

PORTFOLIO

INDUSTRIAL PRODUCT DESIGNER.

Worked in Tokyo, Japan

Worked in Bangalore, India

Minor in Denpasar, Indonesia

Thesis internship in s' Hertogenbosch, Holland

Interned in Aarle-Rixtel, Holland

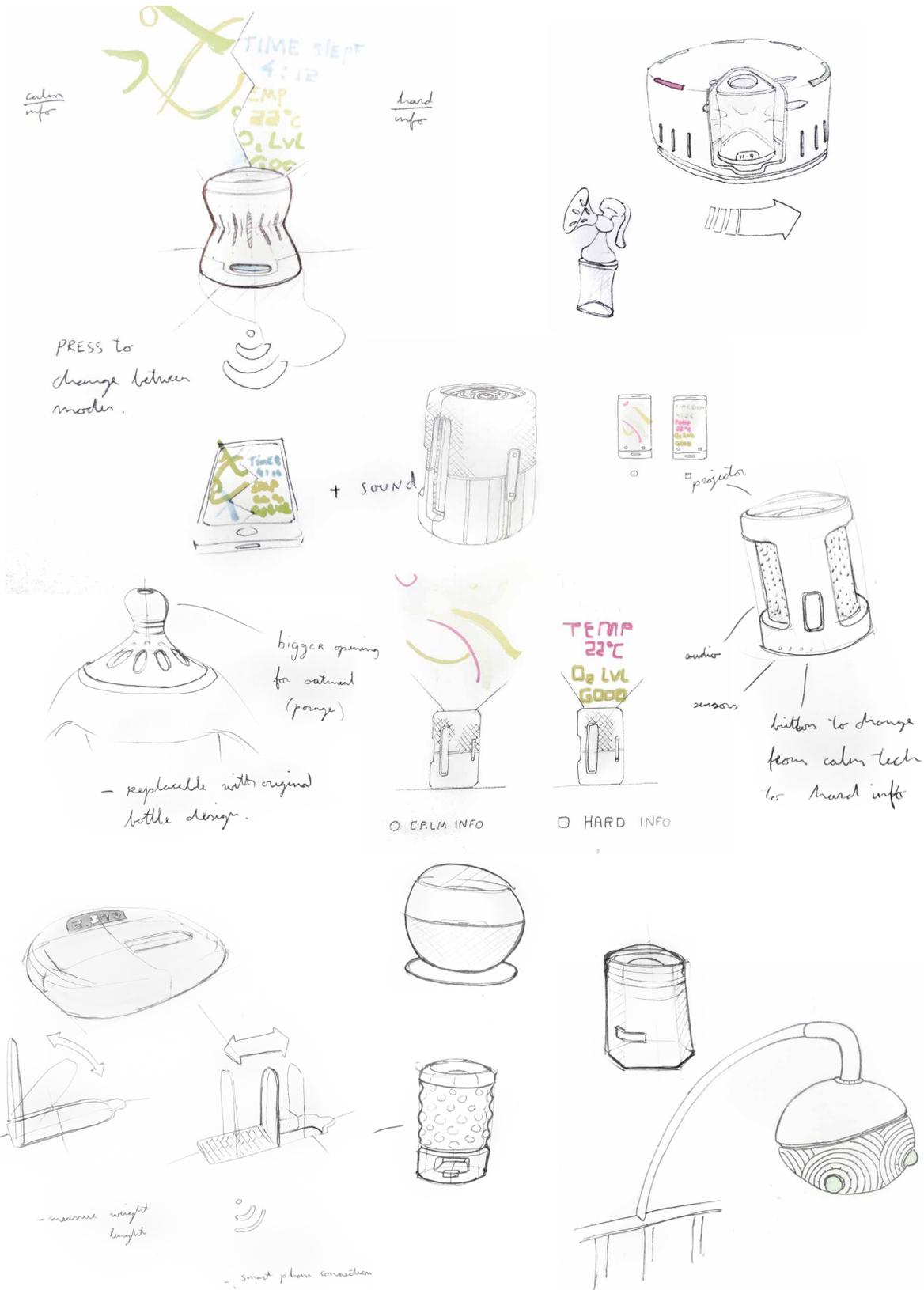
Studied in Venlo, Holland

Minor in Venlo, Holland

MARTIJN VAN DIJK

2018.

Phillips Advent



Ideas and concepts for the Philips avent project.



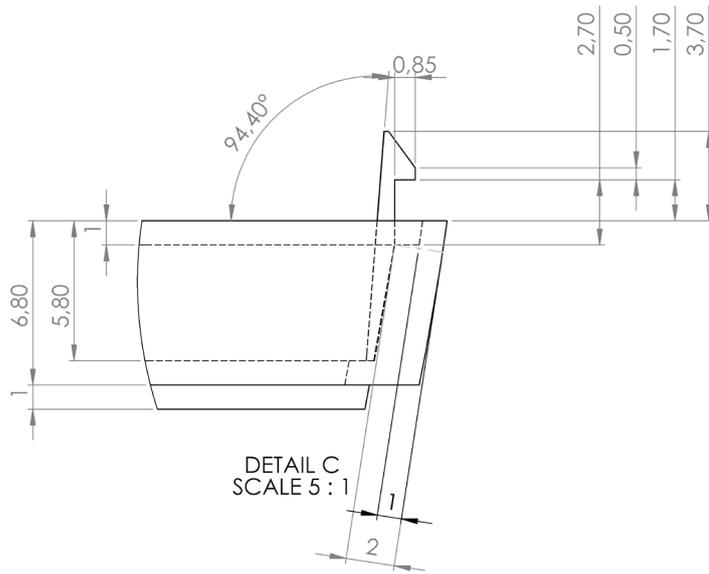
SMART BABY CALMER

4th year project: Our client Philips Avent wanted us to develop a product for babies in their first 1000 days. The Smart Baby Calmer as a result. When you tuck your baby in, you place the egg in the crib and push the power button on the docking. The egg will start measuring if your baby makes any sounds. When your baby starts crying, the Smart Baby Calmer will activate and start playing calming sounds. It will also shine a calming red or yellow light. The device searches for the right sounds that work for your baby. The more you use the device, the more effective the sounds are, because the Smart Baby Calmer remembers the sounds that work for your baby. When your baby is asleep, the device will keep measuring for 45 minutes. After that it will shut down until activated by the parent. The device will find the right sounds for every baby.

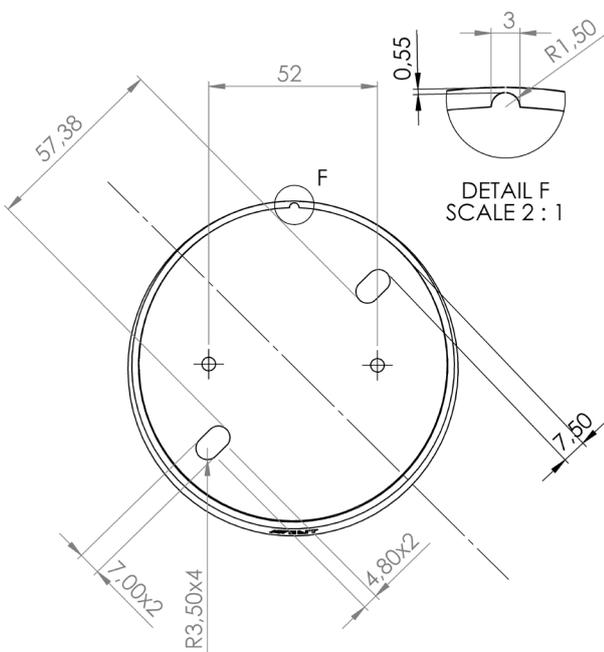
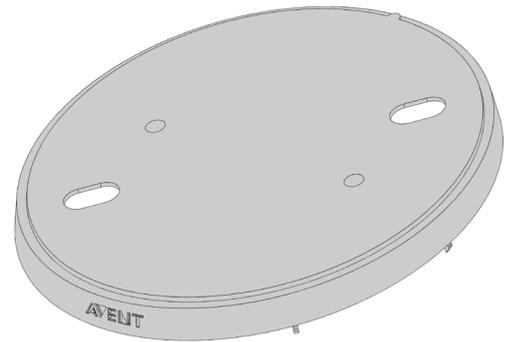
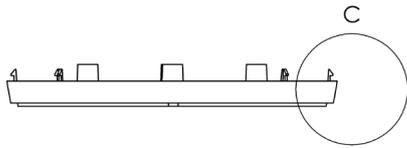




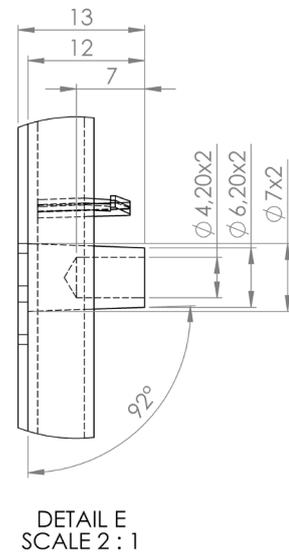
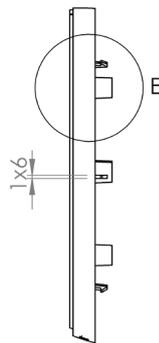
Exploded view, with snaphooks, drafts, lip and groove and screw tabs.



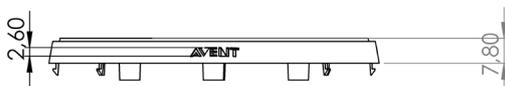
DETAIL C
SCALE 5 : 1



DETAIL F
SCALE 2 : 1



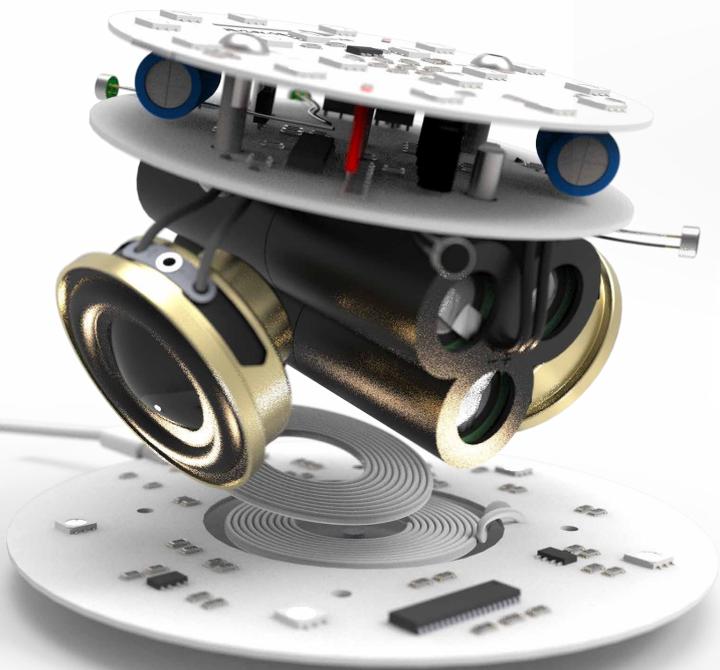
DETAIL E
SCALE 2 : 1



Technical drawing of one of the injection mold parts, here we thought about drafting and the connections.



The baby calmer charges wireless on the docking. An indicator ring light shows the charging status.



2019.

Thesis project



THESIS PROJECT

For my thesis project I worked at Smaac in s' Hertogenbosch, here I worked on the development of a baby rocker. Smaac had a problem for me to solve: many parents have a baby that cries in a moment where you don't have time, this can be when you are putting away the groceries, are pushing your other child on the swing or when you have people over. Thus a device was developed that, with the use of a weighted mechanism, would rock your baby-stroller with the baby inside. The rocking motion would calm down the baby.

The whole externals and internals were developed, with a working prototype including light animations. The prototype was tested with several babies, this small sample size responded positive. Due to company secrecy I am only allowed to show detail images and some sketches of other concepts.

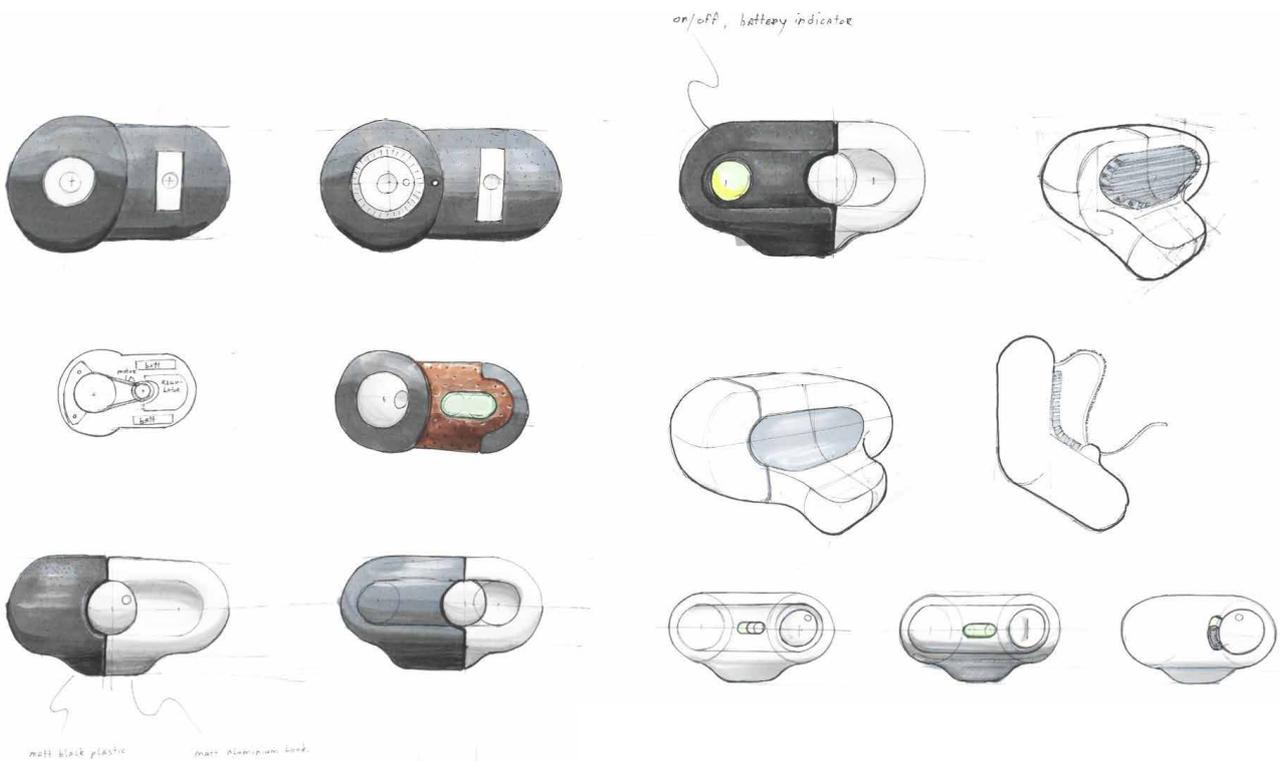
The company is going to the client with the work that was delivered.





Smaac taught me how to make more realistic renders in Keyshot, using dust, different kinds of lighting and fingerprints, just to name a few.

Below are sketches of one of the many concepts. With the use of a Kesselring method the final concept was chosen.



2018.

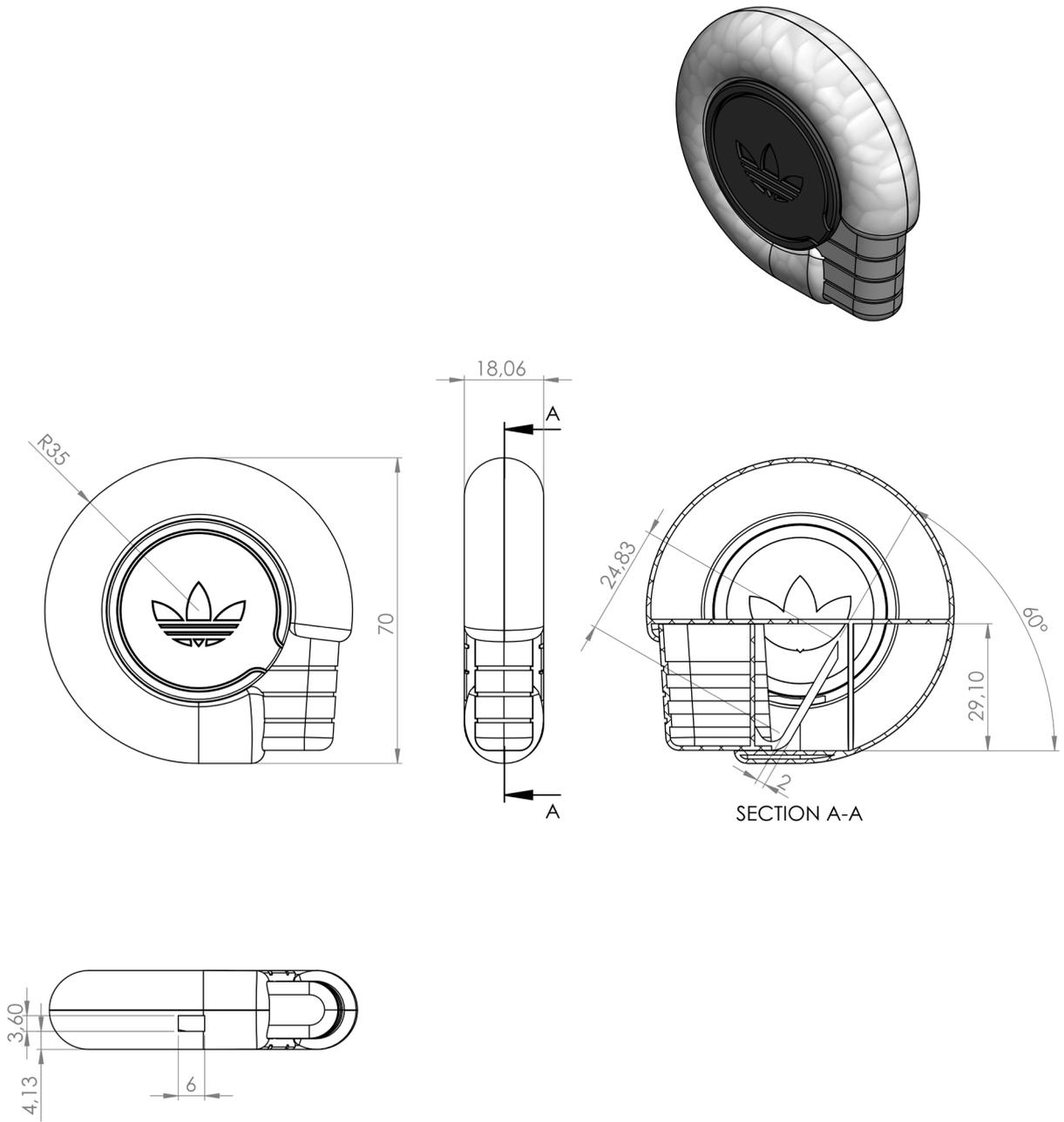
Adidas candy dispenser



ADIDAS CANDY DISPENSER

Fourth year assignment: with the combination of excel and SolidWorks the right size and strength of the spring inside the dispenser was decided. This made for a very realistic candy dispenser, in Adidas their new style.

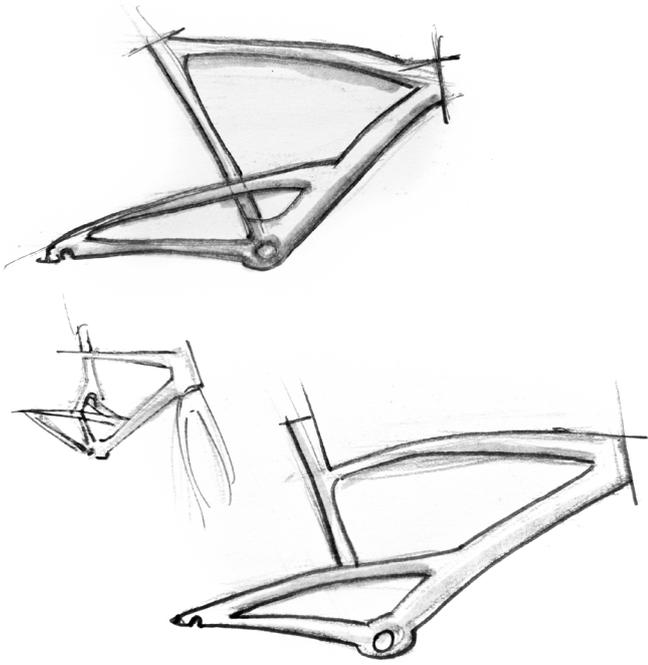




Technical drawing of the Adidas candy dispenser.

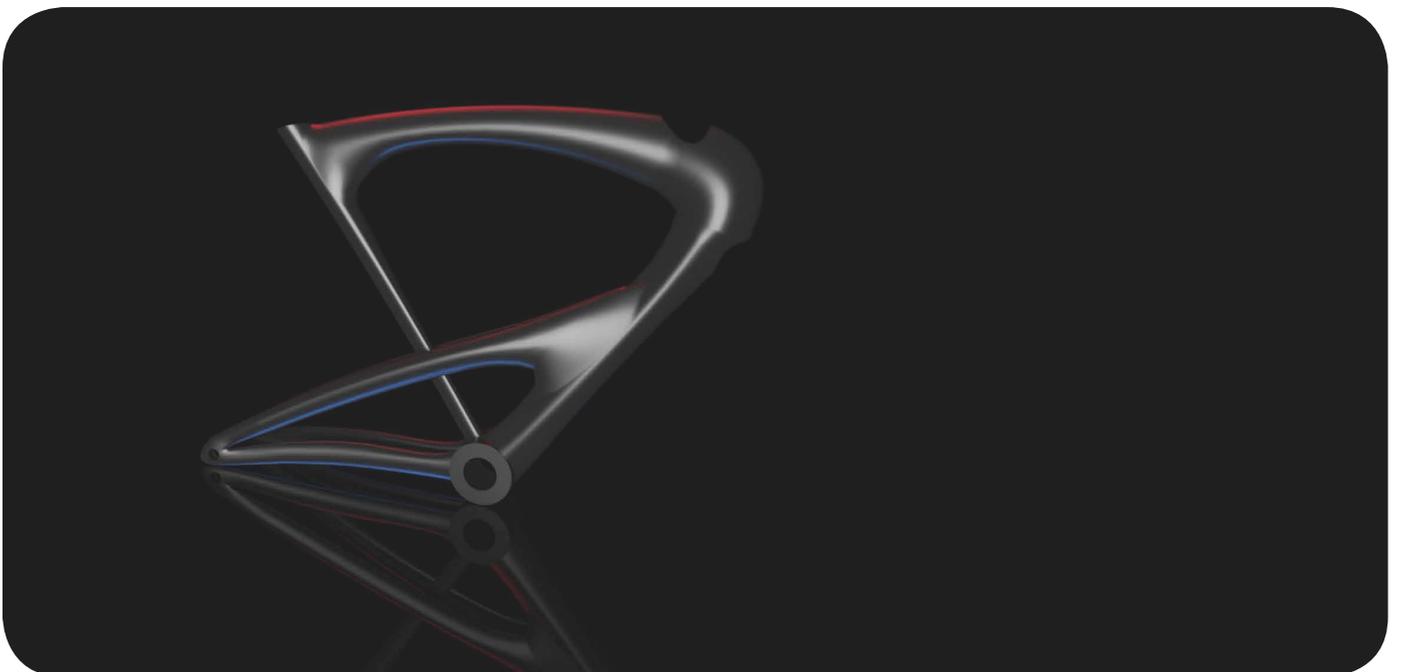
2018.

Bicycle frame



BICYCLE FRAME

Fourth year assignment: A quick Rhinoceros 3D design of a carbonfiber bicycle frame. Although my preferences lie with Solidworks for its accuracy and my experience with the program, Rhinoceros 3D makes designing a product with a complicated shape easier.



2017.

Electric Dutchman



ELECTRIC DUTCHMAN

My third year internship was done at Specs e-mobility, here they were developing the now in production Electric Dutchman, an electric scooter. I did multiple projects, one of my main projects was the development of a bag carrier. This carrier was done from start till prototype. During this project I learned to work with production companies and their rules, for example, the length between each bend is decided by their machines.





A different luggage carrier was developed for more mounting possibilities and a different look.

After my internship I worked at Specs e-mobility for another 10 months. Developing a new headlamp mount, cockpit, other mounting products, converting parts to Solidworks, and making some production line parts.



2015.

Desk organisier



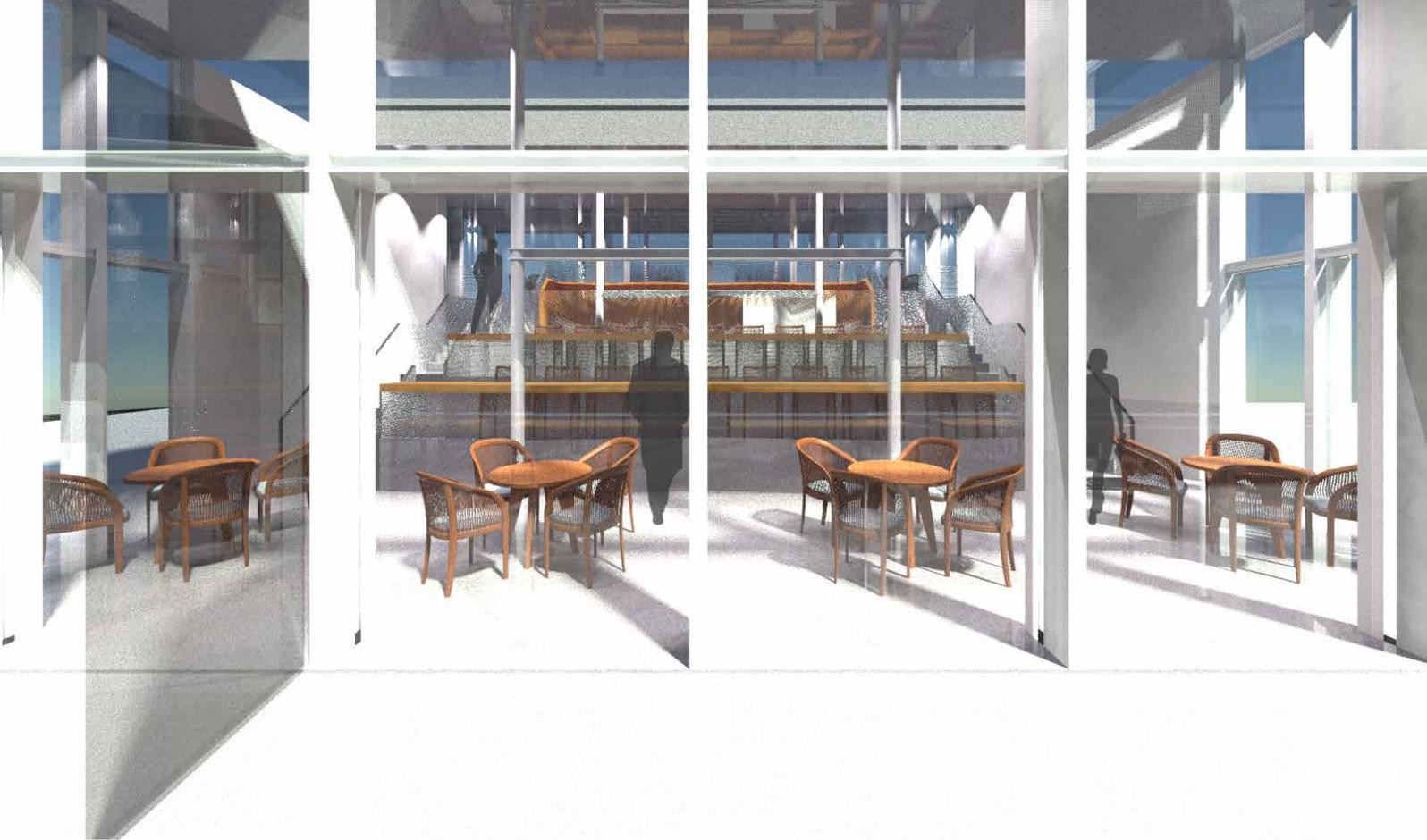
DESK ORGANISER

Second year assignment: A sequel project to the Cube project. Using inspiration from the cube named "Indonesia" I designed a segmented deskorganizer. This deskorganizer can be setup to your liking, with a seperate segment providing an electricity output. A mockup prototype was made to show the working and the electricity output. The mockup is shown above.



2018.

R e s o r t c h a i r



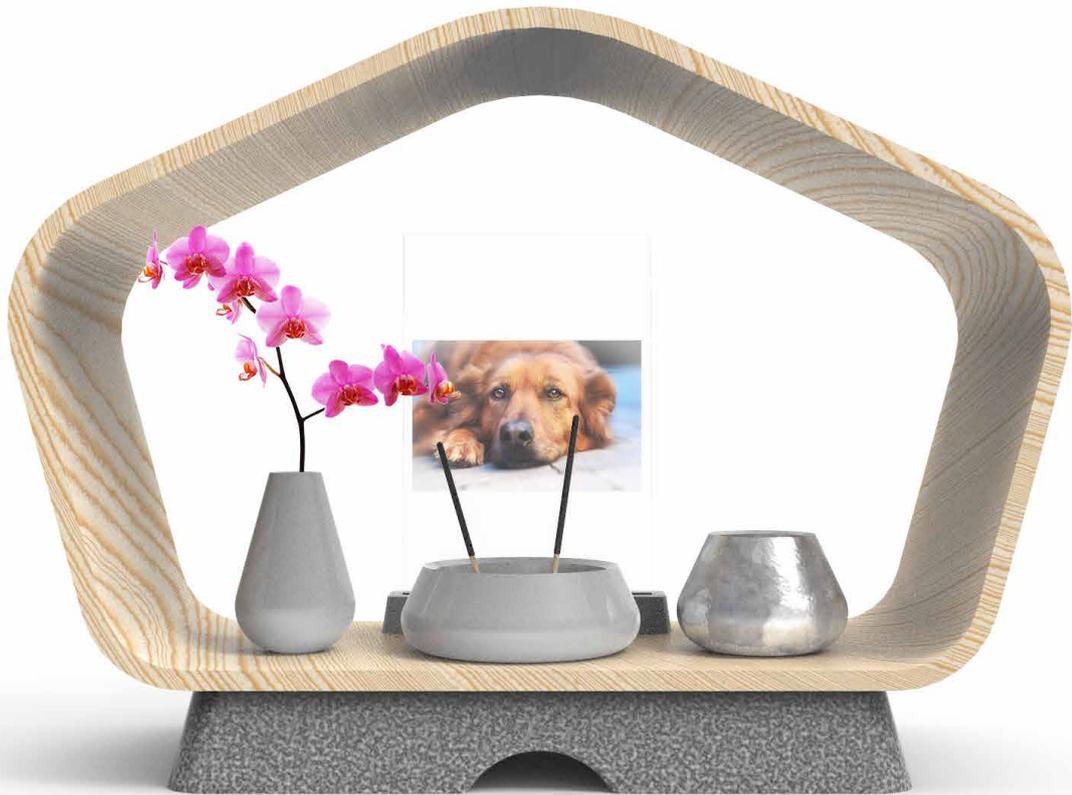
RESORT CHAIR (INTERNSHIP JAPAN)

During a three month long personal internship at “The Design Labo” located in Tokyo, I worked on numerous projects, one of them was a chair specifically made for a resort our firm was working on. Together with designing the chair I also needed to make the resort models and the renderings.



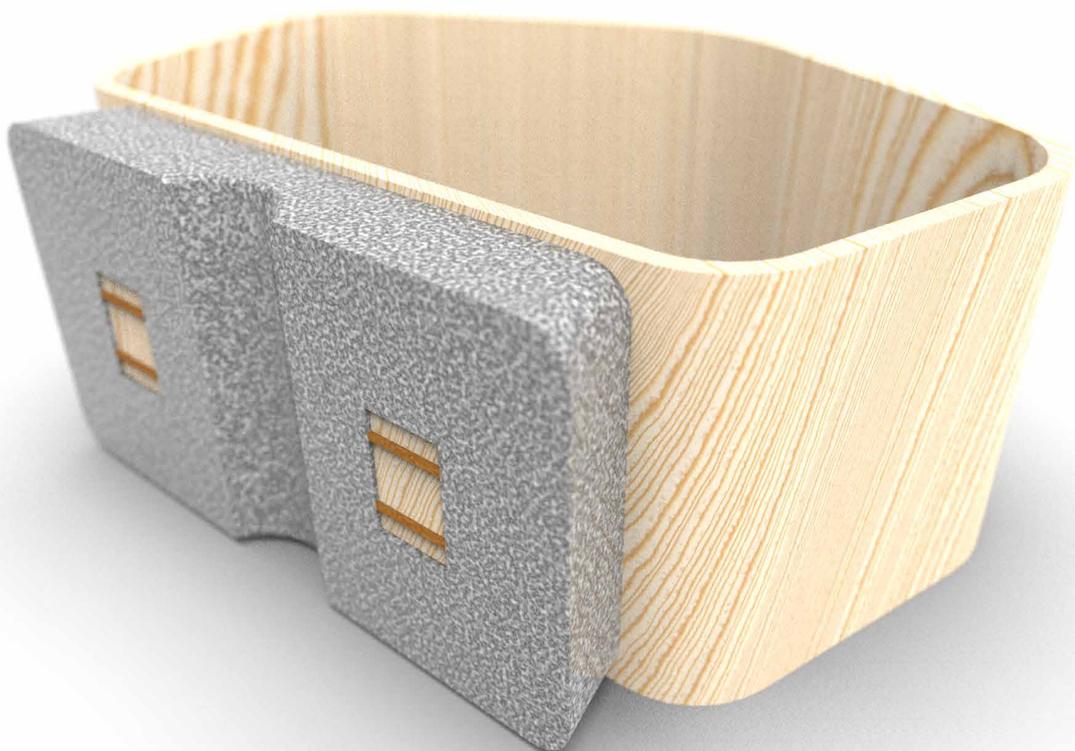
2018.

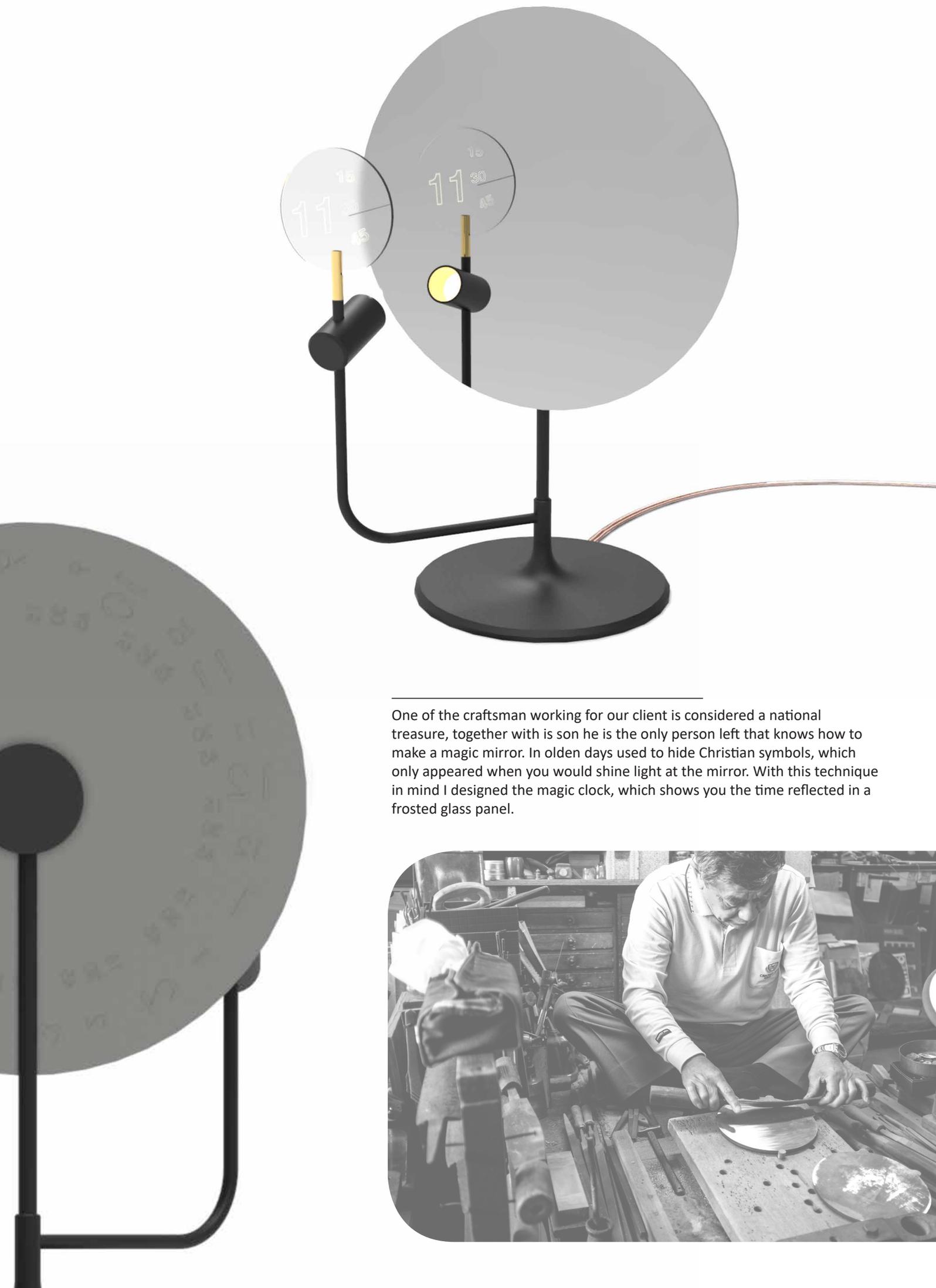
B u t s u d a n J a p a n



BUTSUDAN (INTERNSHIP JAPAN)

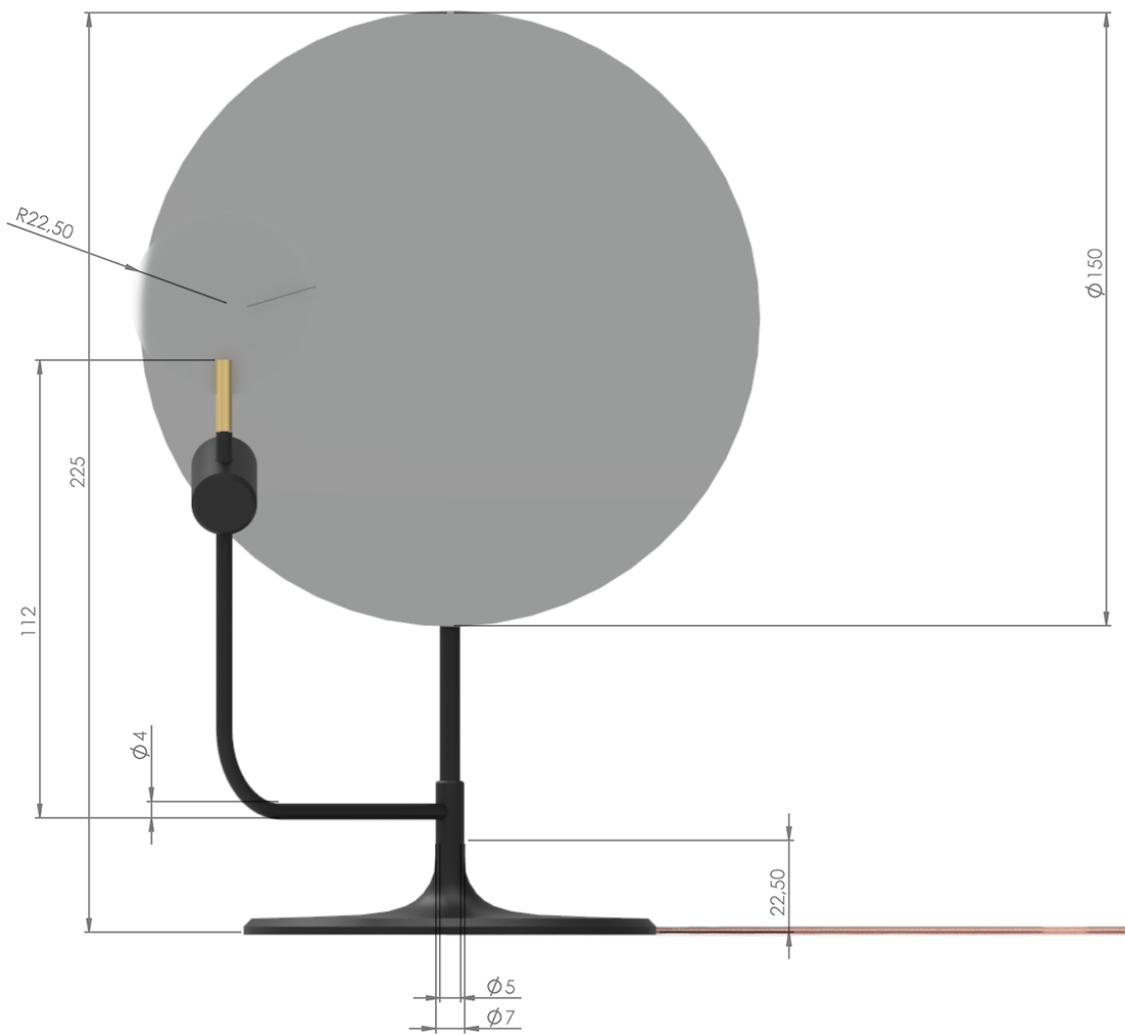
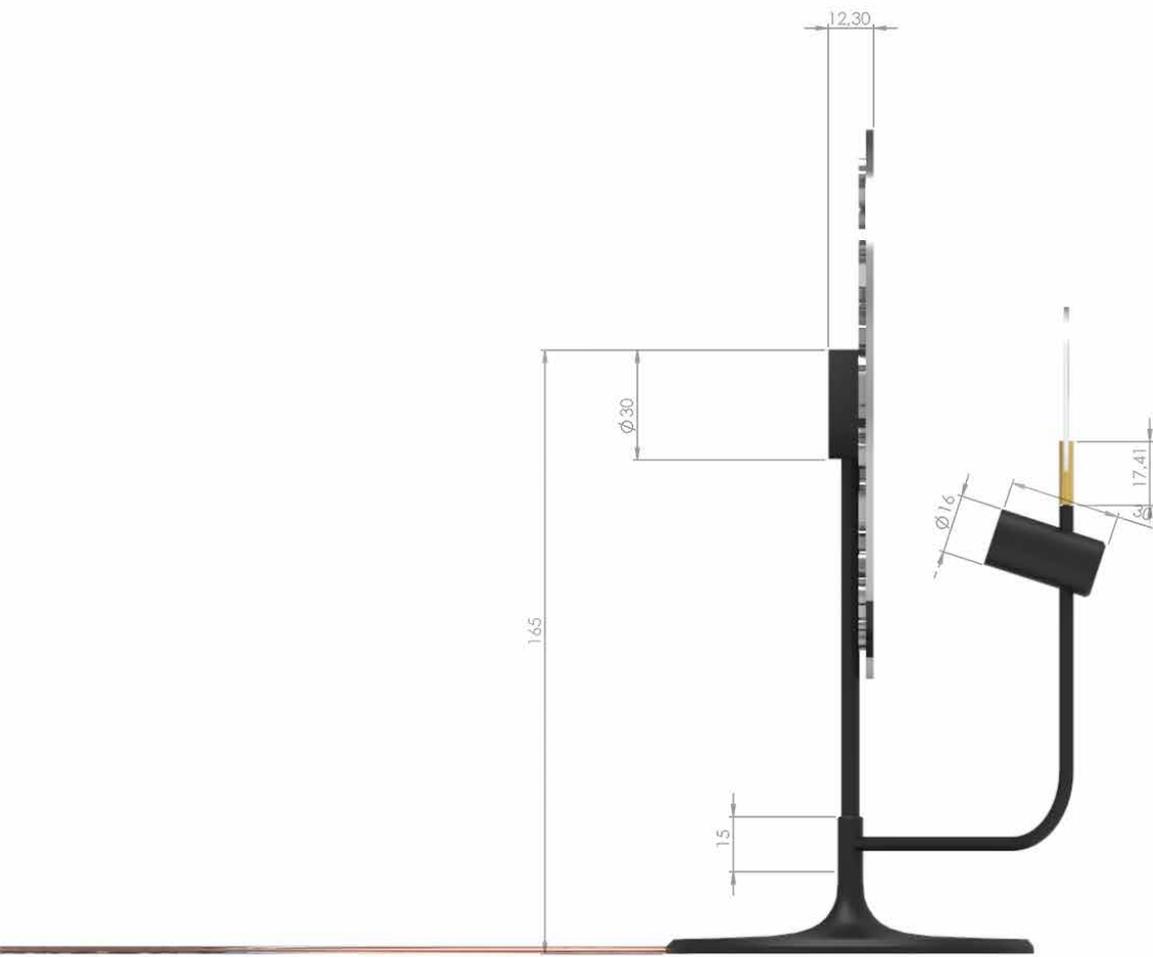
One of my main projects was designing a butsudhan (a Japanese Buddhist altar, often used in homes and temples), rather than traditionally big butsudans I needed to design one for small apartments found in bigger cities like Tokyo. Our client "Wakabayashi", a traditional butsudhan fabrication firm, has craftsmen all over Kyoto, which we all paid a visit, to see how they practiced their different crafts. With all this knowledge I designed multiple different concepts that benefit the craftsmen's skill.





One of the craftsman working for our client is considered a national treasure, together with his son he is the only person left that knows how to make a magic mirror. In olden days used to hide Christian symbols, which only appeared when you would shine light at the mirror. With this technique in mind I designed the magic clock, which shows you the time reflected in a frosted glass panel.

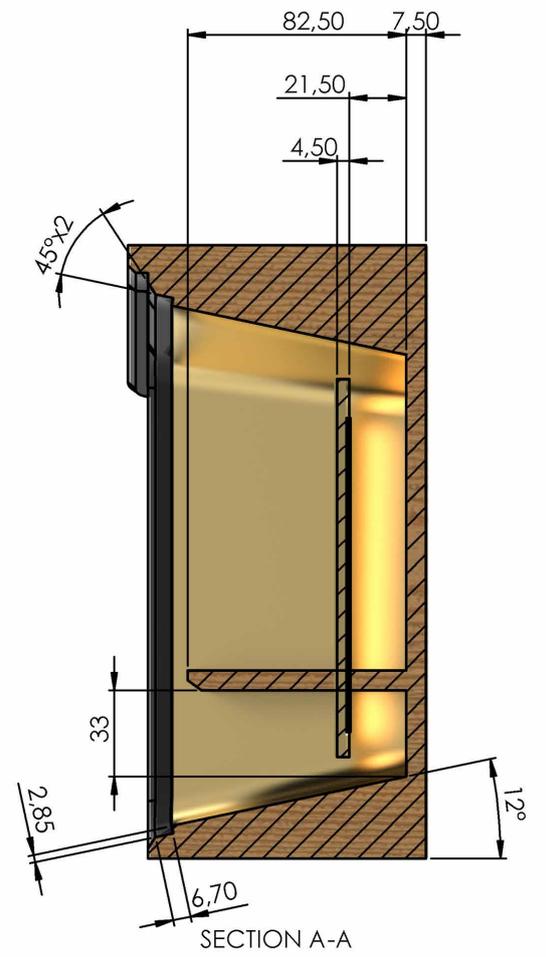
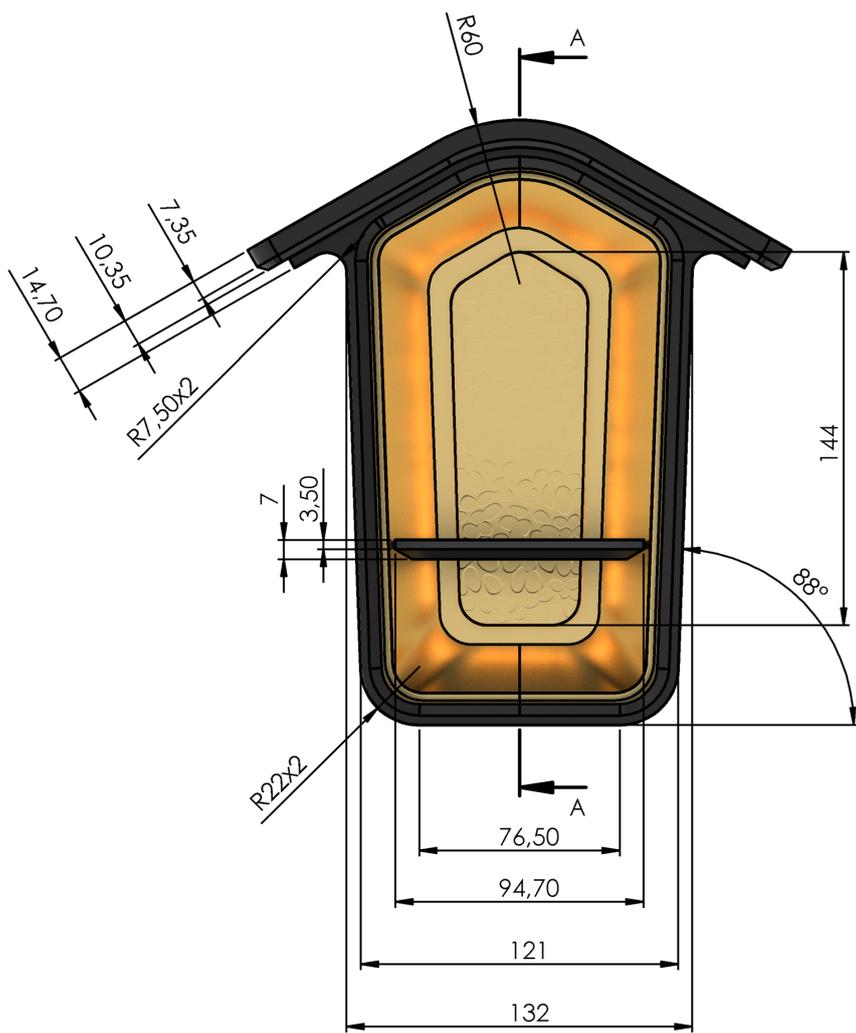






During this assignment I came across many differences between work done by our client and industrial design I am accustomed to. For example, using real gold is a must and the use of craftsman is not a problem for them thus price is not the deciding factor.





2018.

Miele vacuum cleaner



MIELE VACUUM CLEANER

Fourth year assignment: Designing CAD product that is designed to be manufactured, take more time to design, but they look more realistic and are usefull when the step of manufacturing is chosen. This vacuum cleaner is made using Solidworks and is designed to be manufactured, with injection moulding in mind for many of the components.





Exploded view, with placeholder internals.
All parts are tested for drafting.



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