portfolio.

GIJS WELS

me. index.

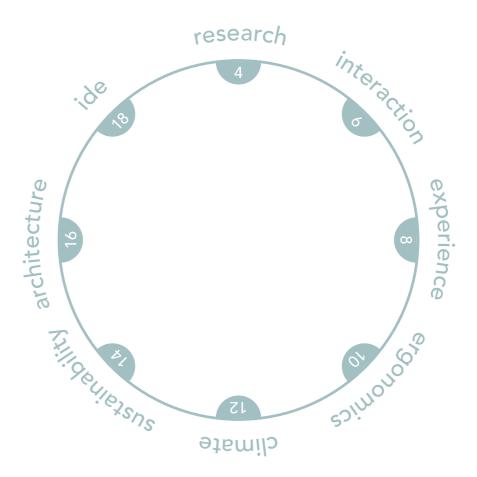
Hi,

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'.







human factors.

The project focuses on shaping a school environment that positively affects student performance. The emphasis is on creating a unctional prototype by exploring physical and cognitive ergonomics.



Evolve

click for: extra



Obstacle

Schools have a lot of spare chairs and on average 7 different sizes. One day a year, teachers and students look for a chair that fits but often children use a chair that is too small or too large. In addition, they do not feel responsible for their chair and act careless.

Opportunity

By aiming for a personalised workspace students can study optimally. By offering smart educational furniture the workload of teachers is reduced, which contributes to more focus on student growth.

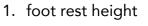
Solution

One chair that suits everyone. To strive for a correct posture the students can alter the chair themselves using a simple system. The chair is also equipped with a vibration function 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. The vibration seat is an add-on and can only be activated by the teacher.



Adjustable Functionalities

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



seat height







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

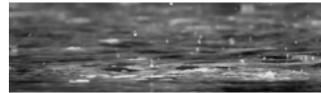
It's getting warmer and warmer. Urban areas are more affected by this due to the urban heat island effect (UHI). A phenomenon that the temperature in those areas can rise 7 to 8 degrees more than in the surrounding rural areas. The biggest differences are noticeable in the summer periods, precisely at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

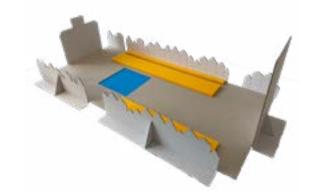
Solution

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.

NatureSeat







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.

Nature is often used to rest, enjoy and get away from the hustle and bustle. People are often very curious by nature and try to find the nicest places. This solution makes sitting in nature a more comfortable experience but also ensures that people stay as close to nature as possible.









architecture.

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!



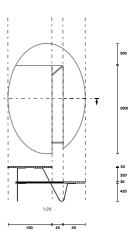
Model Study

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.



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.







UNS

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.

TEST

ANALYSE

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

enthusiasm, I analyse, set up tests and observe. I have an affinity for research, an to be turned into action.

Integrated Product Design (IPD), takes



My strength lies in my curiosity. With

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

- Jules Deelder

Bye,

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

