MARCH 2025 EDITION

Industrial Design Portfolio

FRIDA NECKMAR

HEJ
HELLO
HI!

Hi! I'm Frida—a hands-on designer fueled by curiosity, bringing ideas to life through prototyping, problem-solving, and collaboration. With a background in industrial design and a passion for physical experiences, I thrive at the intersection of creativity and practicality.

Growing up in a family-run flower shop, I learned early on how to combine business, craftsmanship, and aesthetics—an approach that still shapes my work today. Inspired by nature, human connection, and intuitive design, I aim to create products that are not only functional but truly valued by the people who use them.

I'm always ready to take on new challenges!

FRIDA NECKMAR

Tygelsjövägen 63, 218 74 Malmö, SWEDEN
fridaneckmar@gmail.com
+46708 25 10 40

Tools

SOFTWARE	InDesign, Illustrator, Photoshop, PowerPoint, Fusion360, Blender, RhinoCeros 3D, KeyShot, Sketchbook, Meshmixer, Solidworks, Figma, Premiere Pro	
DRIVERS LICENSE	B license since 2017	
LANGUAGE	Swedish	- native
	English	- fluent
	Spanish & Italian	- basic

Educatuion

2023 - present	Master's programme in Advanced Product Design *Umeå Institute of design, Umeå University, Sweden*
2019 - 2023	Bachelor of Industrial Design *Faculty of engineering, Lund University, Lund, Sweden*
2014 - 2017	Economics, Enterprise and Business *Procivitas Privata Gymnasium, Malmö, Sweden*

Internships

March 2022 - Aug 2022	Tatic Design Studio, Milan, Italy *Product Design, Industrial Design*
Sept 2022 - Jan 2023	Philips, Amsterdam, Netherlands *Product Design, Groomming & Beauty*

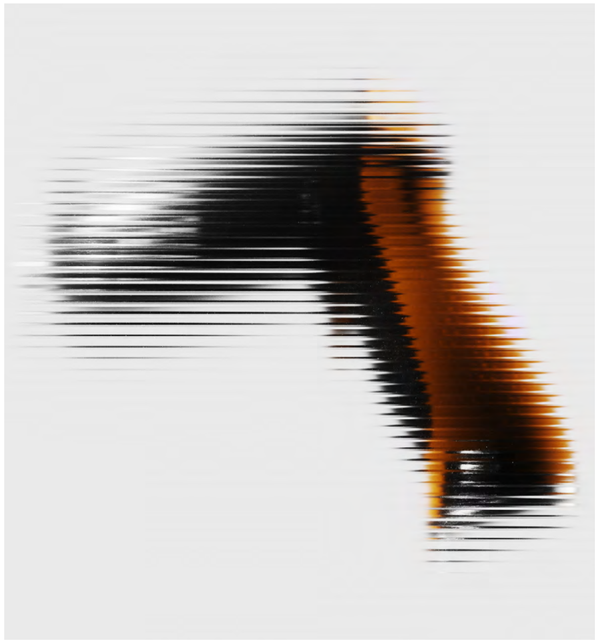
Work

Summer 2024 *Fulltime time*	Lind Art & Technology *Accessory/CMF designer, Prototyper & Product tester*
2017 - 2023 *Full-time & part-time*	Lotta Jewellery *Sales & Store manager, Handyman, Graphic Design, Jewellery Design, Decorator*
2013 - 2023	Freelance Blomsterpigan *Decorator, graphic & product design*
2014 - 2023 *Part time*	Restaurants: Bloom in the Park, Namu, Flädie Mat och Vingård, Nyströms Gastronomi, Prosecco Sweden, Anthony's (Austria) *Waitress, events & weddings*

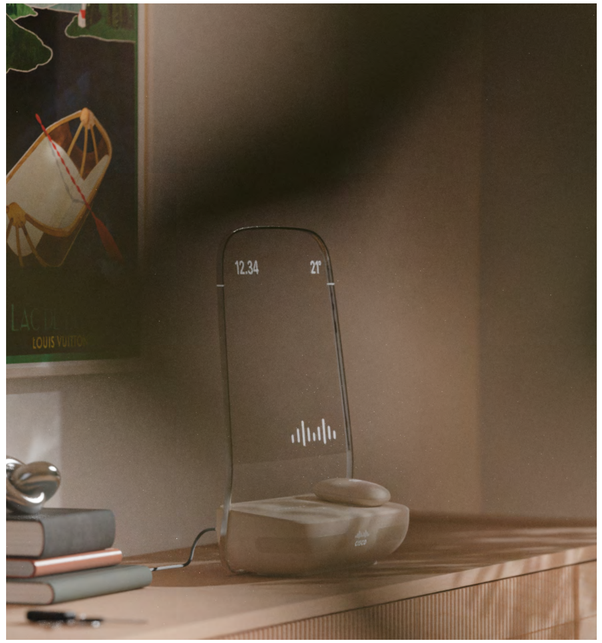
I happily send references and letters of recommendation on demand

MIRA

RE-SCREW



SENTIO



AUTOCARE

GROUP PROJECT 2024

Frida Neckmar, Silvester Koessler,
Xiaoyu Yu , Luisa Ebeling

Learnings

- Strategic Design
- Common Core
- Human Centered Design
- Medical Design
- Spacial design

MIRA

In collaboration with Getinge, we got to envision the future of the Intensive Care Unit (ICU) for 2035

UMEÅ INSTITUTE OF DESIGN × GETINGE

10 Week Project | Term Project 3

A SYSTEM IN CRISIS

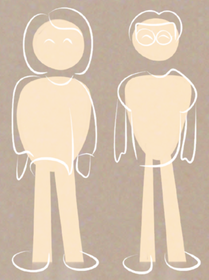
Over decades, Intensive Care Units (ICUs) have evolved into machine-dense environments, designed for survival rather than patient recovery.

We conducted observational studies by shadowing nurses during their work-shift, mapping out the physical constraints of existing ICU rooms and identifying inefficiencies, workflow and patient experience. During our visit to Umeå Hospital, we explored several departments, each shaped by the same underlying challenge —balancing technology with human care.

RESEARCH

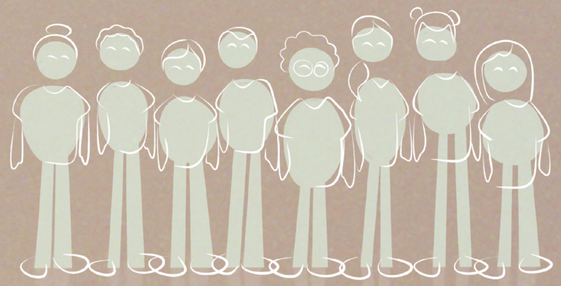
We gathered valuable insights through interviews with patients, nurses, relatives and experts from Charité, a leading research hospital in Germany with over 10 years of experience in advancing patient-centred ICU care. From these insights, we realized that to improve the ICU experience, we first had to make room.

2 PATIENTS



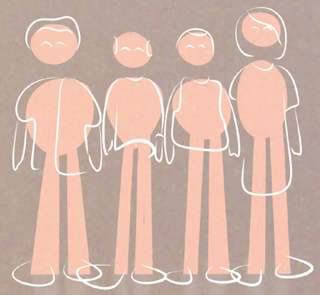
“I was confused and had no idea which day it was.”

8 NURSES



“We want to take patients outside, it is important to give them hope. But we need eight people right now.”

4 RELATIVES



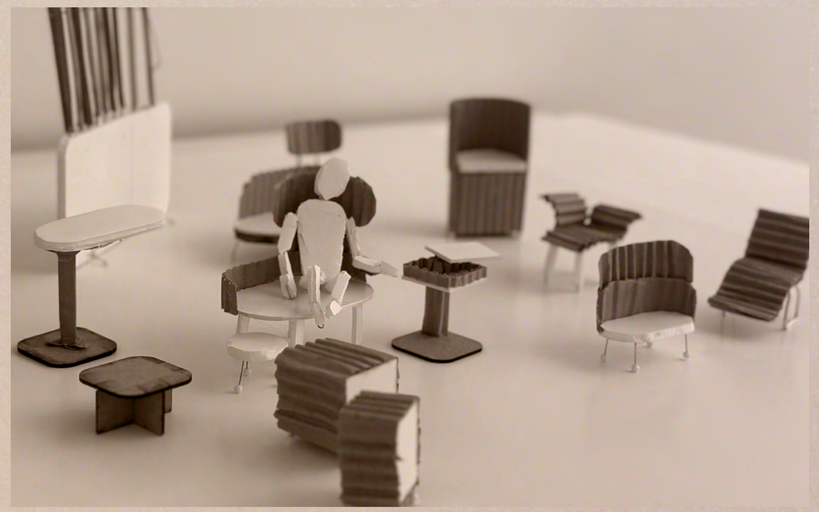
“You want to be a bridge to reality for your relative, but you can’t do more.”

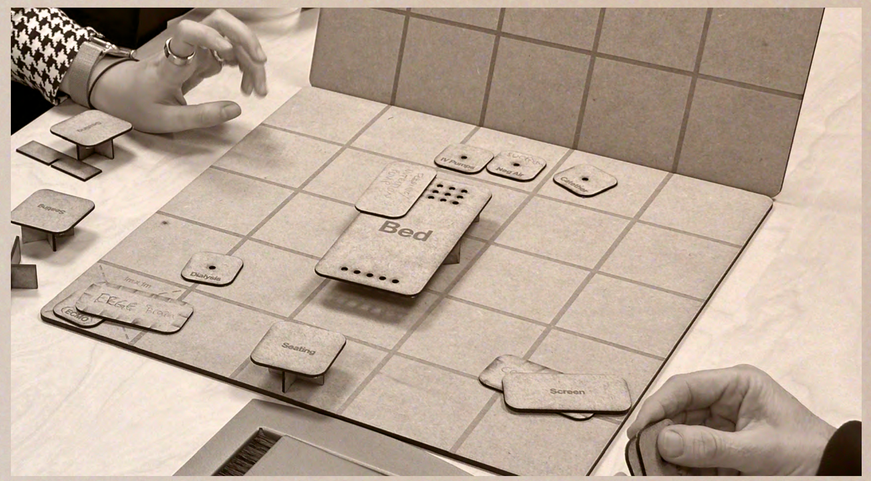
1 EXPERT

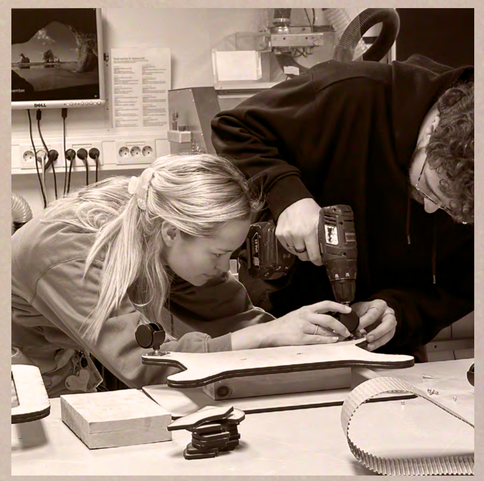
“No one looked at the patients needs for recovery because they were heavily sedated.”

PROCESS

Scale model, miniature room & furniture, VR, physical 1:1 prototypes, common core & CMF exporations







1:1


The Hub


...with maschines


& the team

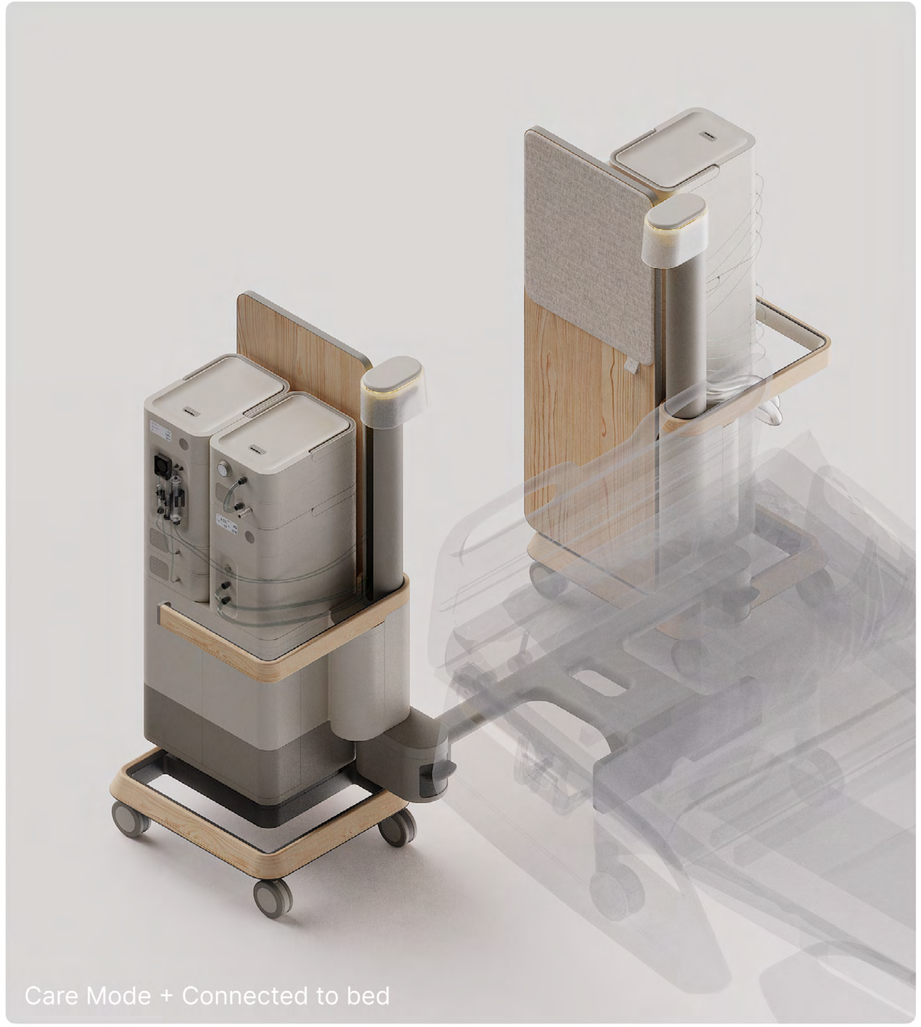
MIRA

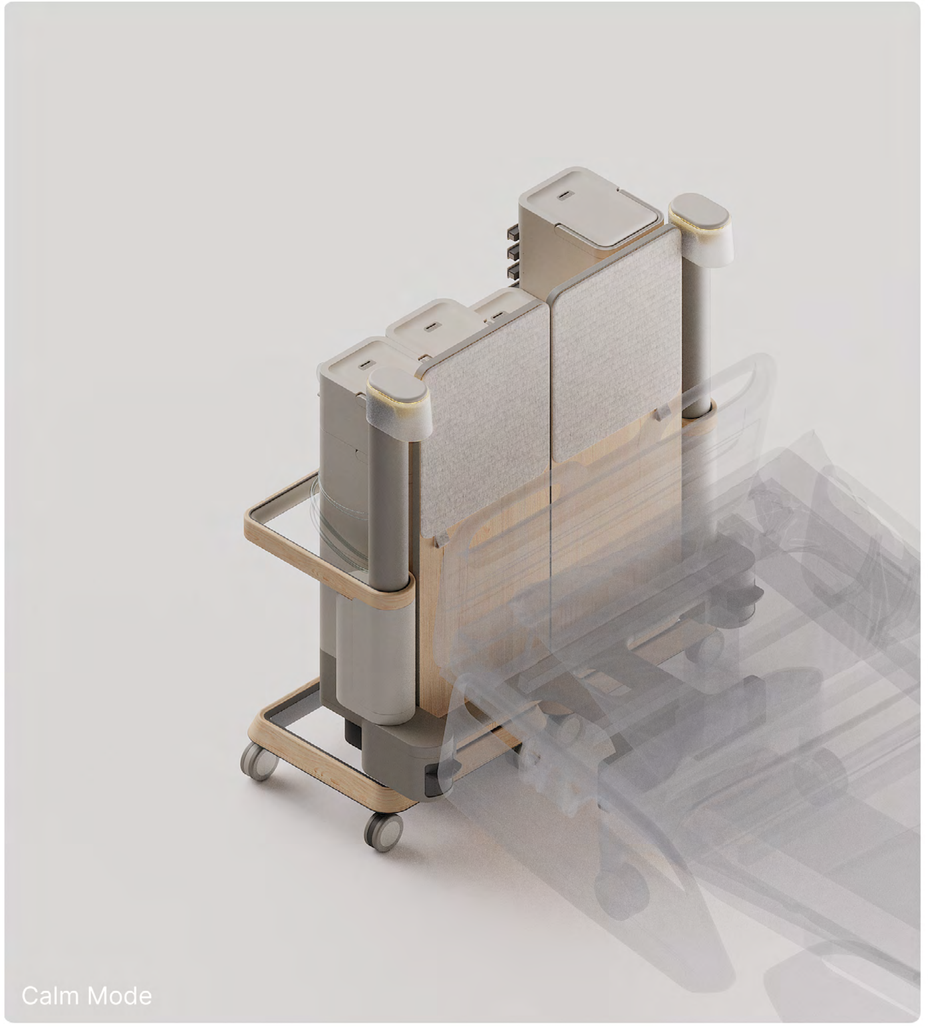
PLAY VIDEO

MIRA reimagines the ICU as a space for recovery, connection, and care. Its core innovation is a centralized hub that organizes machines and cables, keeping them easily accessible for caregivers while minimizing visual clutter for patients and families. This modular system integrates seamlessly into the ICU architecture, enabling a more flexible, human-centred environment.

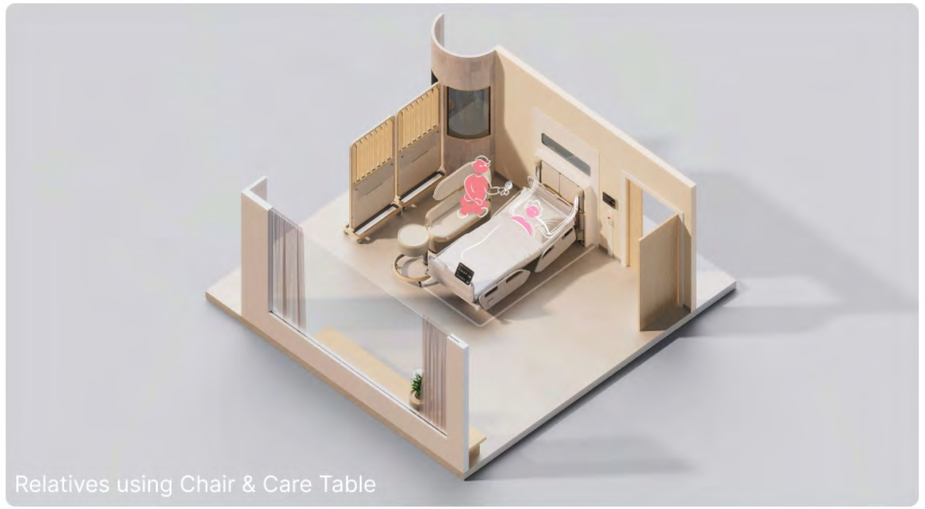
TRANSFORMABLE FOR DIFFERENT NEEDS

The two hubs connect to the back of the bed, each featuring flexible pillars that serve as hinges, allowing the hub to transform into different configurations based on the situation.

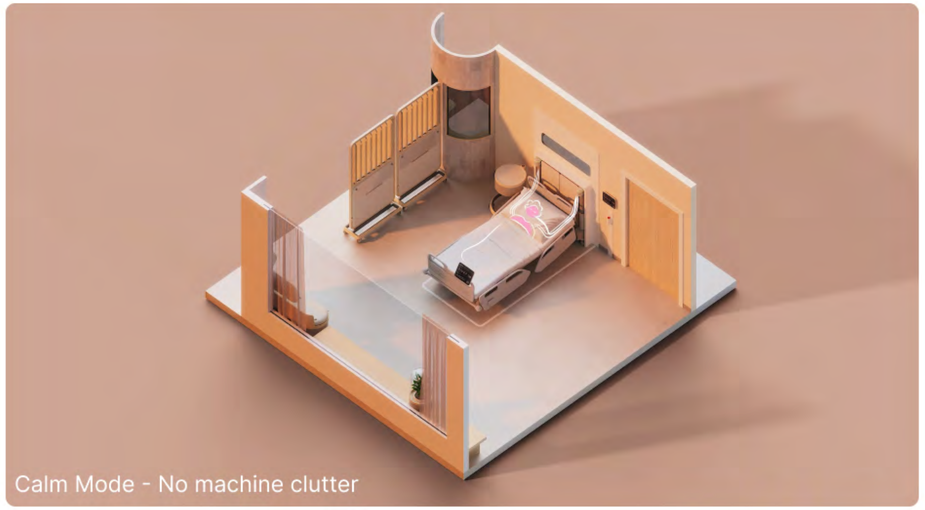

Care Mode + Connected to bed


Calm Mode

MODES


Relatives using Chair & Care Table


Accessibility for nurses at night


Calm Mode - No machine clutter


Easier early mobilization

Centralizing the equipment into two hubs, MIRA frees up space for movement and interaction, making room for rehabilitation, family connection, and a more dignified healing experience.

HALLWAY ACCESS

Without entering the patient’s room, caregivers can monitor and adjust life-supporting equipment through a passthrough closet in the wall, reducing disturbances and noise. Tinted glass windows above, and in the alcove, allow them to see the patient and ensure everything is going well. This design helps patients sleep better at night, which is crucial for recovery and reducing delirium

Patients endure sleep deprivation due to nursing interventions, constant handovers, and machine noise. This exacerbates confusion and ICU-related delirium and slows recovery.

MODULES

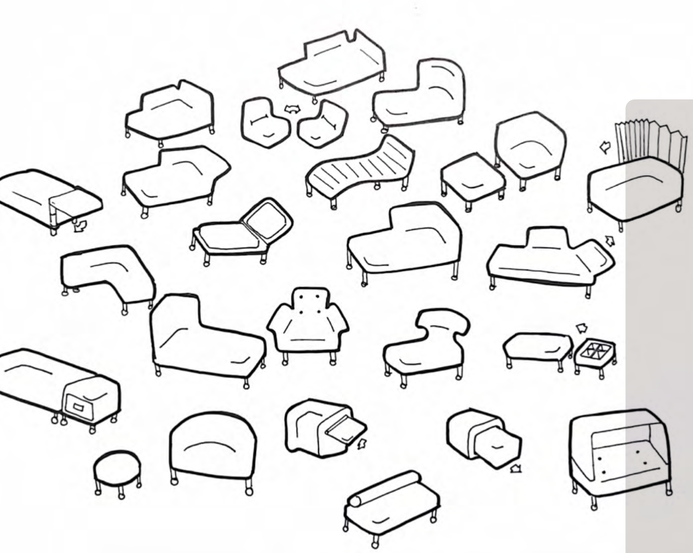
To enhance the cable and tube management, the system allows caregivers to organize tubes in a structured way before connecting them to the patient, reducing clutter, improving safety, and streamlining workflows. The pillar features a top cover, inspired by a bedside light, adding a warm, soft glow while visually hiding cables and tubes.

Modular Hub - Cable Management

Example Module - Medication Pump - Descriptive Name

A BRIDGE TO REALTY

Seeing a loved one in intensive care can be overwhelming, but by reducing clutter, we make space for welcoming furniture that encourages family involvement and strengthens the patient's support system.



Foldable Headrest

folded to create privacy for intimate moments

Height Adjustable

allows for various seating positions and humans in different sizes

Care Table

allows relatives to engage in small caregiving tasks, helping them feel useful and strengthening their emotional connection to the patient

BALANCING PRIVACY & OVERSIGHT

ICUs are often open spaces, blurring the line between private and public. MIRA introduces an adaptive divider that helps balance patient privacy with the need for caregiver oversight.

Divider - Adjustable Shades - Pinboard

Adjustable Shades

allows nurses to maintain visibility when needed while giving patients a sense of personal space

Easy-to-Clean Pinboard

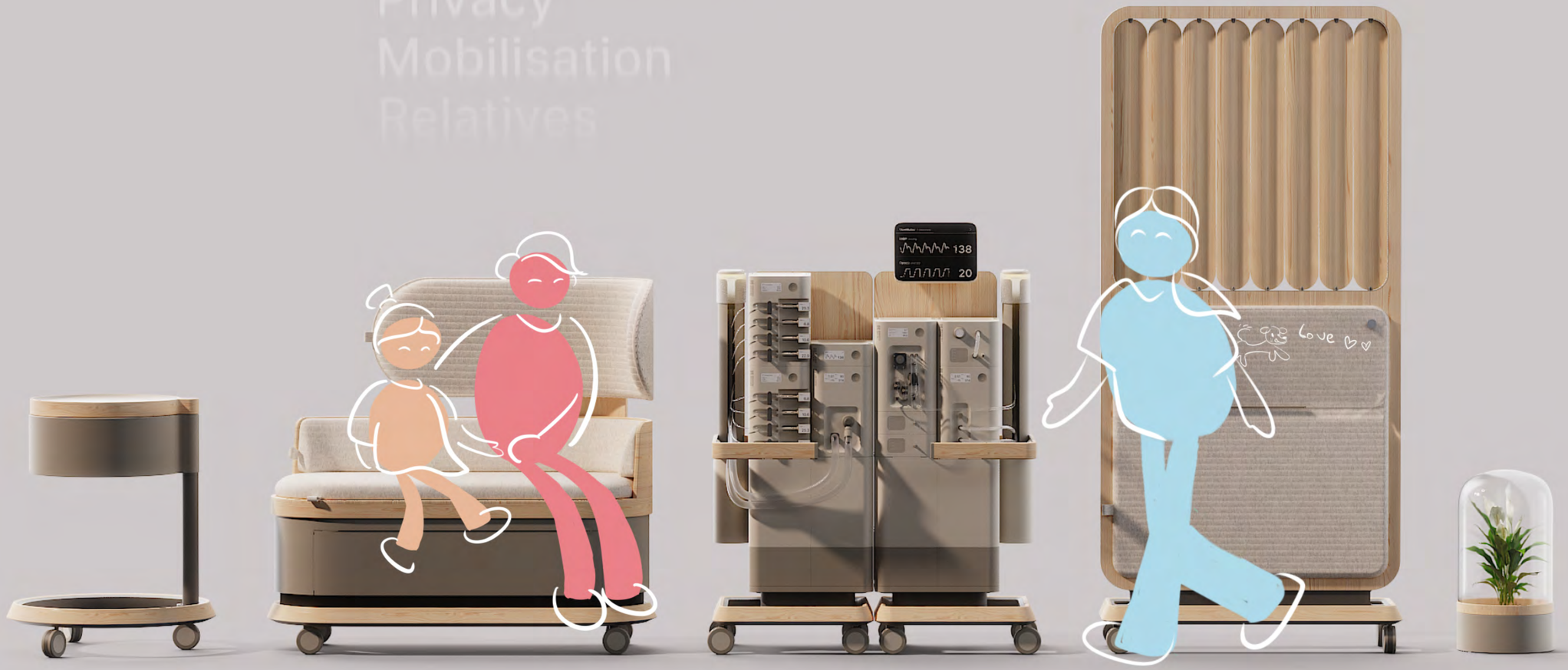
Invites families to safely leave messages for their loved ones, adding a personal, comforting touch to the room.

Acoustic Panel

Absorbs noise and can easily be detached and washed.

Make room for **Recovery**

Care
Personalisation
Privacy
Mobilisation
Relatives



INDIVIDUAL PROJECT 2024

Learnings

- Parametric modelling
- Design for refurbishment
- Design for production
- Brand identity
- Form

RE-SCREW

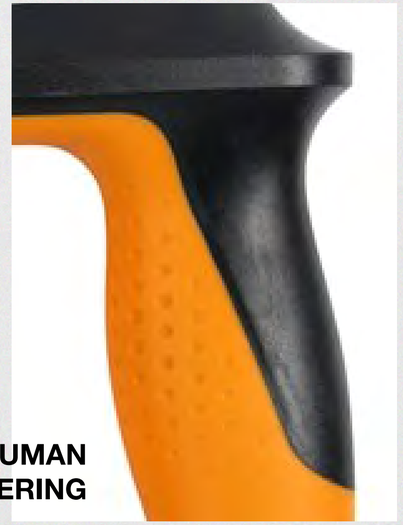
Electric screwdriver designed for easy refurbishment, with focus on designing for production and brand language

UMEÅ INSTITUTE OF DESIGN

10 Week Project | Term Project 3

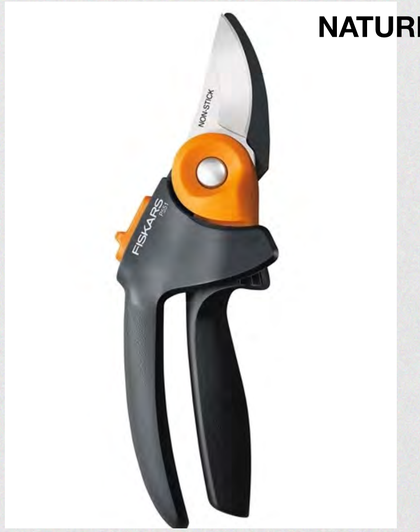
WHAT IF FISKARS® MADE A SCREWDRIVER?

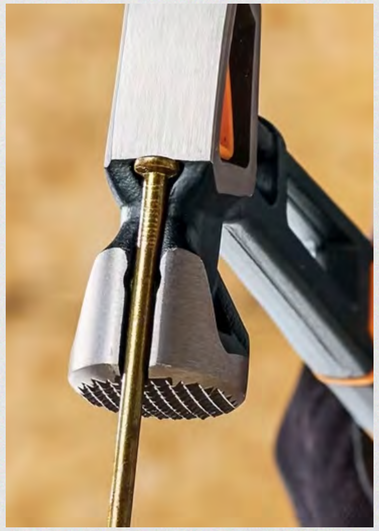
Brand Analysis



HUMAN ENGINEERING

INSPIRED BY NATURE



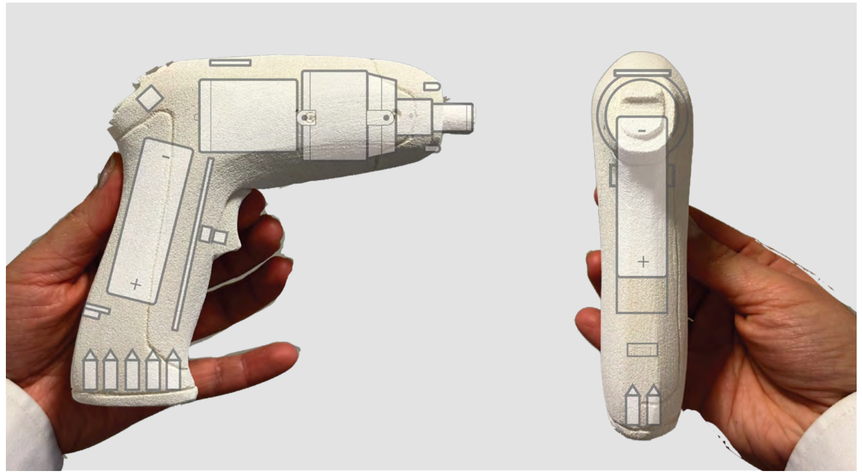


SMART FUNCTIONS

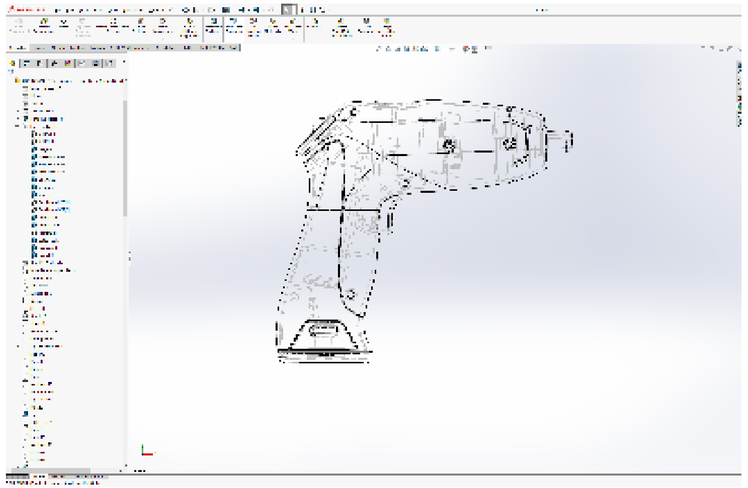
“Making the everyday extraordinary”

FORM & TECHPACK

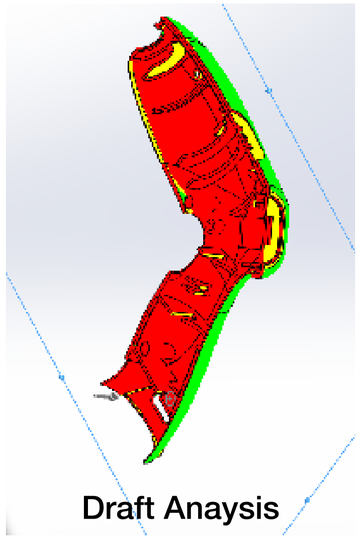
Form exporation, solid works modelling, production analysis, soildering electronics, testing & tweaking



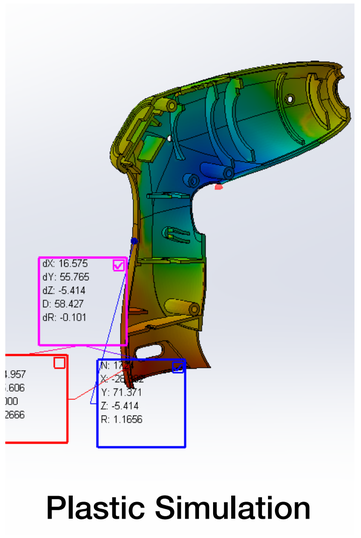
DESIGNED FOR MANUFACTURE



Parametric Modelling



Draft Anaysis



Plastic Simulation

PROTOTYPES

BENEFITS

Charging port
Hidden under cap
protected from dirt

Mini flash-light
Visibility in all environments

Storage
3 most used bits

Lights
Clear battery status indicator

Switch
Intuitive & accessable with one hand

Curved
Comfortable & natural grip

Trigger
Soft rotating motion

Soft touch
Rubber with debossed pattern

PARTS OVERVIEW

Brick: Powder coated aluminium
Main body: 2K injection molded ABS plastic with rubber soft grip
Trigger & Switch: 1K injection molded ABS plastic
Bottom: 1K injection molded aluminium coloured plastic
Bit holder: Molded rubber

REBIRTH EDITION

Designed ro be refurbished. But how might we signalise the refurbishment in stores?
A proud statement for the product's second life — to make old feel like new

FISKARS®

RE-SCREW

Manipulated photo from IKEA

INDIVIDUAL PROJECT 2024

Learnings

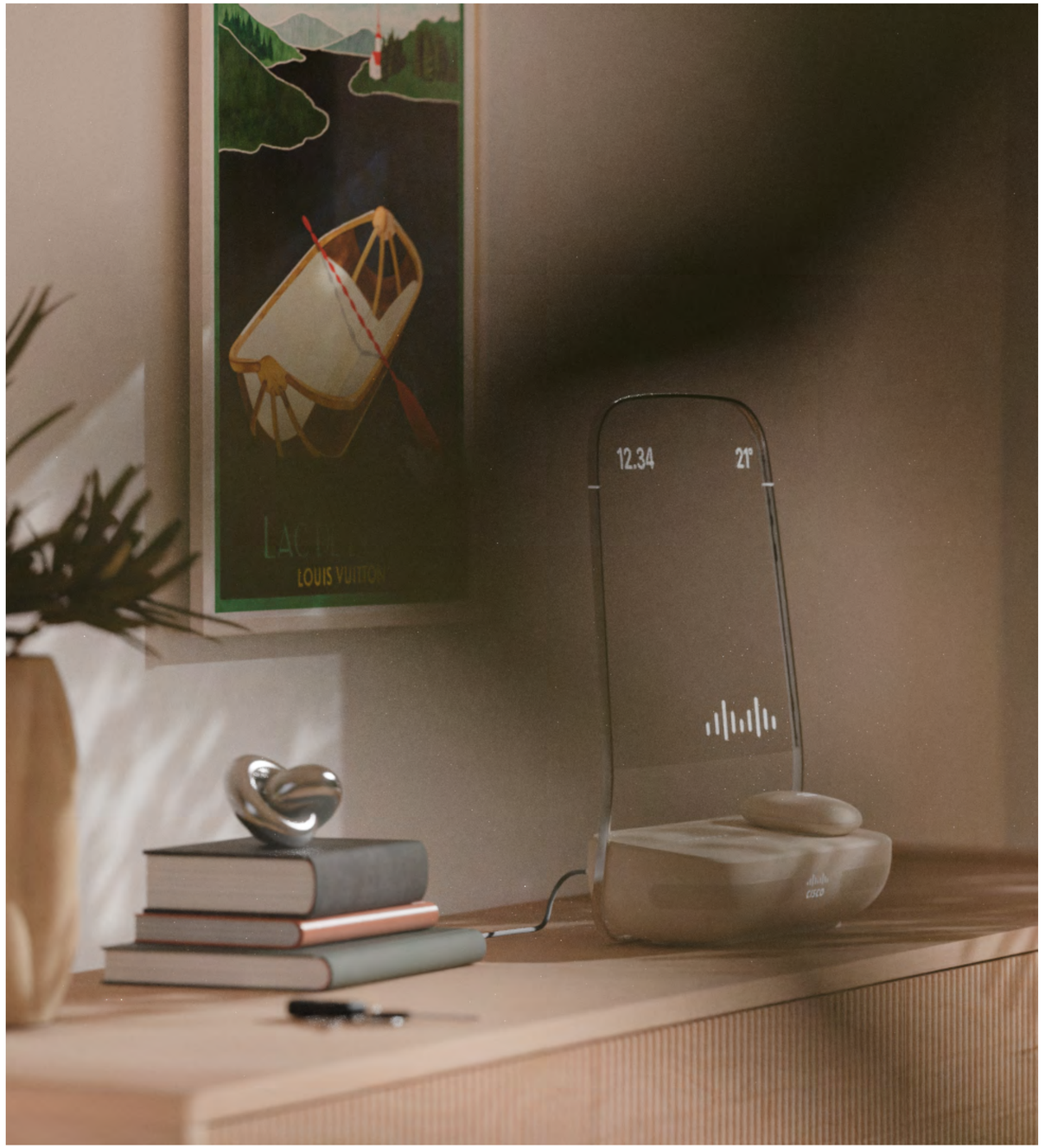
- Parametric modelling
- Design for refurbishment
- Design for production
- Brand identity
- Form

SENTIO

Exploring strategic market opportunities for Cisco —what if they expanded into consumer home products in the next decade?

UMEÅ INSTITUTE OF DESIGN × cisco

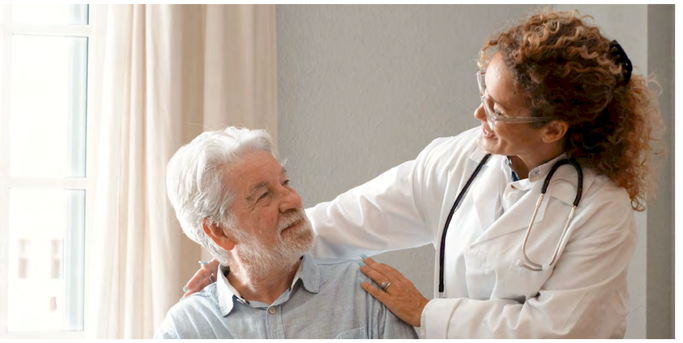
6 Week Project | Strategic Product Design



WIFI-SENSING

Unlike other sensing methods, such as wearables, camera-based imaging, and acoustic-based solutions, WiFi technology is easy to implement and unobtrusive.

How might we sense well-being in a unobstrusive and de-stigmatizing way?



HEALTH OVERVIEW

The transparent screen shows interesting data in a simple way.

As a ritual, the stone can be held for 60 sek to measure blood preassure.

UNOBSTRUSIVE MONITORING

A personal health and safety hub utilizing unobtrusive WIFI-sensing
for passive detection of falls, motion, and monitoring of vital signs.

DETAILS

SENTIO

Bridging possibilities for better health, right at home

GROUP PROJECT 2023

Frida Neckmar, Mårten Malmnäs, Julius Bahl

Learnings

- Rapid mock-up
- Sketch video
- Trend research
- User-journey

AUTOCARE

In collaboration with Electrolux, we explored how garment care would look if the primary user was a domestic robot

UMEÅ INSTITUTE OF DESIGN × Electrolux

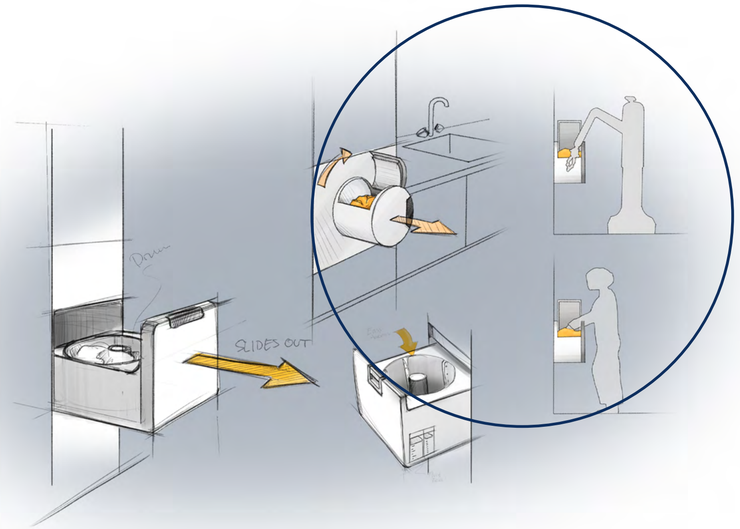
2.5 Week Project | Introduction Project | Trend Project

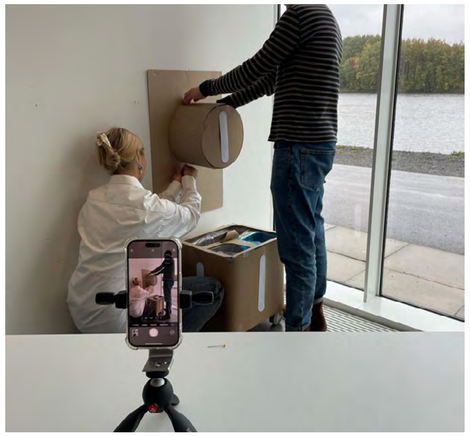
A NEW USER IN TOWN

As the population ages and more people live alone, imagining a future where the elderly can comfortably stay in their own homes with the help of **household robots** becomes increasingly realistic, especially with the next generation of home bots on our doorsteps.

How would our household appliances look if they were designed for more than just humans?

PROCESS





DROP OFF ▶ PICK UP ▶ LOAD ▶ EMPTY ▶ PICK UP

THE BASKET


RFID-tag
Electrolux
1
2
3
Cottons, White
30°
Temperature
1000
Spin
Options
Confirm


Easy sorting for human and robot

THE WASHER


Auto-refill


Slides open
OPEN


Top-loaded


1h 20m


Laundry catcher

In collaboration with Electrolux

AutoCare

AutoCare is a compact laundry system consisting of a small washing machine and smart laundry basket, optimised to for the collaboration between our future elderly generation and assisting domestic robots.

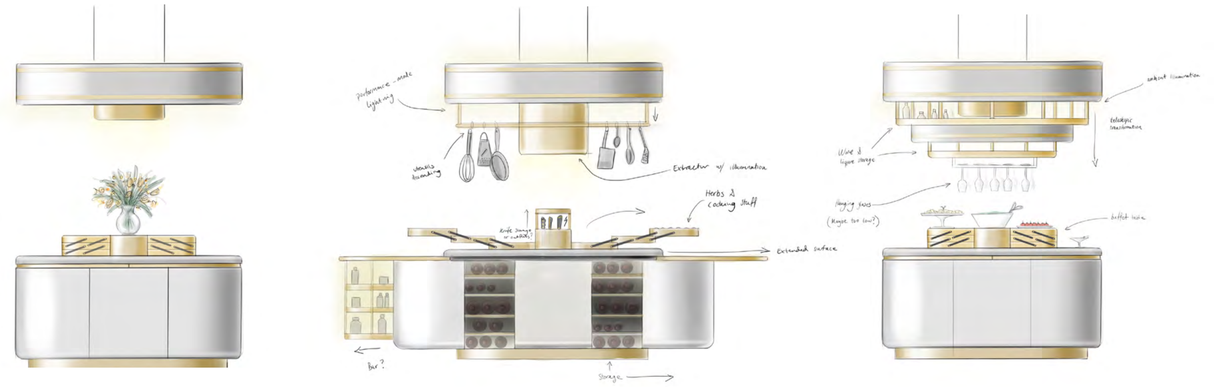
Thank you for exploring my work!

I hope it’s shown you my hands-on approach—building, testing, and pushing ideas forward with energy and curiosity. I love working with people and thrive in a collaborative environment.

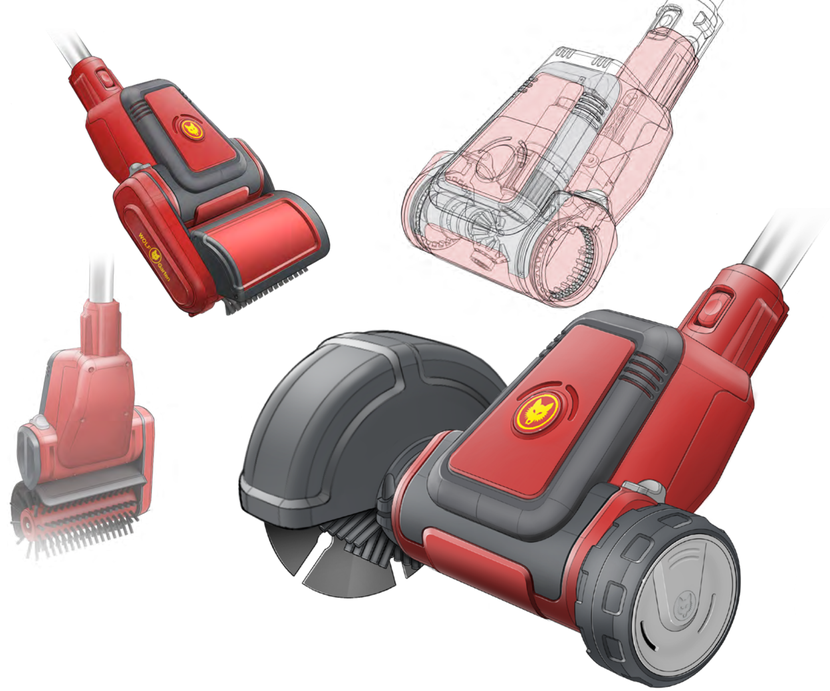
If you’d like to connect, let’s talk —I’m always up for a new challenge!

fridaneckmar@gmail.com +46708 25 10 40

INTERNSHIP PROJECTS



Kitchen design concept for Siematic at Tatic Designstudio



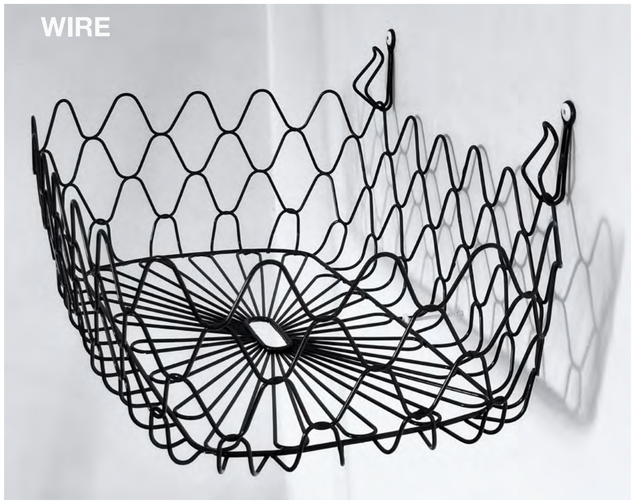
Final design sketches & CAD modell in Rhino for Wolfgarten at Tatic Designstudio. *Product is now available in stores.*

Kitchen refinement & redesign for Siematic at Tatic Designstudio. *Product is now available in stores.*

Packaging design for Perlweiss at Tatic Designstudio

BACHELOR PROJECTS

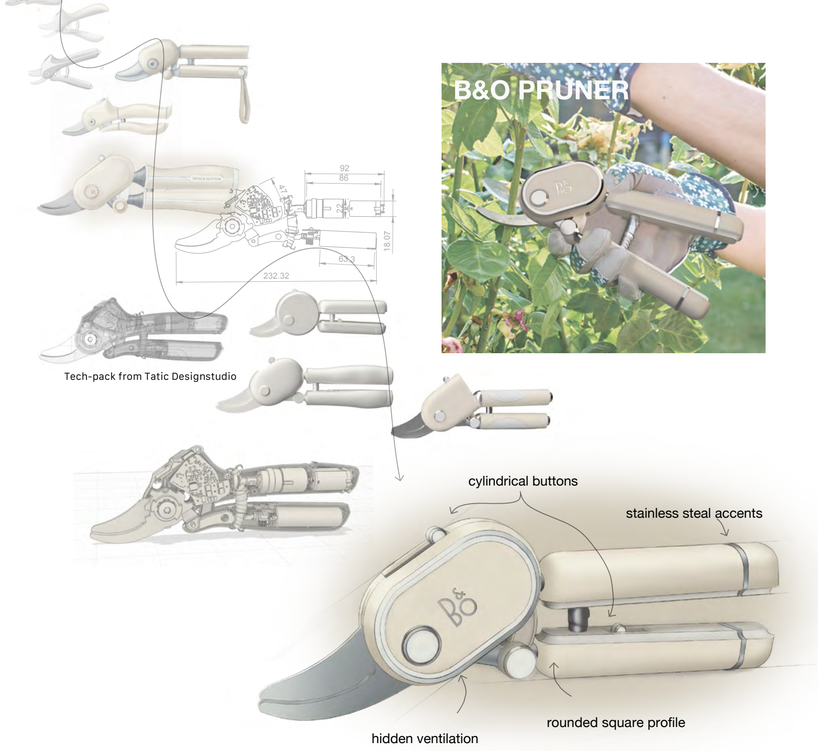
Wrist Relieving Ergonomic Broom-set



A project with focus on wire, welding and production

A product that helps elderly men when urinating seated

“Furniture in transformation”



Thesis exhibition: Vases that “Make the most out of flowers”
Material exploration: 3D printed Clay, Glass & Acrylic