portfolio.

GIJS WELS

me. index.

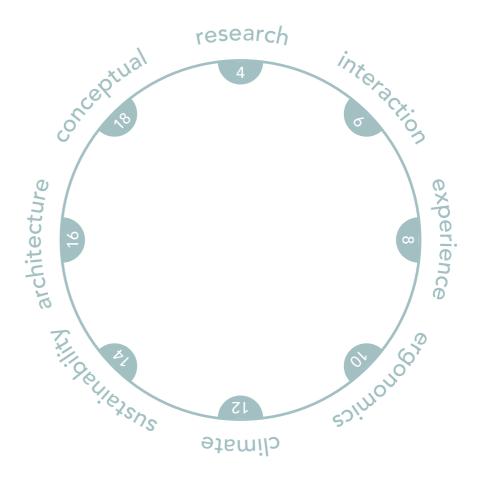
Hi,

I am Gijs Wels.

An industrial designer with a focus on physical products and the relationships we create between people and their world through design - the new behaviours and experiences they enable.

My specific interests are well-being, innovation, and good design, both aesthetically and practically. I learned that it is not only important to dream but also to realise. This results in a hardworking person who motivates those around him to achieve the same goals - to make things happen!

"Seeing the same, but seeing it in a way nobody has ever seen it before."
- Jules Deelder



research through design.

The project focuses on behavioural change within office work culture. After extensive analysis through interviews and observation, he concept idea is validated and optimised by continuous testing.



PausePing

click for: extra - news

Bring structure to the workplace. Communicate your break as an invite or participate in someone else's break.

Other Functionalities

To meet everyone's preferences, the device is equipped with options to place it where you want. It has a sturdy base that you can place flat on your desk, a clip-like function for thin screens and a hook for wider ones.





Obstacle

According to research by TNO and CBS, one in five working people in the Nehterlands experiences burnout-related symptoms. Among the young working adults, age 18 to 35, this is one in four. It is expected to rise to one in three young working adults in 2027.

Opportunity

Micro-breaks are necessary for keeping a steady energy level and most important required during stressful periods with high workloads. During micro-breaks, it is recommended to move around to get blood circulation flowing. With a safe social context, taking breaks is normalised and awareness is created among colleagues.

Solution

A small device which can be plugged in at your workstation that day. When communicating your breaks, colleagues receive a friendly invite. The notification of colleagues having a break acts as a friendly reminder and lowers the threshold.





interaction design.



NurseNurse

click for: extra

Who takes care of the caregiver? In an overburdened healthcare system, it is important to keep staff fit preventively. This product monitors the muscle overload.

Visualise Interaction

out the system's functions. A UTF is provided to create a clear picture of the application.



Obstacle

More elaborate information on the Time, finance and personnel are often scarce in interaction can be found on my website, the healthcare context. These conditions cause click the link above. An HTA illustrates the the overloaded caregivers to prioritise clients over user's tasks and goals while an AMD draws their well-being. For example, when clients need to be lifted out of bed. Specialised equipment is available but often it is quicker to just use their body strength. In the end, this results in physical complications which creates a vicious circle.

Opportunity

Caregivers are often not aware of the hazards untill - irreversable - harm is done, making it so important to aim for prevention rather than recovery. A PHIdevice (Personal Health Information) could warn caregivers and trigger positive awareness.

Solution

The PHI device is designed to detect - enduring muscle tension and to provide immediate feedback. A corresponding and informative application is introduced to gather employee feedback and accommodate daily data and tips.







experience design.

The project focuses on creating a sustainable and positive sleeping experience during hot summer nights. The emphasis is or designing and evaluating experience through interviews, surveys and testing.





CoolWatch

click for: extra

Experience Evaluation

The tests are set up according to Norman's UX design theory (2004). The complete user experience of the product is evaluated from a reflective, behavioural, and visceral perspective. The aesthetics of the concept are assessed based on Attrakdiff.



Obstacle

adaptation to the home.

People often experience discomfort and frustration around the warmth in their bedrooms. In reaction many energy-consuming and unsustainable solutions are introduced. A trend is noticeable in the purchase of air conditioning in Northern Europe, which has an extremely burdening effect on water and energy supply.

Summers are getting warmer, i.e. climate change, and electricity bills are rising. The cooling bracelet brings individual climate

Opportunity

In short, the project revolved around "more by less, creating positive thermal experiences". The focus is on introducing a new product while decreasing the use of electricity and the pressure on the climate.

Solution

The final concept concerns a bracelet with an integrated cooling element that you can activate before going to sleep. Because it is placed on the wrist, the body cools down quickly, making it easier to fall asleep. The prototype is tested and the user experience is evaluated with a functional prototype and by simulating a 'hot room'.







ergonomics.



Evolve

click for: extra

One comfortable chair that fits all primary school students and creates an environment to improve their performance!



Wellbeing

Every first day of the year, teachers and students go together to look for a suitable chair. For various reasons, children often sit on a chair that does not suit their body dimensions which causes bad posture. Because children grow quickly they should regularly measure their body. With this chair the students can alter the chair themselves using a simple system.

Autonomy

Children are sometimes careless with their surrounding and the chair must therefore be able to withstand a blow. By aiming for a personalised workspace that guides the student journey along the way, the children experience more autonomy and responsibility.

Concentration

for children who find it difficult to concentrate. It is a low frequency to filter out other distractions and is mainly intended for children with ADHD.

Adjustable Functionalities

A tool, PeterDeBeenMeter, is developed for children to measure their bodies and set the chair accordingly themselves.

- 1. personalisation
- 2. foot rest height
- 3. seat height





The chair is also equipped with a vibration function

climate adaptation.

MESS VILLY

StadsOase

The StadsOase offers a movable green oasis for bustling places in the city. It's not just a green future, it's a flexible green future!





Adaptive Functionalities

The square is multi-usable. Like a real oasis, the spot is used by locals for all kinds of activities. Plants and trees are placed in various large CORTEN-steel pots, which can be picked up and placed wherever. In the hustle and bustle of the city, within the greenery, an oasis of peace unfolds.



Obstacle

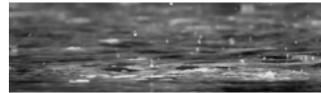
It's getting warmer and warmer. Urban areas are more affected by this due to the urban heat island effect (UHI). A phenomenon that the temperature in those areas can rise 7 to 8 degrees more than in the surrounding rural areas. The biggest differences are noticeable in the summer periods, precisely at times when such temperatures already cause problems for residents.

Opportunity

The asphalt, the concrete and the buildings are the causes of this development. The only sustainable solution is greening the city to make the urban areas more adaptable to these changes.

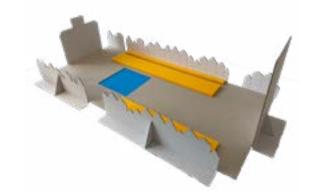
Solution

Targeting busy squares in the city centre; places that fulfil multiple functions and sometimes have a historical appearance. The idea is an adaptive urban oasis wherefore the place can fulfil the wishes of all residents. In addition, the spot is used to inform people of the issue and its hazards.



Water Source

The square is self-sufficient. Like a real oasis, the spot has a hidden water source. Underneath a water tank collects rainwater. Regular pavement is replaced by water-permeable tiling. The water is used for watering the plants and trees during dry periods.



sustainability.

The project focuses on designing products and environments in balance with nature. Emphasis lies on the playful and calming aspects of nature through simple and biodegradable design.



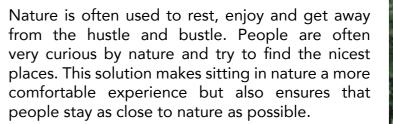
NatureSeat

An active sitting space for Otaniemi campus locals that provokes creativeness by using the natural environment.



Lie down like a frog on a leaf

In Polish there is a saying which is used when people sit back, relax and do nothing. Frogs can sit still for a long time. I like to think that they're enjoying nature.









architecture.

his project revolves around architecture nd focuses on gaining a feeling for the lesigned environment. The emphasis is n designing furniture for the building in uestion and creating mockups.



WhirlSofa

A swirling sofa and table in one - based on the W.I.N.D. house situated in Bergen - to enhance the social part of the family home!



Model Study

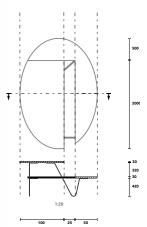
The W.I.N.D. House is a family house in Northern Holland. The base of the design is formed by the flexibility of spaces, the surrounding landscape and a "centrifugal split-level principle". This means that the house is centred around a staircase. Therefore, there are no hallways present in the building and all the spaces flow into each other.



Form Study

In this piece of furniture, the principle of the stairwell is also the centre of attention. As a chair flows into a sofa and as the sofa flows into a table. This ensures that different activities of different family members can be combined. This allows you to be together, but also to be just involved with your own activity. The W.H.I.R.L. Sofa consists of two parts. A wooden plate for the table and bench and a construction of metal pipes to connect these wooden plates.





conceptual.

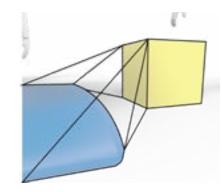


Möbler

MÖBLER is Swedish for 'furniture' and is the future of living: Build what you want, when you want and where you want!

The Future

The future of living is smaller, like communual living or student dorms. MÖB is a multifunctional piece of smart furniture. It doesn't have one sole function, but can be used for many purposes. By contracting and expanding up to -/+ 50% of its original size, MÖB can change size and stiffness, making it suitable for many different uses.



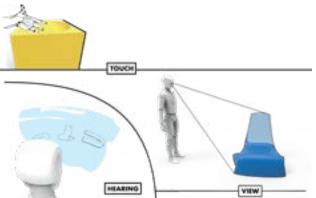
Combine & Expand

The MÖBLER is specially made for the common and shared room. MÖBLER blocks can be separated or merged together, so furniture can be shared or enlarged.



Control

To adjust the shape of the MÖBLER, your eyes, hands or voice are needed. When adjusting MÖBLER, a hologram of the product will be shown in front of the user. This shape can be adjusted by hand. Like someone is sculpting clay, but virtually. While shaping it, the user can also speak, to simplify the process of shaping it in the form being preferred. Moreover, for a more personal interaction, users can manually make small adjustments by hand.









ide.

thanks.

Industrial Design Engineering (IDE) combines technology, people, and business with design.

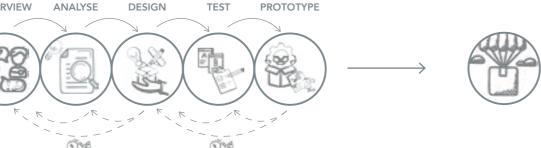
What is so special about it is the human-centered conceptual focus. I have learned how to analyse (societal) issues, target groups, and markets and how to translate part of this. opportunities into concrete solutions.

With the user in mind I start designing; constantly checking if I meet the wishes and needs. From concept to go-to-market product. Taking into inquisitive mind, and excel when ideas need account the vision, materials, and manufacturing.

Integrated Product Design (IPD), takes

My strength lies in my curiosity. With enthusiasm, I analyse, set up tests and observe. I have an affinity for research, an to be turned into action.

this a step further. Advanced prototyping, design, human-system interaction and experience design are all



Thank you for looking into my portfolio!

I hope you enjoyed reading about the projects I am very proud of. Who knows, maybe we will see each other in the future!

You can find information about my extracurricular projects on my CV. For more information and videos about my projects, visit my website: gijswels.github.io.

Kind regards, Gijs Wels

Bye,

"If you are aware of the limits, you can work limitless within it."

- Jules Deelder

