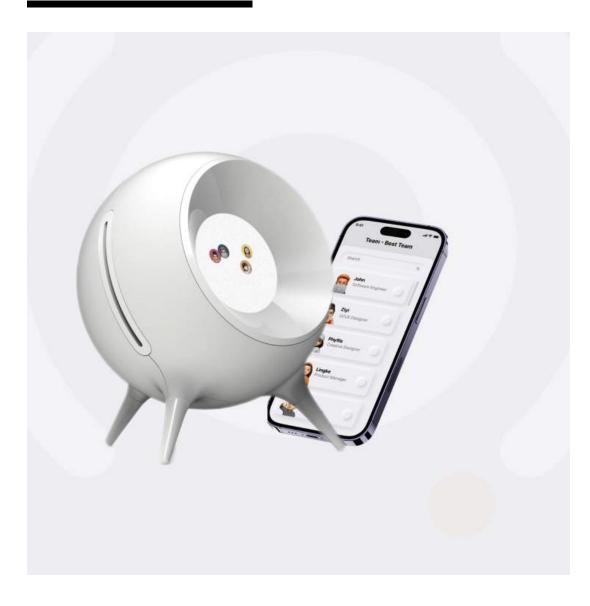




BRAVO



Bravo is a **smart IoT device** designed for remote team members to have fun, **engaging**, **real-time interactions** with each other. It aims to foster the sense of **bonding and belonging** within the team in the virtual space.

OVERVIEW

Empathize

Desktop Research

Competitive

Analysis

Stakeholder

Mapping

Stakeholder

Interviews

Data Synthesis

Persona Mapping

Journey Mapping

Define

Problem Space

Painpoints

Design

Opportunites

Ideate

Divergent Design

Ideas

Supporting Research

Testing & Iterate

Sketching

Lo-fi Prototyping

Hi-fi Prototyping

User Testing

Skateholder

Evaluation



Problem

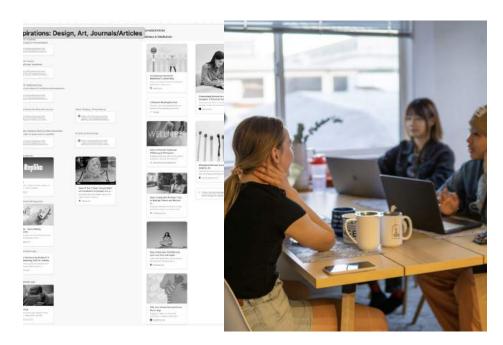
86% of employees who wfh full-time experience **burnout**.

48% remote workers feel as though they have **no emotional support** from their employers.

67% remote workers report **feeling pressured** to be available all the time.

45% employees working remotely due to the pandemic report **working more hours than before**.



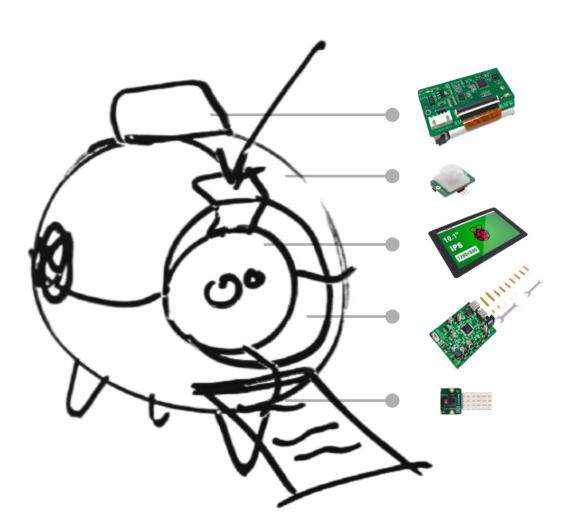


Research

We conducted background research on remote work experiences, burnout, stress and wellbeing, as well as some existing projects that are related to our interest.

We interviewed 6 people from various industries to ask about their work situation and stress management.

CONCEPT



Thermal Printer print note from sender

Motion Sensor motion detection

Touch Screen user interface

Raspberry Pi process

Camera Module 2 image input

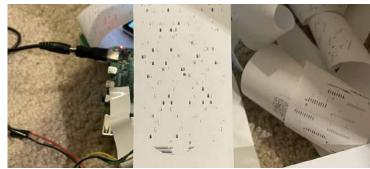
Grounded by the concept of calm technology and minimalism, we decided on using sphere as the form factor and keep the user interaction simple and intuitive. To minimize users' overwhelming experience given the fact that many people have multiple screens or devices, this IoT device emphasizes on making the user flow more automatic.

Users who work from home are encouraged to interact with their colleagues by sending positive notes to each other. In a scenario where user A wants to send kudos to user B, A will first select user B on the screen and insert his hand-written note into Bravo. Scanning and sending will then follow automatically.

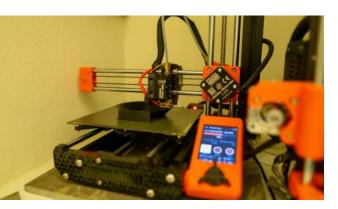
User B will have the note from A automatically printed, and interaction among the team will be visualized on the display screen in real time.

PROTOTYPING



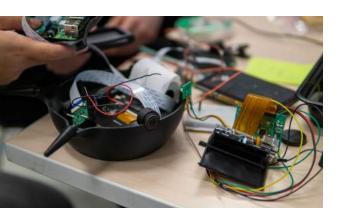


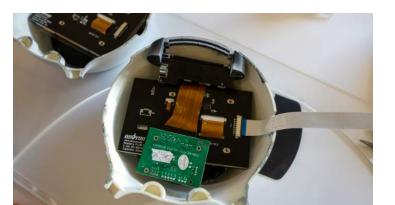












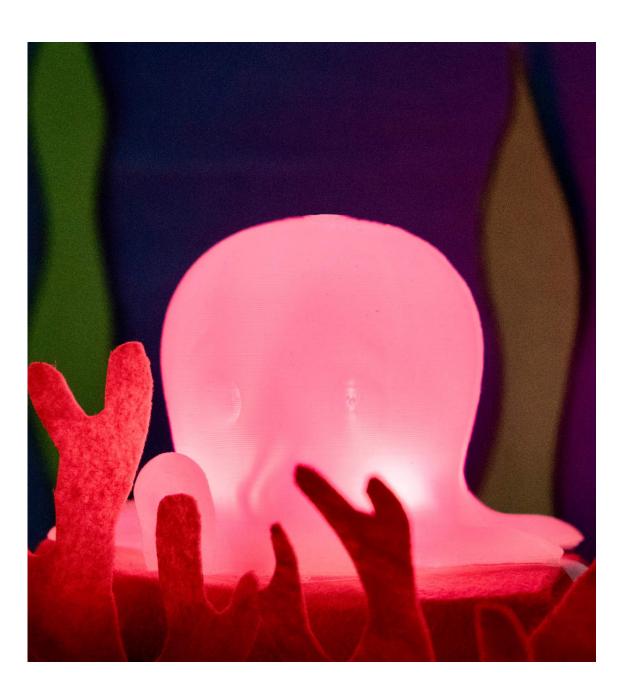






OKTO

Okto is an octopus-shaped, camouflagic bionic robot. As soft robotics, Okto can simulate the way octopus camouflages as a response to danger as part of its resilient and persistent nature.



RESEARCH

Animal Camouflage

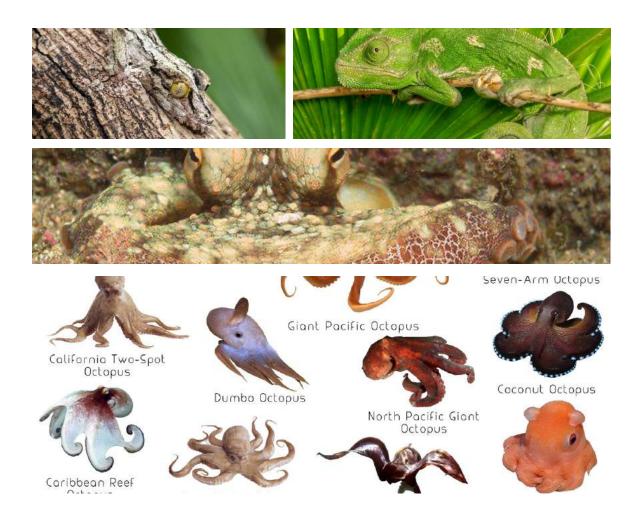
Camouflage is example of an adaption that helps an animal to survive in its environment. Animals utilize camouflage to avoid detection by both predator and prey species.

Octopus Camouflage

Octopus can also camouflage itself by changing its skin texture from smooth to bumpy to bizarrely spiky.

Octopus

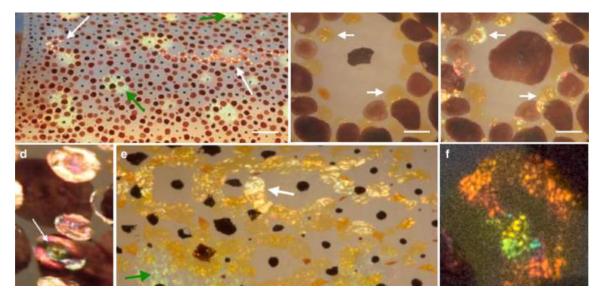
An octopus is a soft-bodied, eight-limbed mollusc of the order Octopoda. They have squishy bodies that can squeeze through tiny cracks; eight sucker-covered arms that can be regrown;



BRAINSTORM

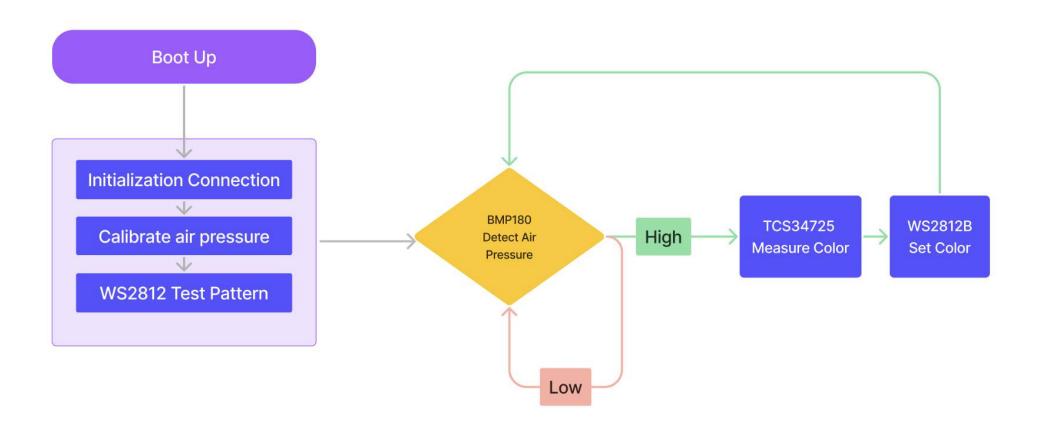
How Octopus Camouflage

Octopuses can shift hues because they have chromatophores — tiny, colorchanging organs that are dotted throughout an octopus's skin. At the heart of each chromatophore are tiny sacs filled with nanoparticles of a pigment called xanthommatin.

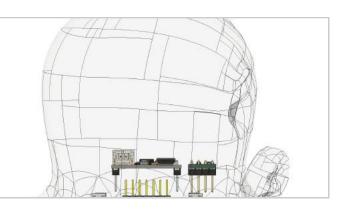


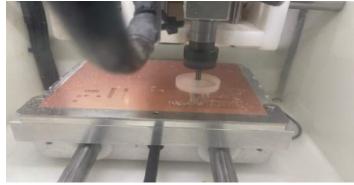
Inspired by the Chromatophores of octopi, we use RGB sensors to detect colors. To simulate the process of octopus detecting and changing color.

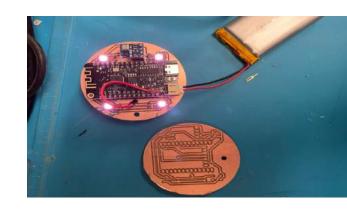
SYSTEM

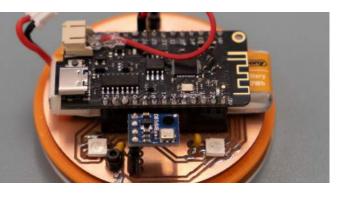


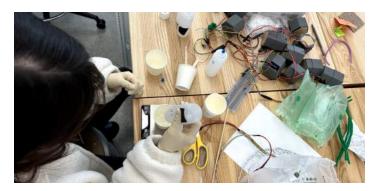
PROTOTYPING











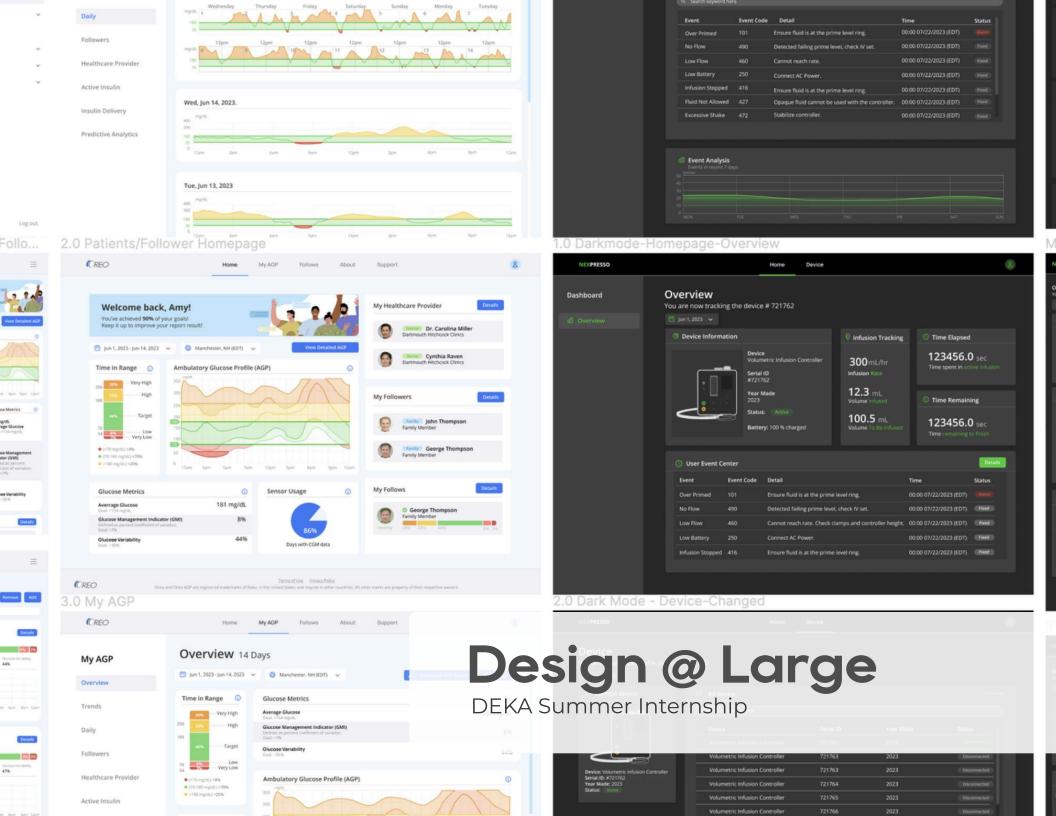










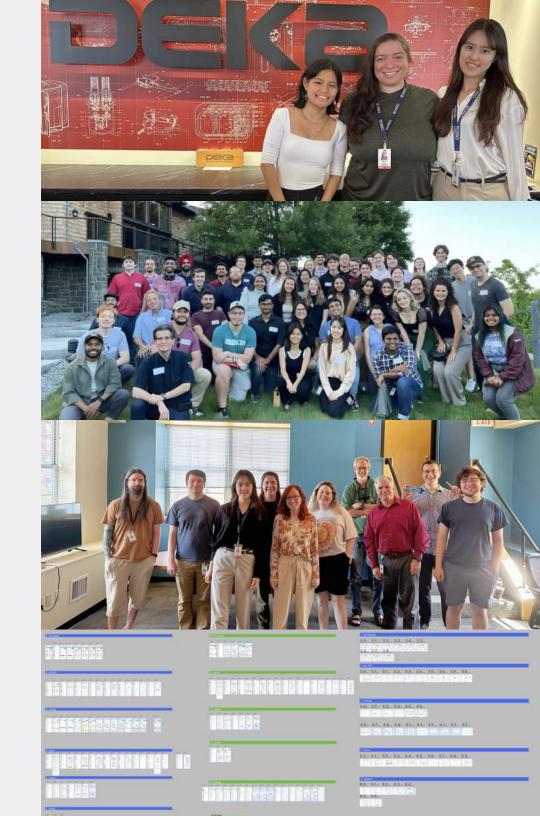


DEKA INTERN

About

During the summer of 2023, I undertook an on-site internship in UI/UX Design at a MedTech company - DEKA Research & Development. My primary role encompassed the formulation of dashboard UI/UX designs for the diabetes AGP report and volume infusion controller. During this internship, I executed comprehensive market and user research initiatives, contributing to an enriched understanding of these domains. This experience notably augmented my aptitude for collaborative work. I extend my profound gratitude to all my colleagues at DEKA for their invaluable support and guidance throughout this endeavor.

Due to the NDA, more detailed content has been protected. Thank you for your understanding.





RESEARCH

Autism spectrum disorder (ASD) is a neurological and developmental **disorder that affects how people interact with others, communicate, learn, and behave**.

Observation

The behavior and interactions between autistic children and adults (family, caregivers, teachers)

Interview

Pain points and design opportunities in the flow of child-therapist interactions.

Related Work

Current solutions are mainly used in labs, with little research adapting them to a therapist's typical workflow.

Future Research

Making design decisions based on insights and data from the therapists.



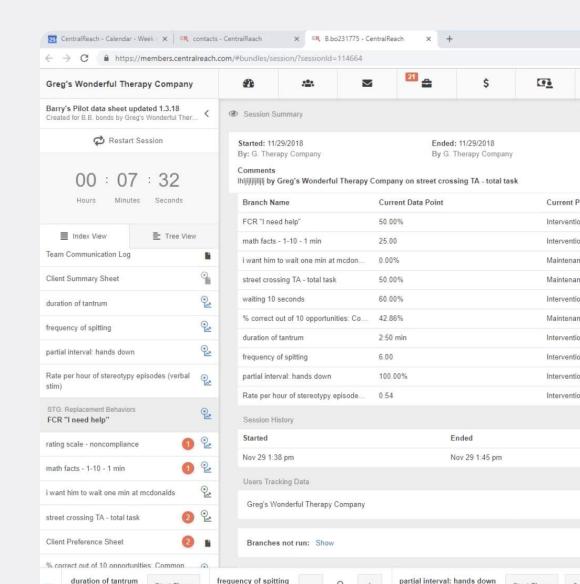




Future Work

PROBLEM

Current ways of documenting data during therapy sessions can interrupt the flow of child-therapist interaction, as therapists frequently pause their engagement in the naturalistic teaching to capture vital data, either on paper or a tablet, causing distractions for both the autistic child and the therapist. The constant need to look at datasheets and immediately note down behavioral data can greatly burden the therapist, diminishing the quality of the therapy session.



Solution

APO aim is to create an augmented reality (AR) product tailored for data recording in naturalistic teaching. This product is intended to streamline the tasks of therapists and enhance the overall efficiency and engagement of the treatment process.



Before Information preparation BCBA-Driven App

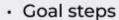


During Completing the goals AR Glasses



After View therapy feedback BCBA-Driven App

- · Client information
- Goals
- Prompt



- · Prompt
- Time
- Attempt

- Client information
- Goal status
- Time
- Attempt
- notes
- Summary

PROTOTYPING











RESUME

ZIYI ZHOU

EXPERIENCE

UI/UX Design Internship | DEKA Research & Development

(05/2023 - 08/2023) Manchester, Boston Metropolitan Area, NH, United States

- Led the design of the AGP (Ambulatory Glucose Profile) dashboard website and mobile UI prototypes, user flows, UI design system guidelines conducted over 50+ user testing, catering specifically to diabetic patients and their healthcare providers. Collaborated closely with crossfunctional teams at Deka's AWS Cloud, including Software Engineers and Product Managers, to effectively align design objectives with business goals and technical feasibility.
- Designed the dashboard UI for the Volume Infusion Controller on web and mobile platforms.
 Utilized anima tools to rapidly package front-end HTML&CSS code for delivery to engineers, resulting in a 2X increase in project speed.

UI/UX Design Internship | Capgemini

(07/2022 - 09/2022) Remote

- Designed the UI of the logistics management project for Capgemini's customer "Easyhome".
 Led 10+ features across different platforms (website, mobile). Resulting in the release of 70+ design processes, UI prototypes, and visual effects optimization.
- Created the UI design system guideline, 30+ prototypes and visual mockups which can be applied across different internal products.

Product Design Internship | Antai Financial

(06/2021 - 08/2021) Arcadia, Los Angeles metropolitan area, CA, United States

- Increased product sales 15% by designing the website UI prototypes of the company's investment products.
- Conducted a usability test with 20+ interviews to validate the proposed design and had fast
 iterations with the teams. Implemented competitive analysis and user research to improve user
 retention rate by 35% after redesigning the user flow.

EDUCATION

University of California, Berkeley

(08/2022 - 12/2023), Berkeley, CA, United States

Master of Design in Human Computer Interaction (STEM)

ArtCenter College of Design

(09/2018 - 04/2022), Pasadena, CA, United States Bachelor of Science in Interaction Design (STEM)

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