

Roland Saekow
Product Composer



FlexFix

In-Home Physical
Therapy Wearable

Finger tracking and
notification system
for preventing osteoarthritis



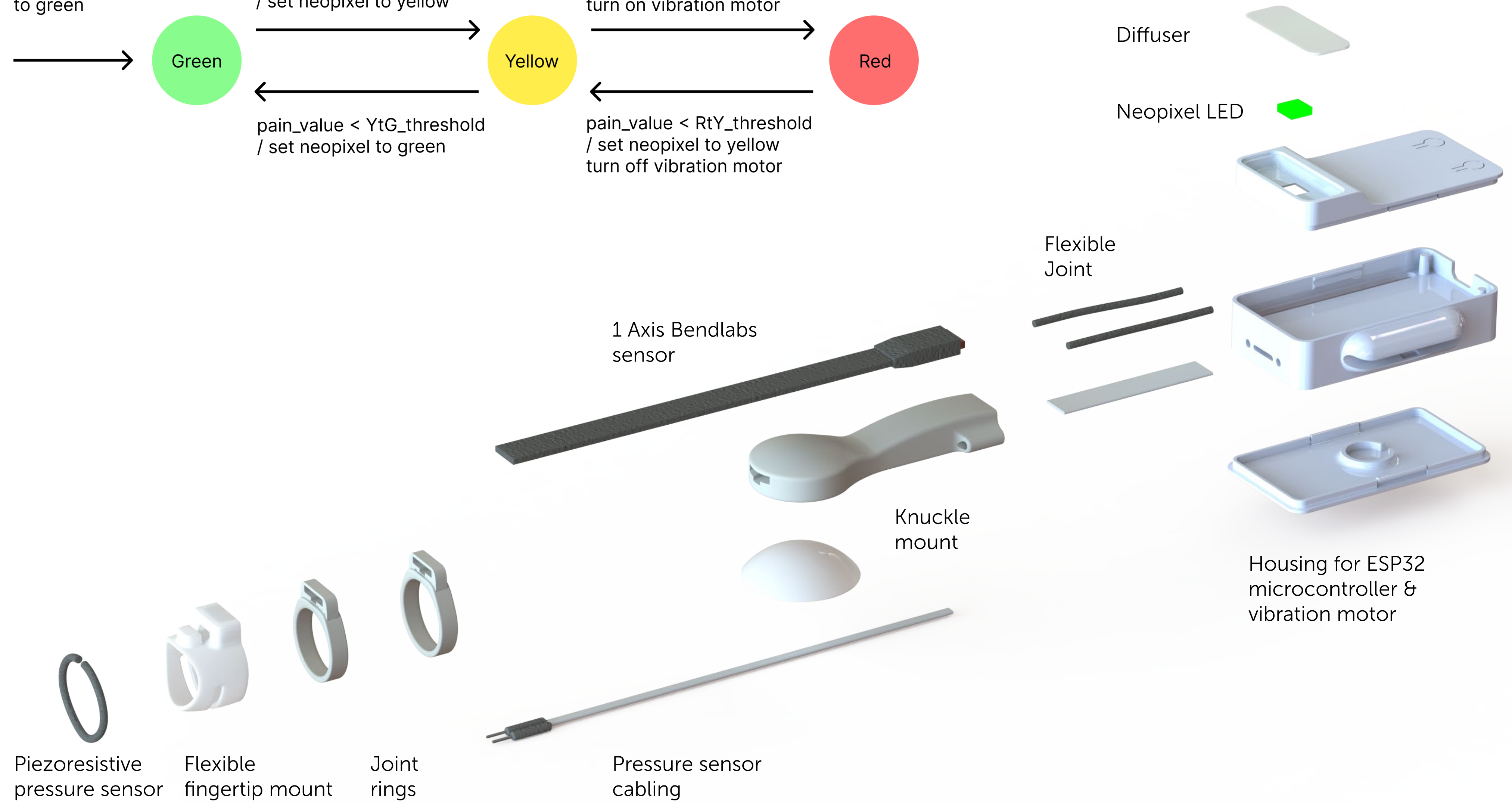
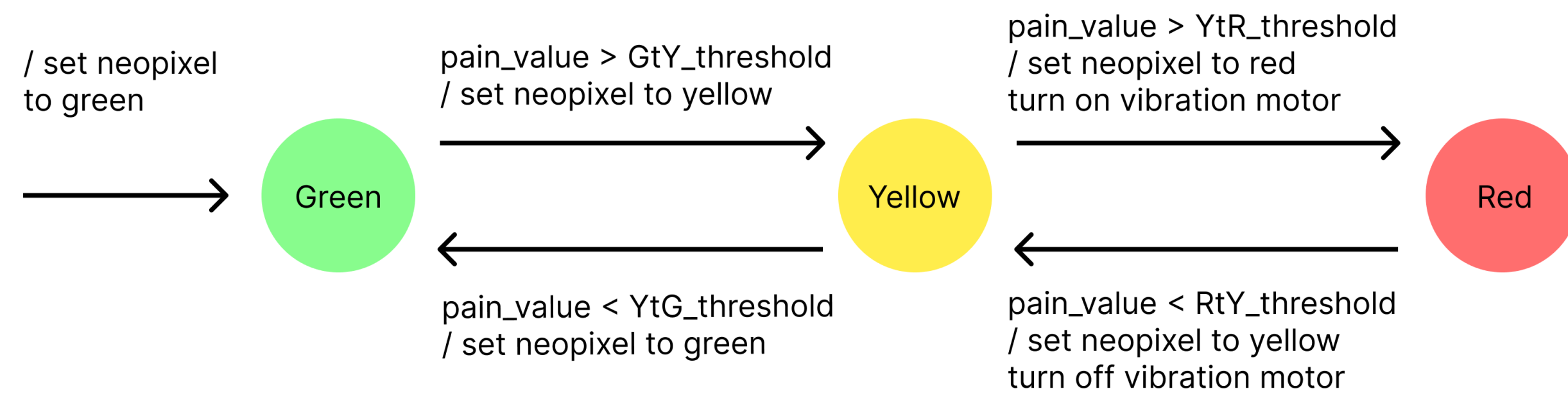


FlexFix is assistive monitoring device that alerts users with osteoarthritis and finger joint hypermobility about the overuse of their digits.

A bend sensor along the target finger measures finger flexure and usage.

A light system provides visual feedback. Haptic feedback in the wrist housing also works to warn the user about overextension of a finger.

FlexFix serves as a training device to build better joint health habits.





Concept to prototype in 8 weeks

3D printed flexible resin finger mounts
with adjustable fit silicone straps

ESP32 microcontroller for processing
bend and pressure sensors

Roles

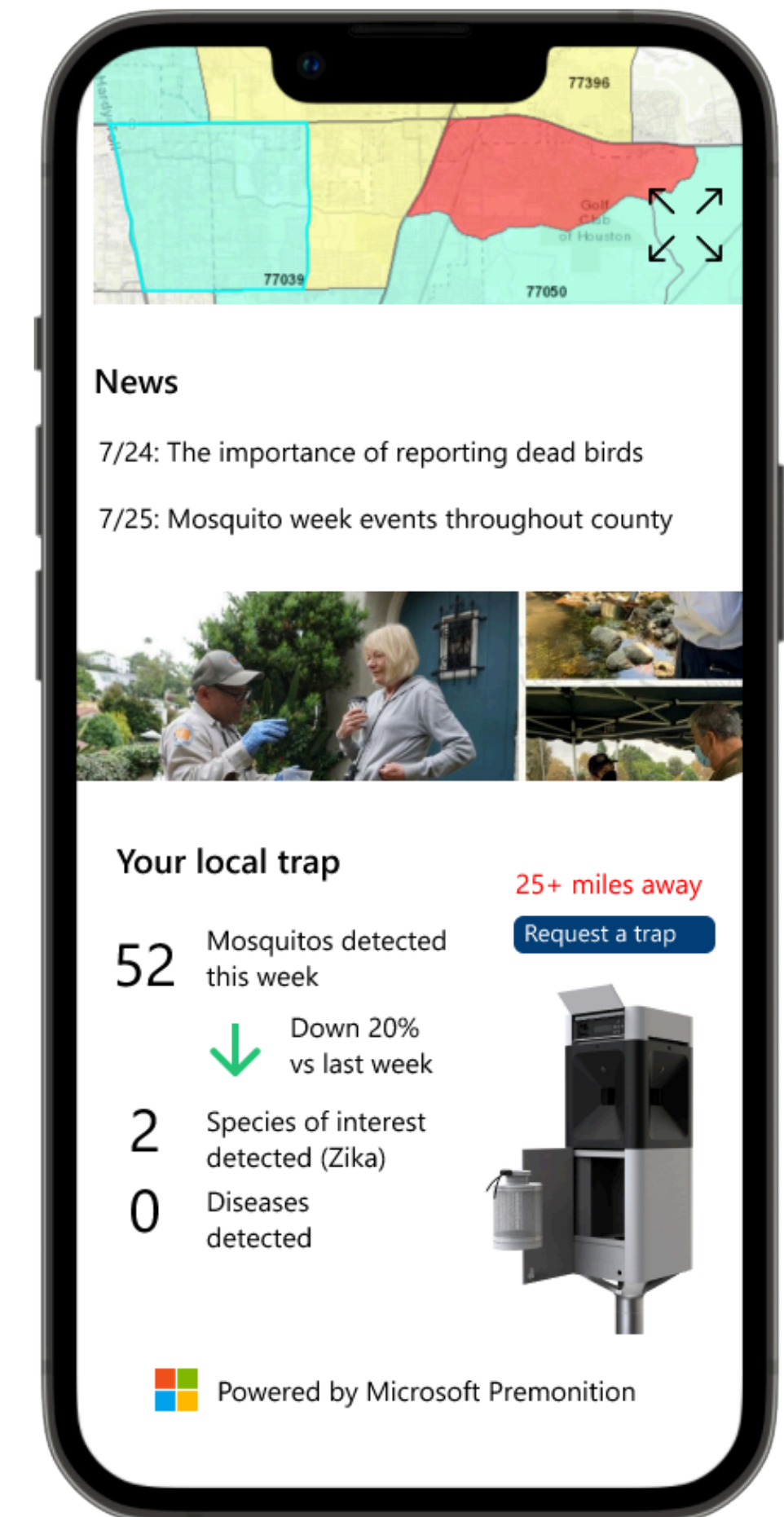
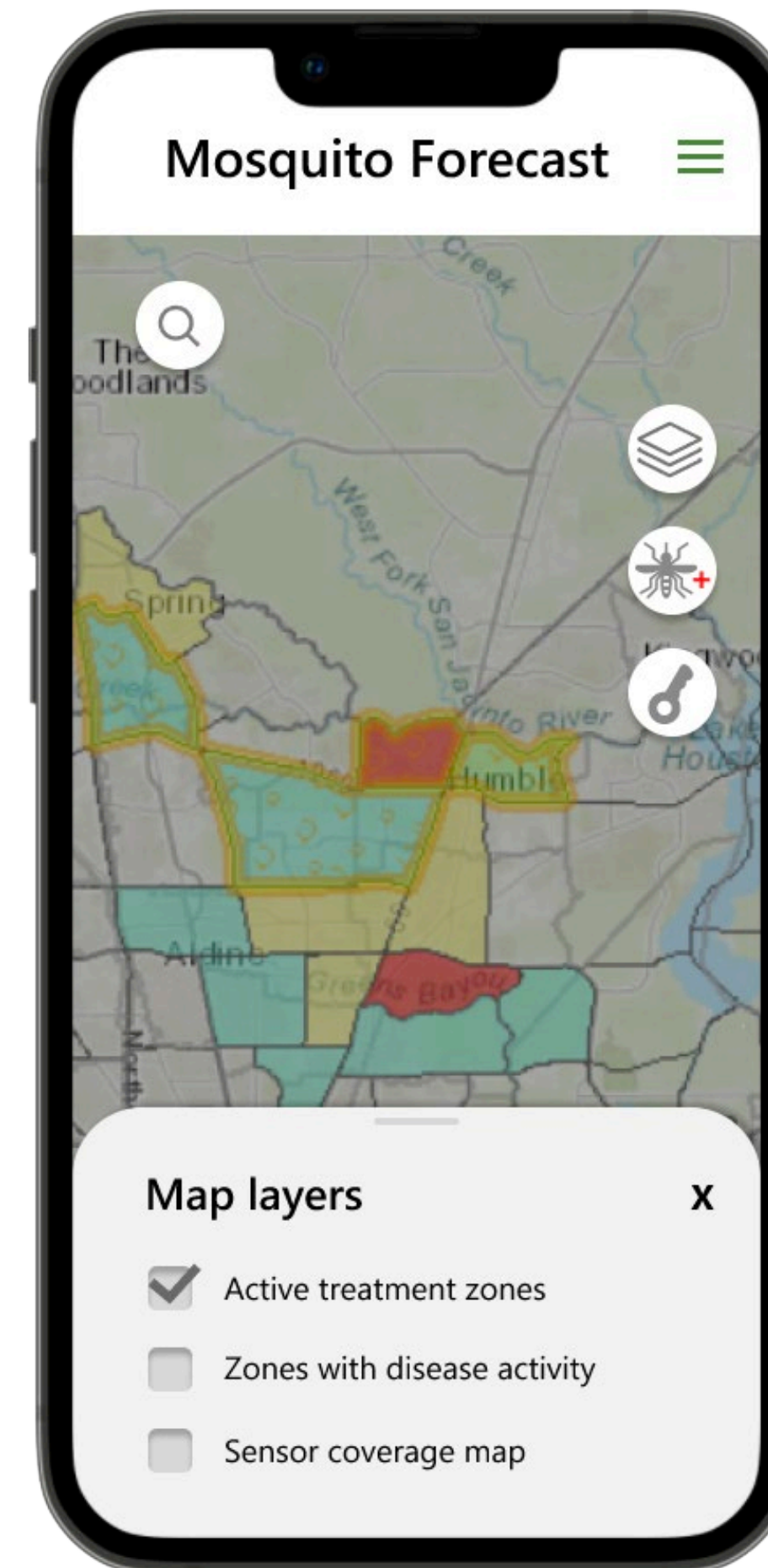
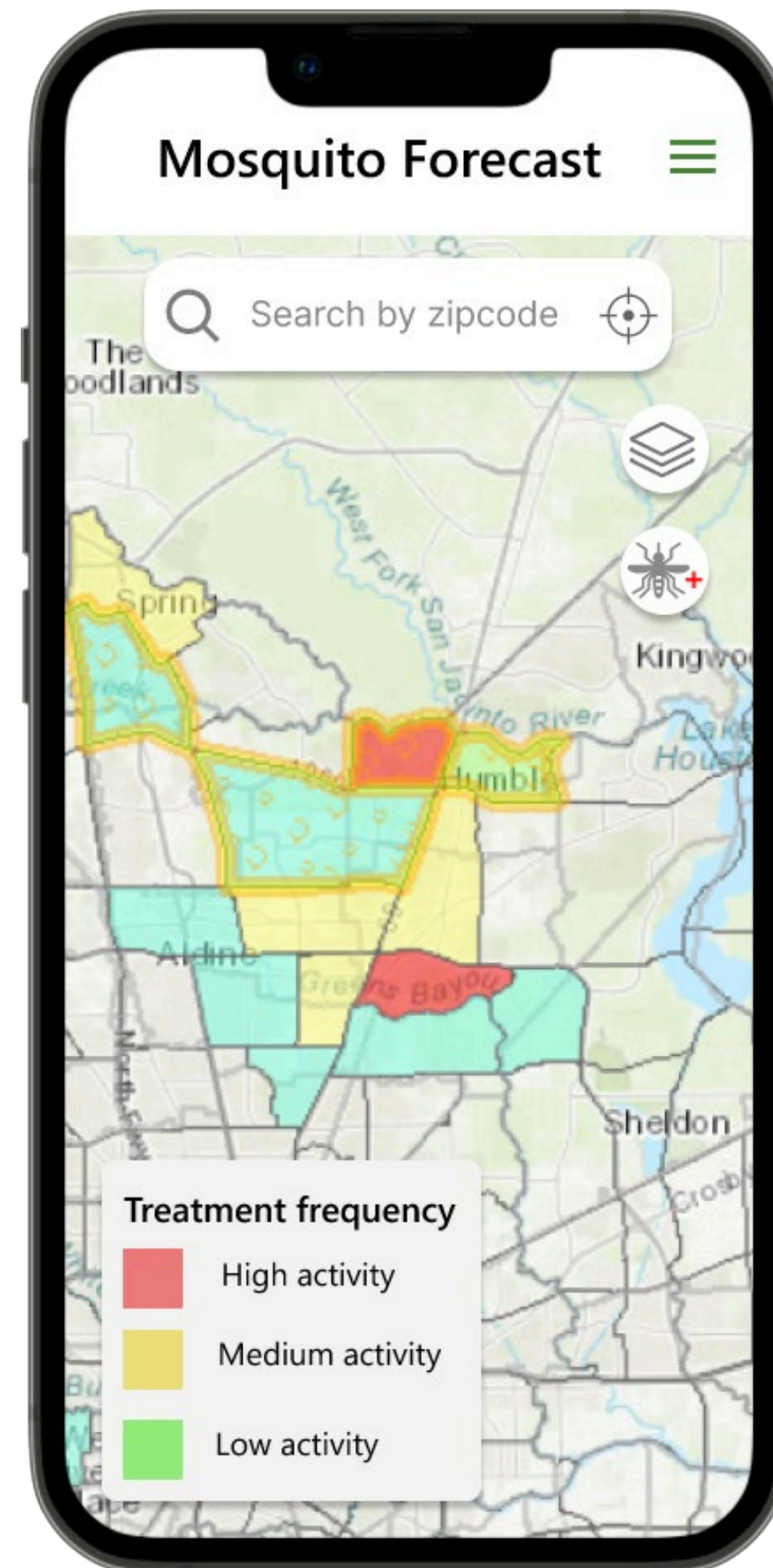
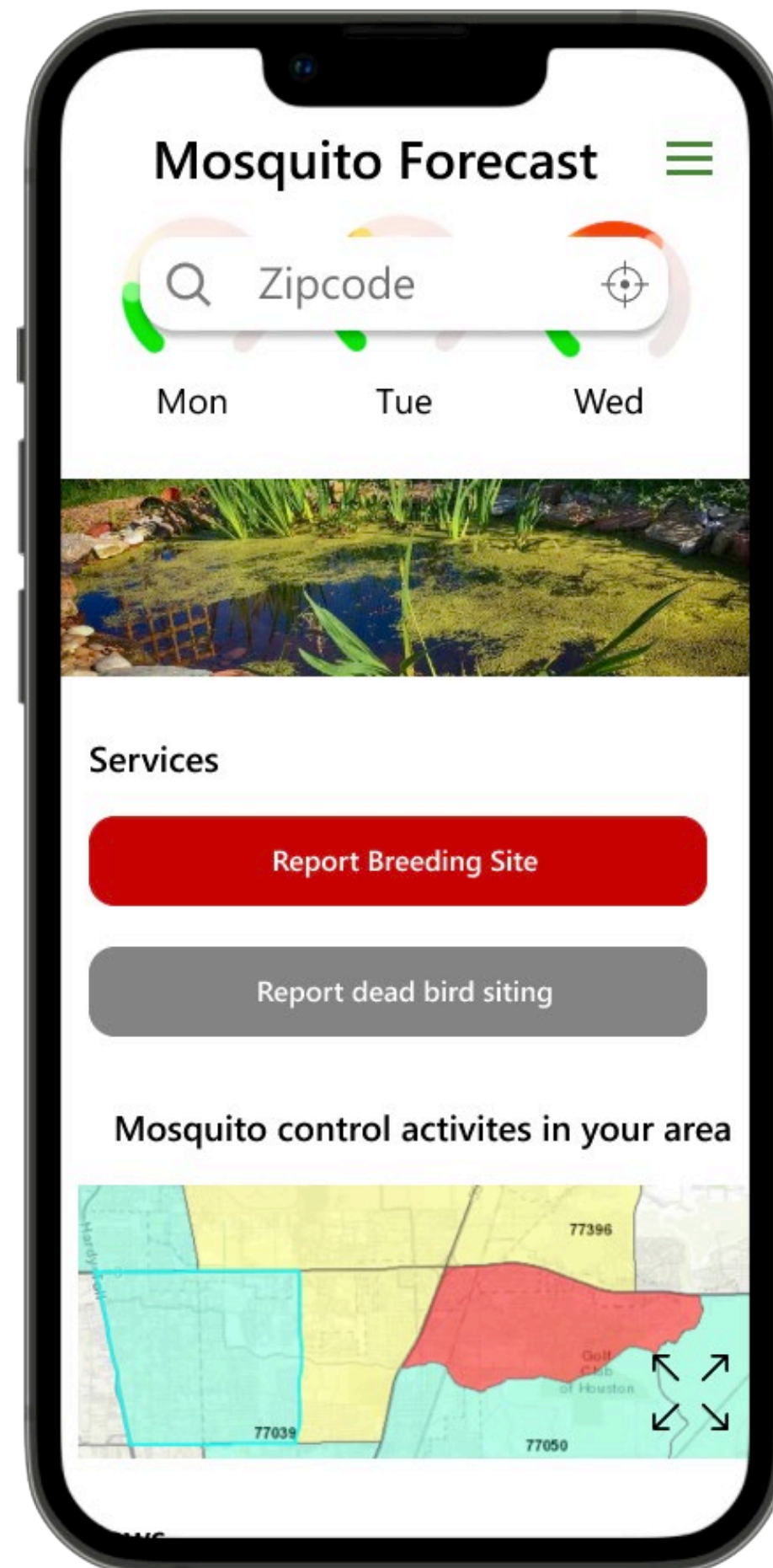
- User interviews
- Product management
- Hardware prototyping

Microsoft Research

Health Futures
Internship

Robotic mosquito tracking
system for automated
disease surveillance





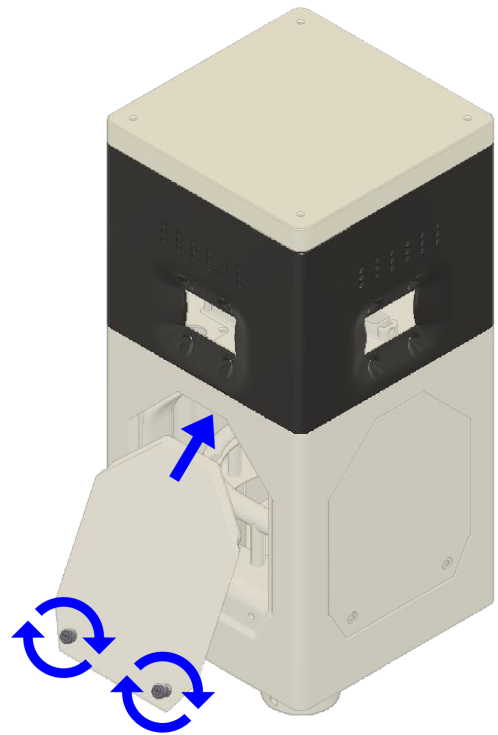
The Premonition Project tracks and traps mosquitos for disease monitoring and prevention.

A mobile interface was designed to explore community interactions with data collected by the robots.

Access Panel

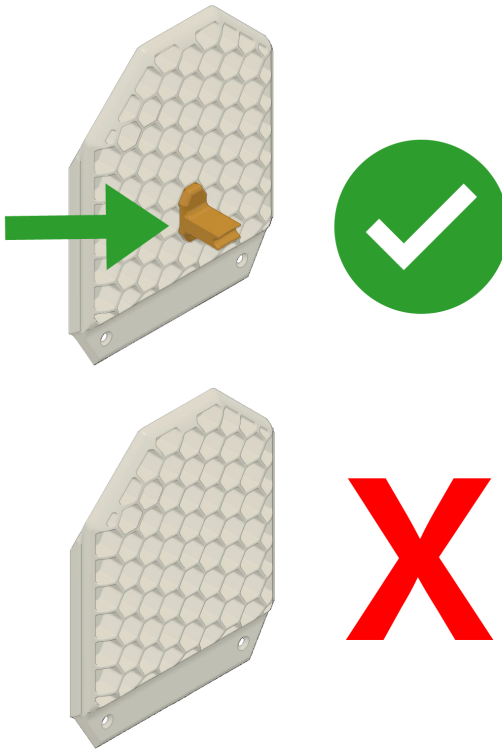
Open & close

Use the thumbscrews to open/close the panel door.



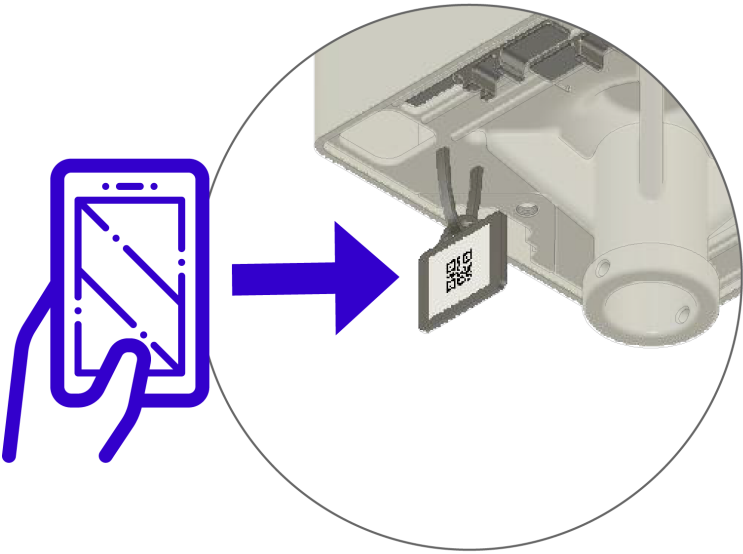
Check door

Confirm the plug is attached to the inside of the door.



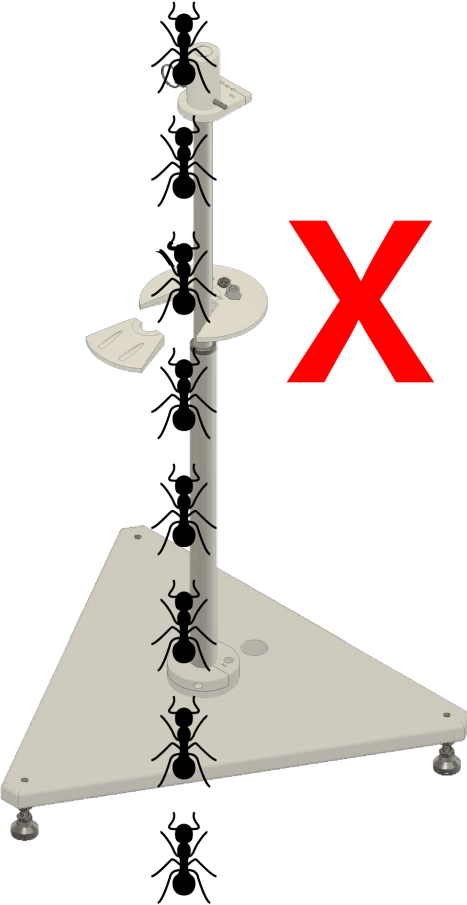
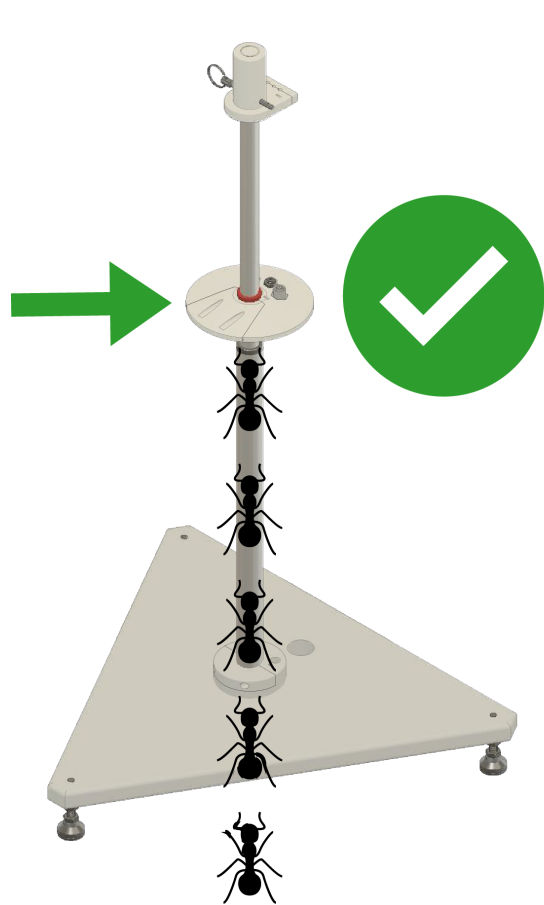
Scan QR Code

Scan the QR code attached to the trap.



Ant Barrier

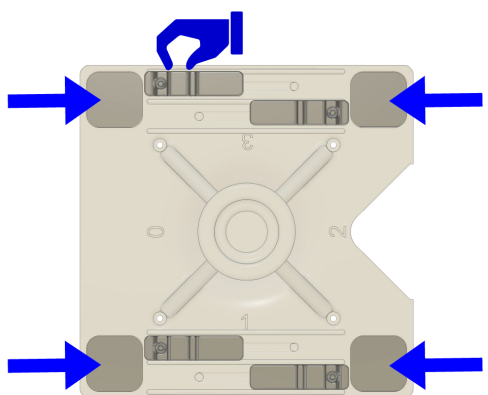
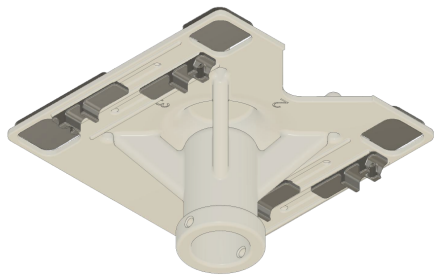
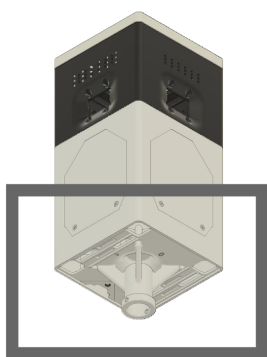
Make sure the ant barrier is in place.



Exhaust Vent

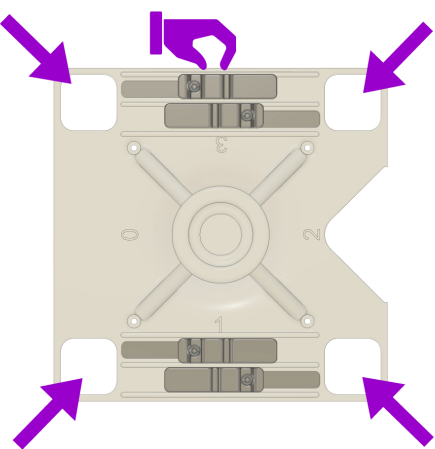
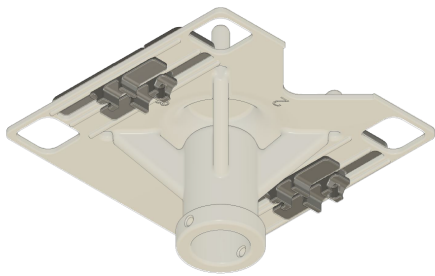
Closed

Before servicing, slide the exhaust vents closed.



Open

After servicing is finished, open the exhaust vents.



12 week internship
across hardware,
design research and
visual design

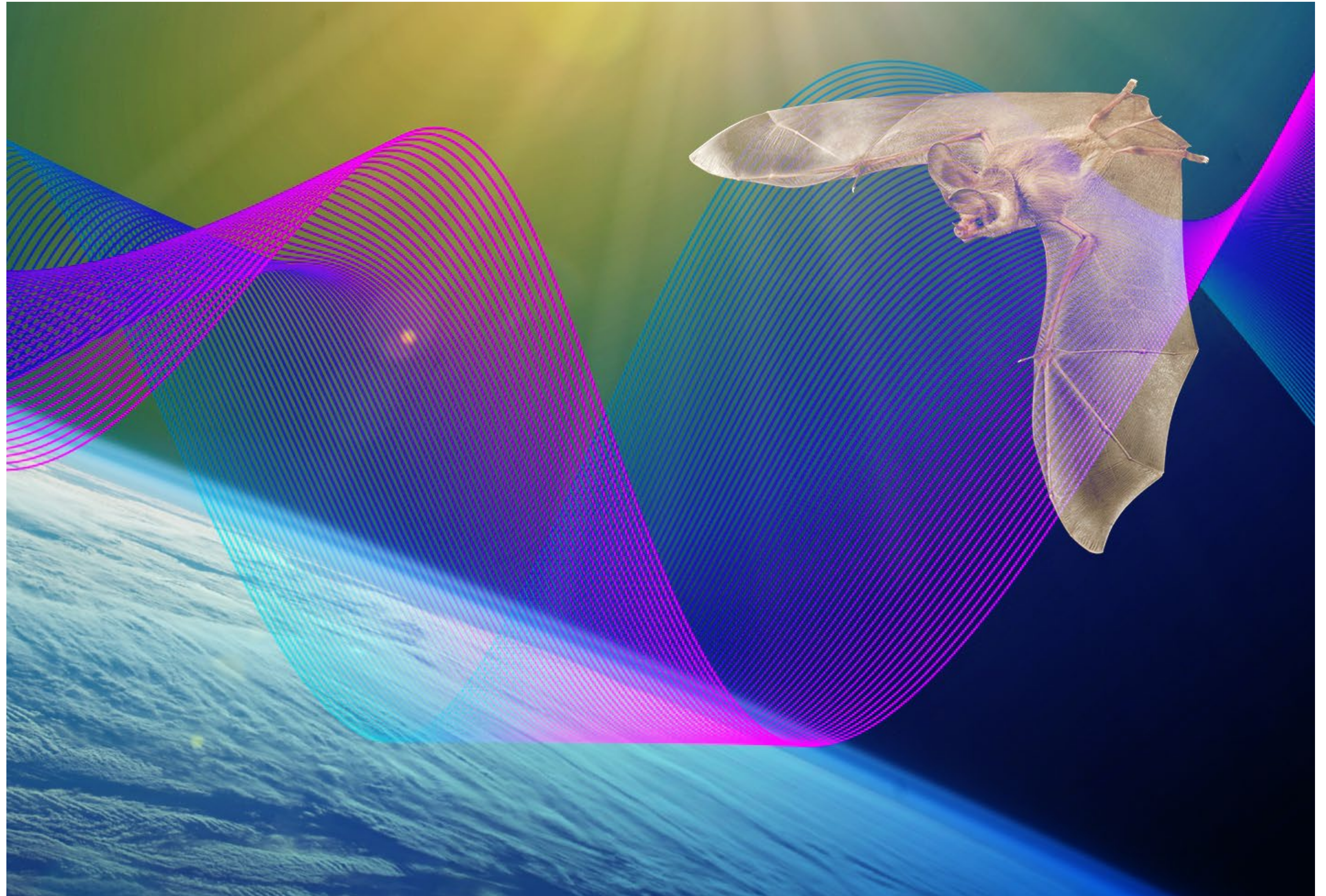
Roles

- 3D modeling
- Narrative visualization
- Concept generation

Bat Babble

Master of Design
Capstone Thesis

Listening to biological
signals to prevent the
next epidemic





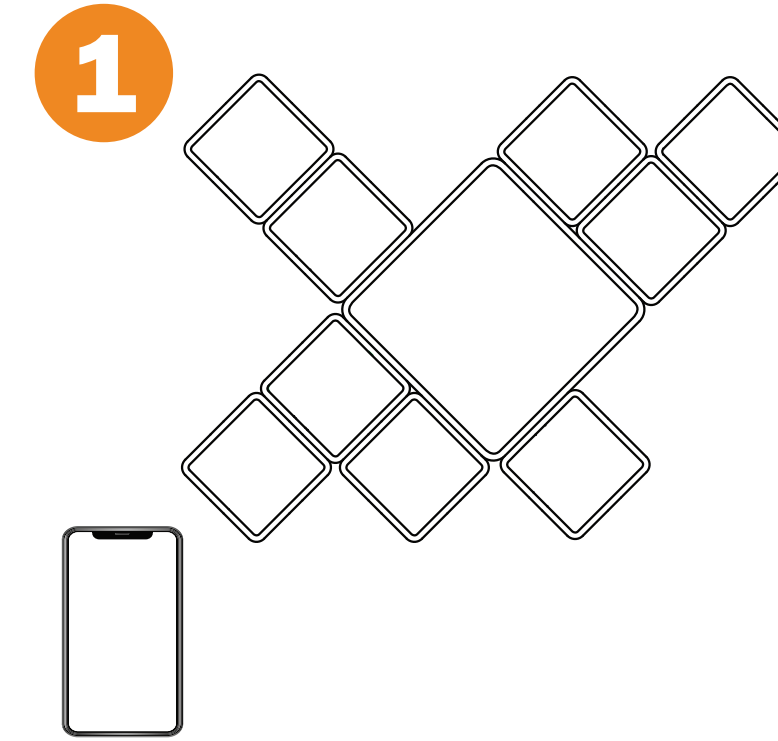
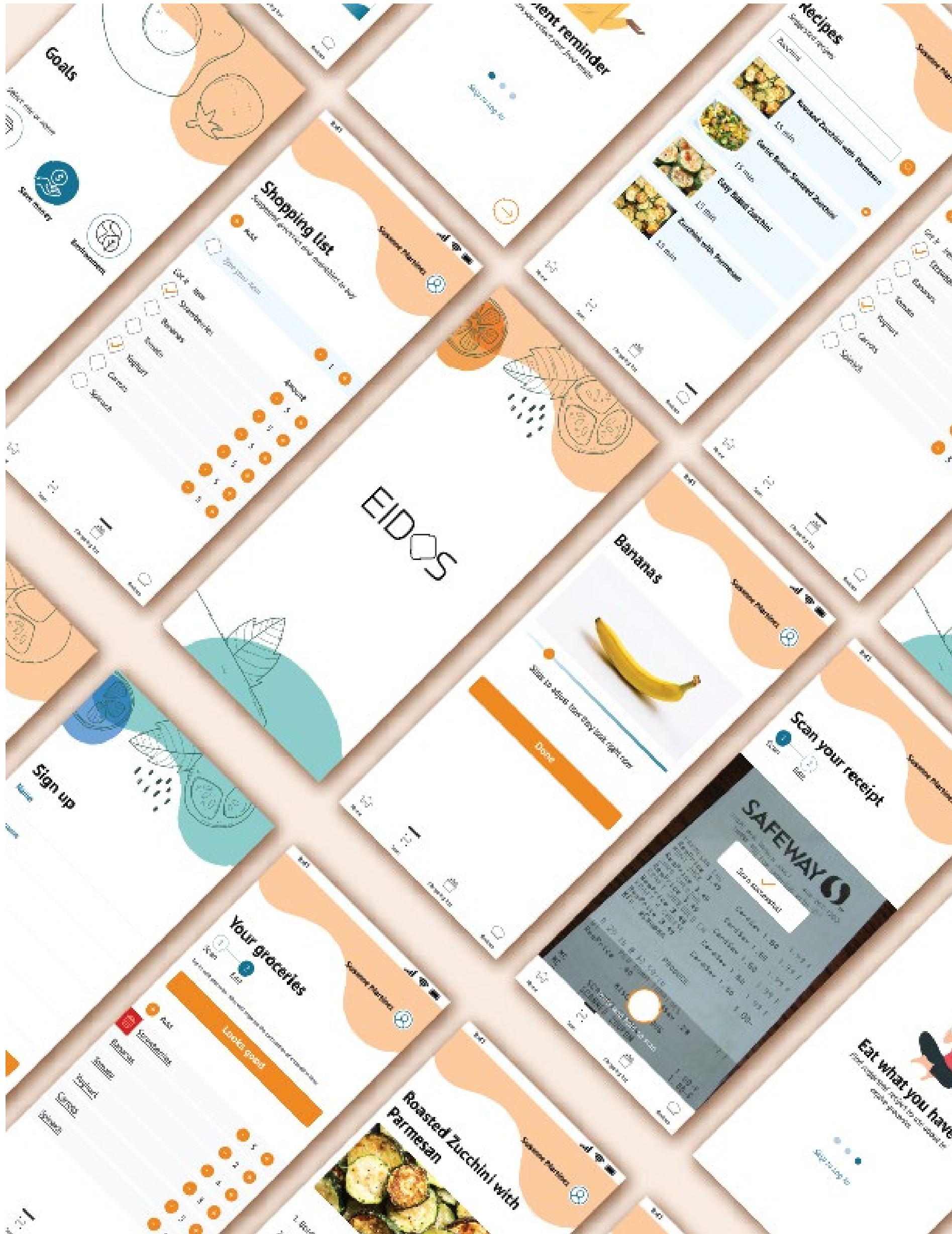
Panoramic thermal imaging is used to detect social behaviors and movements of bats and guano deposits as a proxy for their health.

EIDOS

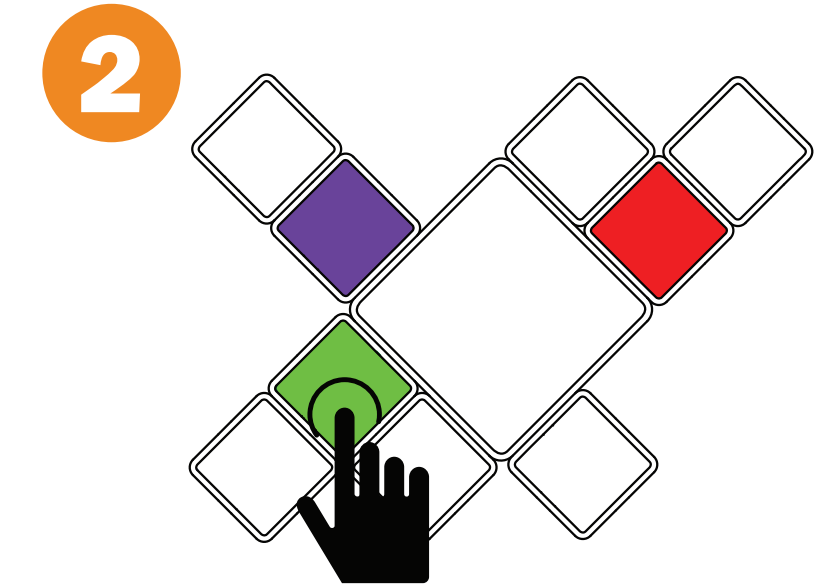
Reducing Residential
Food Waste

EIDOS helps you use
up what you have
and minimize what
you throw away

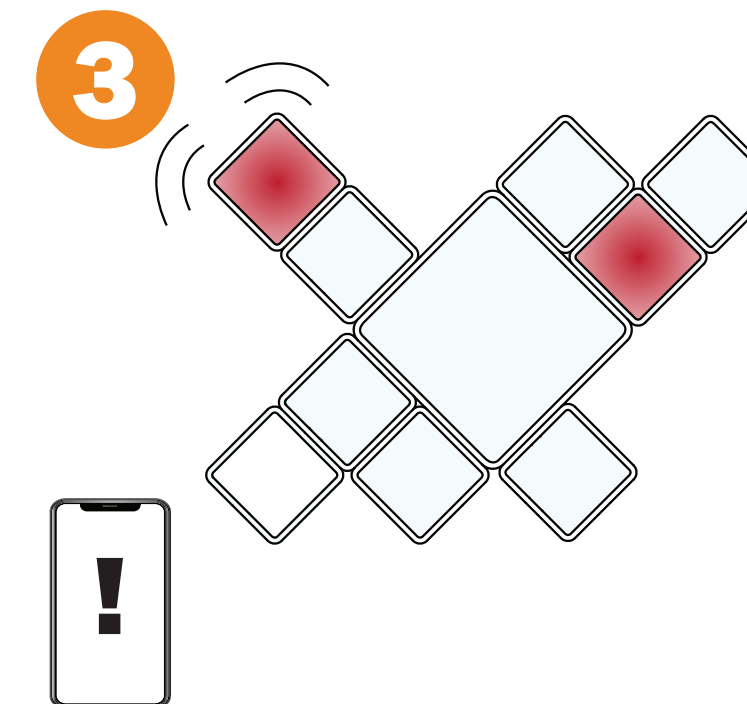




Scan your grocery receipt to let EIDOS know what foods you have at home.



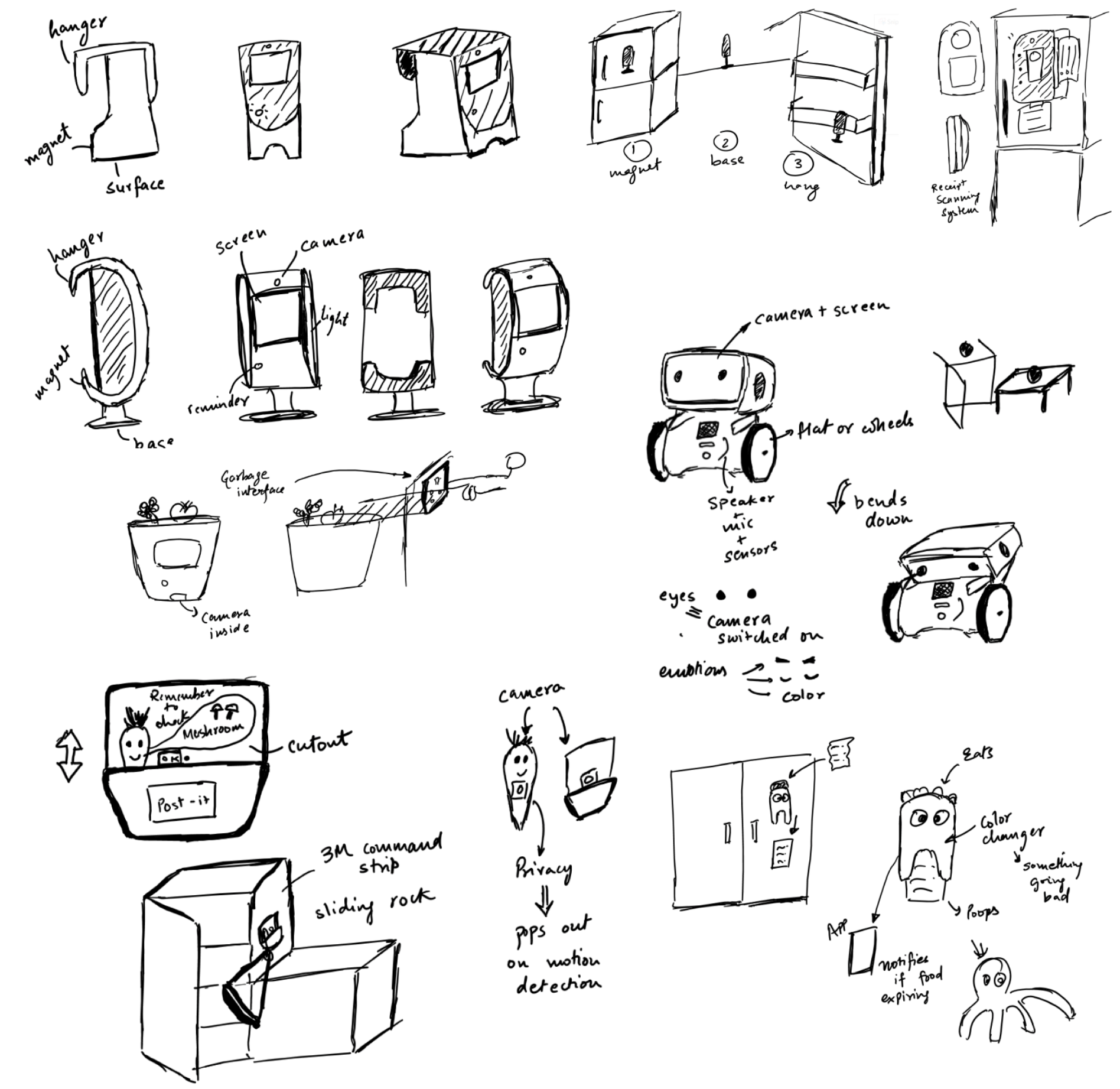
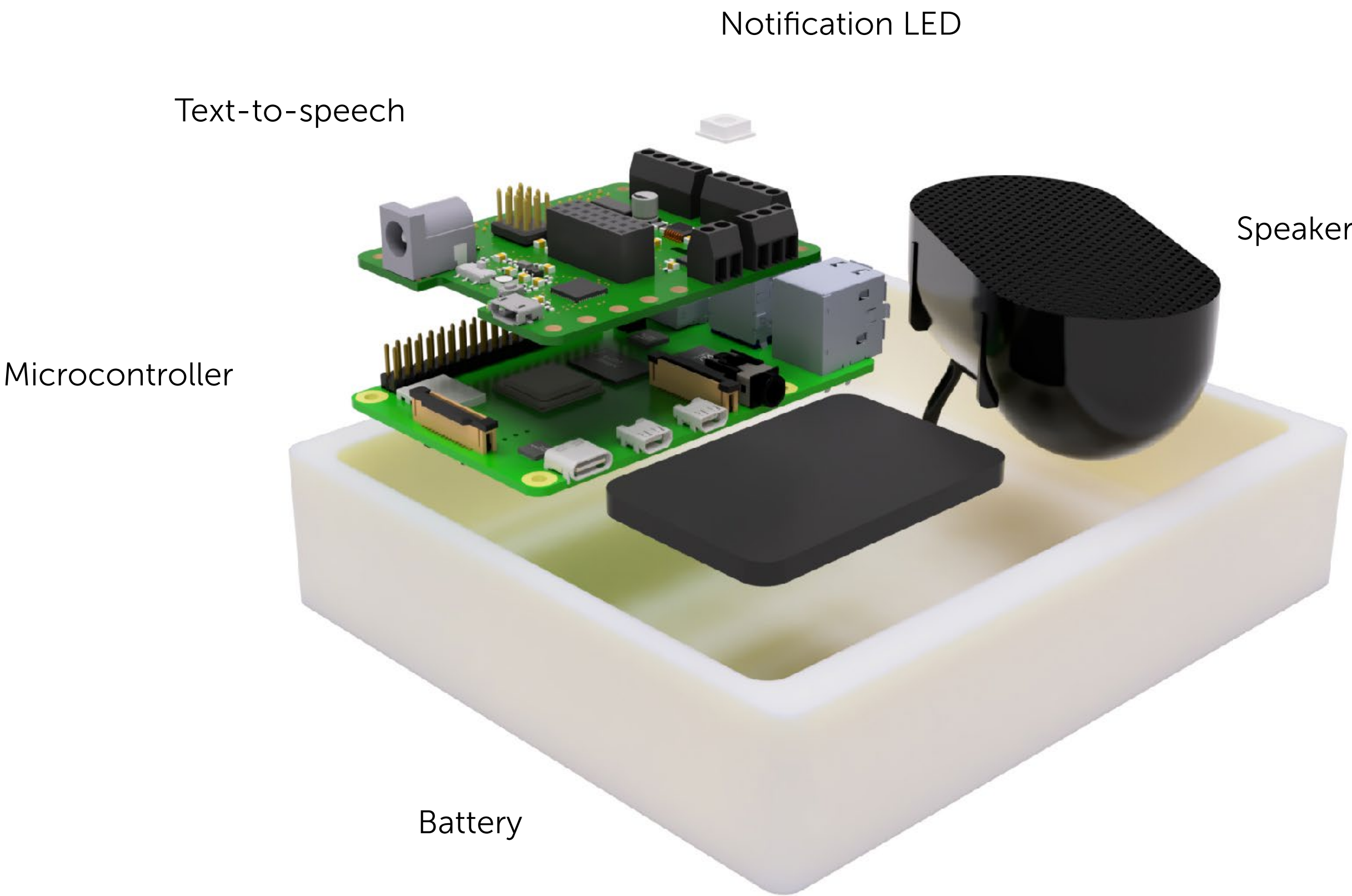
EIDOS reminds you when groceries are about to expire using the dominant food color.

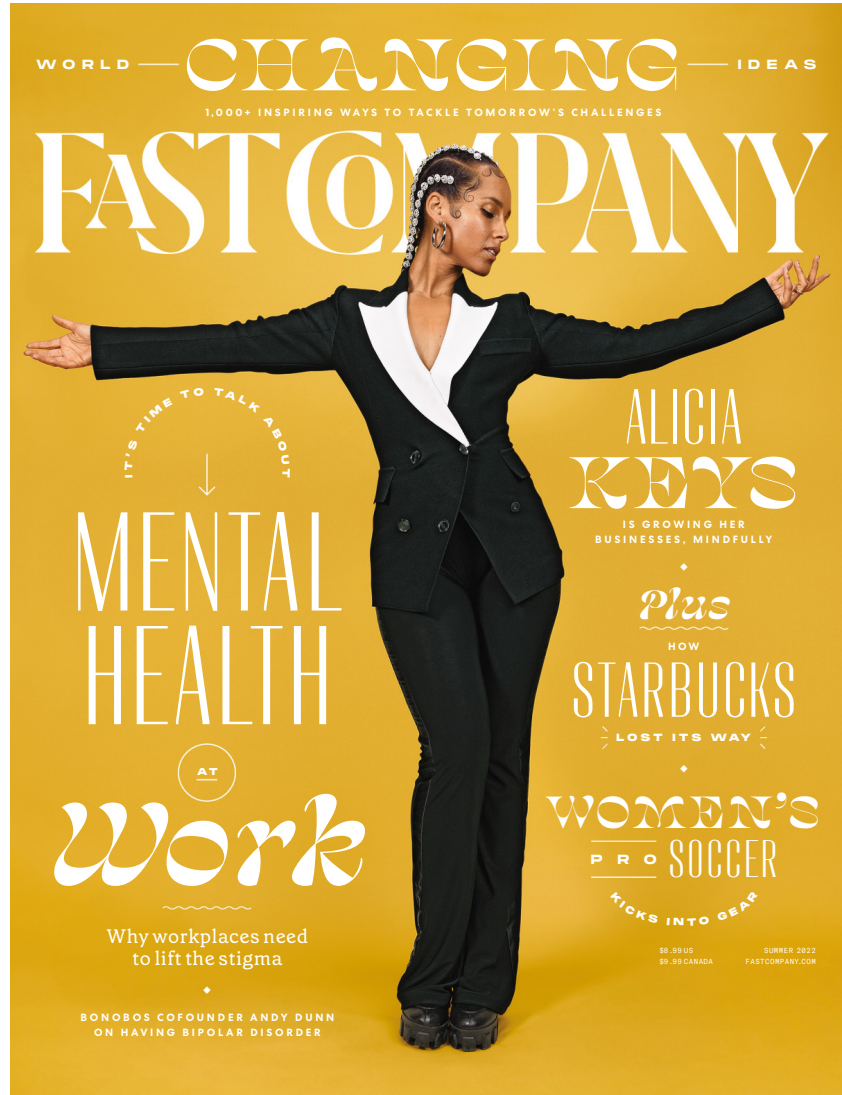


Lights begin pulsating when groceries are expiring soon.



EIDOS creates a suggested grocery shopping list based on your waste habits.





Innovation by
Design Award
Winner



SF Design
Week
Winner



Roland Saekow

Master of Design student at UC Berkeley focusing on the responsible application of emerging technologies with hardware product development and entrepreneurial experience.

Education

Master of Design
UC Berkeley Dec 2022

Bachelor of Arts
UC Berkeley Interdisciplinary Studies

Nimble Spaces, Inc.
Founder & CEO
2020-2021

- Pitched, raised funds and established C-Corp in the state of Delaware, leading to construction of a pilot modular parklet in Oakland increasing revenue by 20% for our host.
- Accepted into UC Berkeley SkyDeck HotDesk Accelerator Program and finalist in UC system wide Big Ideas Contest

Jacobs Institute
Operations Manager
2015-2019

- Spearheaded efforts across eight cross-functional campus units to implement makerspace infrastructure, critical to on time opening of the Institute in less than four months
- Designed an access system serving 3,000 students annually and received the Chancellor’s Outstanding Staff Award

BearExtender, Inc.
Chief Product Officer
2009-2015

- Led seven product launches from concept definition to mass production achieving #10 Amazon Best Sellers Rank and a MacWorld Expo Best of Show and Editor’s Choice Award
- Managed supply chain logistics with contract manufactures and suppliers including firmware UI

Skills

- Product development
- Product design
 - Product management

- Design thinking
- User research
 - Ideation generation

- Rapid prototyping
- 3D printing
 - Laser cutting

Awards

- Fast Company World Changing Ideas
- SXSW Interactive Award in Education
- Fast Company Linda Tischler Award

Volunteering

- Jacobs Institute for Design Innovation Student Advisory Board Member

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