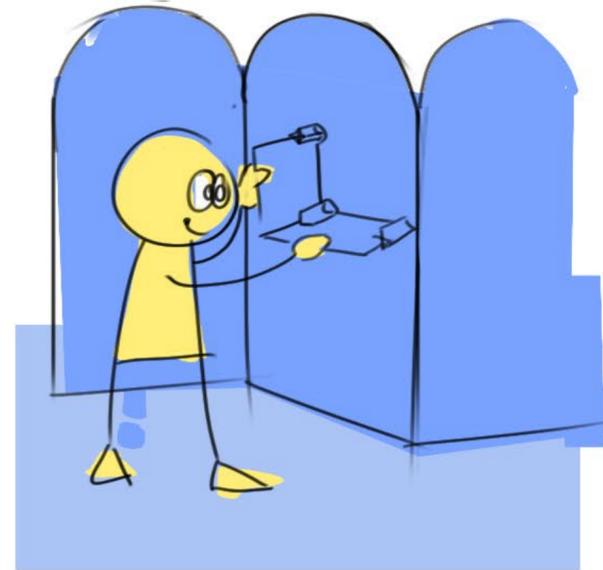
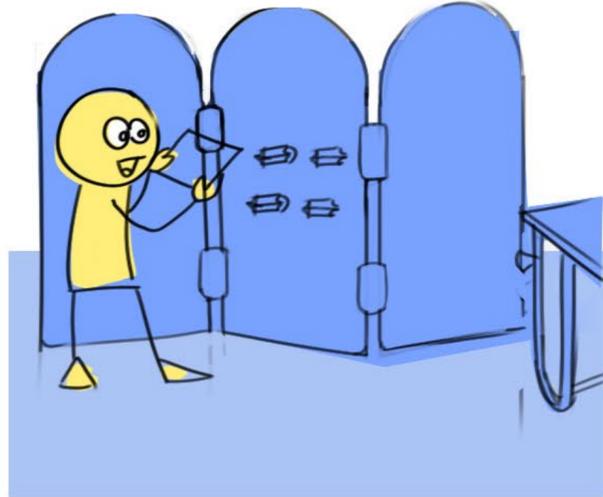
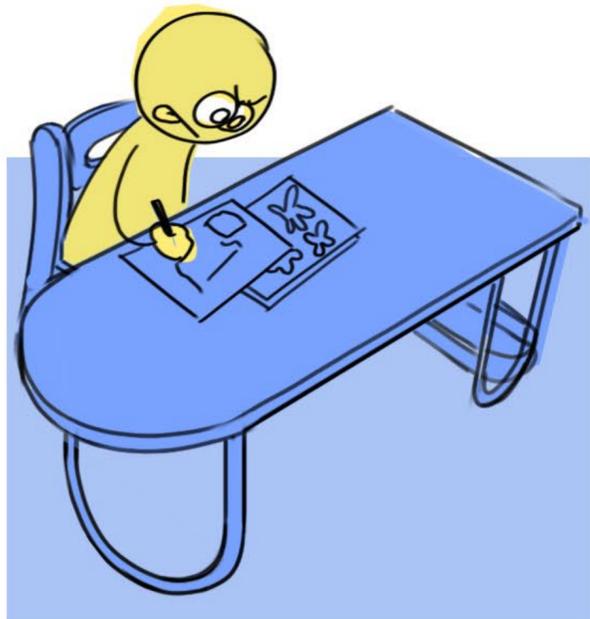
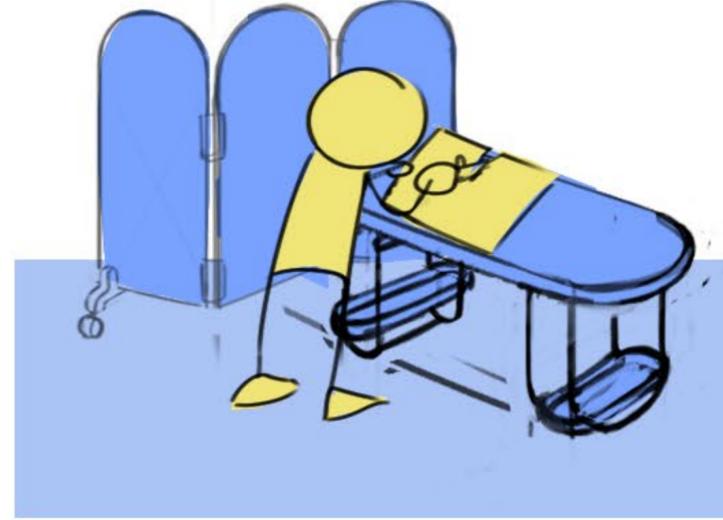
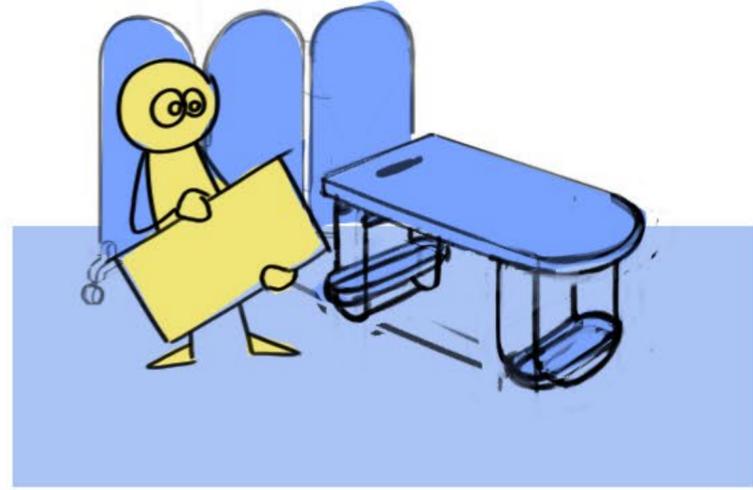
cut up big peices.



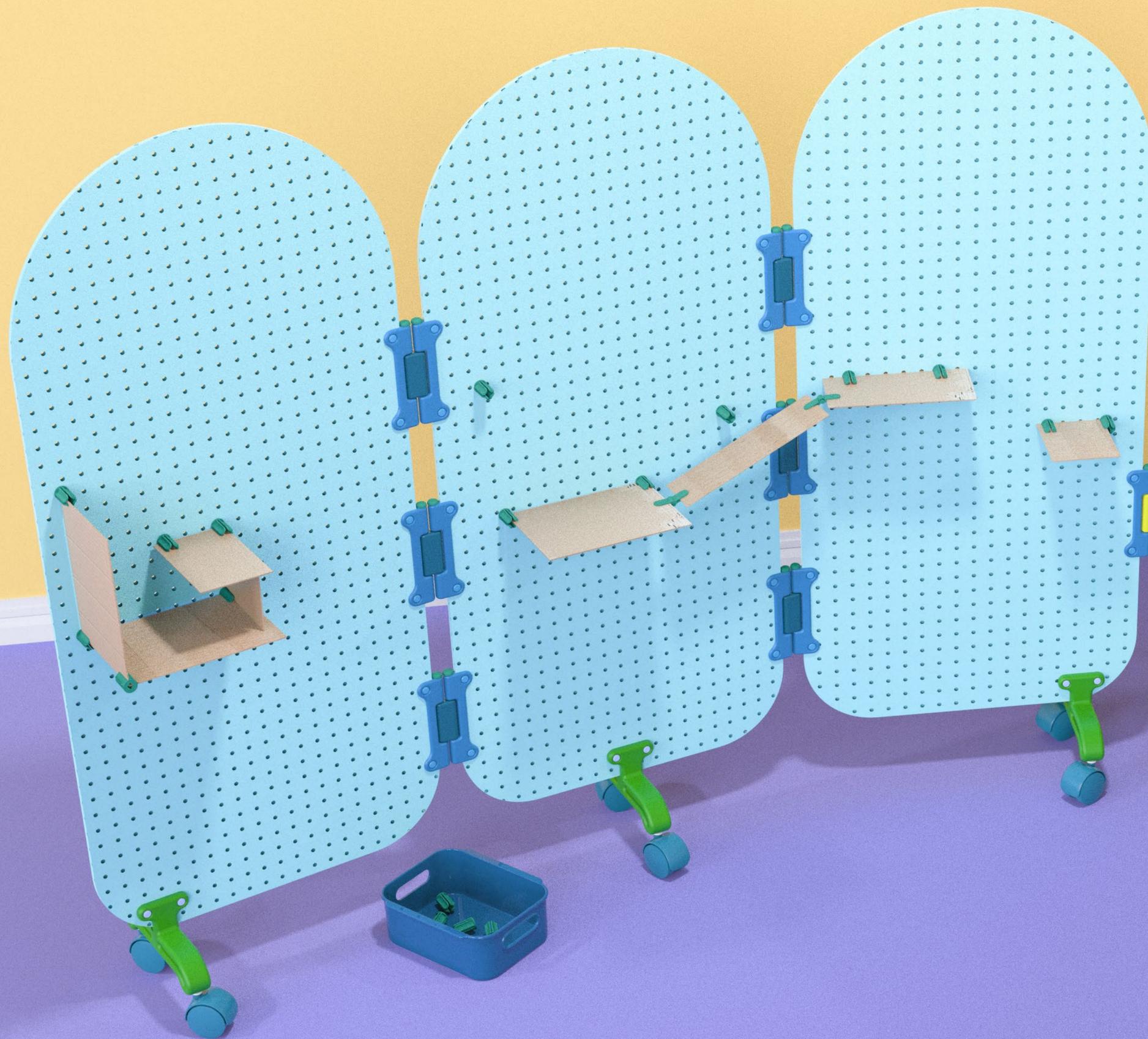
cut straight edges.



clean up.







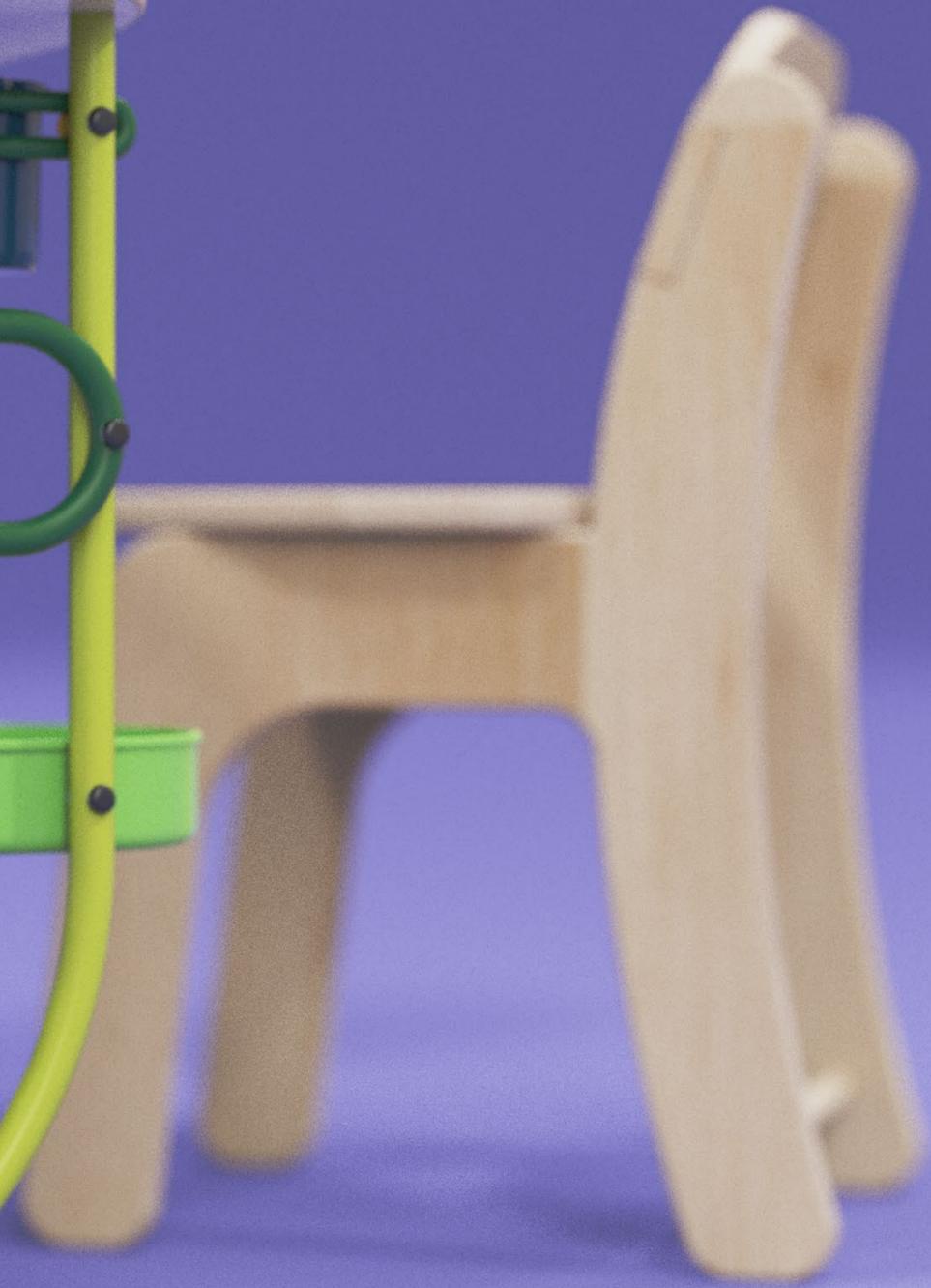
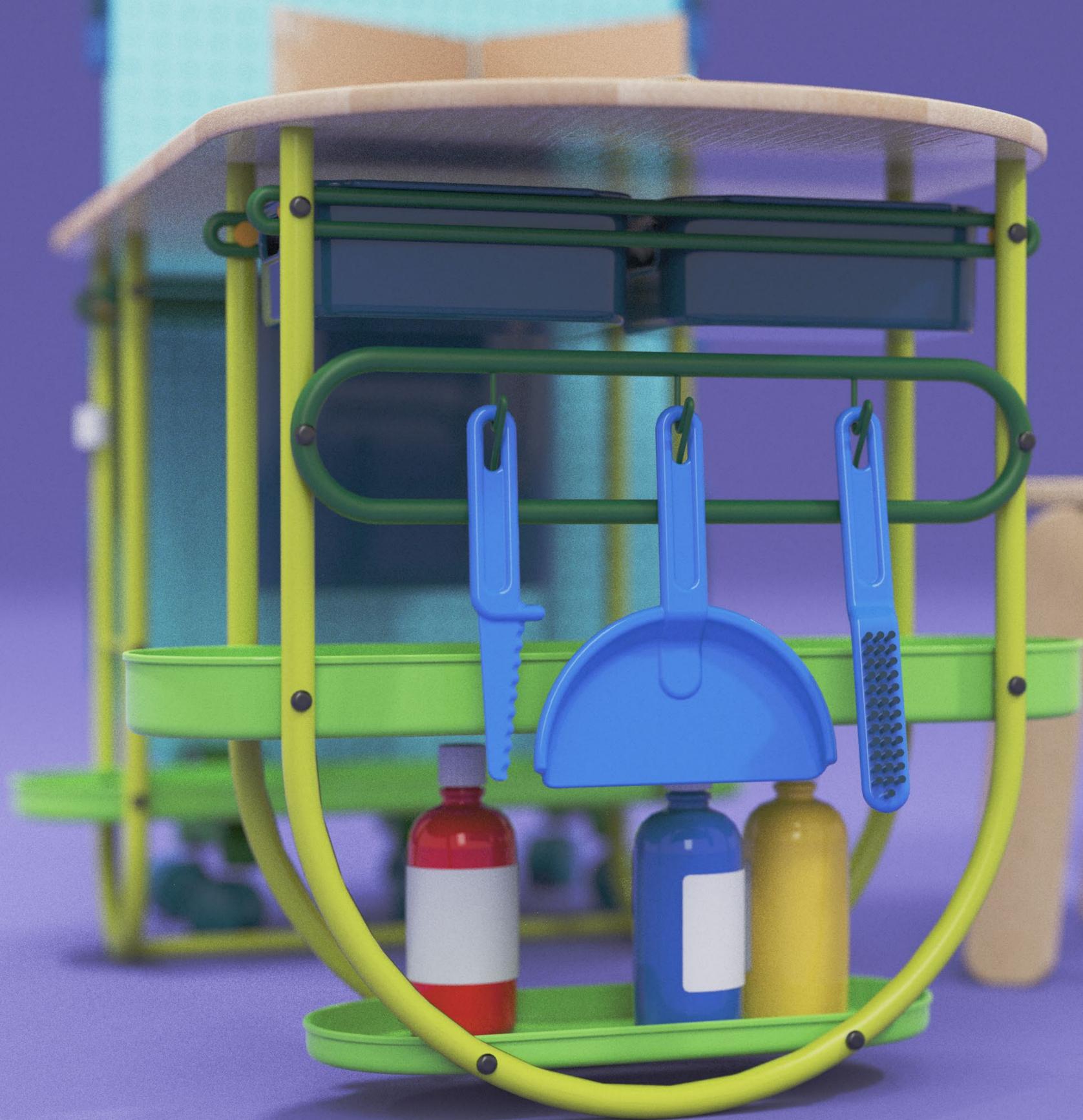


easy to fold up
when not in use

A child's activity table with a light-colored wooden top and a yellow frame. A large, perforated, light blue backboard is attached to the left side. A blue trash can is mounted on the left side of the frame. Two green storage bins are attached to the bottom of the frame, one on each side. The table is set up with a wooden chair, a cardboard house, a yellow marker, and two pieces of paper with drawings. The background is a solid purple color.

removable
trash can

portable
storage bins







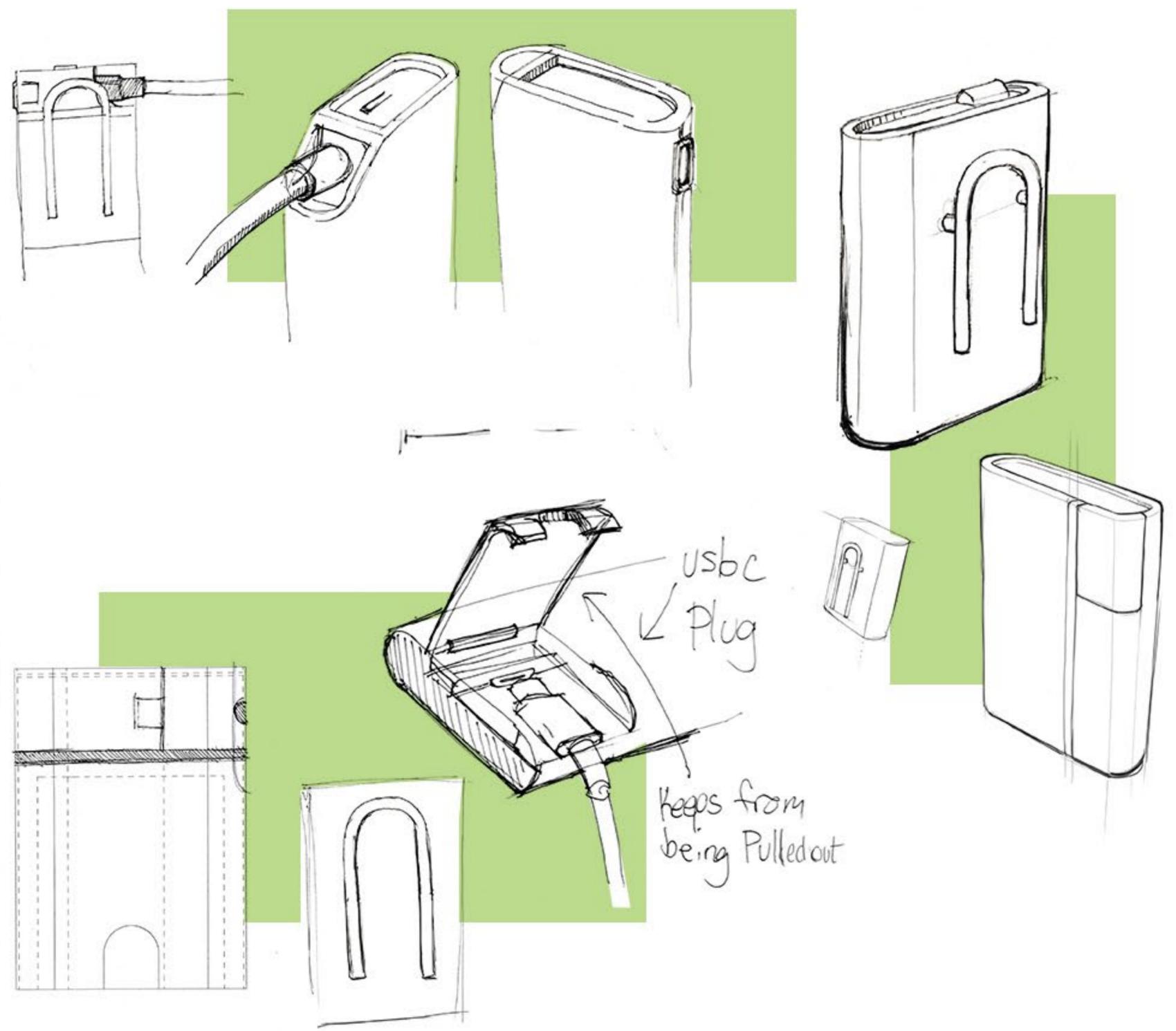
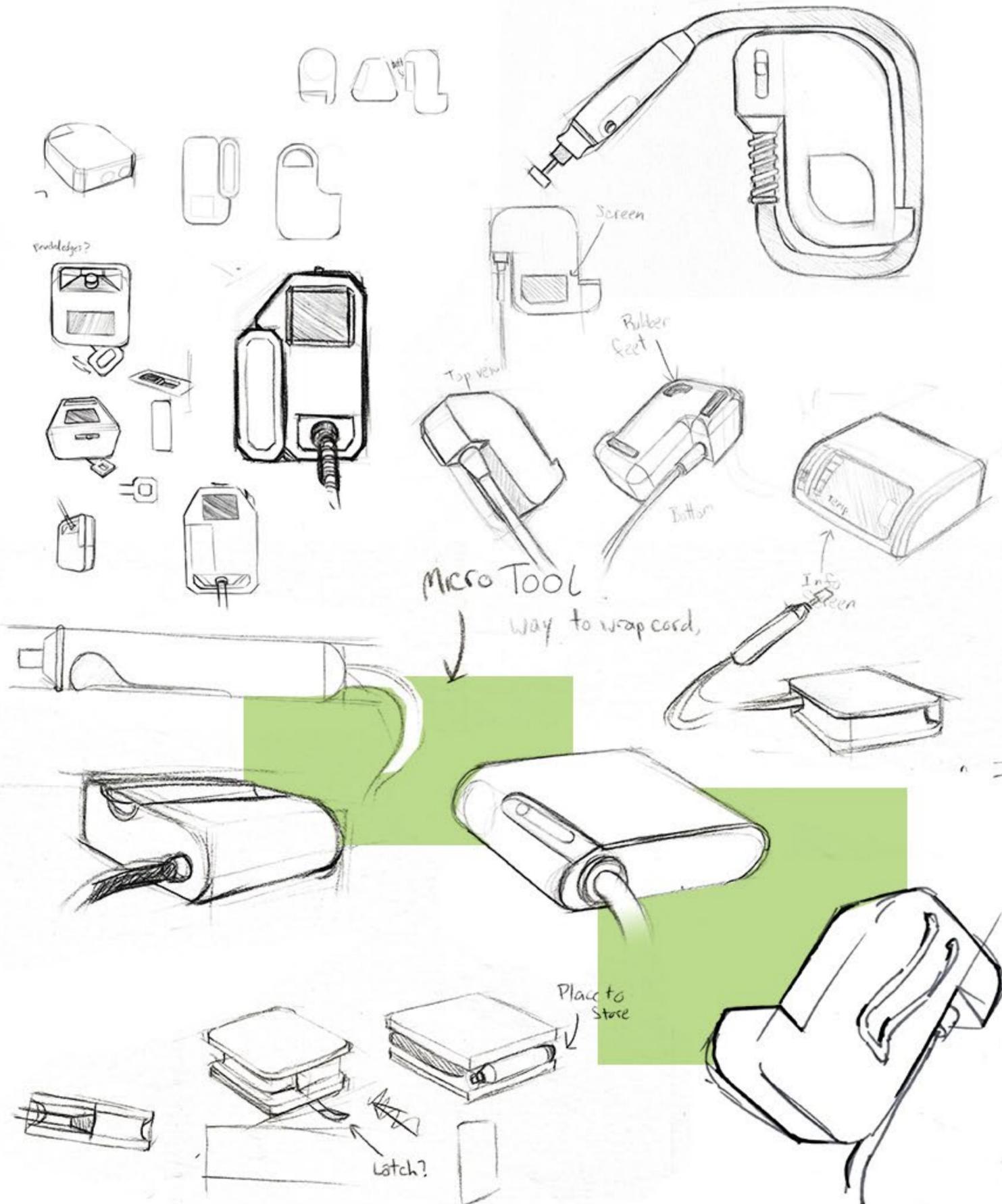
PICUG
Rotary tool

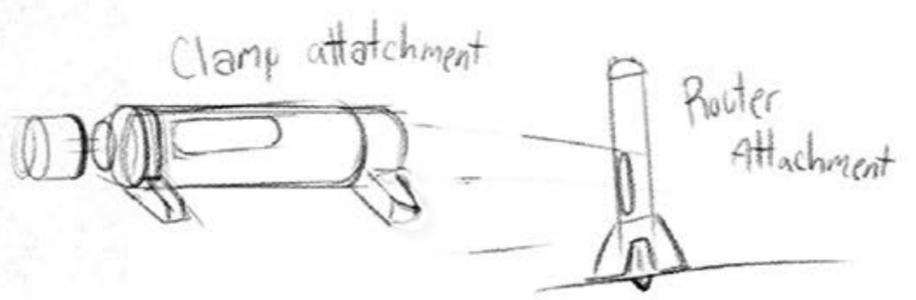
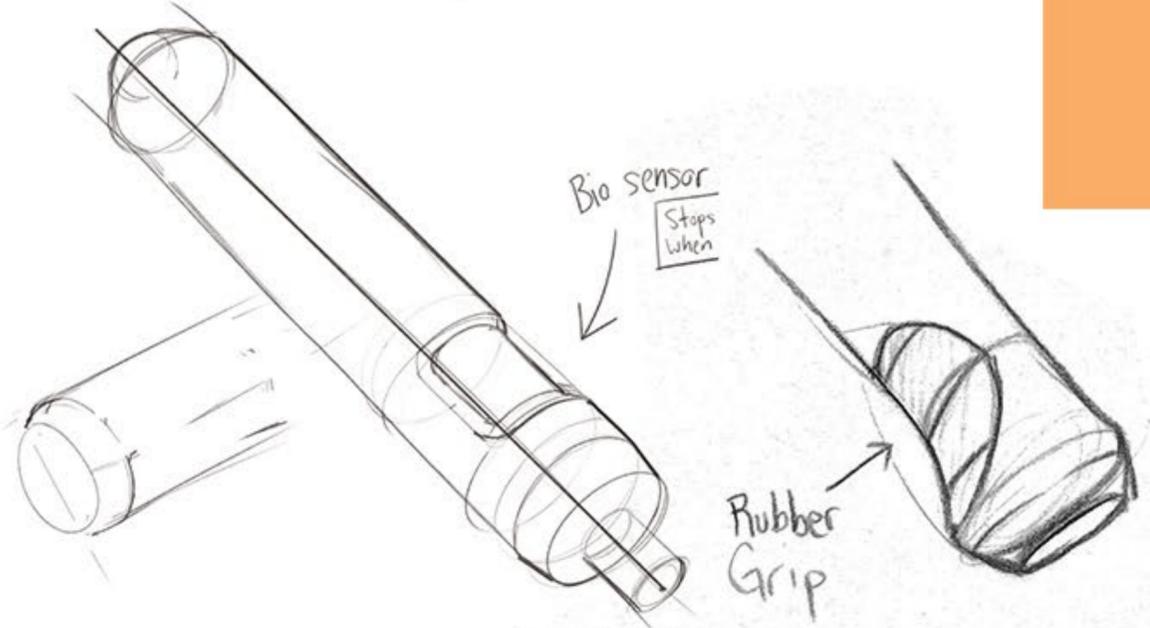
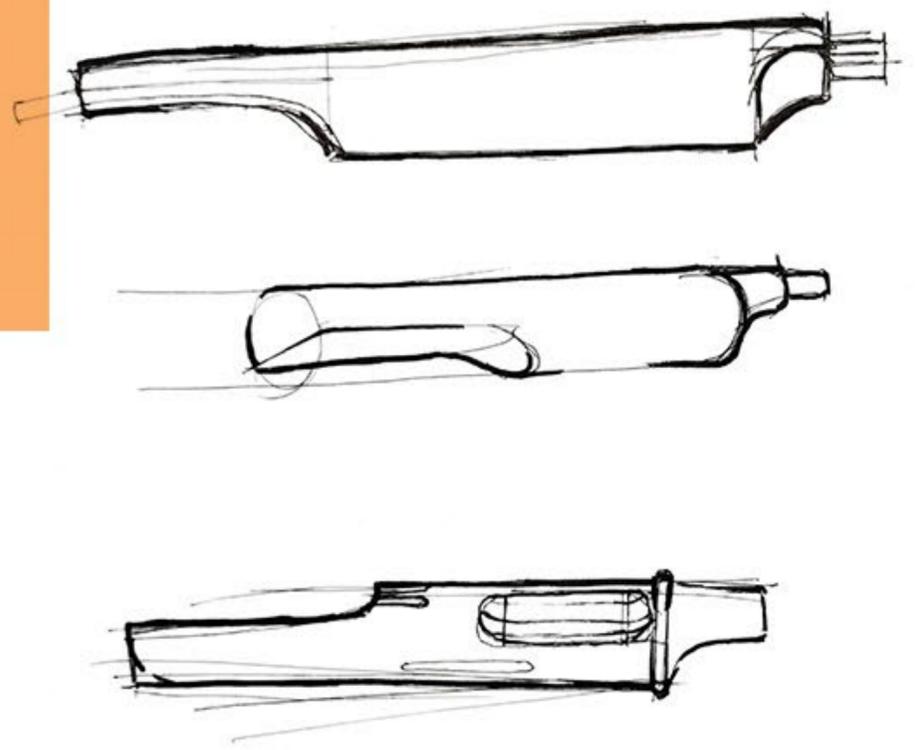
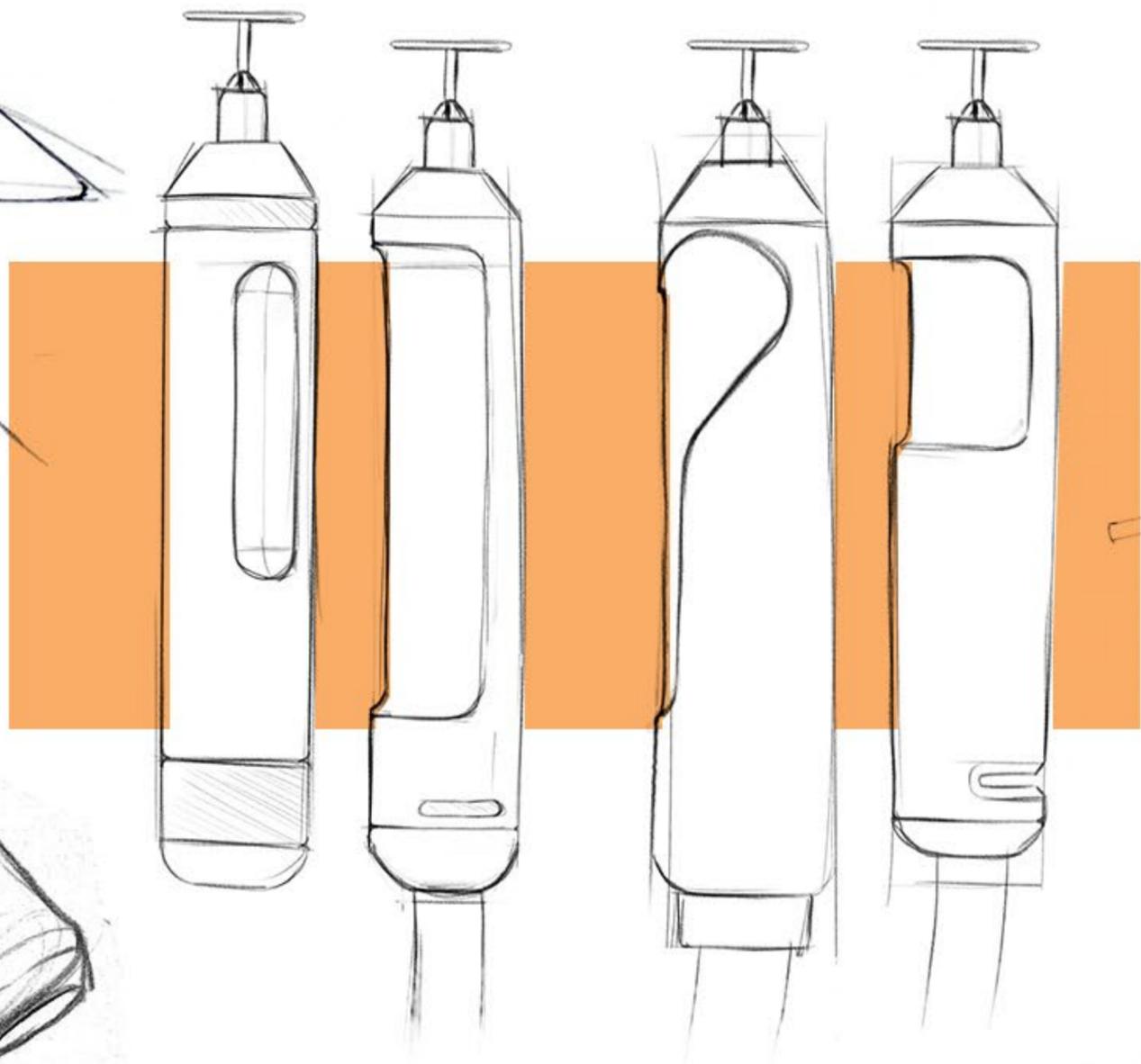
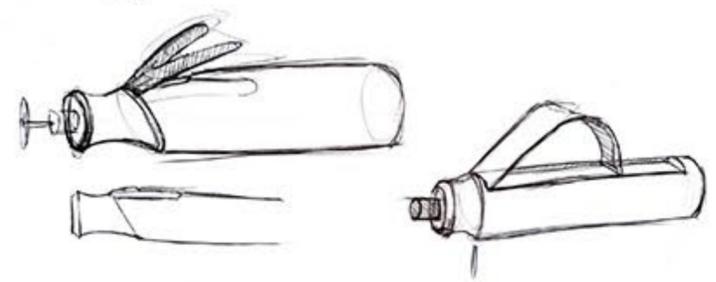
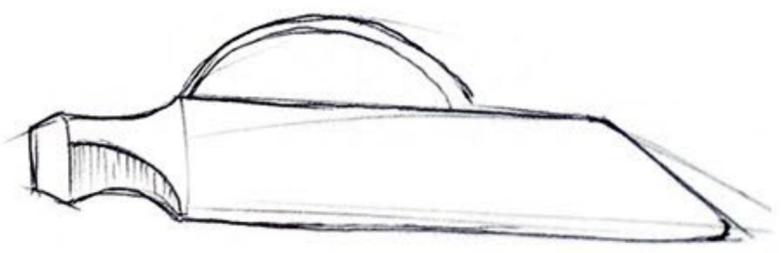
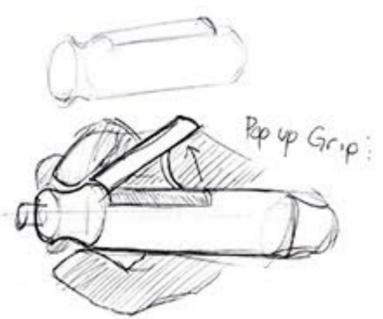
Picus Is a rotary tool designed for beginner makers and artisans who want to become more familiar with power tools



Project Focuses:

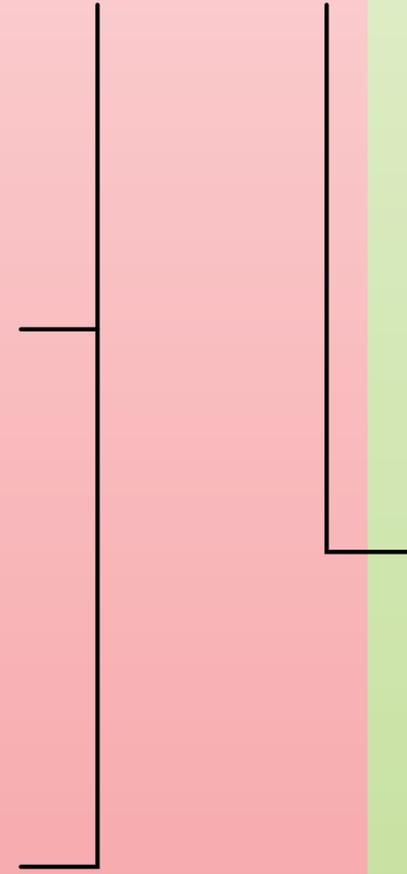
Portability
Ergonomics
Flexibility

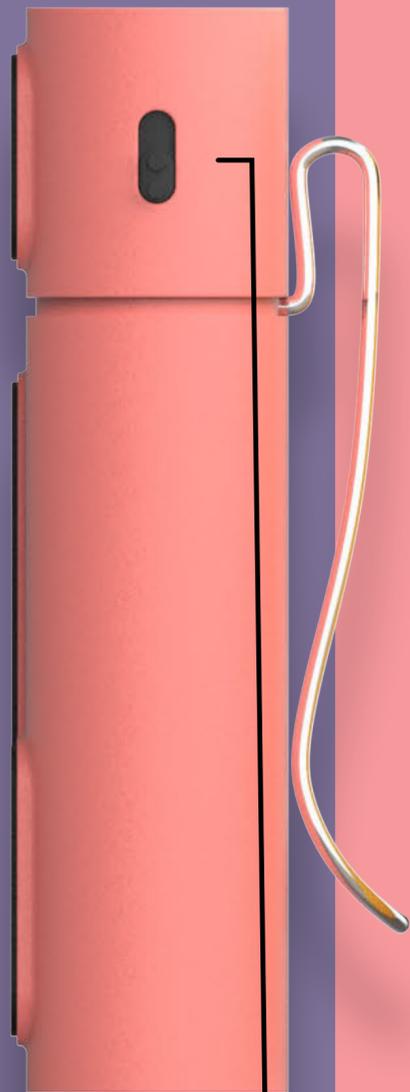




ABS plastic

rubberized coating

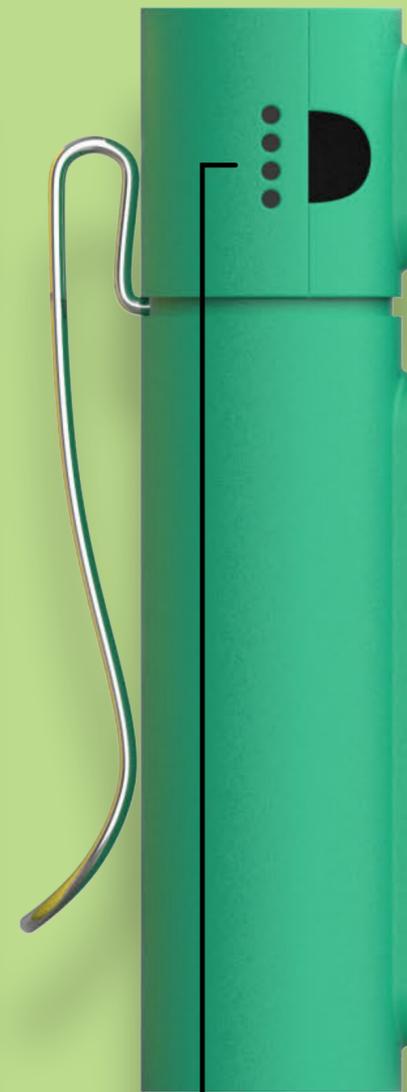




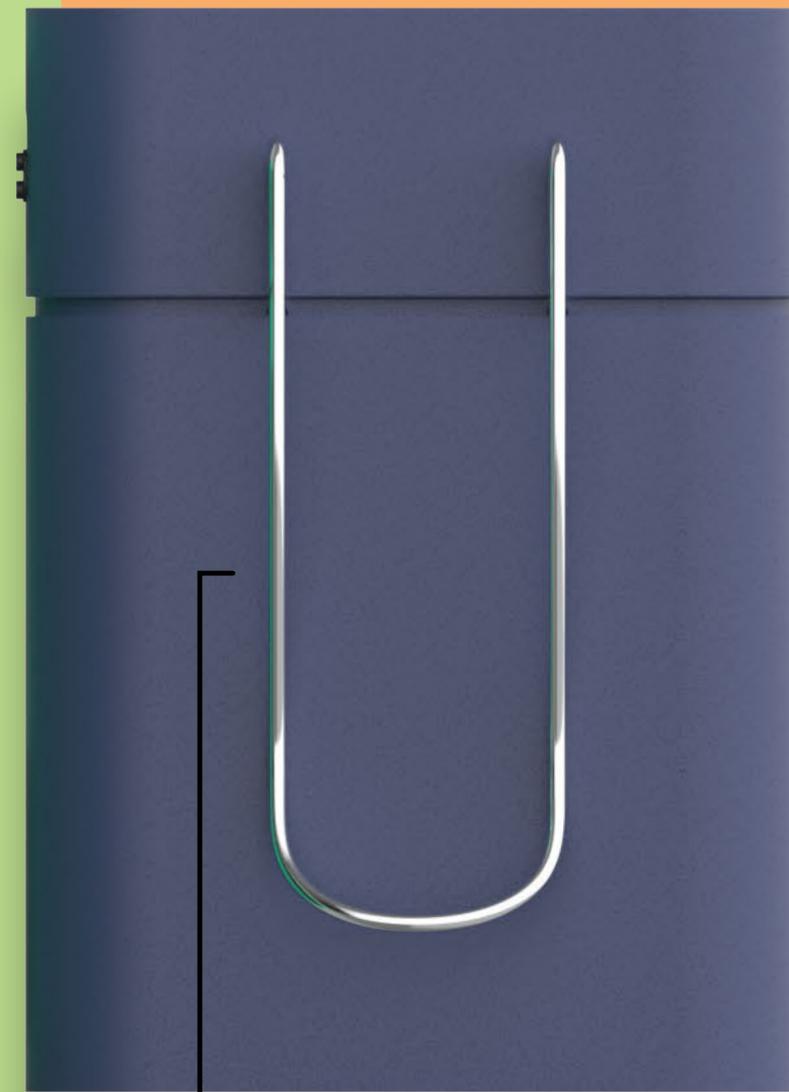
safety lock



rubber grips



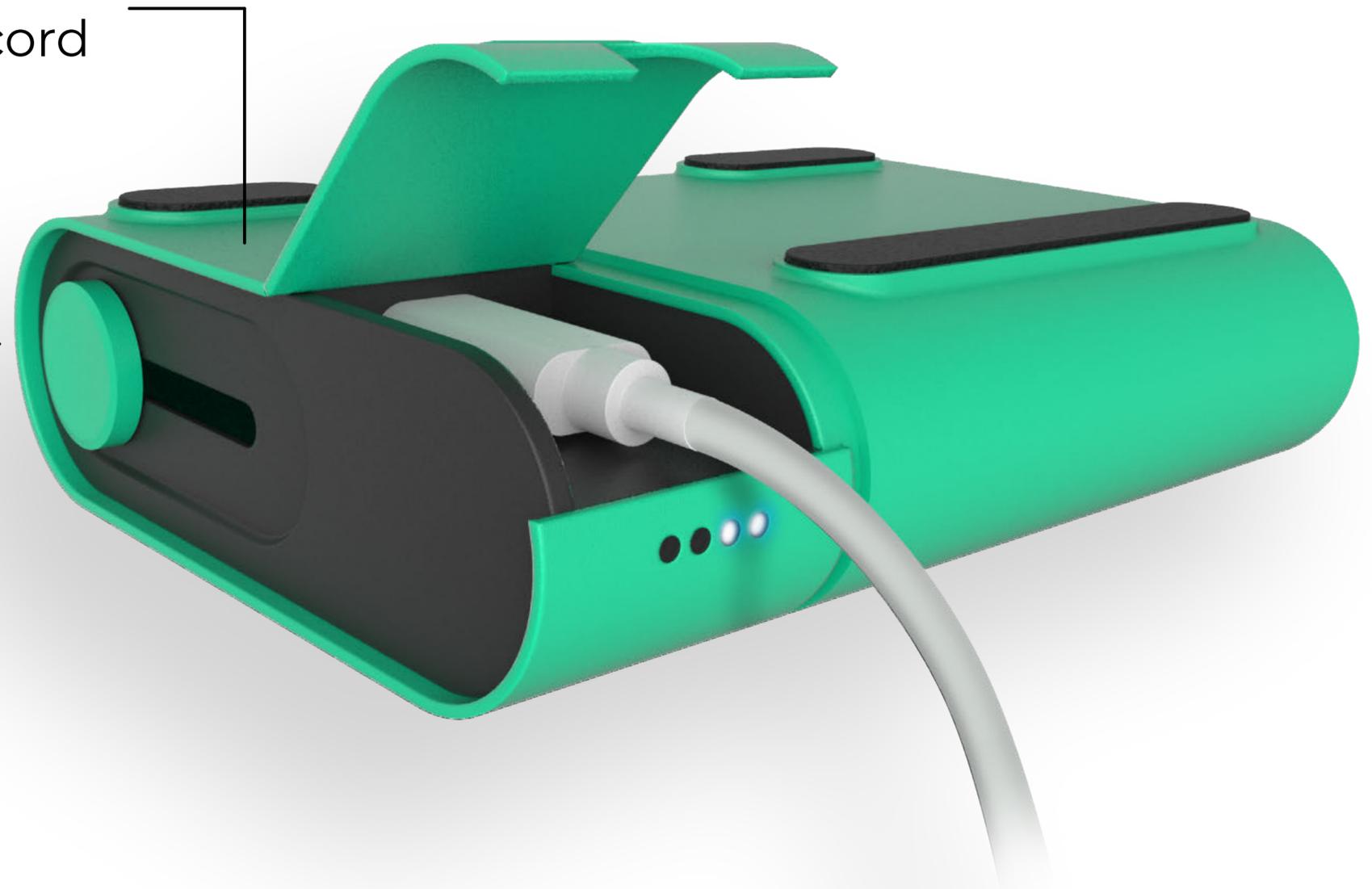
battery indicator



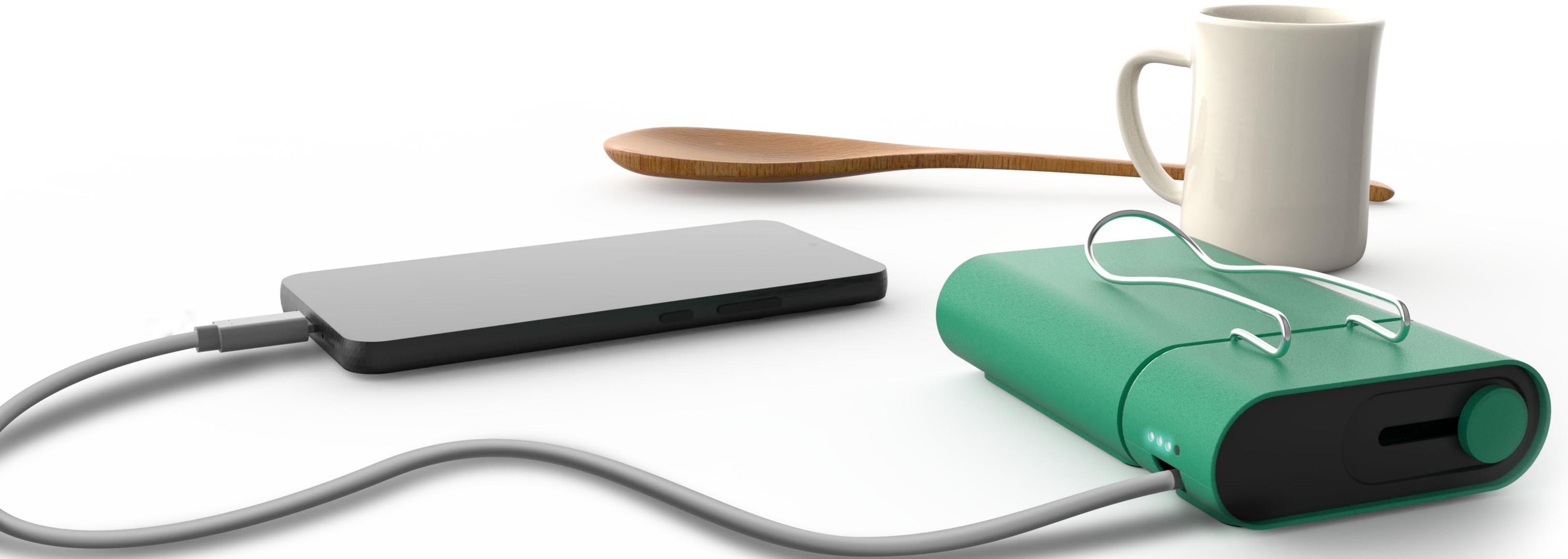
stainless steel clip

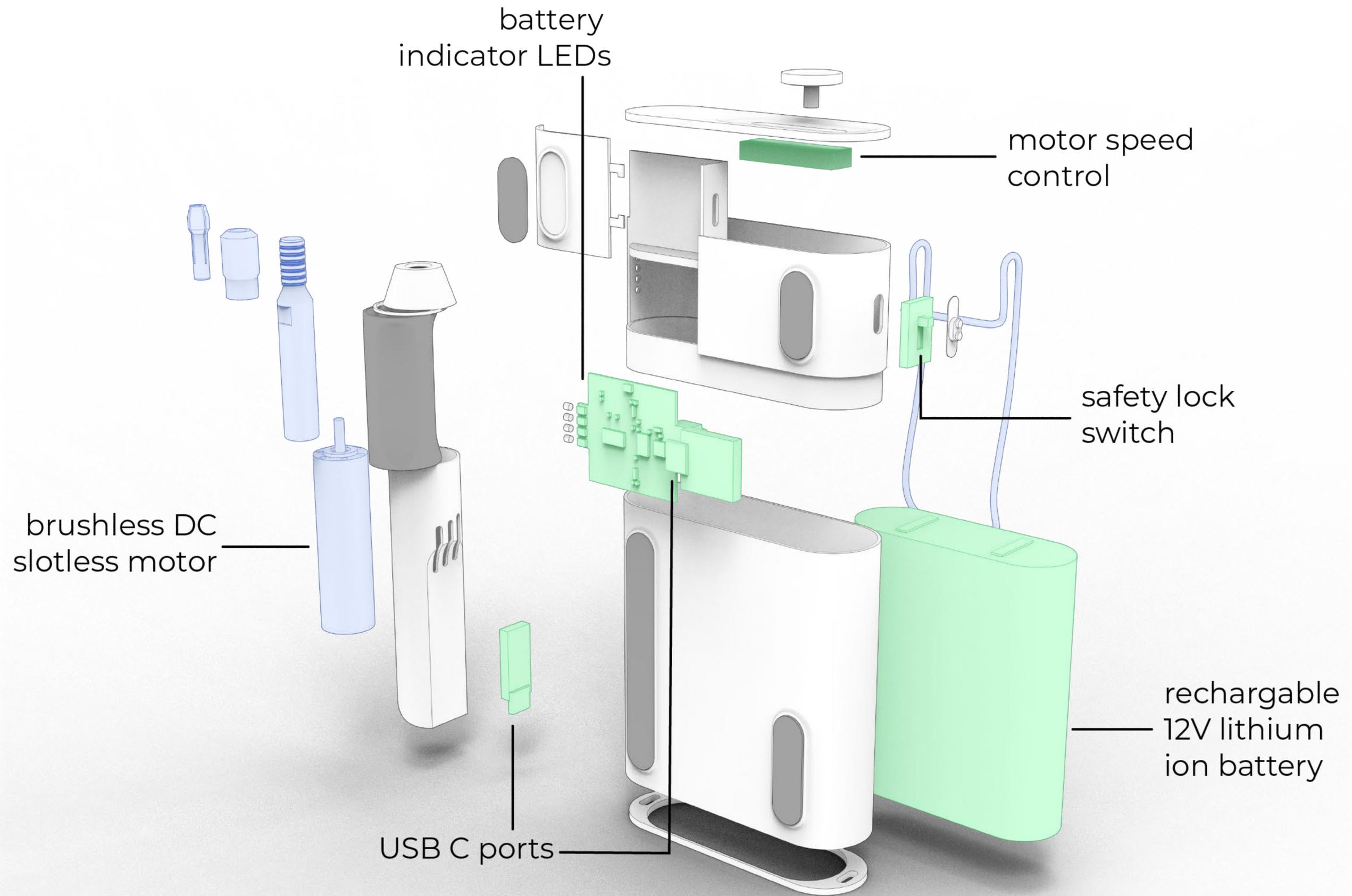
hinge to prevent excessive
bending of cord

motor speed control



Usable as a battery pack for casual use.









*A traveling little library
for your community*



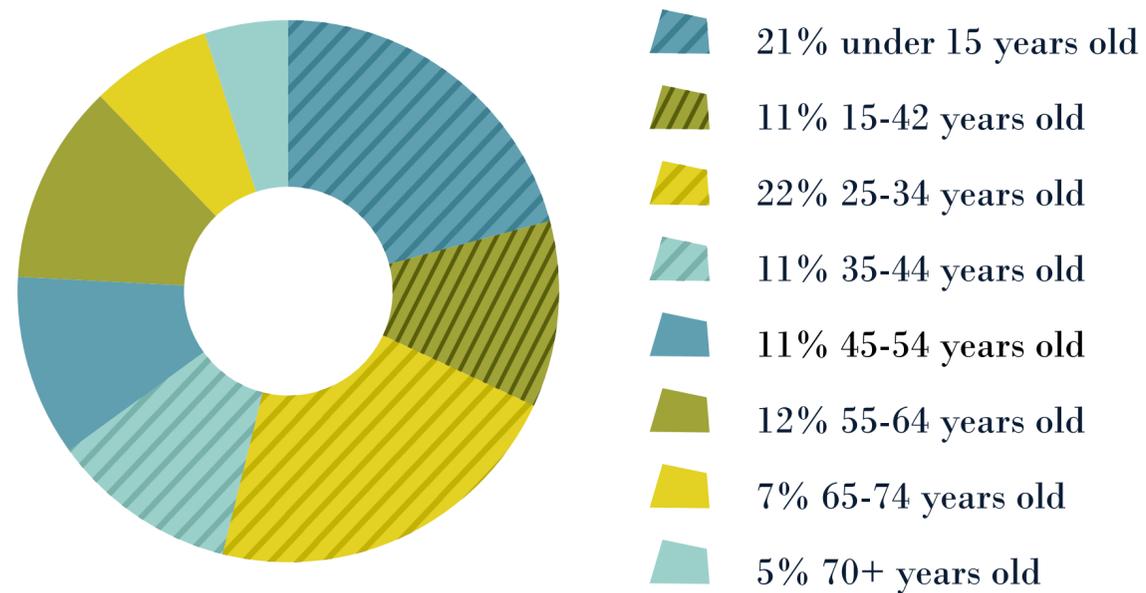
Challenge:

To create a last mile delivery system based around the area of Corktown Michigan



Why Books?

Corktown Population



33% of people living in corktown are 25-44 years old

Millenials statistically read more than any other age group.

80% read books in any format.

72% have read at least one physical print over the course of a year.

Nearest Libraries to Corktown



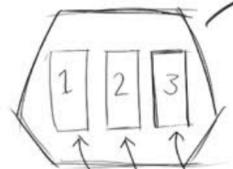
21% under 15 years old.

Children with access to books are statistically more proficient readers, writers and critical thinkers.

- Bowen Detroit Public Library
- Douglass branch for Specialized Services

Ideation

selection rotates.



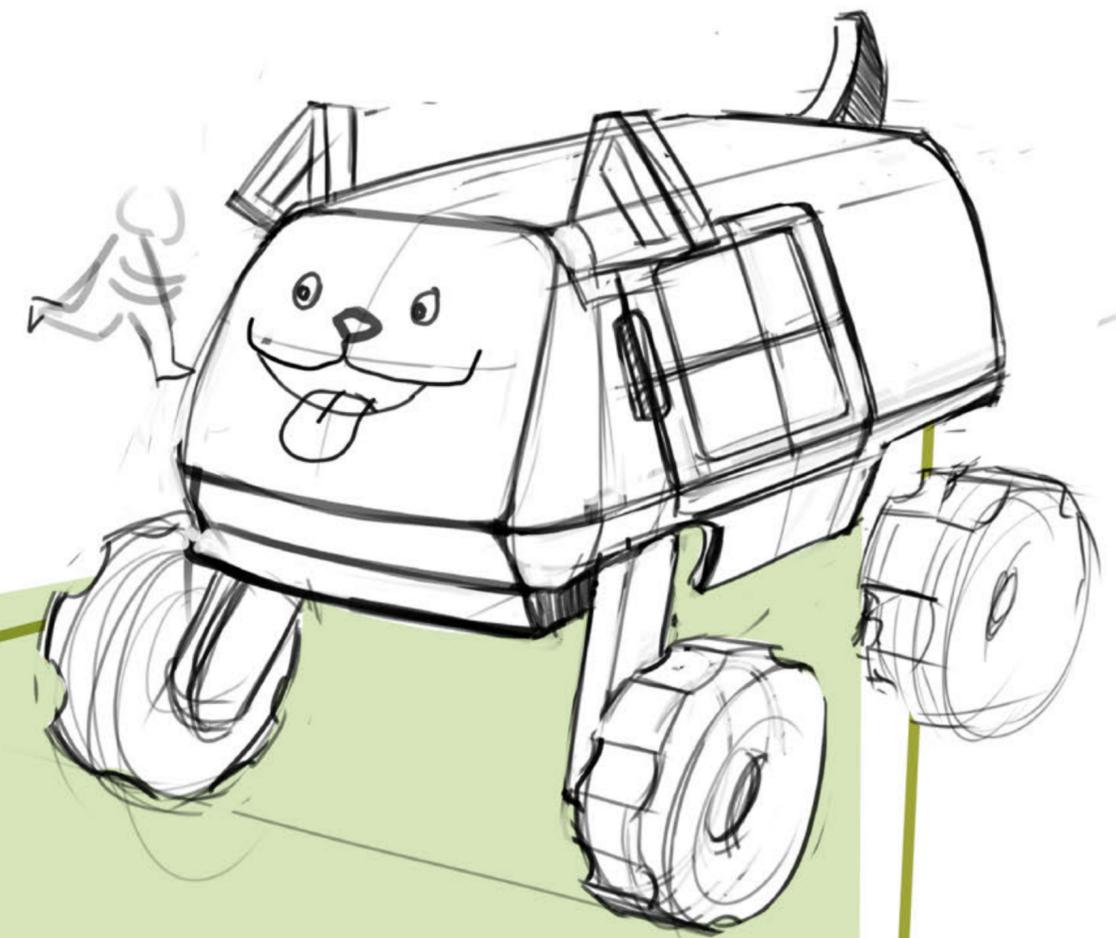
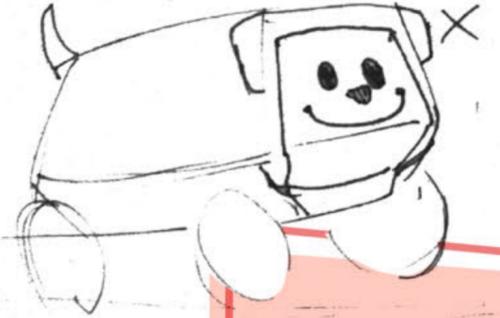
Different kinds of Books?
reading level?
Genre?



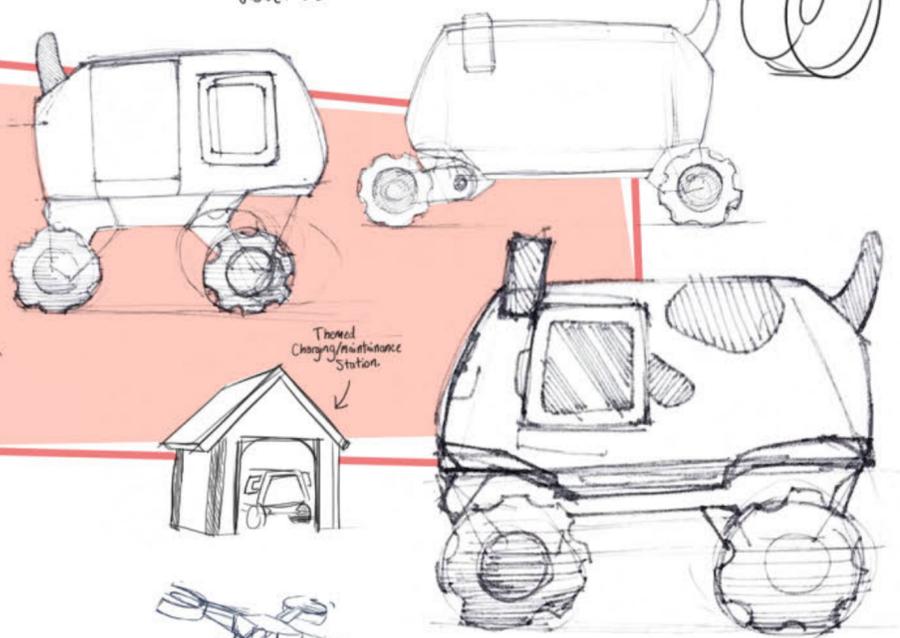
visual UI



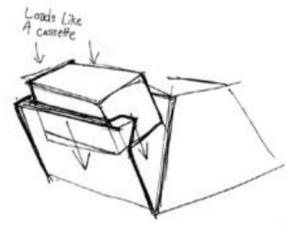
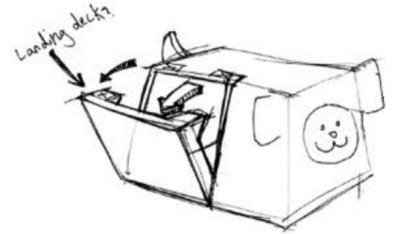
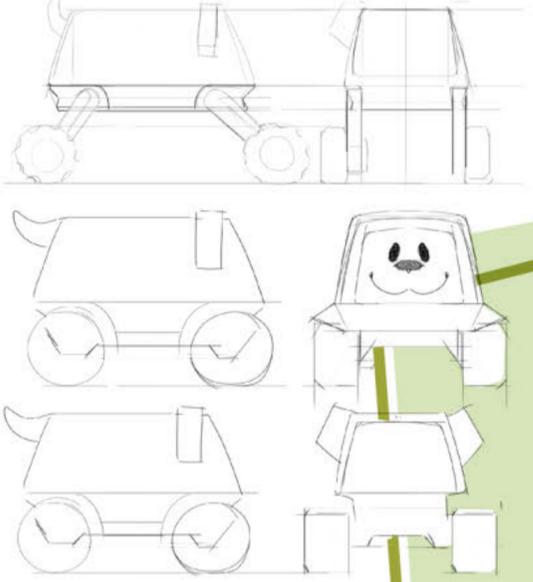
Reward for
Reading/Returning
Books?
(What could it be?)



Grinning :)



Themed
Charging/maintenance
Station.

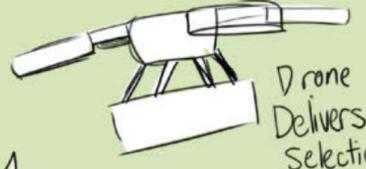
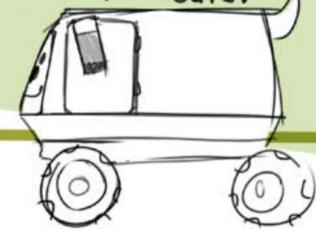


Kid signs in?
Library card? interface? App?



keeps track of
Amount read?

Handle
'ears'?



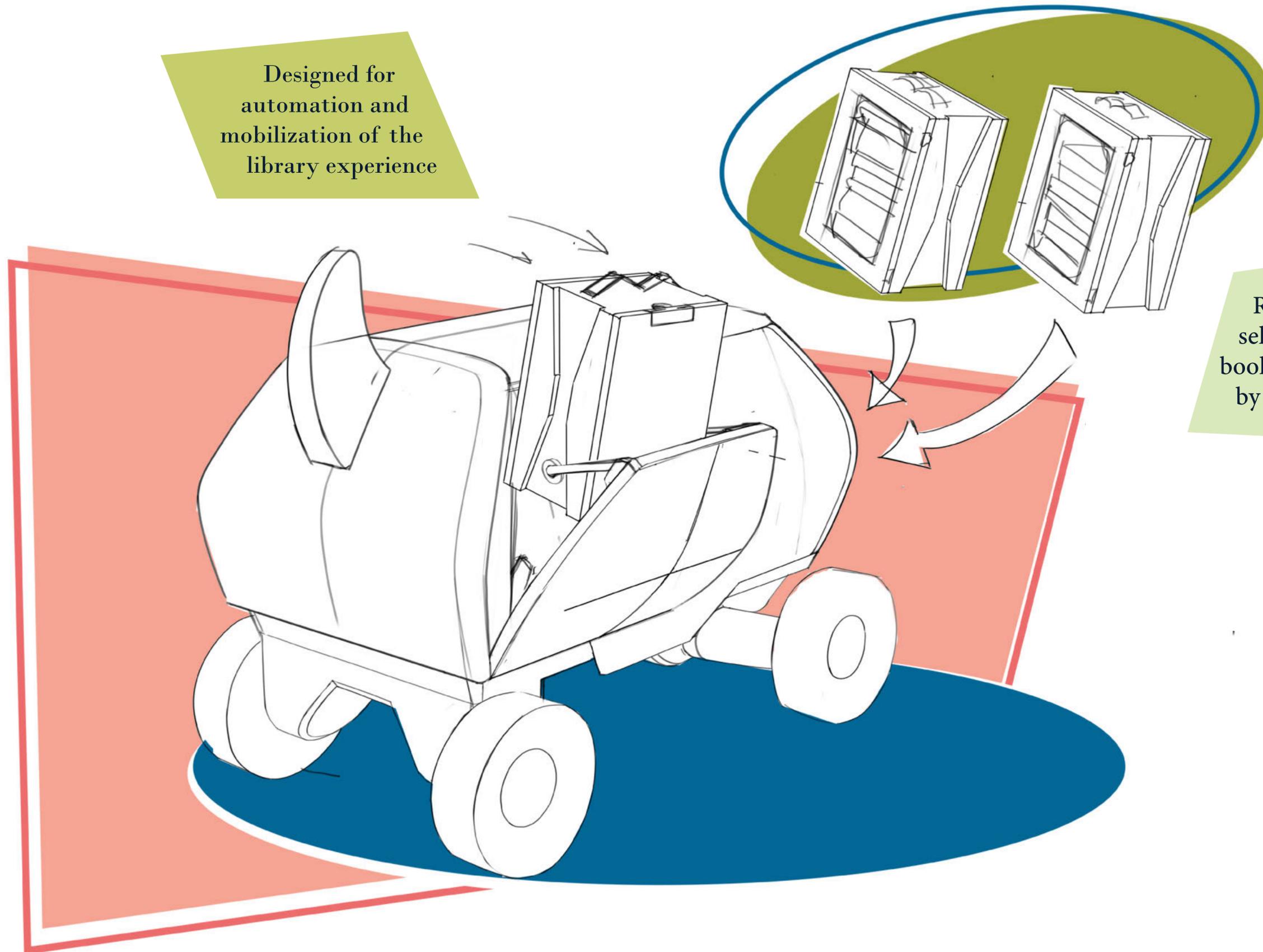
Drone
Delivers new
Selection



Designed for automation and mobilization of the library experience

Modular package keeps books safe and dry during transport

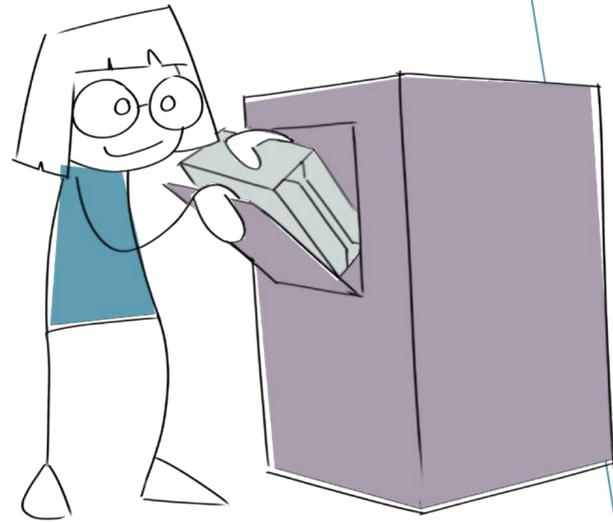
Rotating selection of books grouped by difficulty



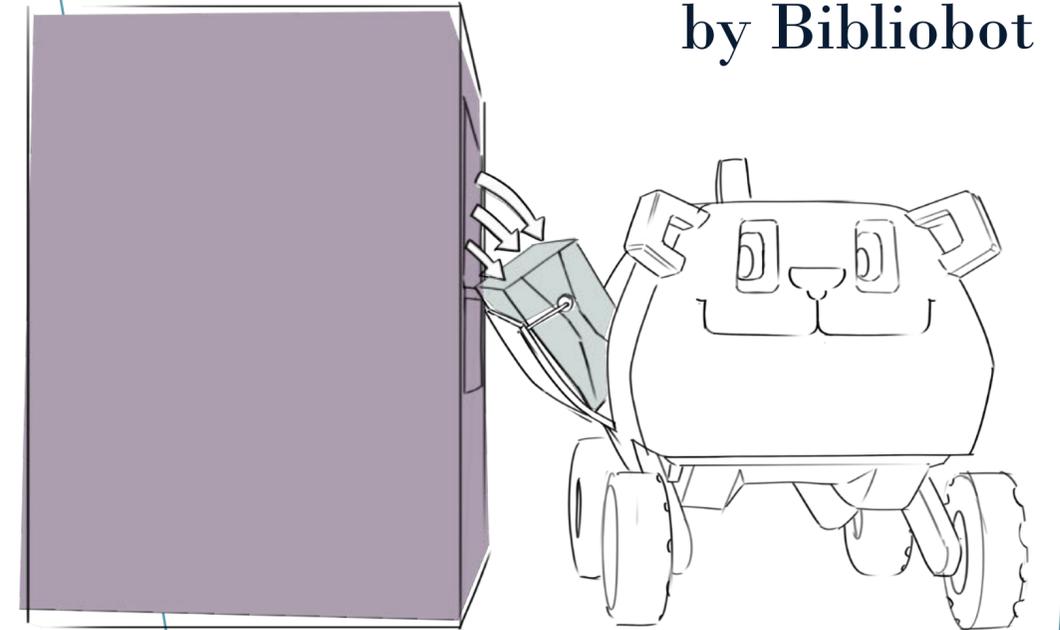
**Book selection
picked by
librarian**



**Selection packaged and
put into pickup box**



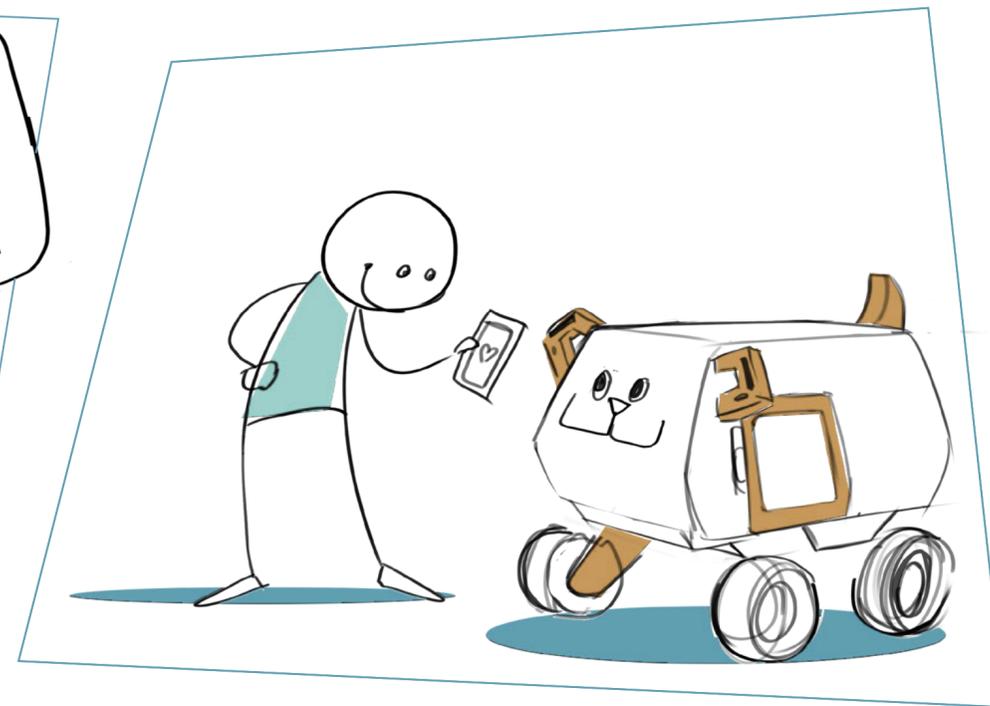
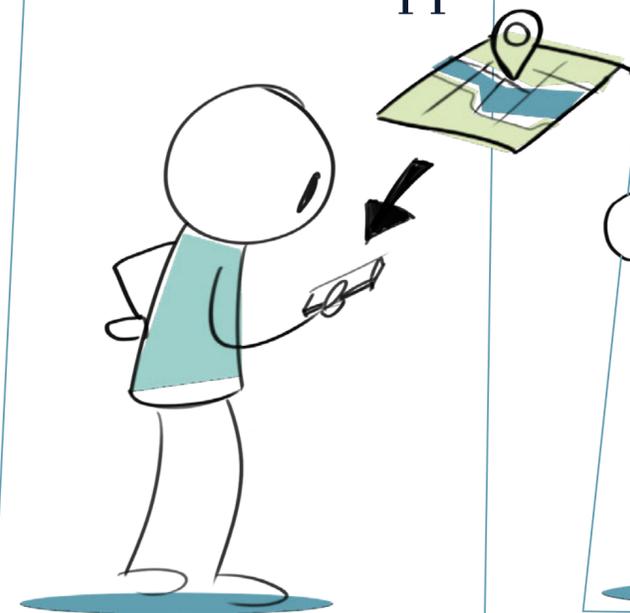
**Selection picked up
by Bibliobot**

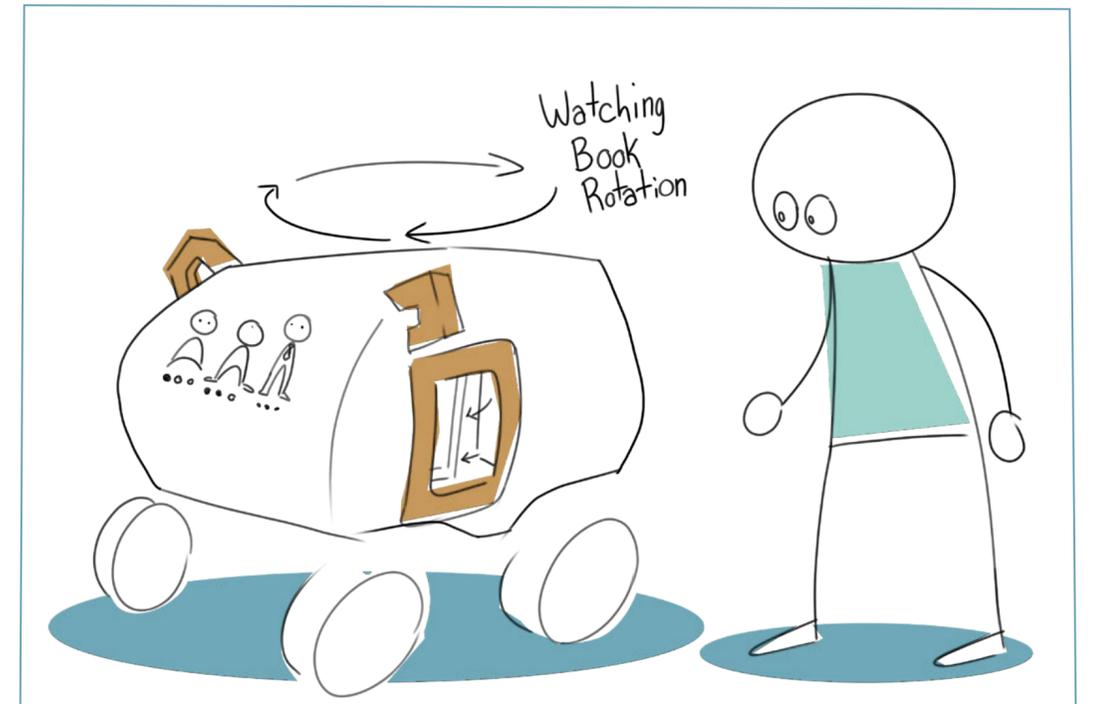
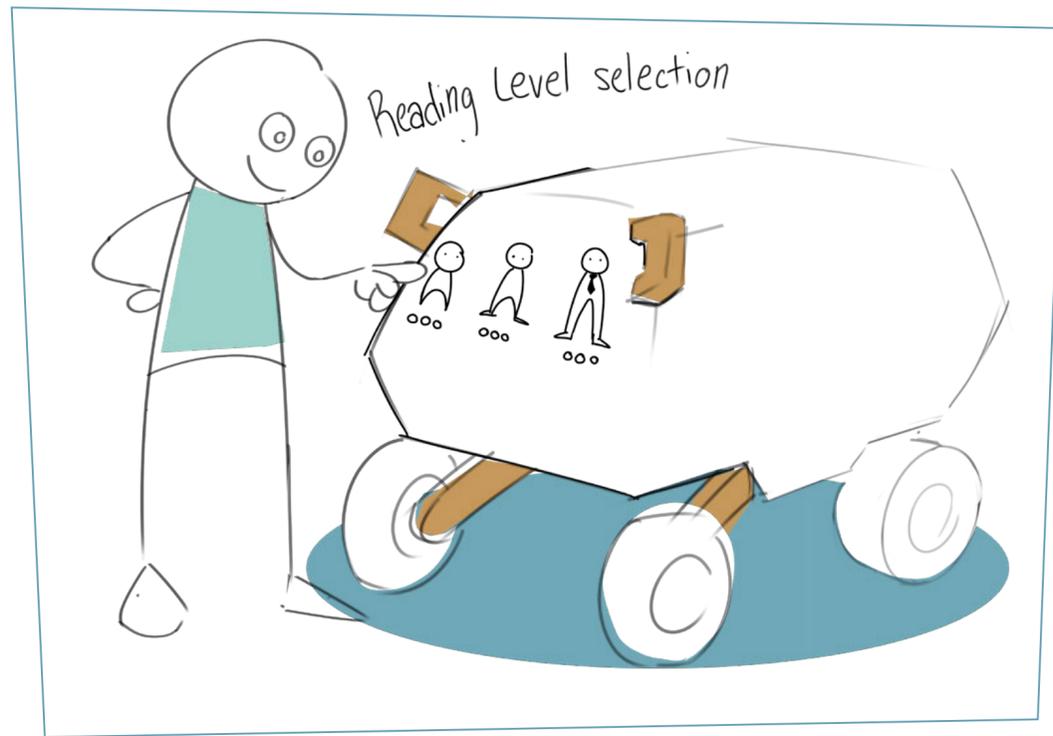
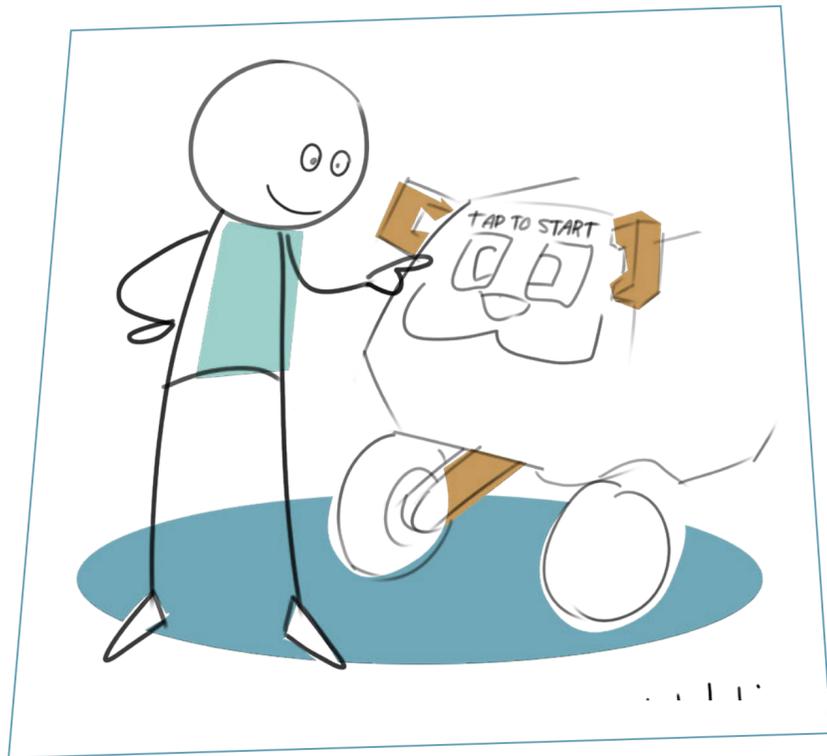


Bring the library to you by
requesting locations

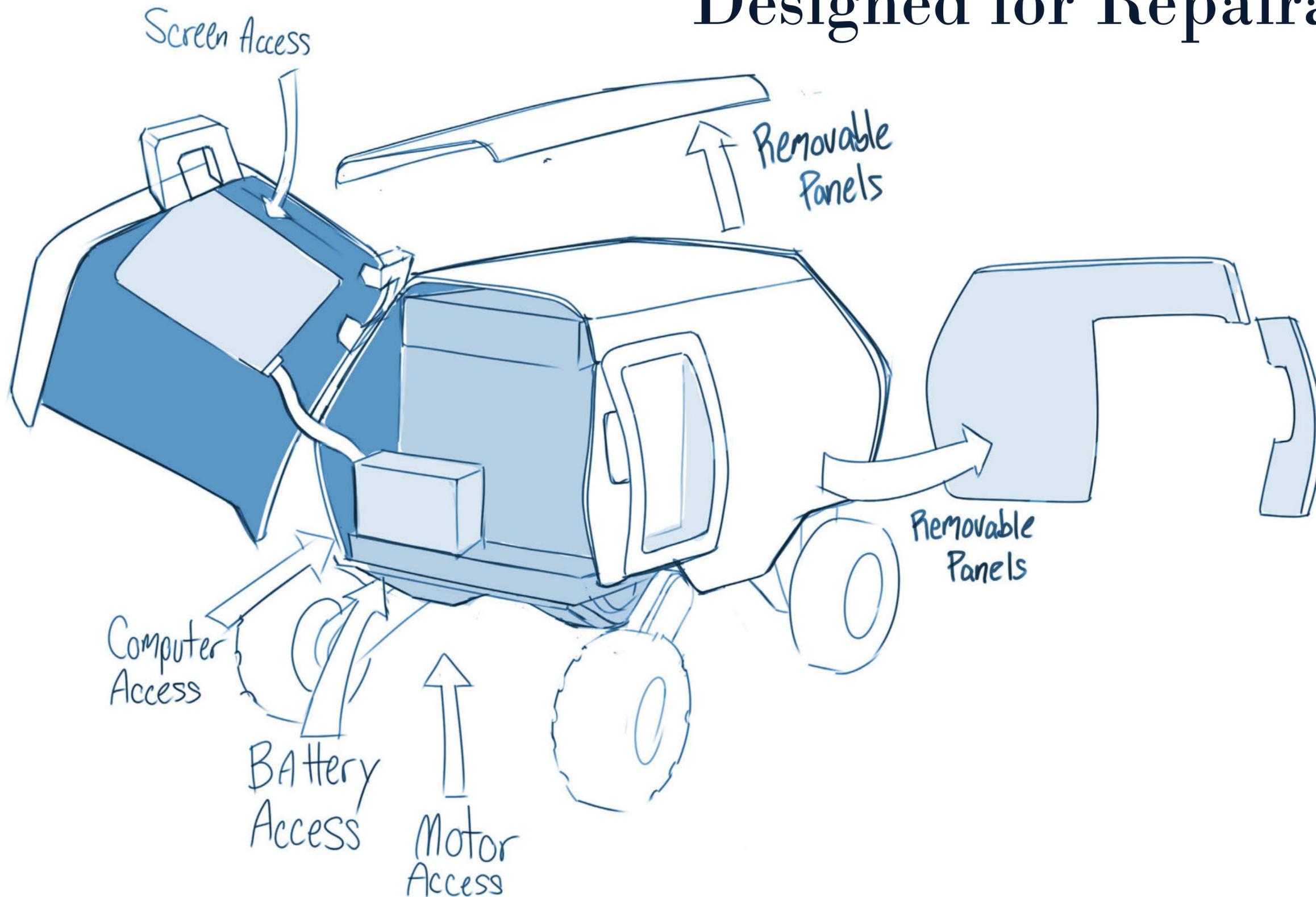


Check Bibliobot's
location via app





Designed for Repairability





College For Creative Studies

Render Relay

Render Relay is a College for Creative Studies based design competition for modeling and rendering.

Students are given a Prompt and three weeks to complete thier submission.

challenge:

Concept Game Console



