PORTFOLIO

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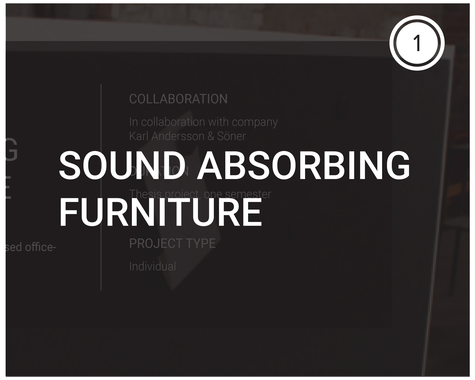
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SOUND ABSORBING FURNITURE

A project about the activity based office-
The new way of working.

COLLABORATION

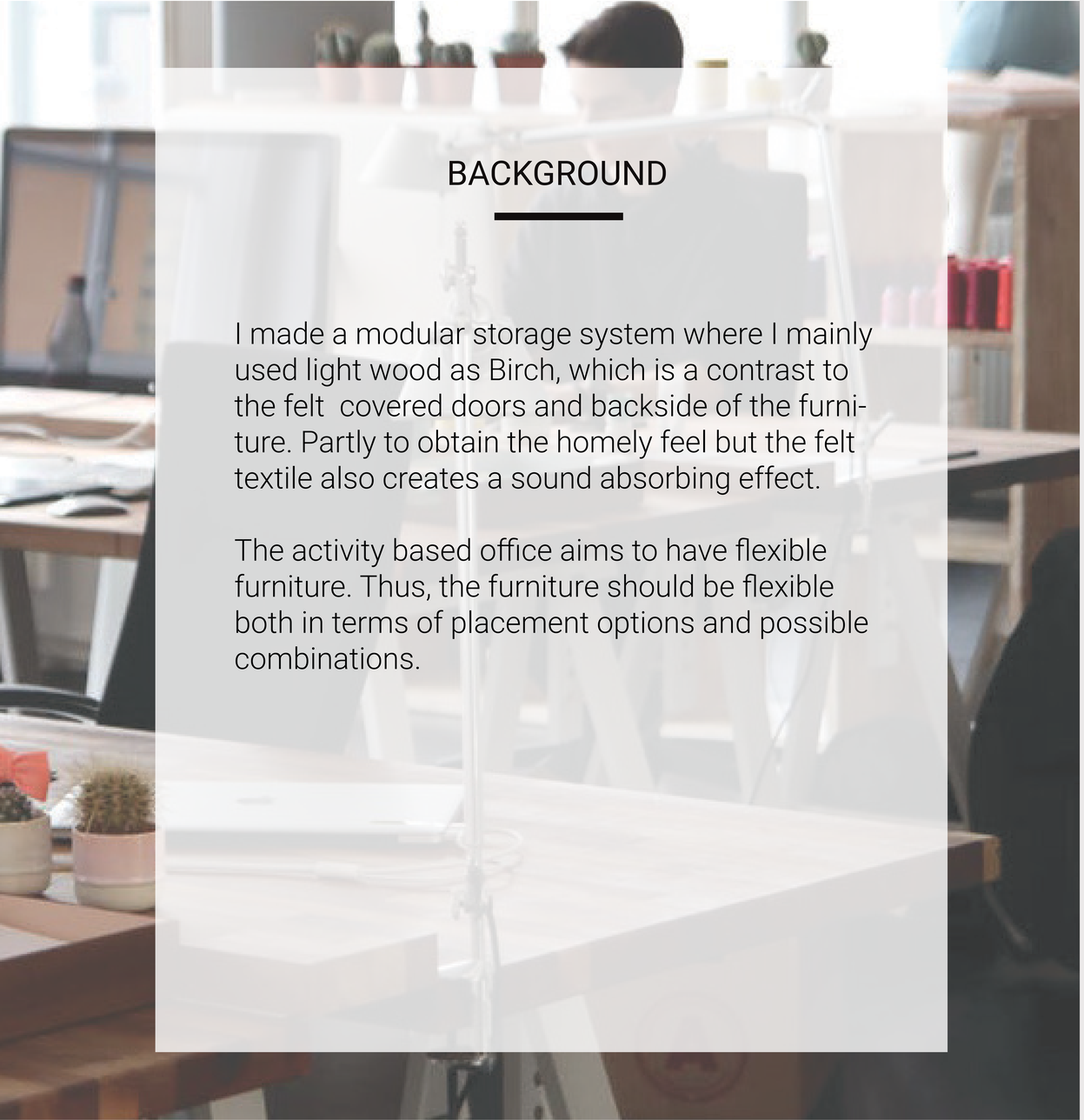
In collaboration with company
Karl Andersson & Söner

DURATION

Thesis project, one semester

PROJECT TYPE

Individual



BACKGROUND

I made a modular storage system where I mainly used light wood as Birch, which is a contrast to the felt covered doors and backside of the furniture. Partly to obtain the homely feel but the felt textile also creates a sound absorbing effect.

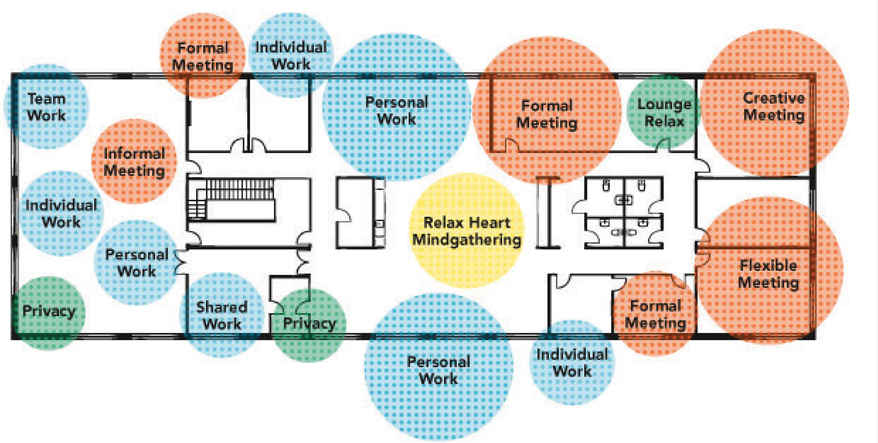
The activity based office aims to have flexible furniture. Thus, the furniture should be flexible both in terms of placement options and possible combinations.

BRIEF

Make a product adjusted for the activity based workspace, that should be flexible both in terms of placement and possible combinations in the working area.

The product should meet the needs of storage and improve the workplace and well-being for the staff.

WHAT IS AN ACTIVITY BASED WORKPLACE?



Employees **lack a permanent place** in an activity-based workplace. The office is to be used explicitly **for various activities**, with different environments or areas, in which the surroundings and **the furniture will suit the activity.**

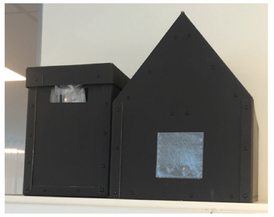
Employees have their own lockers for their belongings and things they need in their work. In some offices they use special areas for this, and the employees and those who belong to the working group, start their they at this place and hold small meetings.

IDENTIFIED NEEDS

Offer lager space for different types of bags

Offer space for other work-related products

PICTURES FROM MY USER STUDIES



MAIN FOCUS

Sound absorbent

Personalized

Homely feel

USER STUDIES

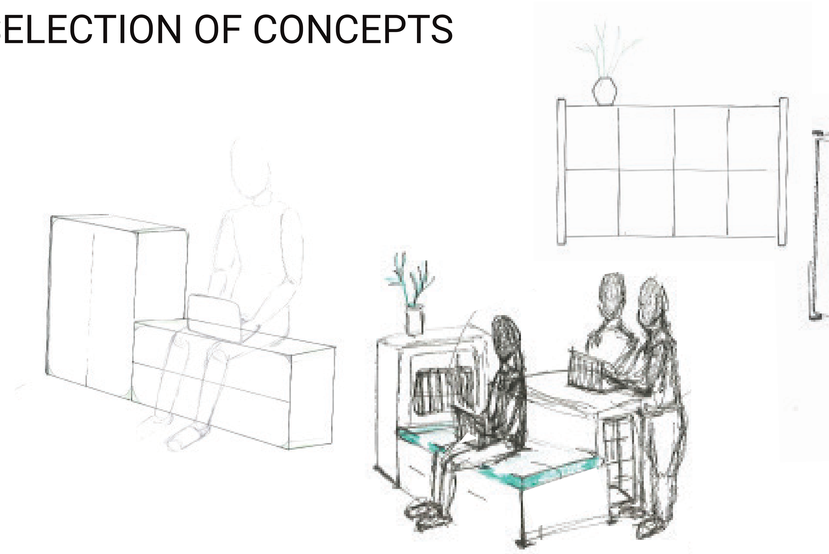
To understand how people used their storage, working mateiral and the office overall, I visited different offices with an activity based workspace.
I also made an survey to find out what people found most important to create a pleasent work enviorment. I also found out what people use in their work and need to be able to store, as illustrated in the previous page.

MAIN FOCUS

From my user studies, research and survey I came up with three main points needed for a pleasant workplace. What I found out was that noise is a very important point, and the more sound reducing products there is, the better.

Since you lack your own desk, I found out that people wants the office to feel personal and homely, so you can feel comfortable and enjoy all the areas.

A SELECTION OF CONCEPTS

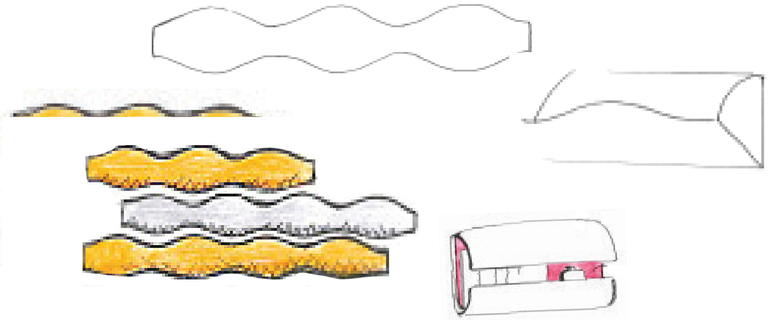


1. "CREATE SURROUNDINGS"

Different "modules" that can be put together to create an environment and surfaces that can be used in different ways. All modules have space for storage.

2. "EXTRA SPACE"

Bureau for personal storage. Acts as dividers in the office with the possibility of adjusting the storage surface required.



3 "SOUND ABSORBING STORAGE"

Sound-absorbing wall storage where you keep your every-day use. A functional further development of today's acoustic panels that adorn the walls in various designs and colors.

EVALUATION

Merge the concepts

All the concepts contained something good, but not quite met the requirements that I got out of my research. Therefore, I chose to merge all concepts into one.

I needed to make room for what you bring to the office, and also have in mind the bigger items such as a suitcase.

I also needed to include the opportunity to create environments and adapt the furniture to the office, to let the furniture become a part of the surrounding.

In addition, I needed to create the homely feeling that I learned was very important at the activity-based office as well as the importance of a silent environment

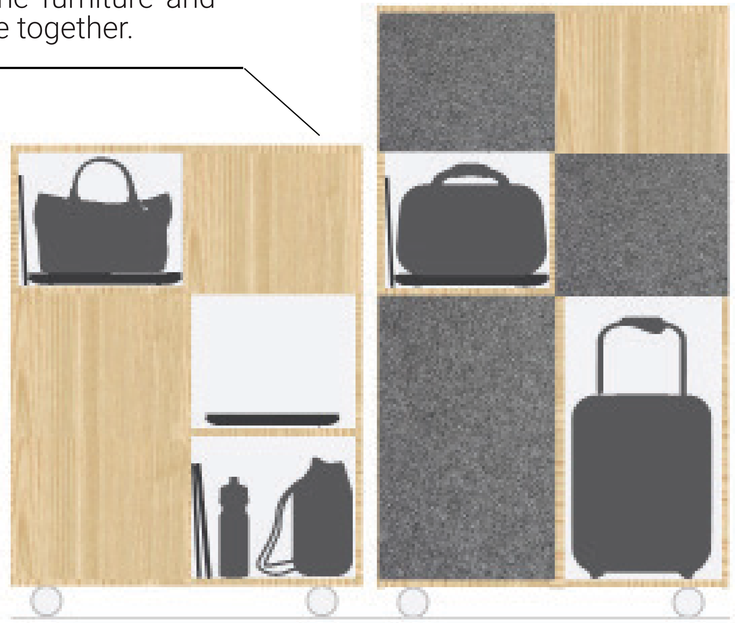
MY CONCEPT- HOW TO USE IT

FRONT BACK

Personal storage space.

Each employee has a personal "locker".

If you work in a team, you could have your storage in the same furniture and personalize the backside together.



Temporary storage.

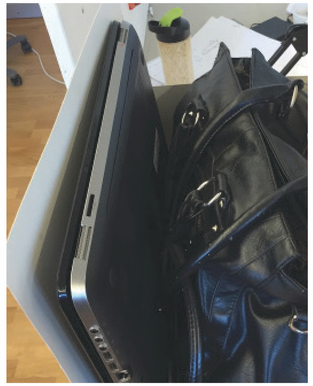
This storage space is for occasions when you need extra space.

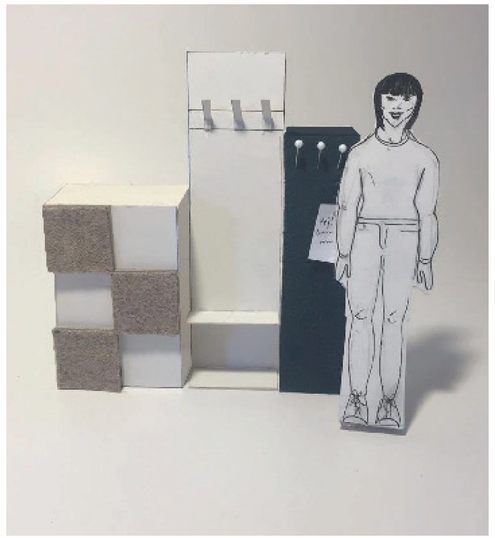
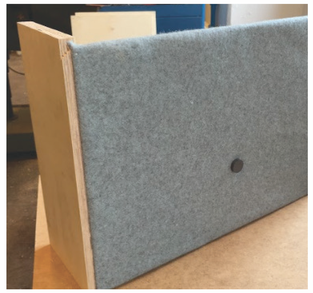
For example if you bring a cabin bag, a bigger gym bag etc. with you to work.

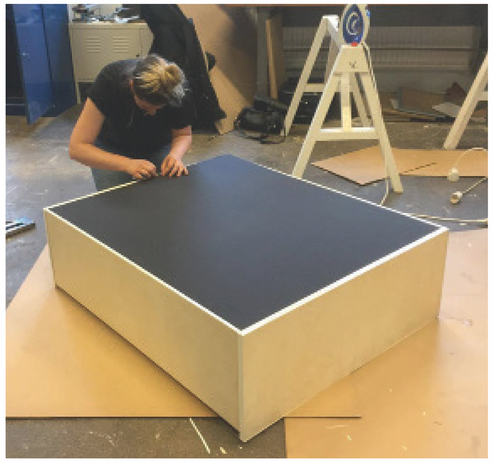
IN USE

It is possible to attach various accessories to the back, with magnets, since there is a metal sheet attached to the back, behind the textile. This gives the employees the opportunity to personalise the office and also increase the communication between the employees in a creative way.

PROTOTYPING & MODEL MAKING





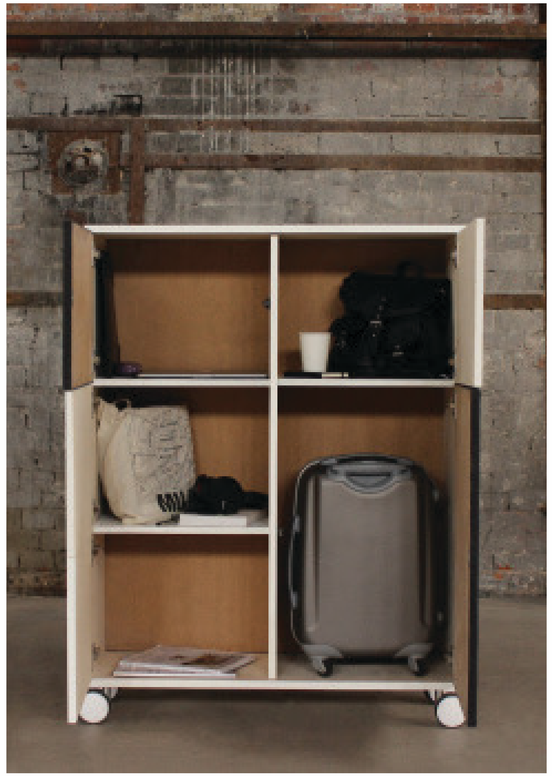
3D SKETCHES

Throughout the projects I created several 3D models to try various sizes and functions for the table. I used cardboard,- paper and wood for some parts when I started with the full scale modeling.

To decide the final form, deciding which kind of legs and function the furniture would have, I used 3D software (Solid-Works and Keyshot). It was also used to sketch on a more detailed level.

FINALIZING

The final model was made in the work-shop and is made in Birch playwood. The back is made of MDF, covered in felt tex-tile and white edge strips.



RESULT

My product works as a separator that can divide the zones with the storage furniture.

Hence the wheels, which make it easy to move on the furniture.

By thinking effectively, I also decided to use the back and dress it in felt.

The felt also gives a homely feel and also provides a sound-damping effect, as desired in the offices.

The furniture also provides space for bigger bags, such as a cabin bag.

COR, ECG PROCEDURE

The aim in this project was to make a tri-cykle for a sports company. The brief said that the tricykle would be a complement to their existing products, since they wish to create a new direction.

COLLABORATION

The name Cor comes from the latin word for “heart”. This product is made to improve the current procedure when using ECG.

DURATION

4 weeks project

PROJECT TYPE

Individual

BACKGROUND

What is ECG?

An ECG device measures the electrical impulses of the heart so that any cardiac malfunction. The device creates a printout, called ECG, which means electrocardiogram.

Problems

The main problem today is that the various electrodes must be fixed in a particular pattern on the patient. Since the long cords are not connected in the machine in the right order, it can be a bit of a mixup while doing the procedure. Furthermore, the nurse needs to print the result and manually put in the information to the journal.

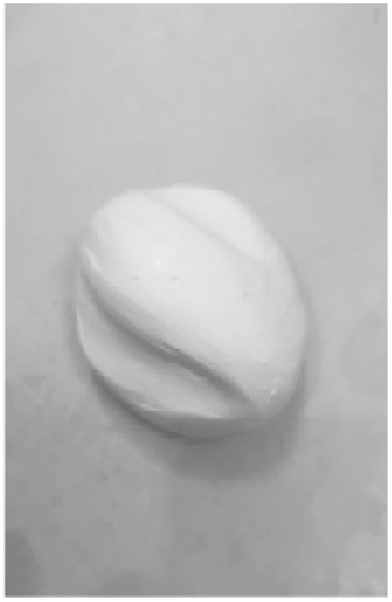
BRIEF

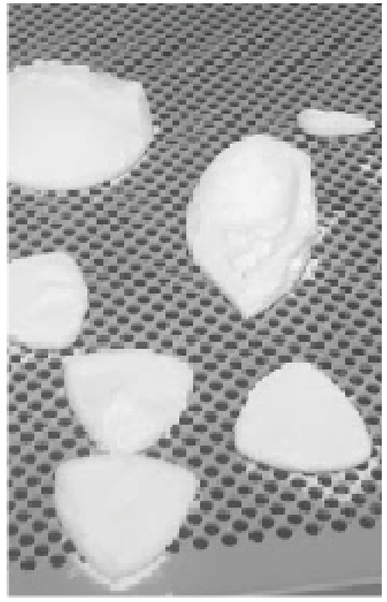
Ease the workload for the nurses and make it more efficient

Reduce any patient insecuirty and improve the experience.

The user usually doesn't perform ECG daily, however, the nurse experiences that it's problematic when required, as the product does not indicate how to use it which also makes it time consuming.

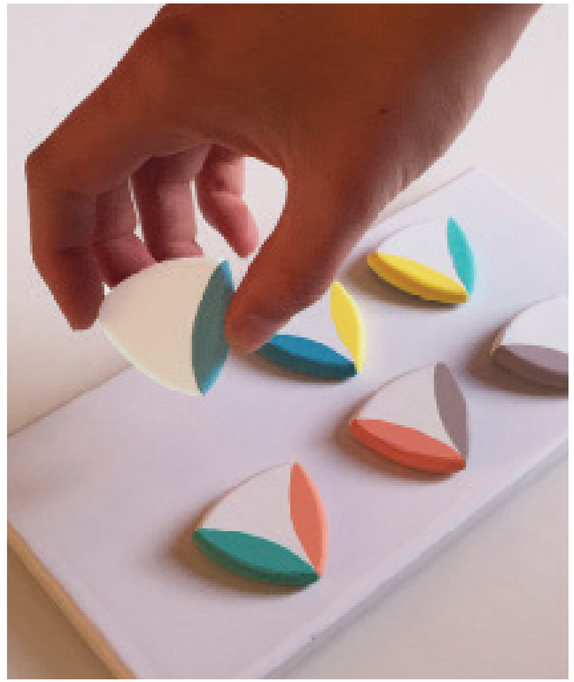
3D SKETCHING

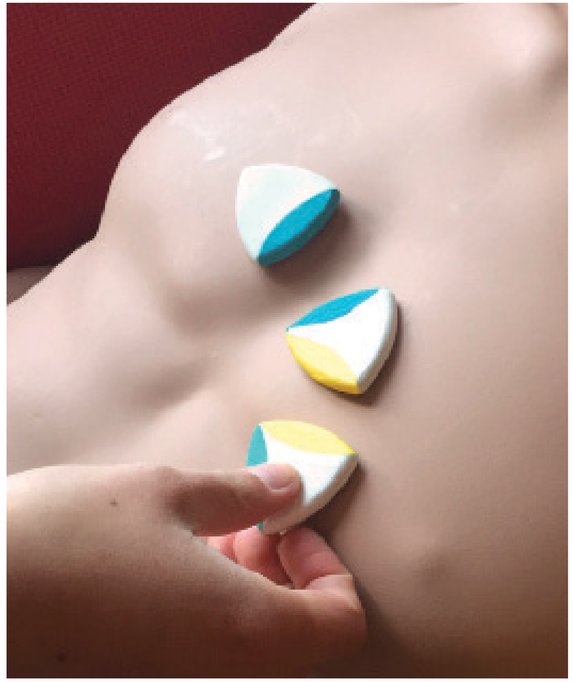


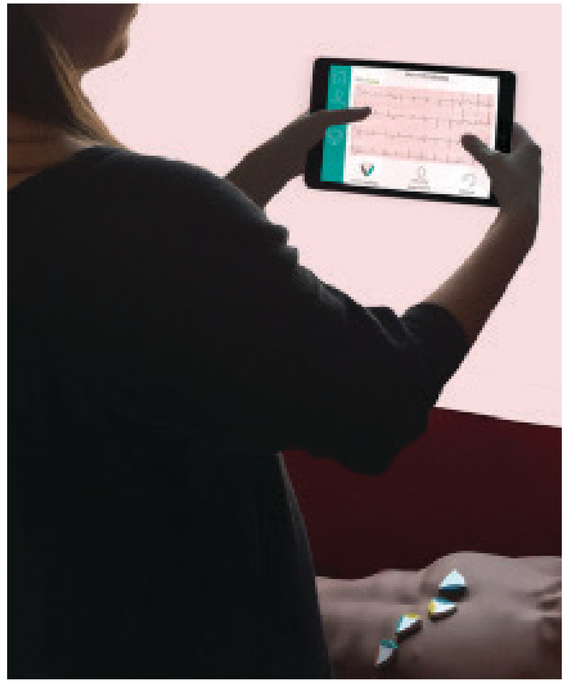


3D SKETCHING WITH CLAY

To come up with an practical and user friendly form, I started to work with clay. I played around with it and made different forms that felt ergonomic and easy to hold. Though I came to the conclusion that the forms with volume needed more material and the grip for the fingers wasn't necessary.





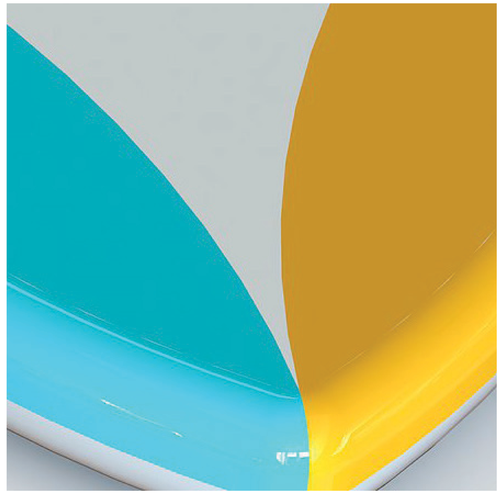


HOW IT WORKS

The components are fully charged on an induction charger and are ready to be used. The colors help the nurse to place them in the right order on the chest.

When placed on the chest, they light up to show that they are on and have connection to the application on the tablet.

After all components are placed, the nurse can start the examination and save the result directly in the journal of the patient.



RESULT

COR makes the procedure easy as the product is wireless and connected to an application that can be used on a tablet. This makes it simpler for the nurse to gather all the information in one place, and gives access to the patient's previous results.

The attachment on the body is faster, since you see the order of placement by the colored pattern on the electrodes.

The procedure also becomes more pleasant for the patient, since the wireless product togehter with the shape and color, gives a calming and easy experience.

TRICYKLE

The aim in this project was to make a tricykle for a sports company. The brief said that the tricykle would be a complement to their existing products, since they wish to create a new direction.

COLLABORATION

The aim in this project was to make a tricykle for a ficititues sports company.

DURATION

4 weeks project

PROJECT TYPE

Individual

BACKGROUND

During this project my focus was mainly on functionality and making an easy assamble. At the same time I was inspired by mountains and hiking.

I got influenced rials by the way you assemble tents and thought about a way to make the tricycle foldable. This way, you can get the product in a flat package and also assemble it yourself. This will also reduce the cost, with logistics in thought.

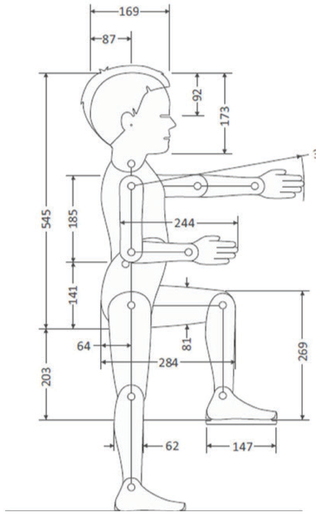
TARGET

Urban families that are interested in design and sports

Children from the ages 3-5

"Encurage play and outdoor activity"

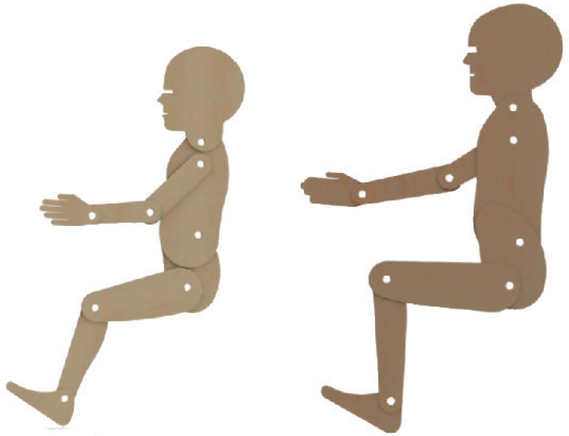
RESEARCH



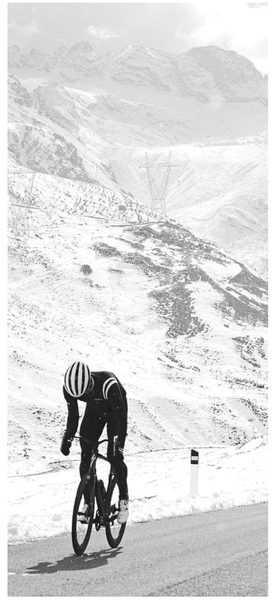
Anthropometric sketch from NASA.

For this project, we went to a kindergarten and played with the children. We looked at the kind of tricycles and bikes that they had, and which ones the children seemed to prefer.

One of the goals of this project was that the tricycle would fit 3 to 5 year olds. This tricycles measurement is based on NASA's anthropometric research. I made two models in Solidworks, one 3-year old and one 5-year old and used them to make sure my tricycle was suitable for both.



3 year old 5 year old



MOODBOARD

My purpose when designing for children, is to create a feeling of curiosity in the user. This demands an interesting object that does not stand in the way of imagination.

For play to take its form and occur naturally it has to be the primary element, both for the child and the designer in the exploratory process. I played with tricykles myself and played around with different ideas when brainstorming.

Since the project had a focus on sports, I got inspired by my own experience of hiking. I thought of structures in nature and got inspired by mountains.
I also wanted an easy structure to the tricykle and used the same way of thinking as when building up a tent.

RESULT

The parts are sand casted components and aluminum tubes. Sand casting is a good method for the connections because of the size. You could fit many parts in one mold.

You can easily assemble the bike yourself by screwing the aluminum tubes into the connections. This also allows the product to be delivierd in a flat package

NOBLE

Nobel is an office armature designed by me and Sara Eriksson, in collaboration with the lighting company Zero.

COLLABORATION

In collaboration with the lighting company Zero.

DURATION

4 weeks

PROJECT TYPE

In pairs

ZERO®

BACKGROUND

We wanted to create an armature that expressed the design language of Zero, simplicity with a twist. The idea behind Nobel was to make a flexible light for work-spaces which could be adjusted according to the user's need.

The light can be pointed downwards or upwards depending on what kind of work you are doing.

ANALYZING ZERO

In this project, we cooperated with the Swedish lighting company ZERO. They gave us the challenge to design a luminaire that suited their corporate identity so we started with analyzing their assortment.

Zero's assortment is innovative and enthralling with e a simple expression.

TARGET

People with varius work assigments that requires different lighting during the day.

OBSERVATION

To be able to change the light during the day is the most important for a comfortable workplace. When youre not using the lamp for focus light, its more needed as ambient lighting to create an nice atmosphere, as seen on the picture.

CONCLUSION

Ambient light

Personal

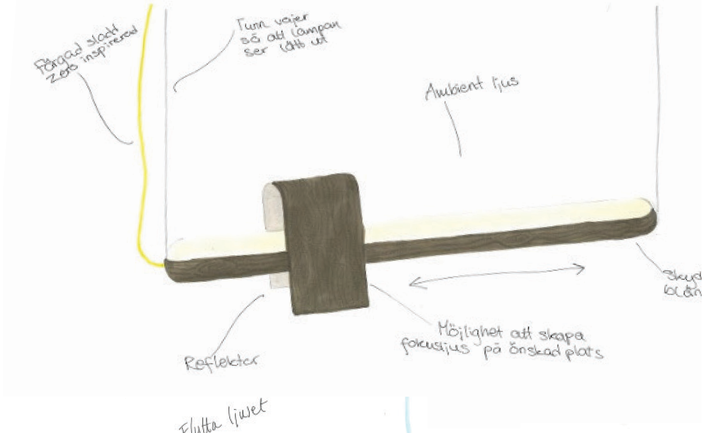
Adjustable

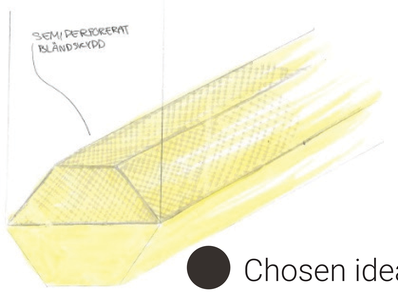
A personal work light is the most important for a comfortable workplace. It is important to be able to interact with the armature by turning and adjust it as you wish.

The desk lamp in the office becomes more as a supplement and is used as a soft, indoor lighting during evenings and the winter months.

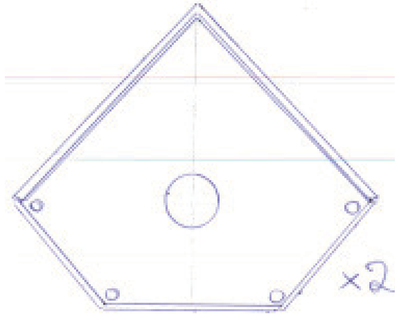
The problem with the general interior lighting is that the brightness is constant. The possibility to change the hue is also significant.

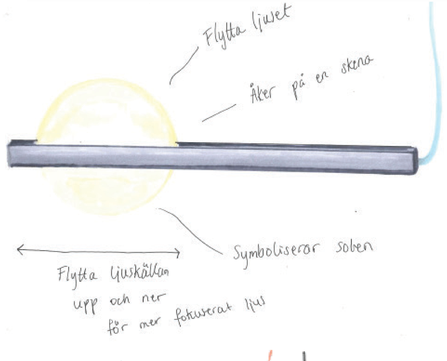
EARLY IDEAS

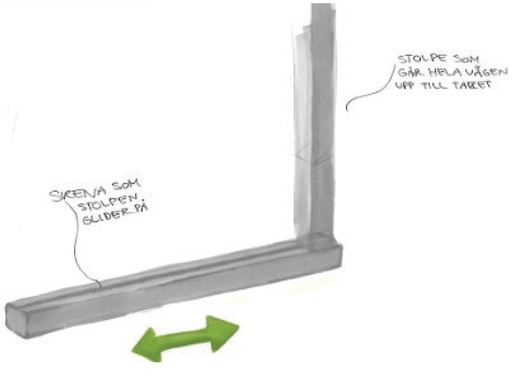


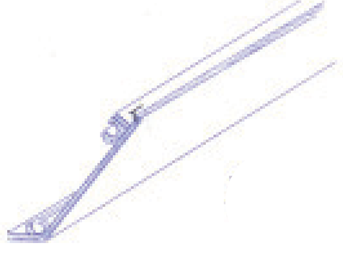


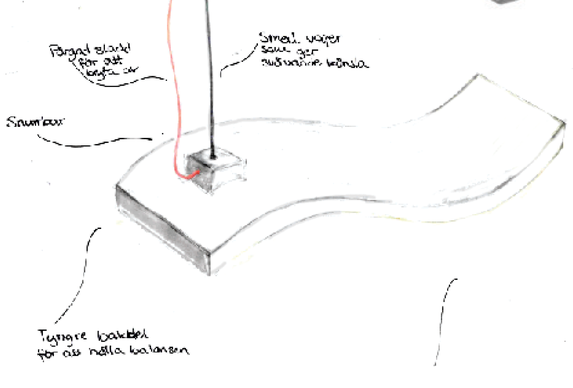
Chosen idea

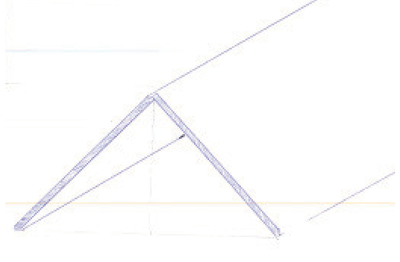








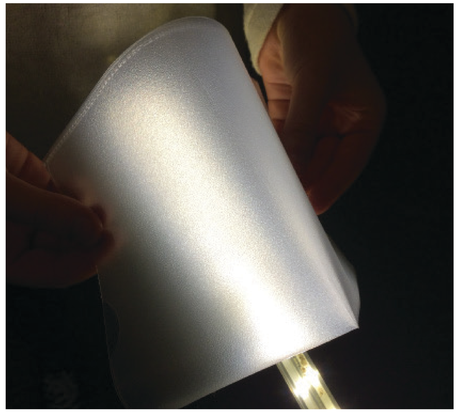


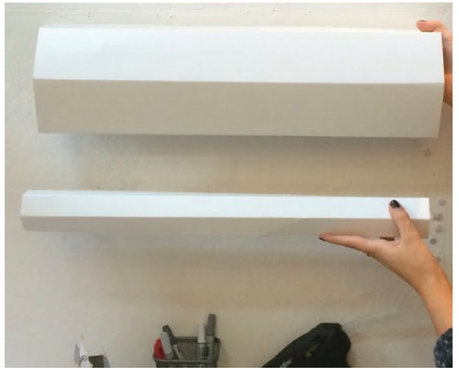


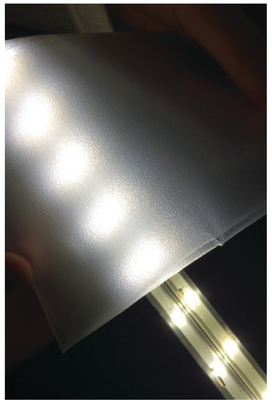
FINAL DESIGN- CONSTRUCTION IDEA

SKETCHING

After the research and observation, me and my collegue started to sketch on different ideas. The main focus was to meet the identified needs. We had a lot of different ideas how to create a lamp that could provide both focus light and ambient light, and at the same time be personal and more playful than the usual office lamps.



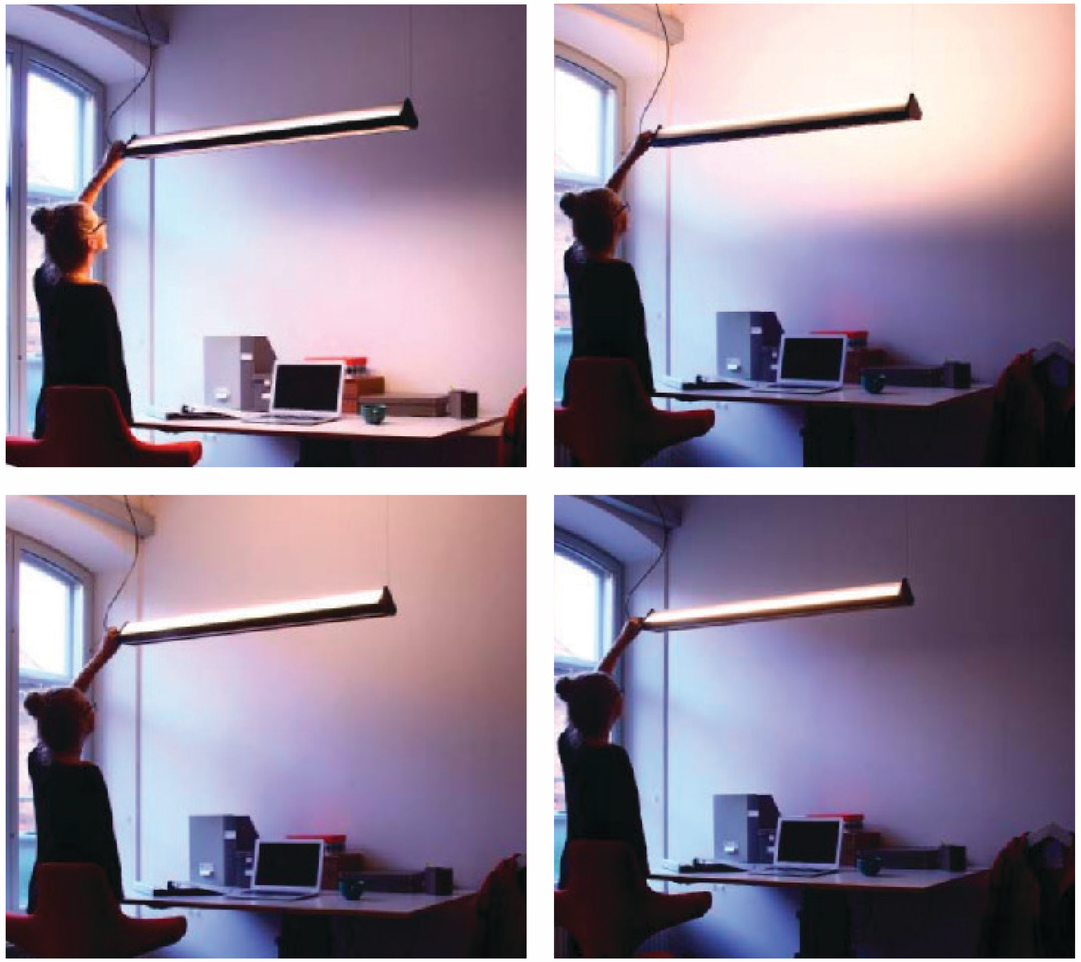




LIGHT TESTS & PROTOTYPING

We wanted our armature to have an ambient light and tested a lot with LED and different diffusers to get the light that we were after. We also sketched in 3D using paper, both really small and in full scale.

We spent a lot of time in the workshop. First, we tested our chosen design in wood to see if we needed to make any changes before making the final model.. We also tried out the turning mechanism and improved it.



HOW TO USE IT

With a downwards pointed light, the light will be bright and spread well on your workspace, ideal for paperwork. Whereas you get a softer light that changes the mood in the room with a upward light. To change the light from one position to the other, you simply turn the knob.

RESULT

A flexible office lamp

Adjust the light after your work or mood

Change between focus or ambient light

Thank you!

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