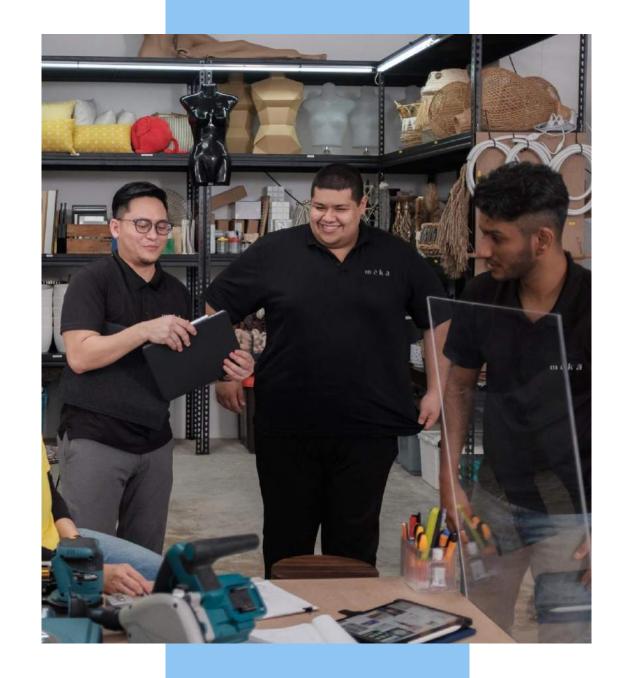
# mēkā

a product design agency



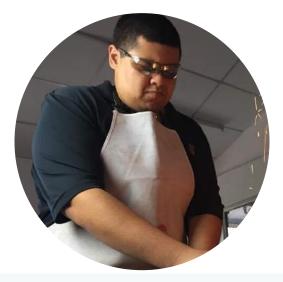




# We are a product design agency specialised in medical device design and development.

(but we build other things too.)

#### Our Team



Hisham Bary Head of Engineering

Connect with me on LinkedIn



Shafiq Bashir Founder & CEO

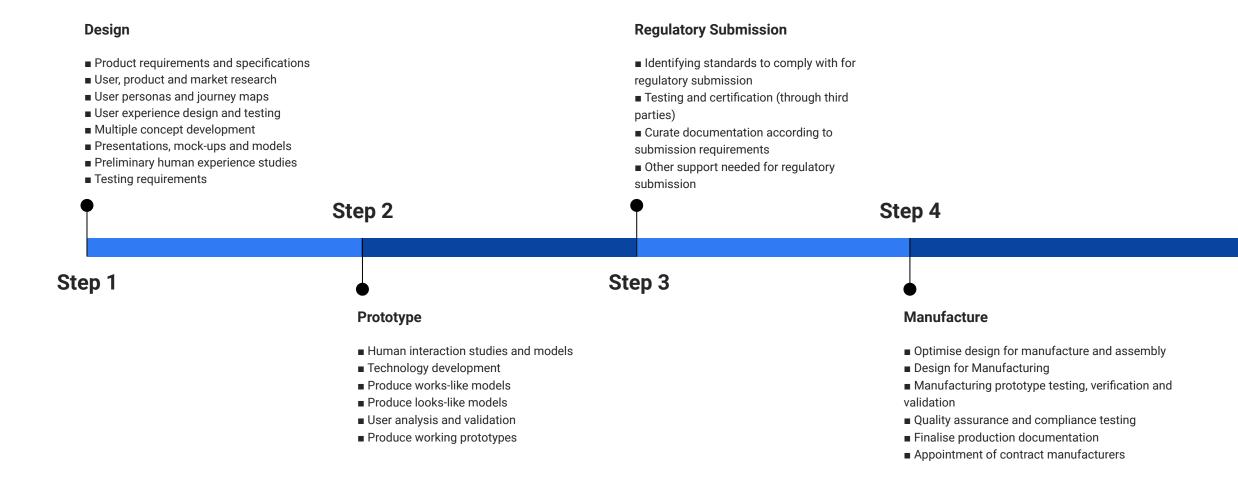
Connect with me on LinkedIn



Muhammad Junaidi Head of Design

Connect with me on LinkedIn

#### What we do



#### **Our Process**

1 DESIGN THE RIGHT THING 2 DESIGN THINGS RIGHT

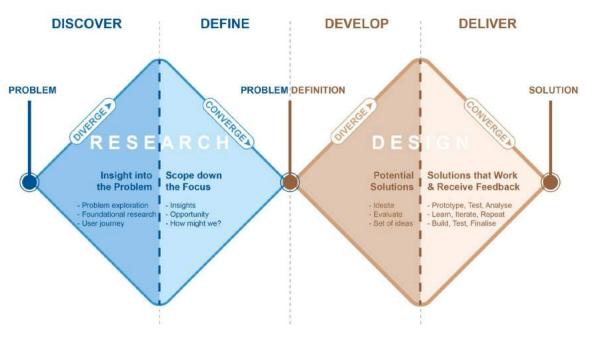


Image inspired by Digi-ark

### Why mēkā?

Controlled risk

Experienced team

Iterative process

\*\*\*\*

Excellent client communication

#### Some of our capabilities

In-house

Out-of-house

Industrial Design

Mechanical Design

SLS 3D Printing

MJF 3D Printing

PCB Design

Automation Design

Injection molding

Multi-axis CNC Machining

FDM 3D Printing

Waterjet Cutting

Metal Fabrication

Acrylic Fabrication

Laser Cutting

Wood Fabrication

Assembly

Quality Assurance

#### Some of our clients











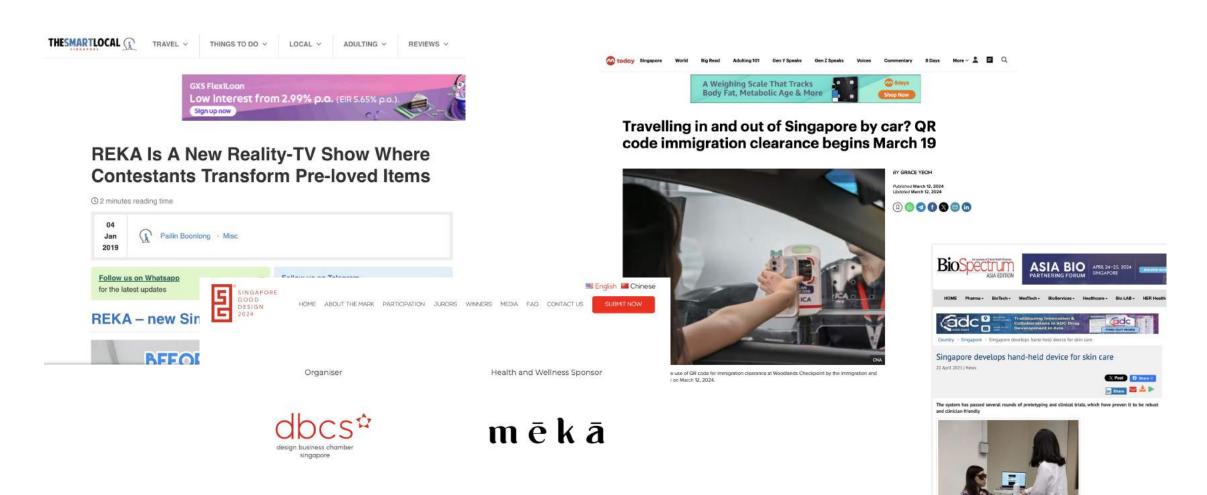








#### Media Coverage



#### How we collaborate

#### Fee for Service

You pay us for a clearly defined scope of work. We'll solve your problems. You'll own all the IP.

#### Licensing

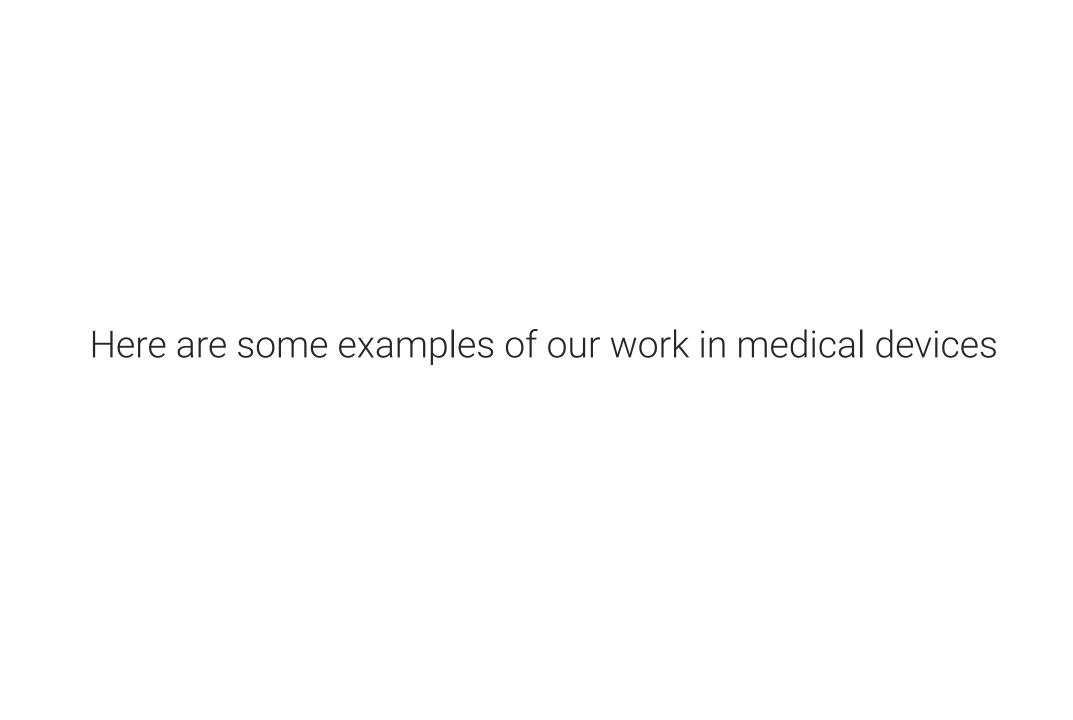
We'll design and develop the products and components.
You'll pay us royalties and buy essential components from us.
We own all the IP.

#### Co-Creation

If you can identify a problem but don't have the team to explore solutions. We can help. We will co-own the IP together.

# Spin-offs and Joint Ventures

If you are an expert in your field and can identify an opportunity but you need a team, we'd love to collaborate on a startup.



## Wallaby Eye Scanner









Internal Structuring

Idea Sketch

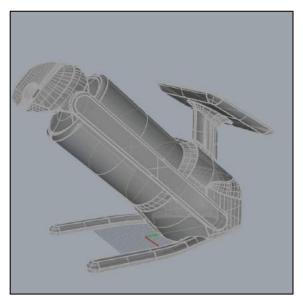
CAD Modeling

Final Prototype

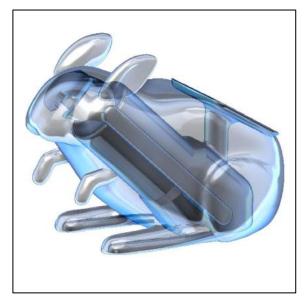
Wallaby is an affordable fully-automated eye scanning solution designed and built for TeleMedC.

10 pieces small run for evaluation

## Mama Rabbit









Reverse Engineering

Idea Sketch

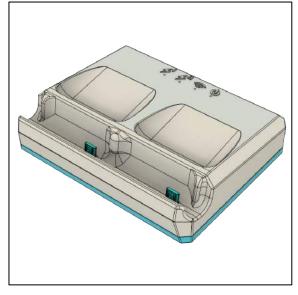
CAD Modeling

Manufacturing

Mama Rabbit is a device used to conduct comparison studies with the Wallaby.

# Respiree







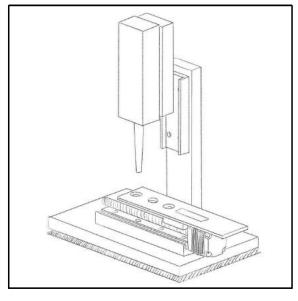


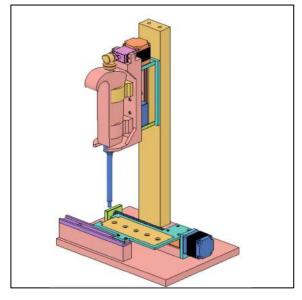
Electronics CAD Modeling Prototyping Manufacturing

June 2023: 2nd run of 300 pieces with testing and certification done by tüv-süd.

# Sample Processing Robot









Problem Research

Idea Sketch

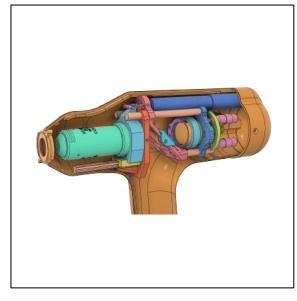
CAD model

Final Product

Being used to process nearly 100 samples a day. September 2023: new version in development.

## Helioderma Version 1









Concept Sketch CAD Machining of parts Final Prototype

Validation completed. New version developed to address ergonomics issues.

## Helioderma Version 3









Form Exploration

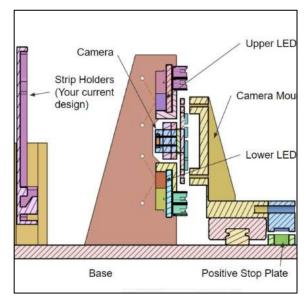
User Testing

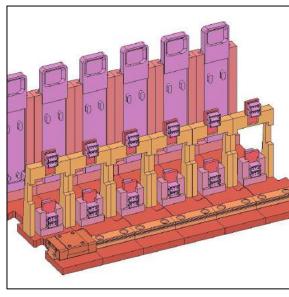
CAD model

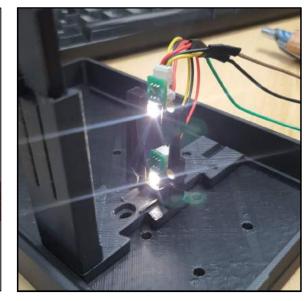
Manufacturing

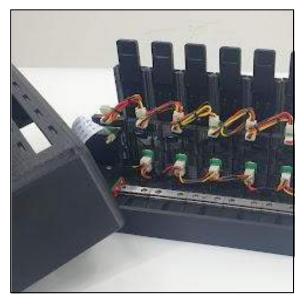
Being used in hospital trials.

## Cortisol tester









Initial idea

Electronics and 3D Design

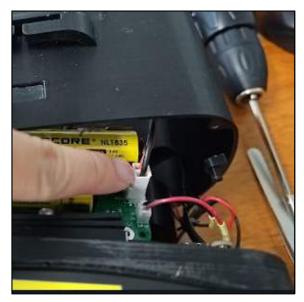
Integration and testing

Fully functional prototype

Being used in data gathering and validation studies.

## Virtual Reality Headset for pre-surgical use







Project Planning

Electronics and software

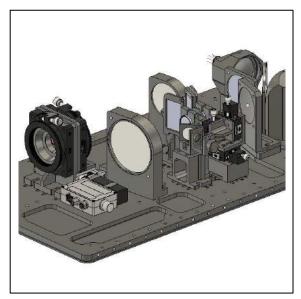
Hardware build and testing

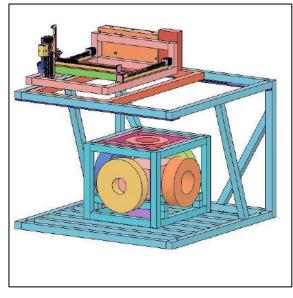
Fully functional prototype

Being used in hospital trials.

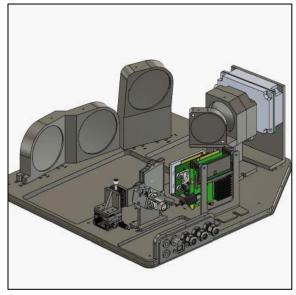
Here are some of the other things we build

# Jigs and Fixtures









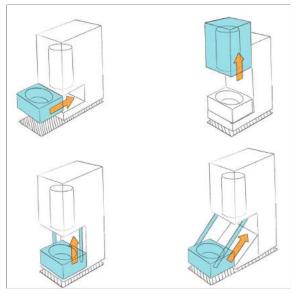
Optical Mounts

Electromagnet Probe Fixture

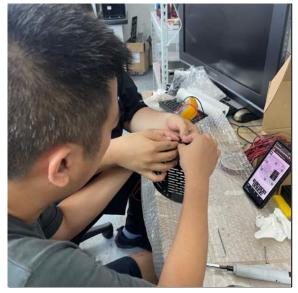
Bone Clamp

Optical set up

# Food Ingredient Analyser









Interaction exploration

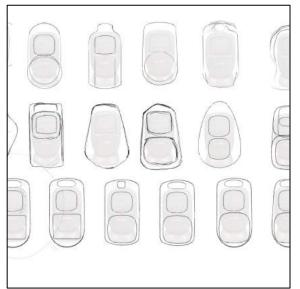
Prototyping

Assembly

Final product

September 2023: mēkā assisting in procurement, manufacturing and assembly.

## QR Code scanner









Form exploration

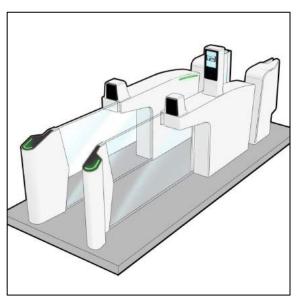
Instructional Graphics

Test fit casing

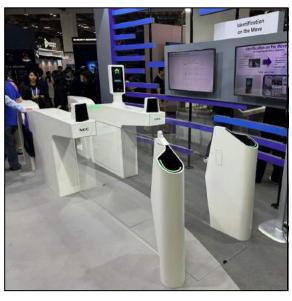
Final prototype of the casing

September 2023: Being manufactured and deployed at land checkpoints in Singapore.

## Identification on the move







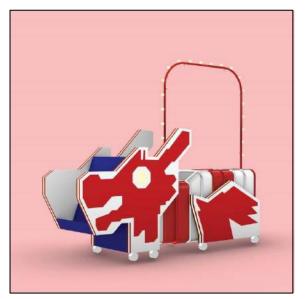
Concept Render

Dimensional Drawings for Fabrication and Assembly

Fabrication

Full installation for exhibition

## Live Station Carts









Design and Engineering

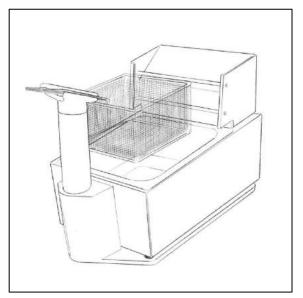
Fabrication

Installation

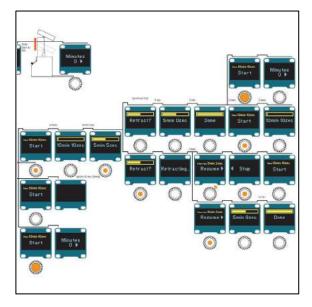
Deployment

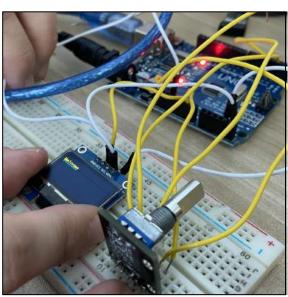
December 2022: On exhibit

## Automated Deep Fryer









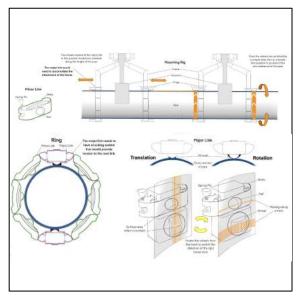
Idea Sketch

Prototype from CAD model

User Interface Logic

Electronics

# Pipe Scanning Rig









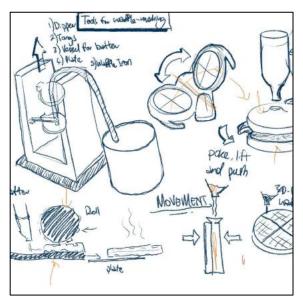
Idea Exploration

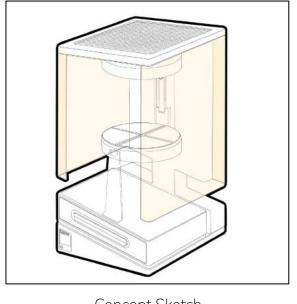
CAD Modeling & 3D printing

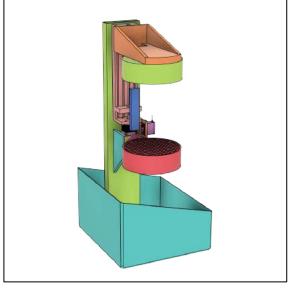
Prototyping

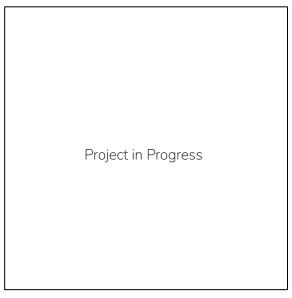
Working Prototype

## Automated Waffle maker



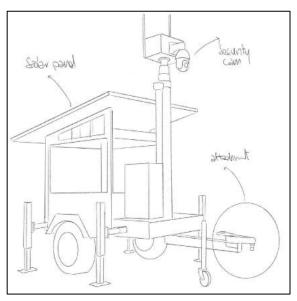


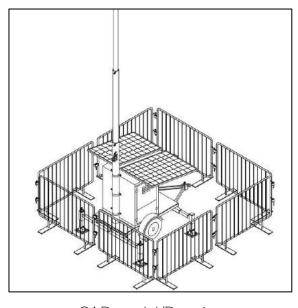




Idea Sketching Concept Sketch CAD Modeling Prototype

## Mobile Security Trailer



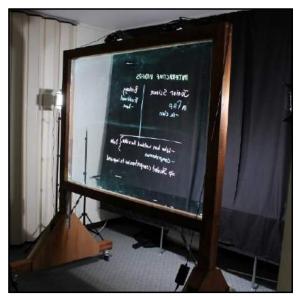






Concept Sketch CAD model/Drawing Procurement Final Product

# Lightboard









Existing Product

Electronics and 3D Design

Product Render

Final Prototype

~20 units sold in Singapore. Product discontinued.

## Jewel "Breathe" Installation



Wood and Polycarbonate



Full installation at night



Full installation in the day



Integrated lighting and electronics

# mēkā

a product design agency

Think we can help?

contact@mekainnovation.com

Book a consultation