

Roland Saekow  
Product Composer





## FlexFix

In-Home Physical  
Therapy Wearable

Finger tracking and  
notification system  
for preventing osteoarthritis





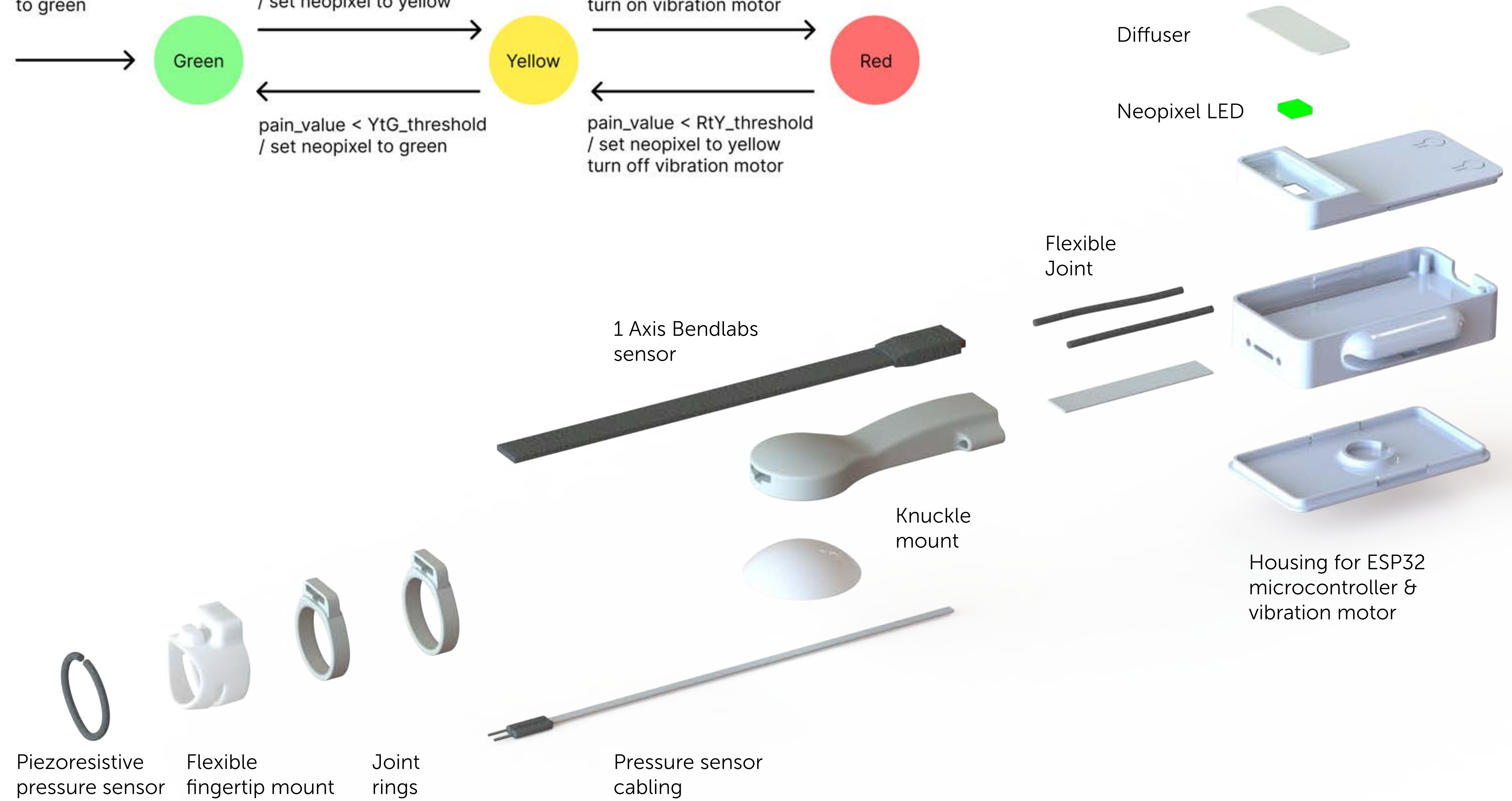
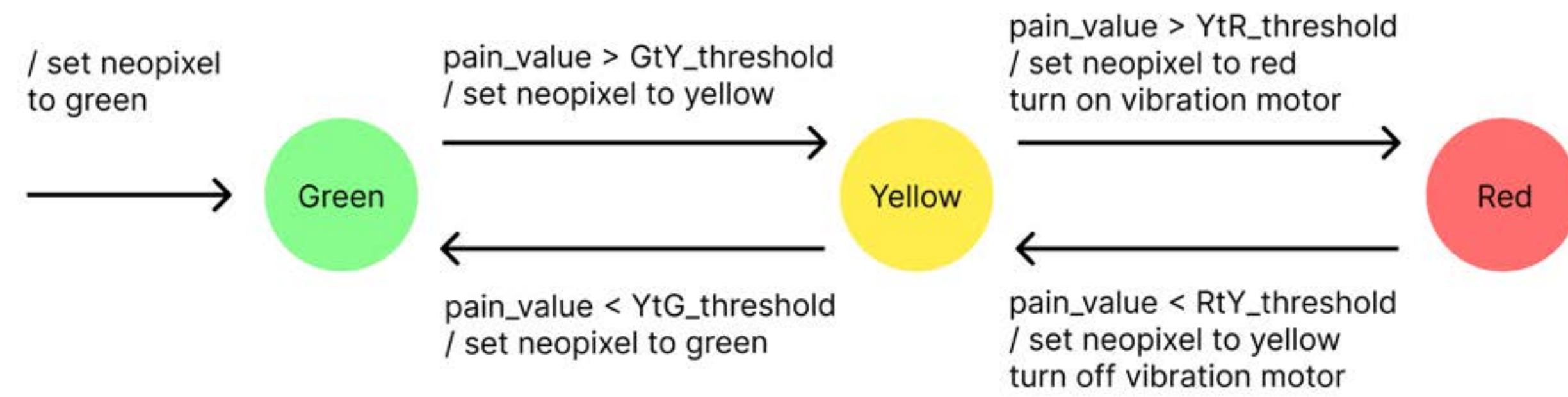


FlexFix is assistive monitoring device that alerts users with osteoarthritis and finger joint hypermobility about the overuse of their digits.

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



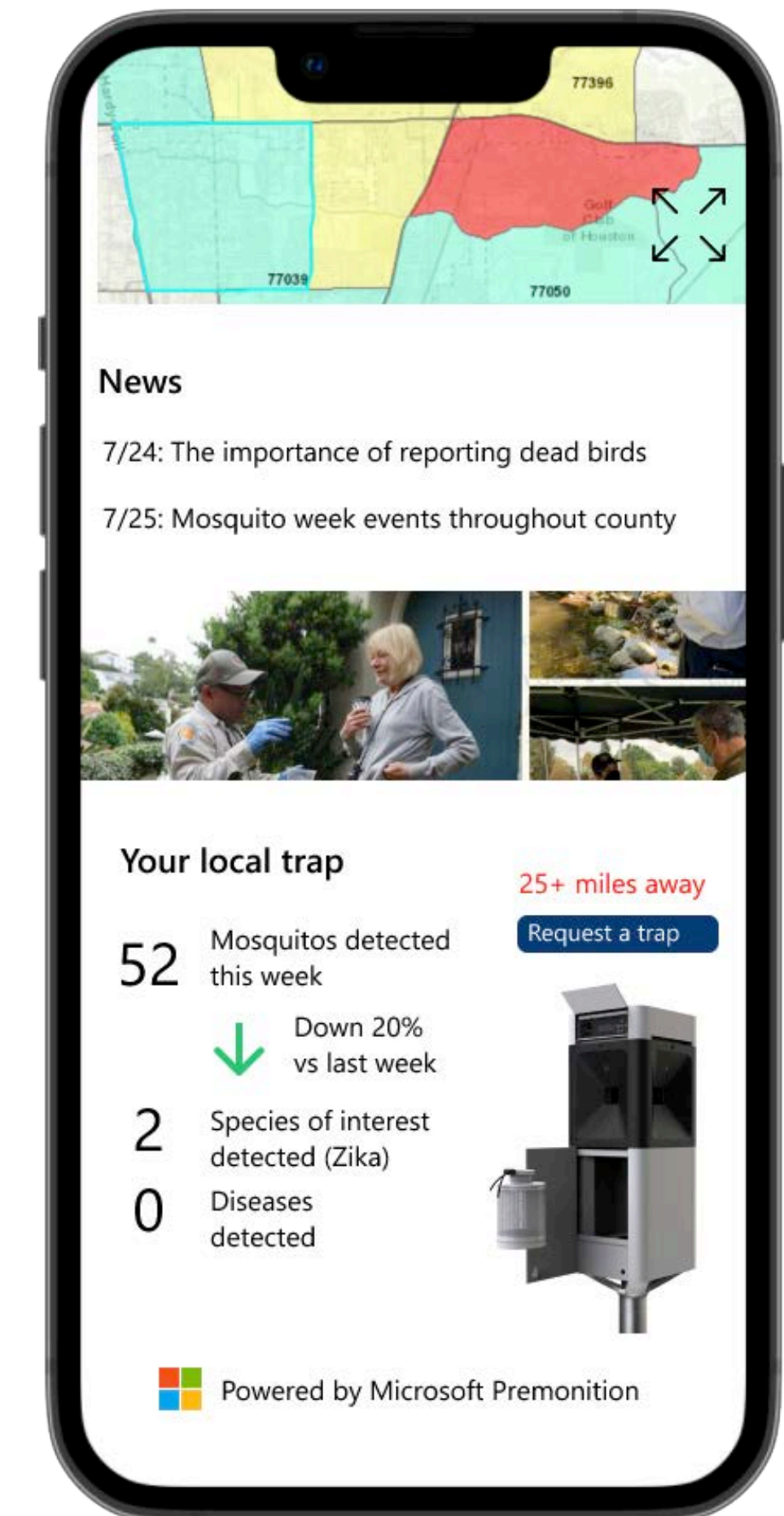
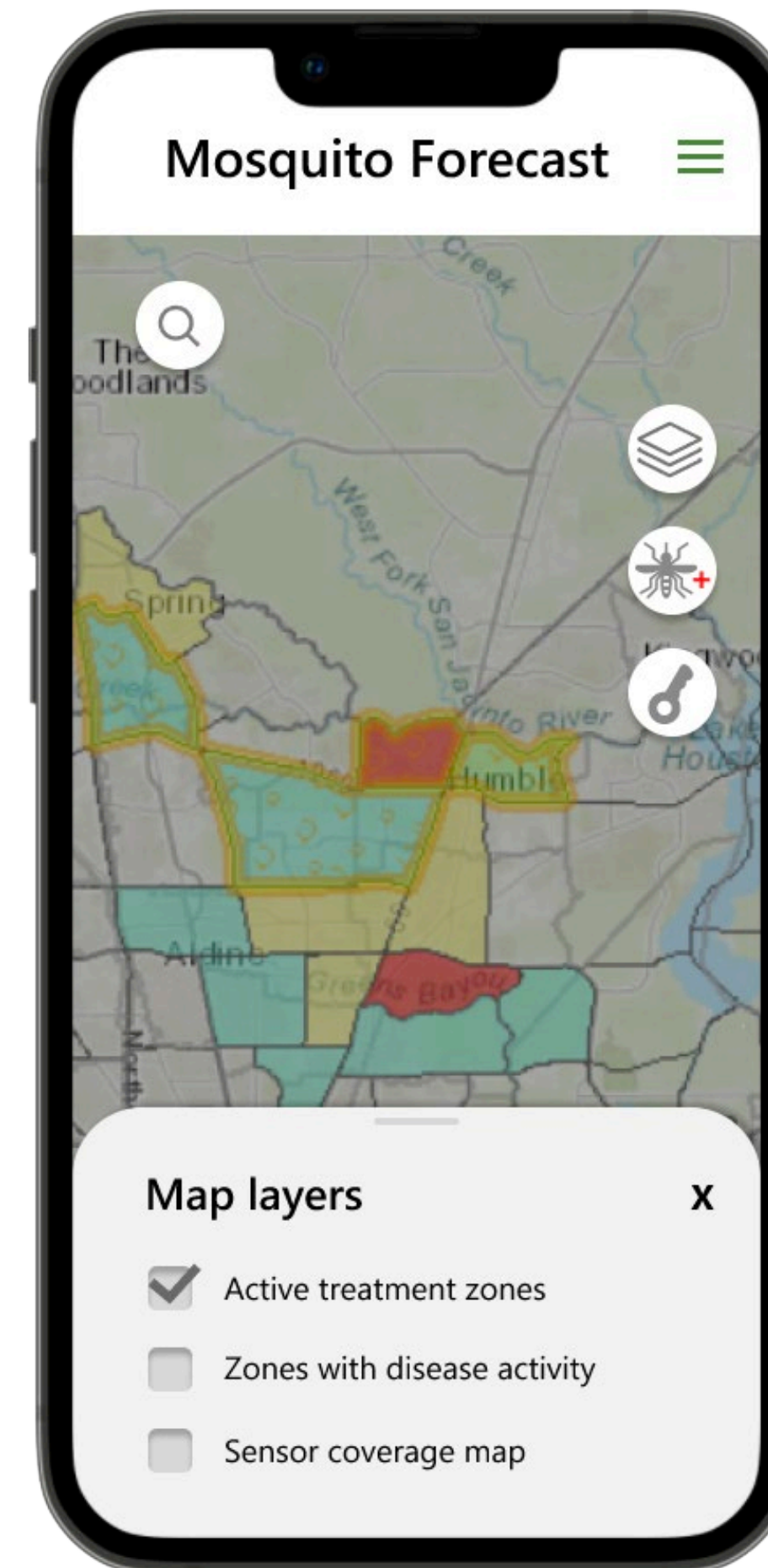
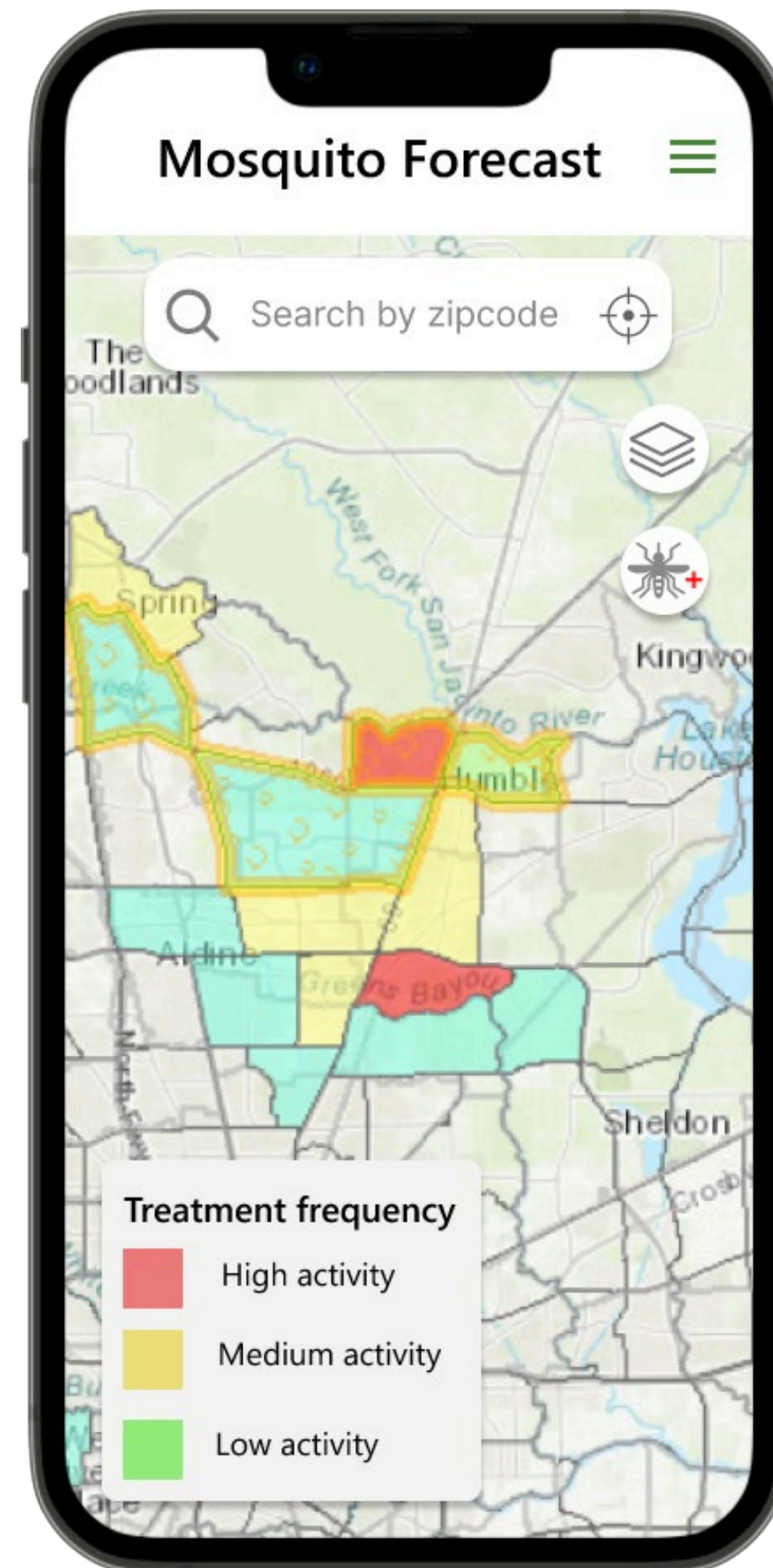
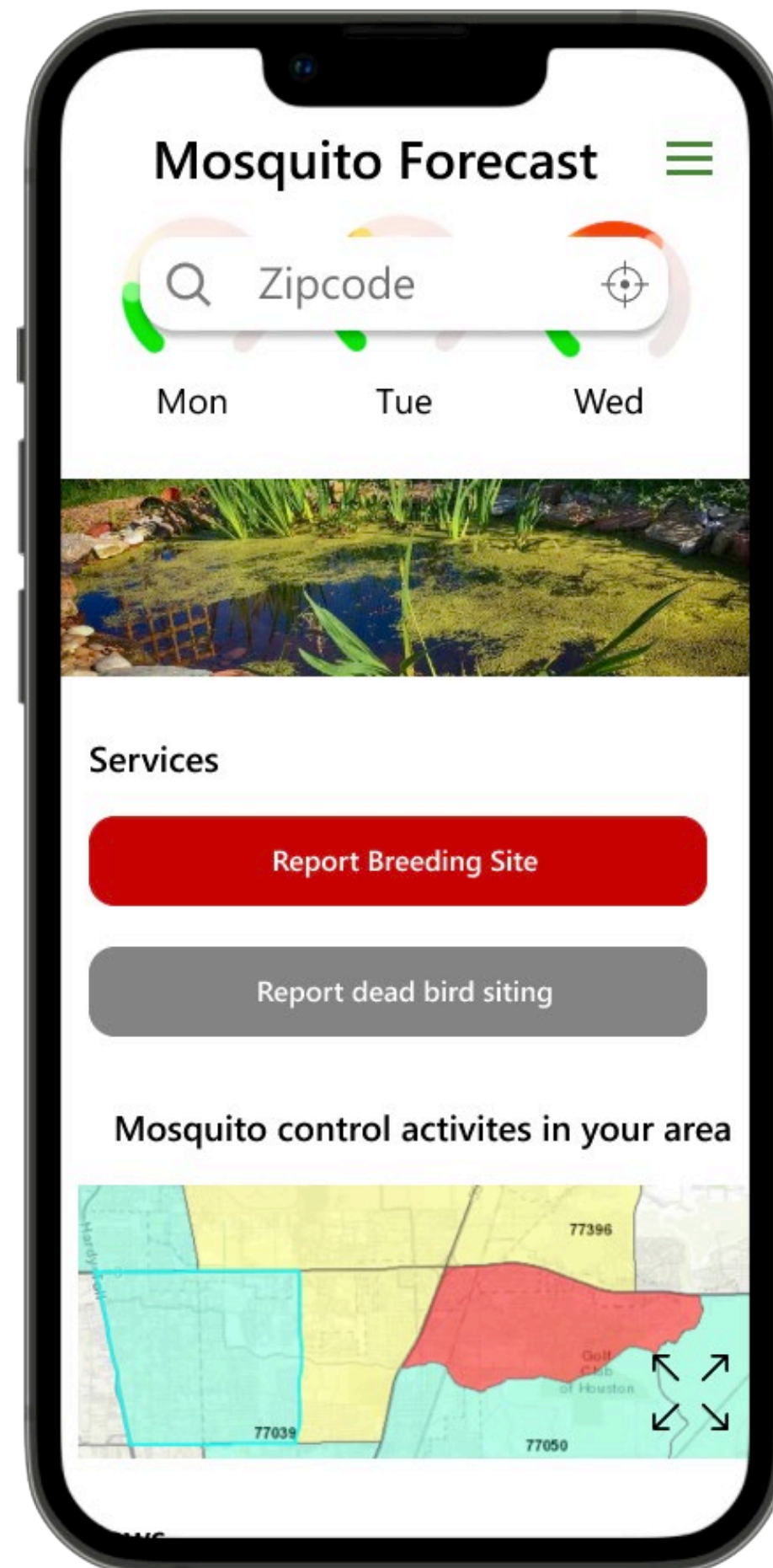
# Microsoft Research

Health Futures  
Internship

Robotic mosquito tracking  
system for automated  
disease surveillance







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

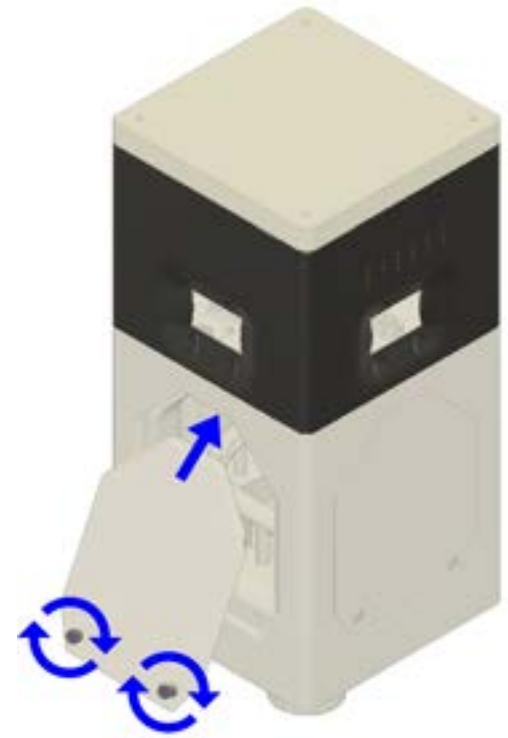
A mobile interface was designed to explore community interactions with data collected by the robots.



## Access Panel

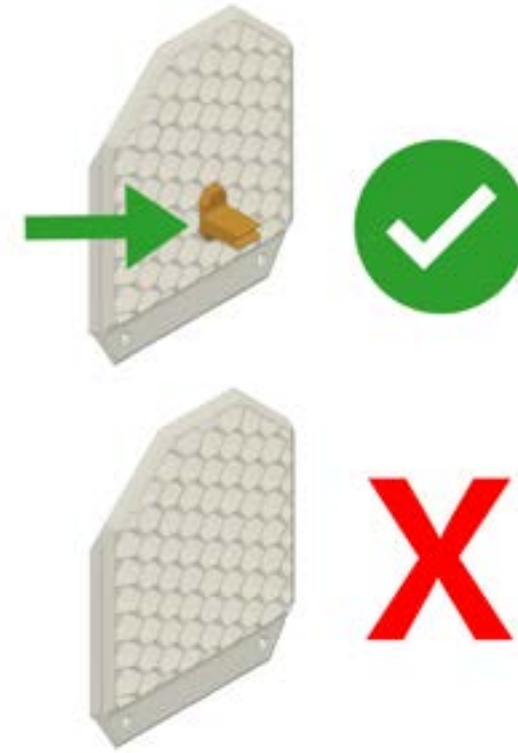
### Open & close

Use the thumbscrews to open/close the panel door.



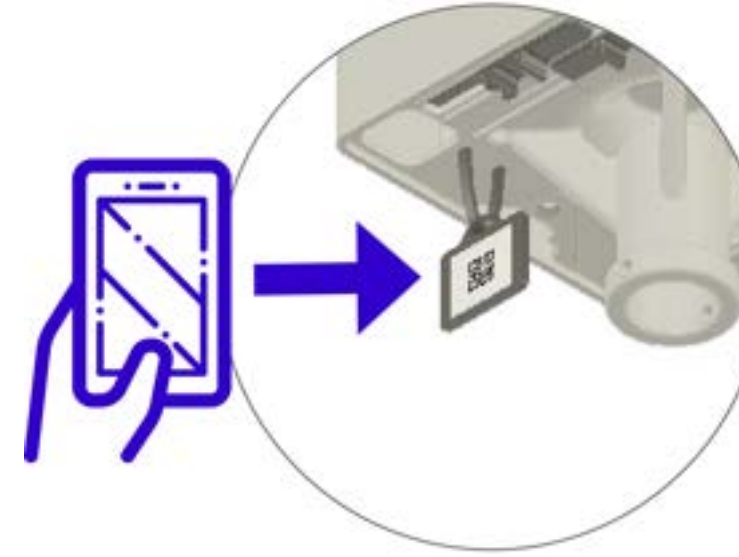
### Check door

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



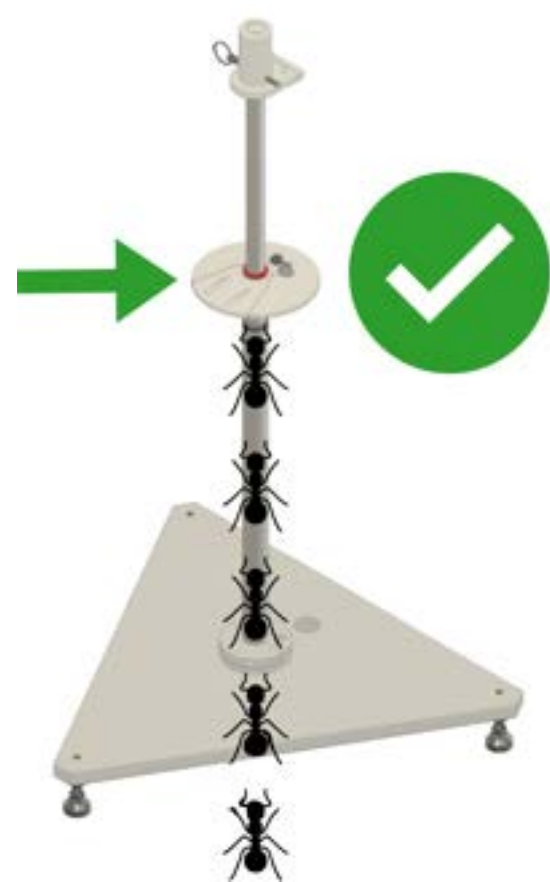
## Scan QR Code

Scan the QR code attached to the trap.



## Ant Barrier

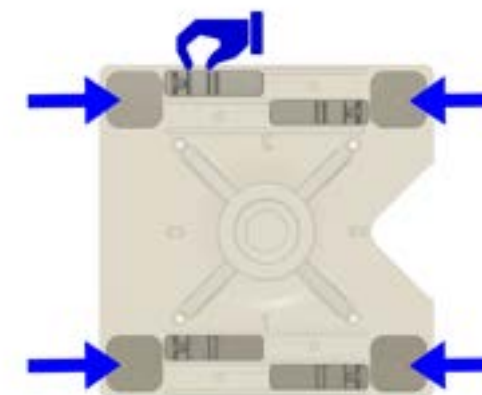
Make sure the ant barrier is in place.



## Exhaust Vent

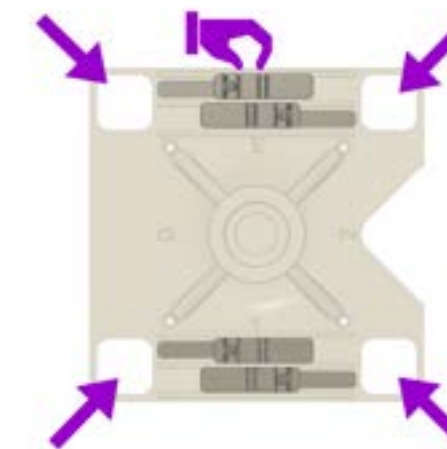
### Closed

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

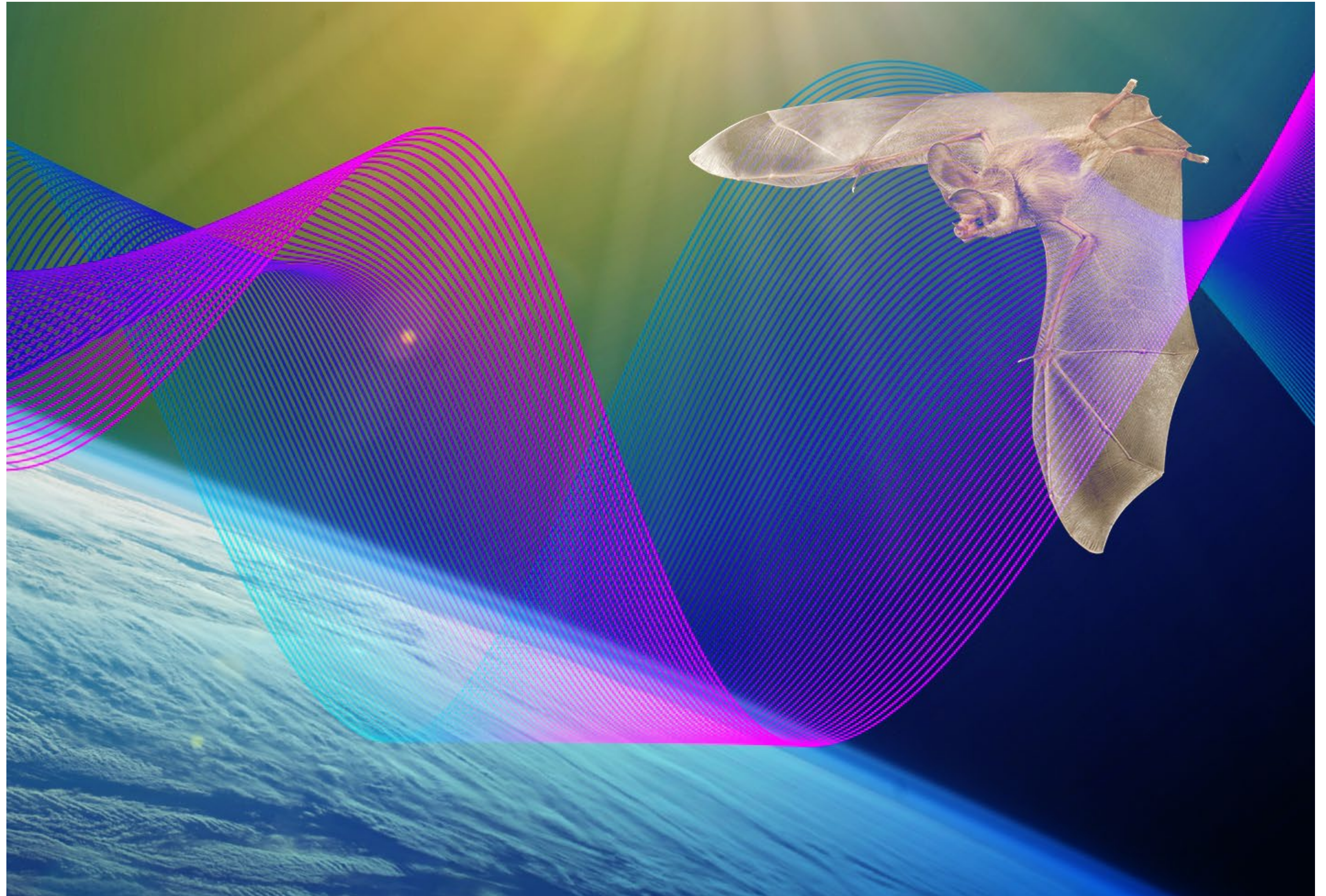
- 3D modeling
- Narrative visualization
- Concept generation



# Bat Babble

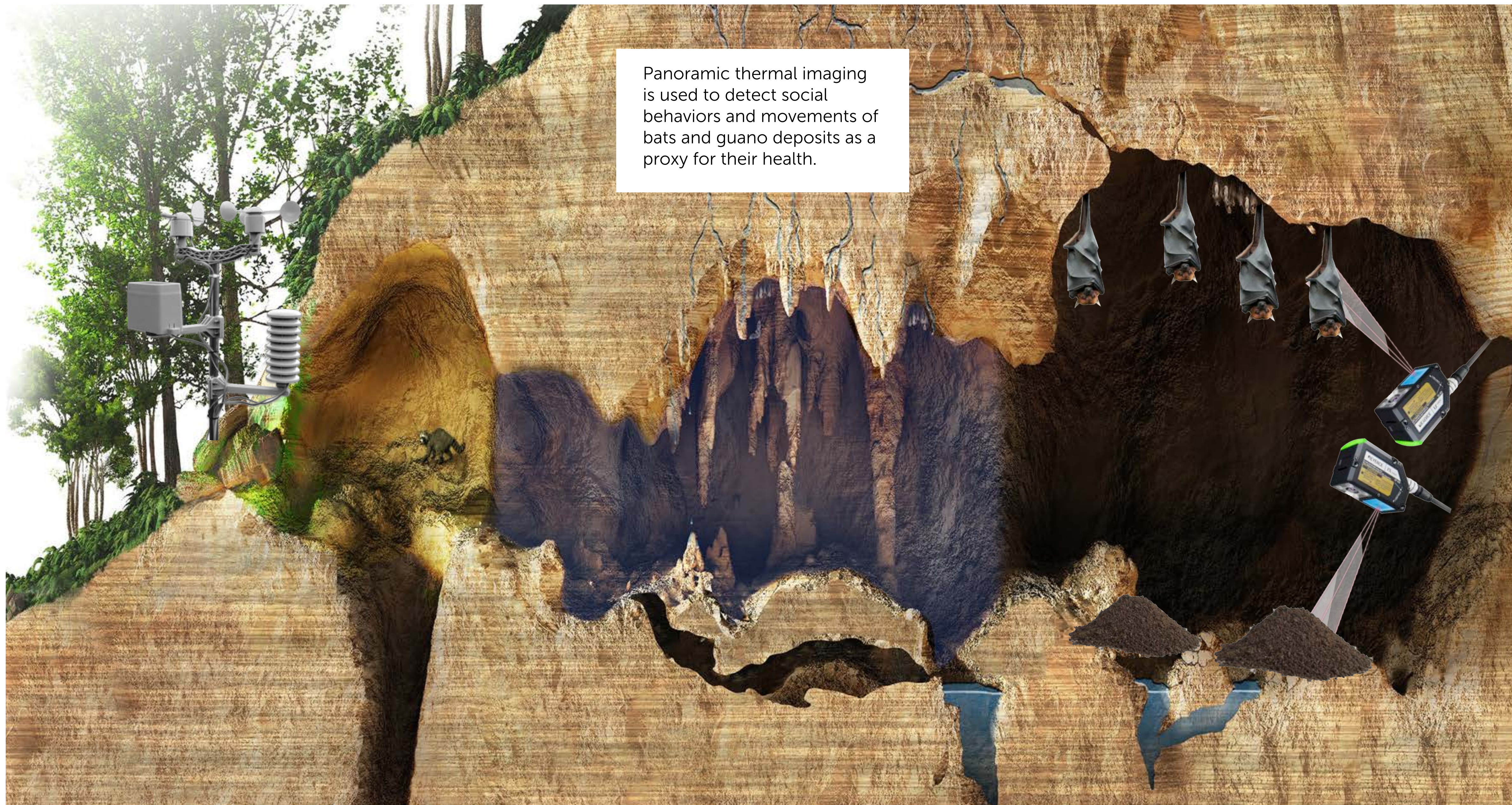
Master of Design  
Capstone Thesis

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.





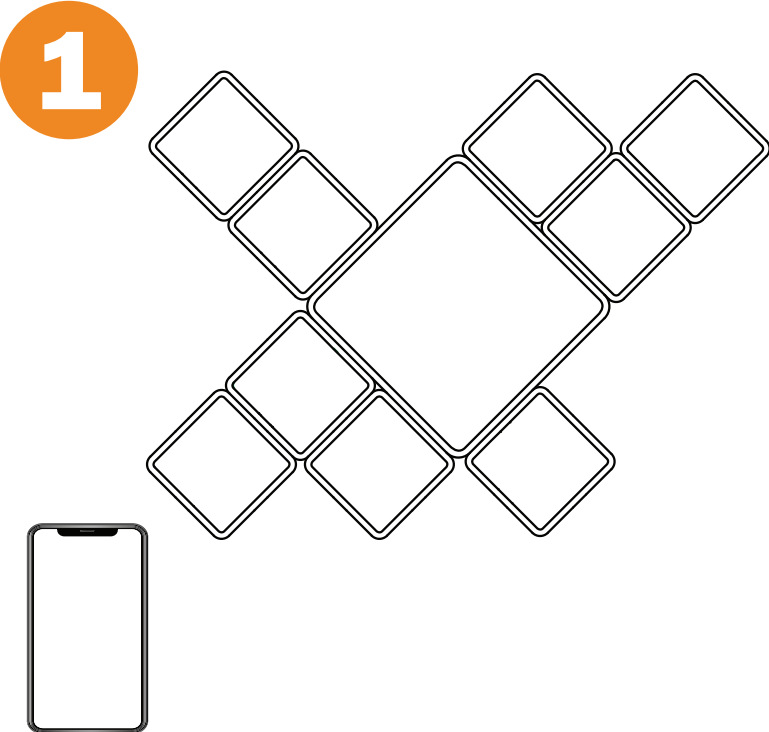
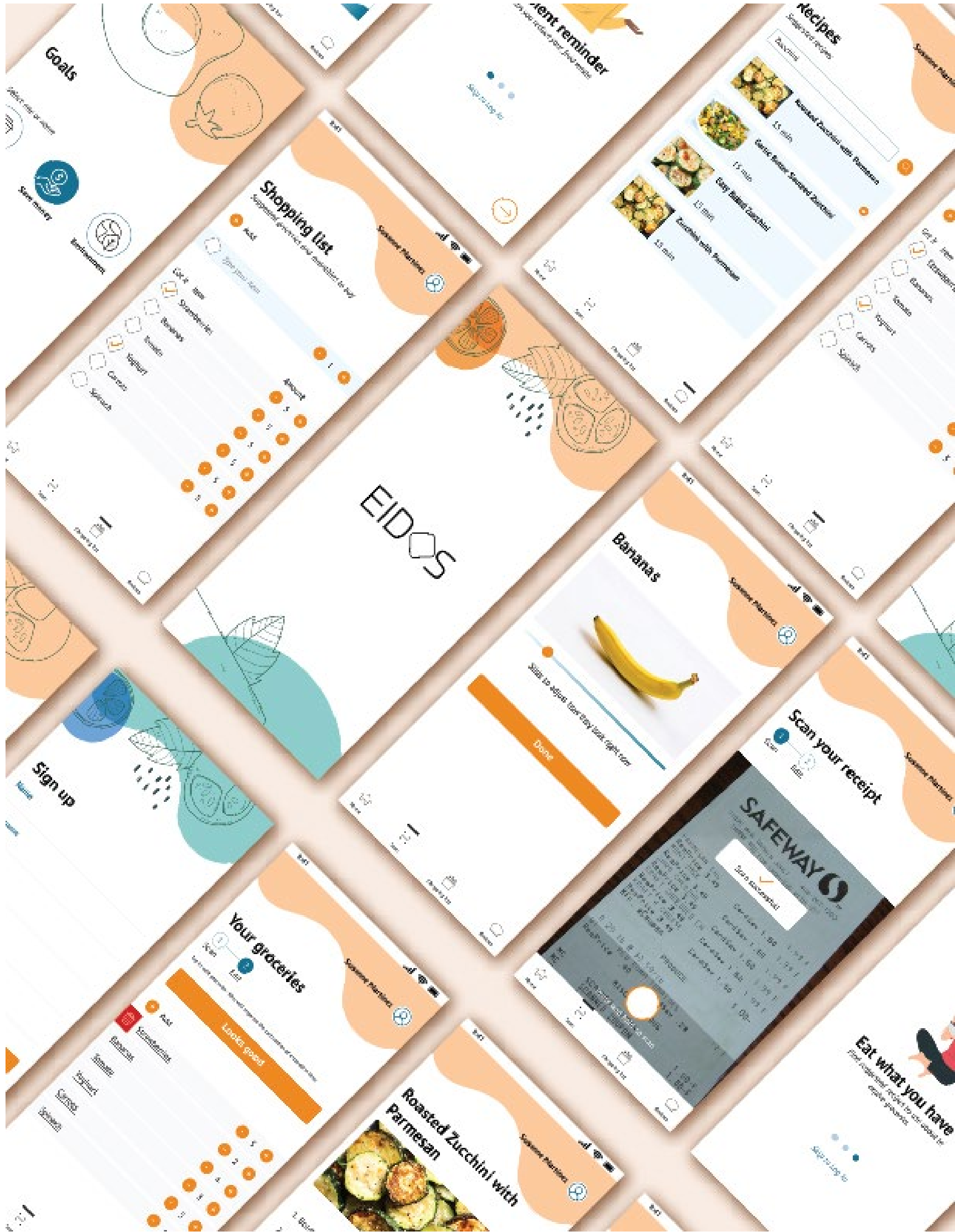
# EIDOS

Reducing Residential  
Food Waste

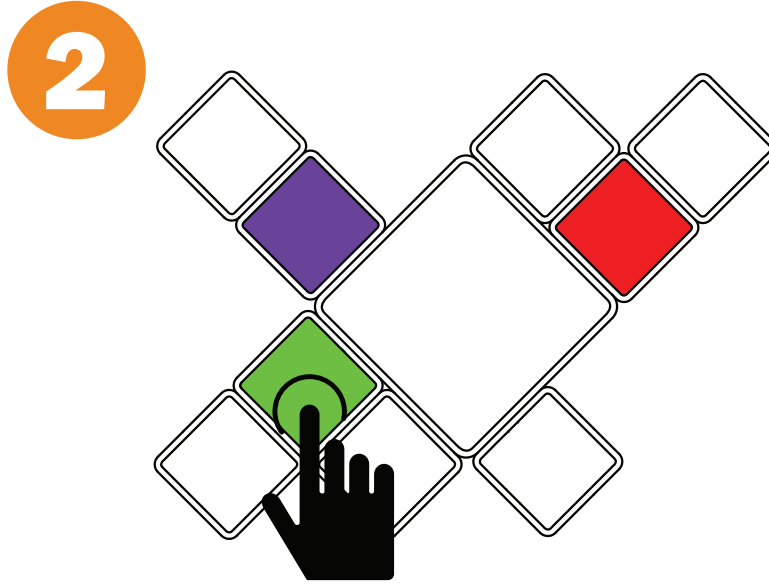
EIDOS helps you use  
up what you have  
and minimize what  
you throw away



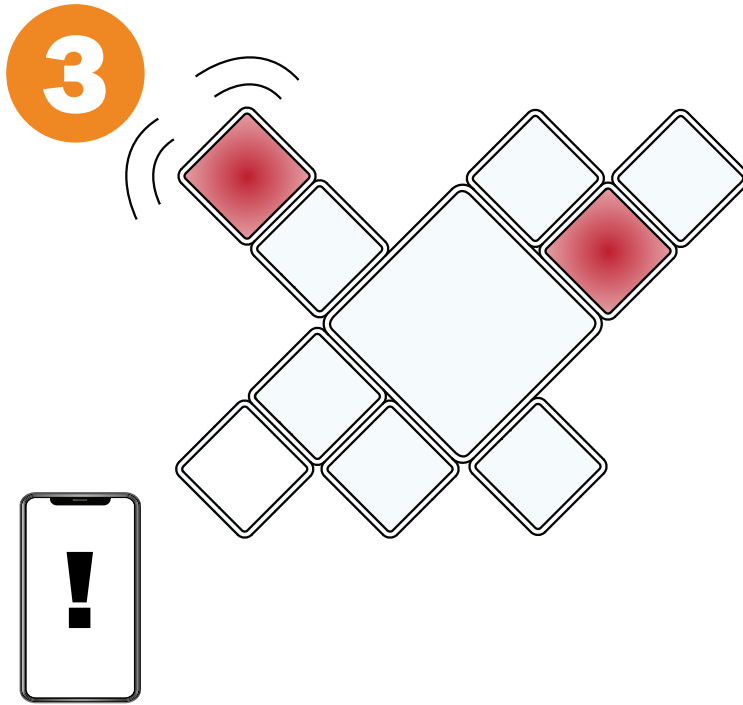




1  
Scan your grocery receipt to let EIDOS know what foods you have at home.



2  
EIDOS reminds you when groceries are about to expire using the dominant food color.



3  
Lights begin pulsating when groceries are expiring soon.



4  
EIDOS creates a suggested grocery shopping list based on your waste habits.



D-speech

Battery

Speaker

D-speech

Battery

Speaker

D-speech

Battery

Speaker

Microphone

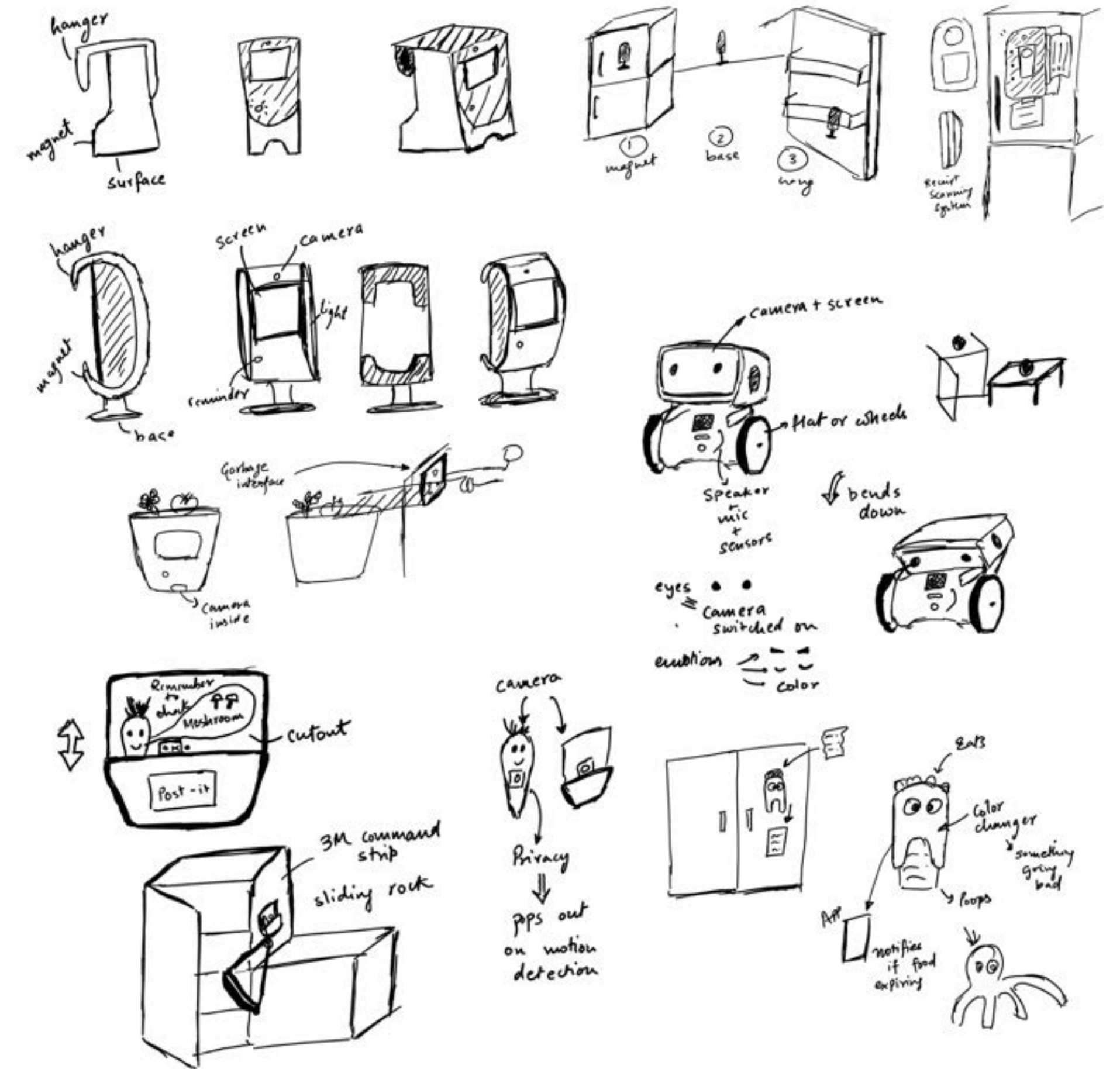
Speaker

Battery

Speaker

Battery

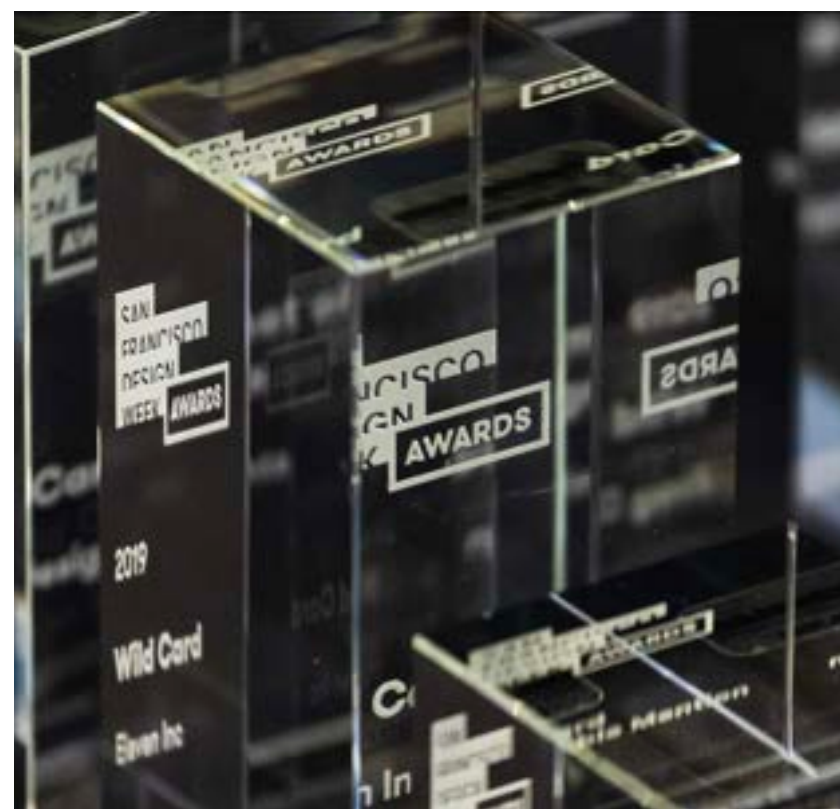
D-speech







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

[www.rolandsaekow.com](http://www.rolandsaekow.com)  
[saekow@berkeley.edu](mailto:saekow@berkeley.edu)  
[LinkedIn/rolandsaekow](https://www.linkedin.com/in/rolandsaekow)