PORTFOLIO

GEORGE KONTOS

2025

INDUSTRIAL DESIGN

ABOUT ME

I’m a Master’s graduate student in **Integrated Product Design** at TU Delft with a background in Industrial Design from TU Eindhoven. My focus is on **physical product development**, where I explore how form, interaction and materiality shape intuitive and meaningful user experiences.

I design products that improve everyday experiences and support meaningful interaction between people and the objects they use. These products demand a focus on ergonomics, usability and the way people naturally interact with objects. By applying principles of tangible interaction, I aim to create solutions that feel intuitive and engaging.

Products should communicate their function through form and affordance, allowing users to understand and use them instinctively. I design for seamless connections between people and products, where users can touch, feel and manipulate objects to interact with the world around them.

My process is hands-on and iterative. I use both physical and digital tools, combining problem solving with prototyping methods such as sketching, CAD modeling, and 3D printing. This allows me to turn abstract ideas into functional, testable outcomes.

EXPERIENCE

MSc Integrated Product Design
Delft University of Technology
2023-2025
BSc Industrial Design
Eindhoven University of Technology
2020 - 2023

Product Design Internship - Master Thesis
Philips Avent
Feb 2025 - Sep 2025
Product Design Internship
Manometric
Sep 2022 - Feb 2023

MASTER'S THESIS
TU DELFT

FEB 2025 - AUG 2025

TODDLER TRANSITION CUP

Designing a Toddler Bottle System
to Support the Developmental Transition
to Open Cup Drinking

PHILIPS

THIS PROJECT IS UNDER EMBARGO,
because it is currently patent pending!

I can't share too much details, so feel free to reach out to me to learn more about my design process.

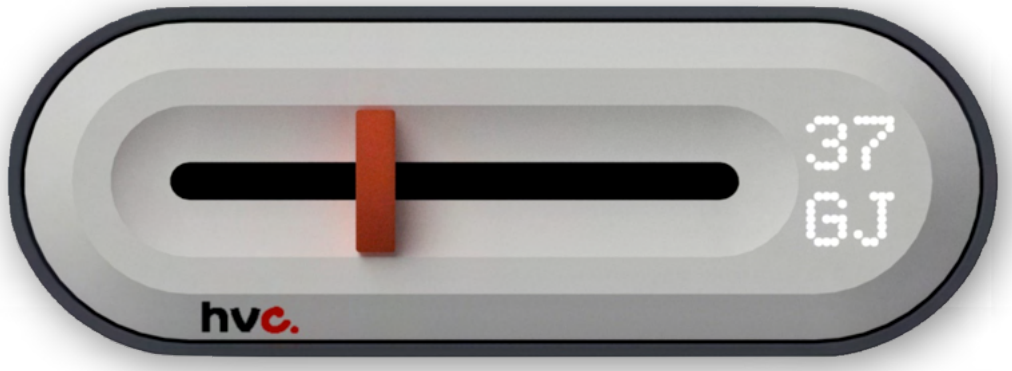
You can check my video demostrator here:
https://youtu.be/LSONwbzioJU

DESIGN PROJECT
TU DELFT

SEP 2023 - JAN 2024

INTER-THER-

ACTIVE MOSTAT



Bridging user experience & sustainable energy management

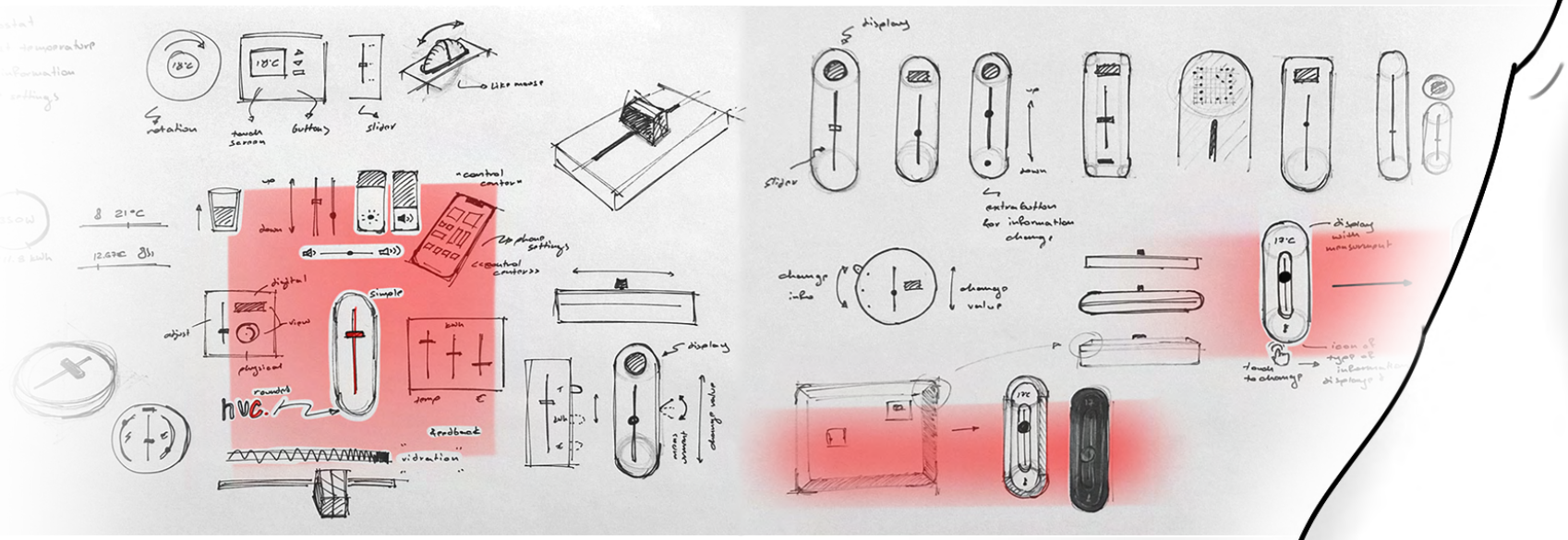
hvc.

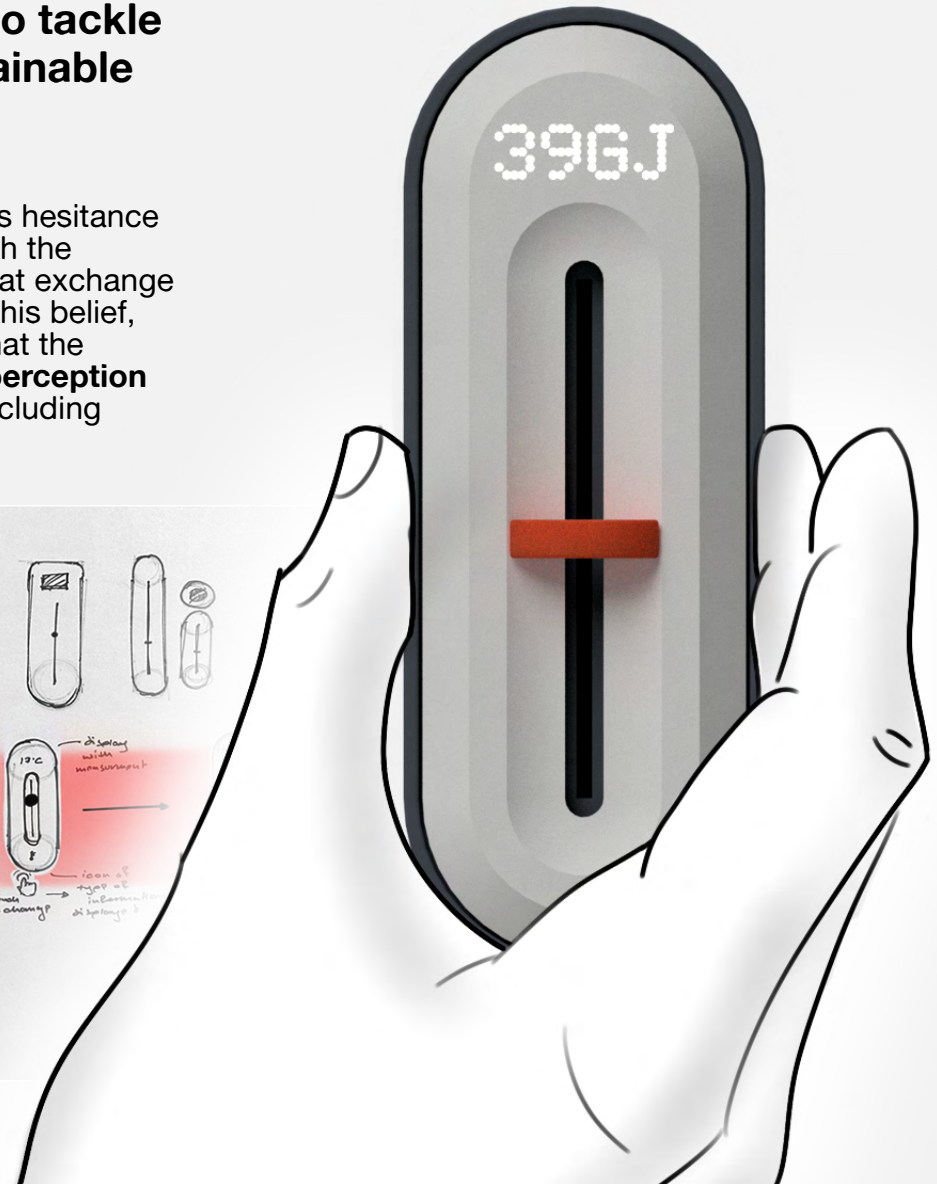
RESEARCH & IDEATION

In collaboration with HVC Group, the objective of the project was to tackle the challenges in public perception hindering the adoption of sustainable energy solutions.

The HVC Group, committed to steering society towards a sustainable future, has been at the forefront of replacing conventional heat sources with eco-friendlier **district heating** systems. Despite their progressive vision, there has been a noticeable reluctance among the general public to embrace these new systems.

The prevailing assumption attributed this hesitance to technical complexities associated with the Delivery Set, a key component in the heat exchange process of district heating. Contrary to this belief, our comprehensive research unveiled that the primary obstacle was rooted in **public perception** and trust towards energy companies, including HVC.

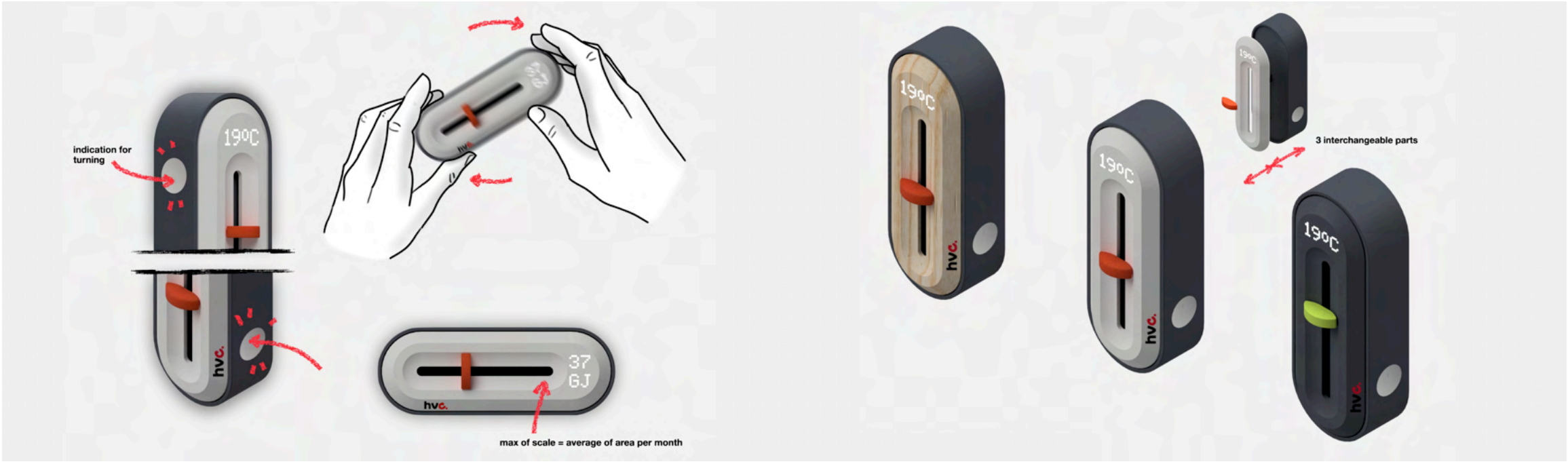




CONCEPT DESIGN

The approach was to create a product that resonates with HVC's visual and functional identity, and in doing so, create a positive and approachable image of the company. The thermostat, characterized by its simplicity, incorporates design principles for **intuitive usability**. The most notable feature is the **linear vertical slider**, which breaks away from conventional rotary designs, offering a more engaging and tangible interaction for the user. This slider not only adjusts the temperature but also visually symbolizes the magnitude of energy consumption, much like the rising level of water in a glass.

A pivotal aspect of our design is the integration of **energy management** systems within the thermostat. This integration enables a rotational functionality of the device, displaying vital information such as current temperature settings, daily energy usage in gigaojoules, and the corresponding financial costs in euros. The design maintains its simplicity while allowing the slider to serve a dual purpose: as a temperature control and as a graphical representation of energy consumption data.



DESIGN INTERNSHIP
TU EINDHOVEN

SEP 2022 - FEB 2023

WRIST SPLINT PA12

Redesign of Manometric wrist splint with SLA 3D printed PA12

manometric

REDESIGN GOAL

The aim was to create a wrist brace that support and protection for wrist arthritis.

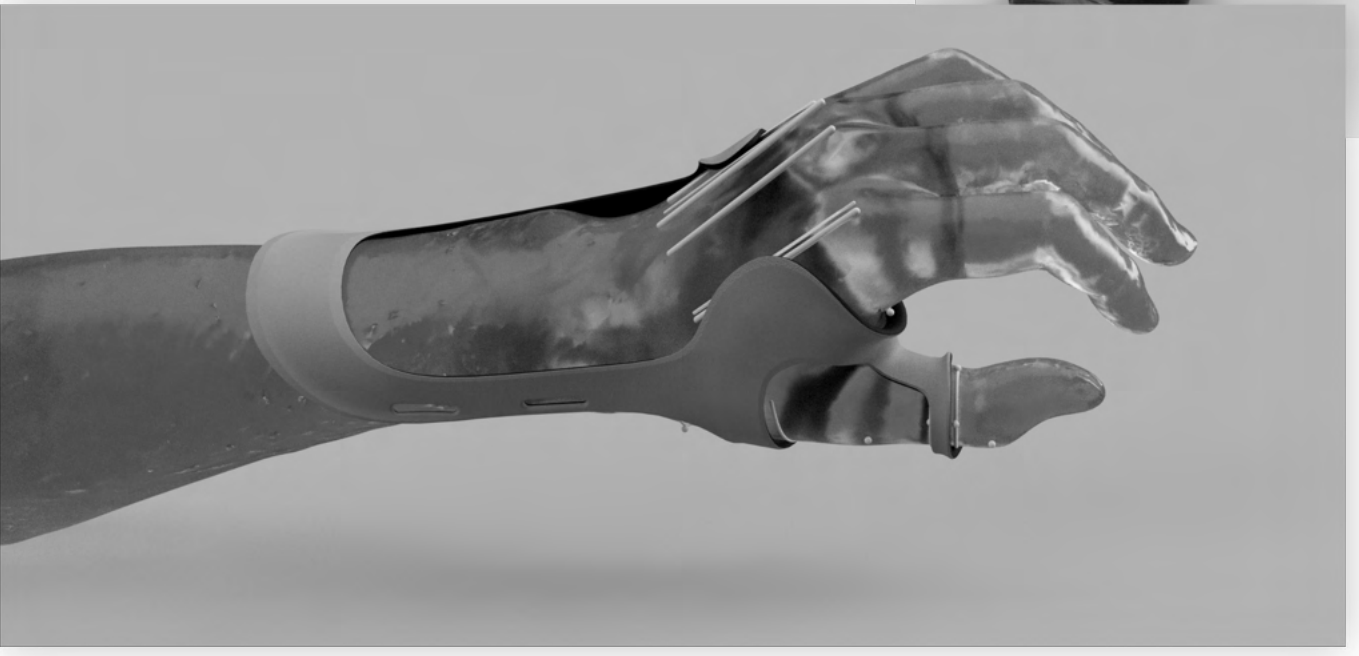
Key challenges included enhancing comfort for sensitive skin and creating a suitable design for Manometric's proprietary 3D scanning technology and a durable built made out of 3D printed PA12.

One significant challenge encountered was addressing the discomfort experienced by elderly clients with delicate skin. Traditional Velcro straps often led to skin irritation and were prone to damage.

I explored various design possibilities through **sketching** and **3D models**. These concepts were refined into digital prototypes, visualizing potential solutions for the Velcro loop issue. These prototypes underwent tensile strength assessments and comfort trials with clients, to ensure durability and user satisfaction.

CONCEPT DESIGN

The project required also the integration of the design with the company's proprietary **3D scanning technology**. This technology was pivotal in customizing the brace to each patient's unique hand structure, making it a perfect fit. The 3D model developed was created using **Grasshopper 3D** and **Rhinoceros 3D** to be compatible with Manometric's unique scanning process.



The final design of the Wrist Splint PA12 notably resembled Manometric's existing AIR BRACE™ line, showcasing its successful integration with the brand's aesthetics. A custom-designed Velcro strap was developed in **collaboration with clients**, managing a balance between comfort and stability.

Overall, this project enhanced my design and engineering skills and provided valuable insights into the practical aspects of product development in orthopedics and client testing.

MY WEBSITE

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