

A DESIGN PORTFOLIO



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Industrial Designer

# Projects

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## **CanT Charge - Master dissertation thesis**

NABA, Milan (Italy)

July, 2016 - February, 2017

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## **Demeter**

Whirlpool EMEA, Cassinetta (Italy)

November, 2015 - January, 2016

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## **Hatchback - Olivetti design contest**

Olivetti SPA, Ivrea (Italy)

February, 2016

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## **Honey Bee - Portable lamp**

NABA, Milan (Italy)

February, 2015 - March, 2015

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## **Kings & Queens Castle - Kids furniture**

Circu Magical Furniture, Rio Tinto (Portugal)

March, 2017 - May, 2017

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## **MASSIF - Set of furniture**

Dovetail Furniture Pvt Ltd, Bangalore (India)

September, 2017 - November, 2017

## **Funstruction**

NABA, Milan (Italy)

May, 2015 - July, 2015

In this thesis project, initially, my idea was to develop a hybrid functional product which can be fit in the sustainable energy context i.e. by which the alternative/natural resource of energy can be converted into a derived energy.

In my case, I chose to produce the electrical energy from the human power; and that's why in order to make this abstract feasible, I came up with this product called **'CanTCharge'**. It is basically a detachable bicycle luggage carrier which can be used as a lock of that bicycle and also as an electricity generator with the help of dynamo. This electricity is used to charge the small devices like cellphones, music players etc. when your bicycle is locked.

The word 'CanTCharge' is a combination of two different words, Cantilever + Charge. Since the whole product acts as a cantilever beam while you are pedaling, the word 'cantilever' is used; and since it generates electricity and is used to charge the electronic devices, the word 'charge' is taken. Apart from that, the letter 'T' is modified to show the cantilever position of the product while in use.



Medium



Fields

Sustainable Design, Bicycle Accessories

- Luggage carrier for bicycle
- Bicycle lock
- Electricity generator with the help of dynamo
- Eco-friendly
- Economic

## Abstract

Utilization and combination of natural/alternative and derived energy resources to create a hybrid functional product for a specific context and user

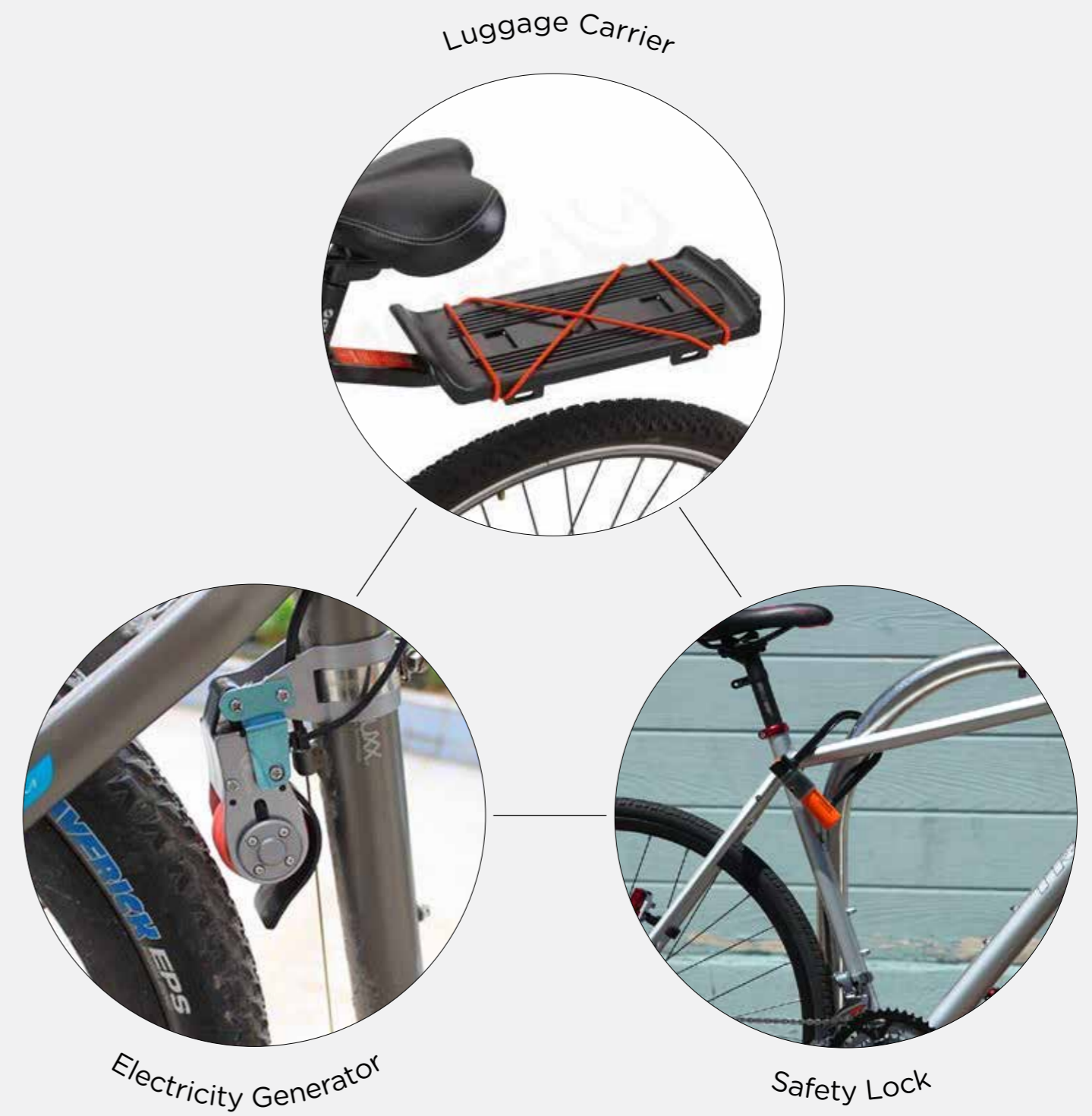
## User



## Why Cycling as a Use-case Scenario?

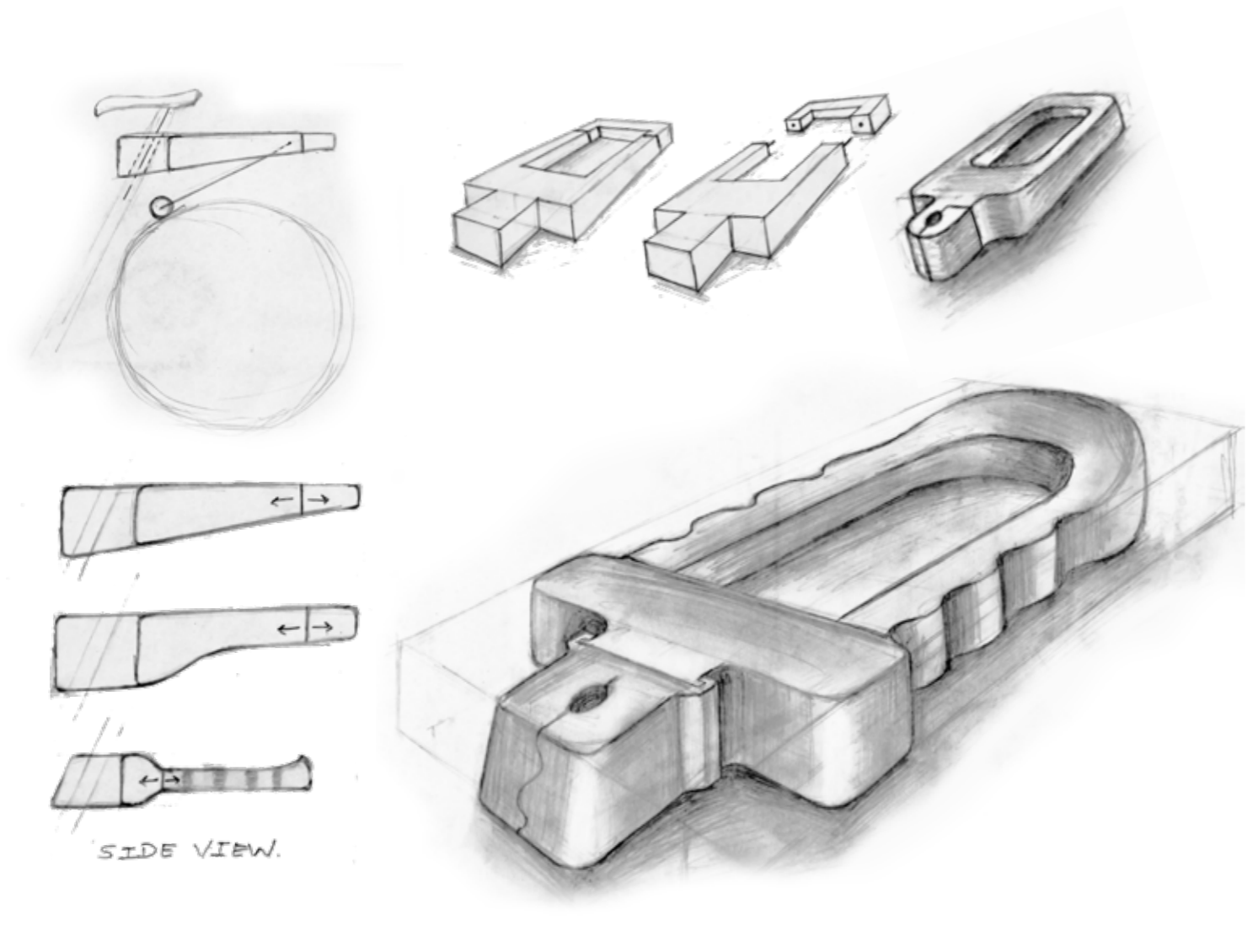
- Economic
- Eco-friendly
- Healthy
- People's awareness/interest

## Inspirations Combined





## Design Evolution

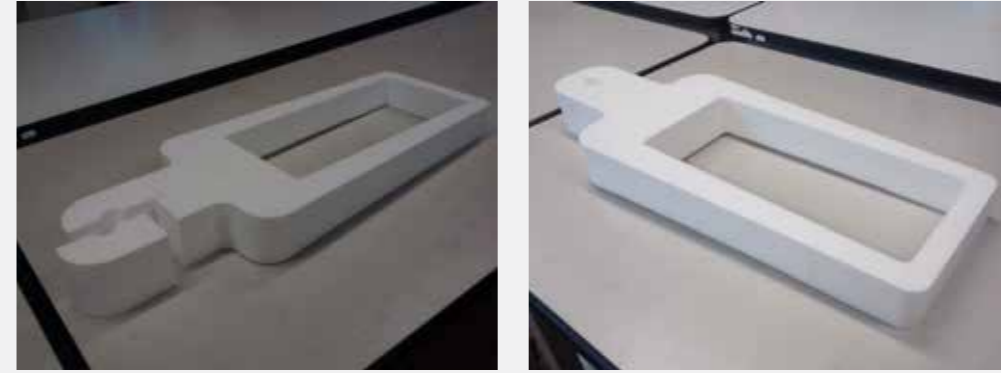


## Cellphone Charging Test with Dynamo



## Mock-ups

### First



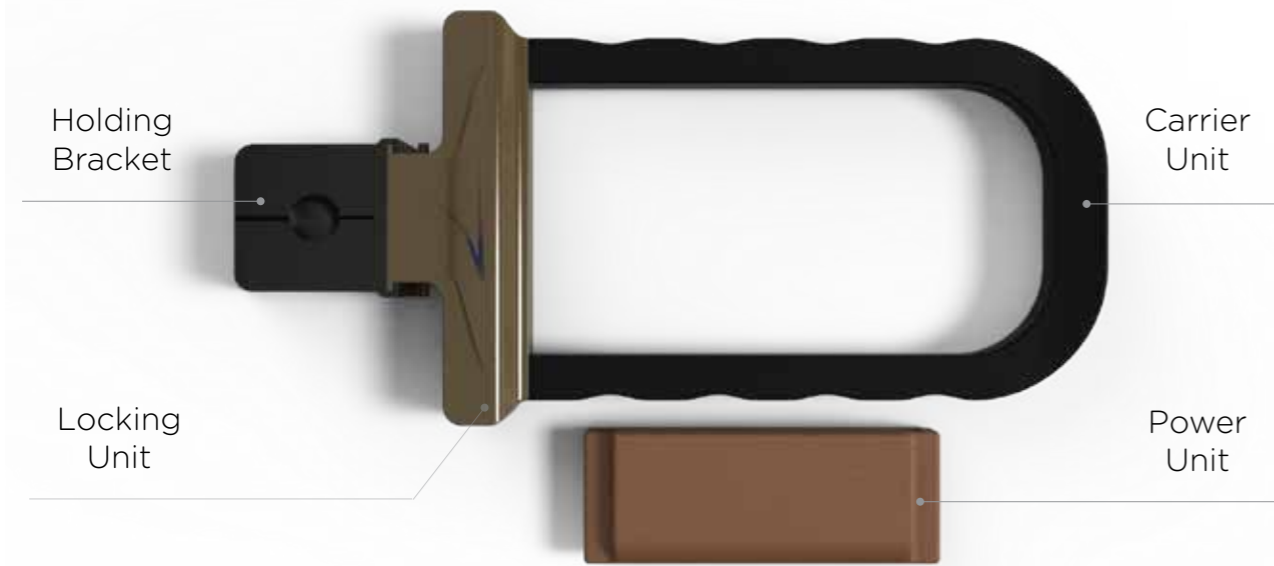
### Second



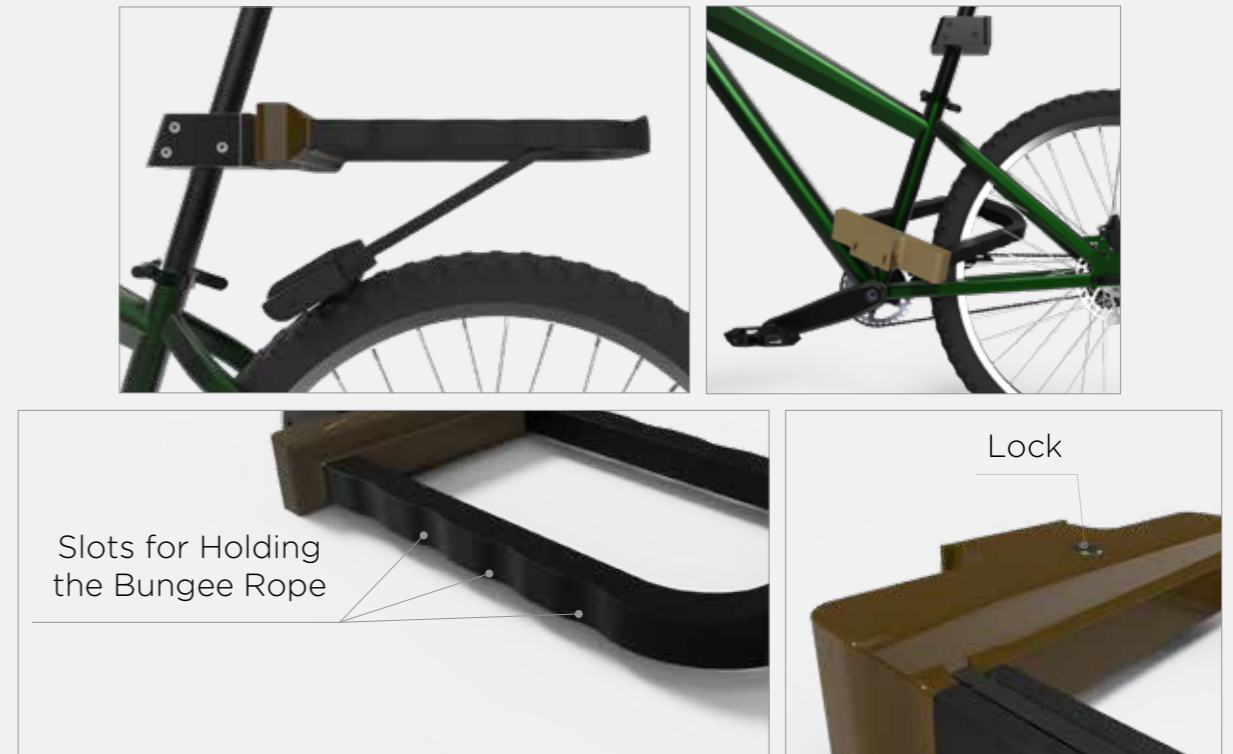
### Final



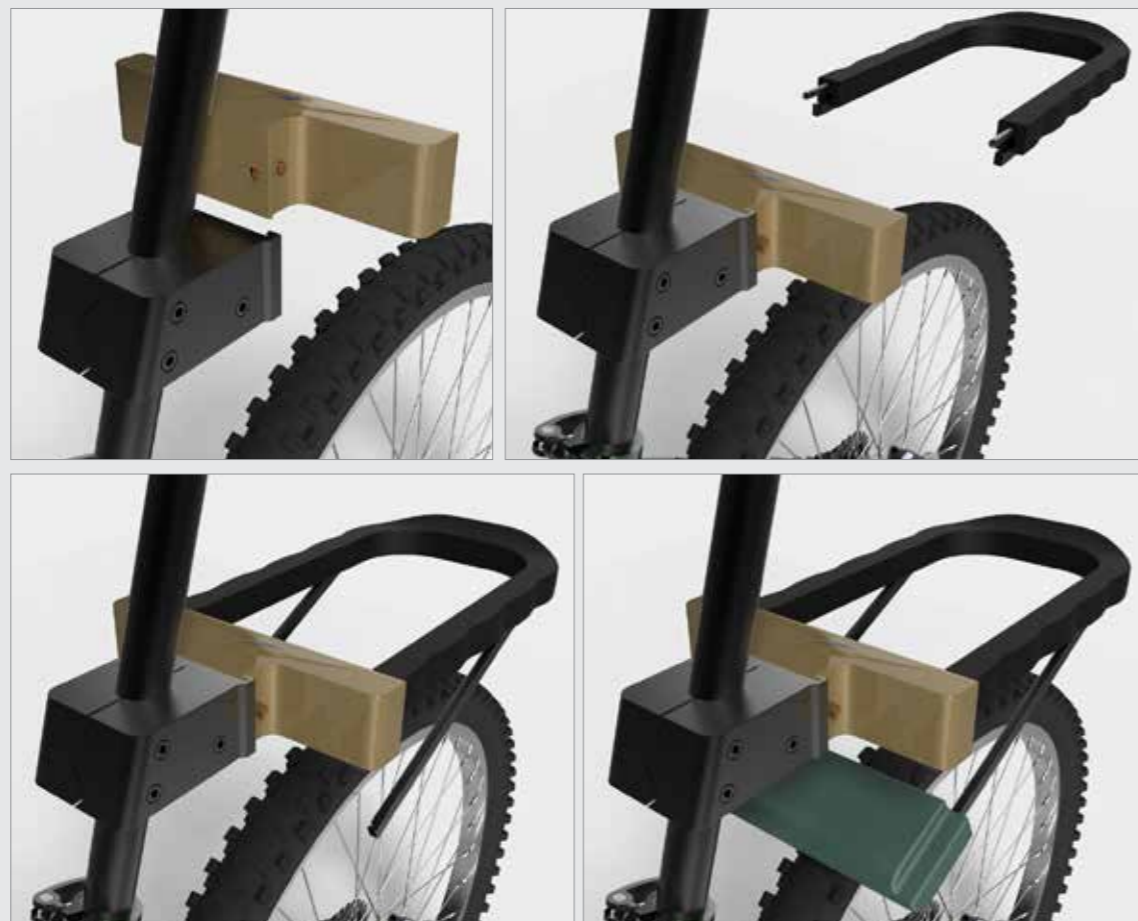
## Units



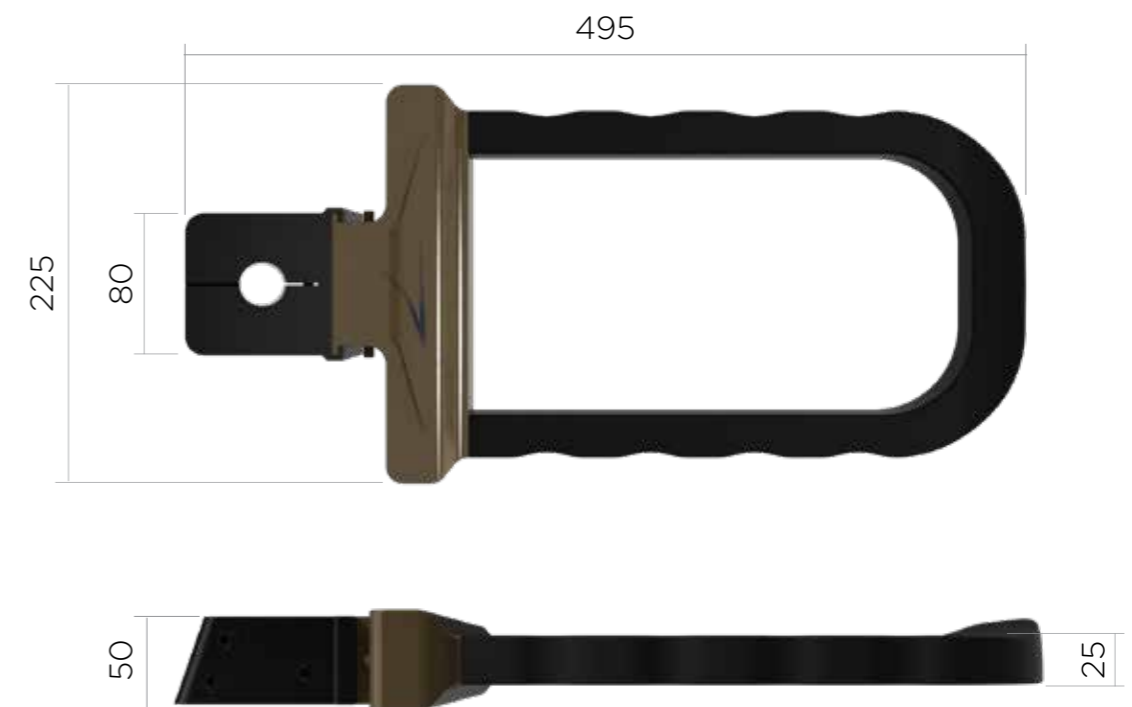
## Functions



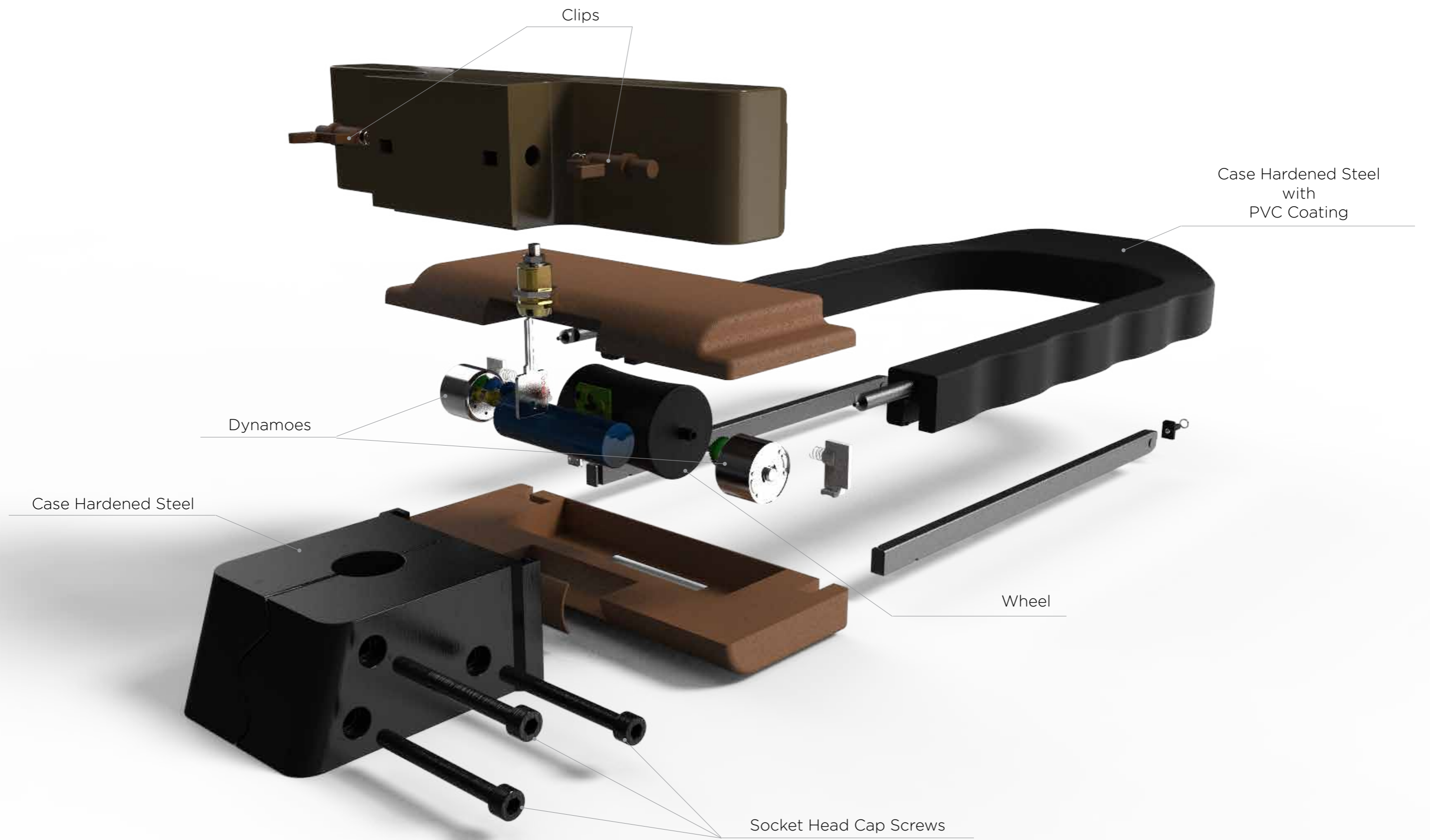
## Assembly



## Dimensions











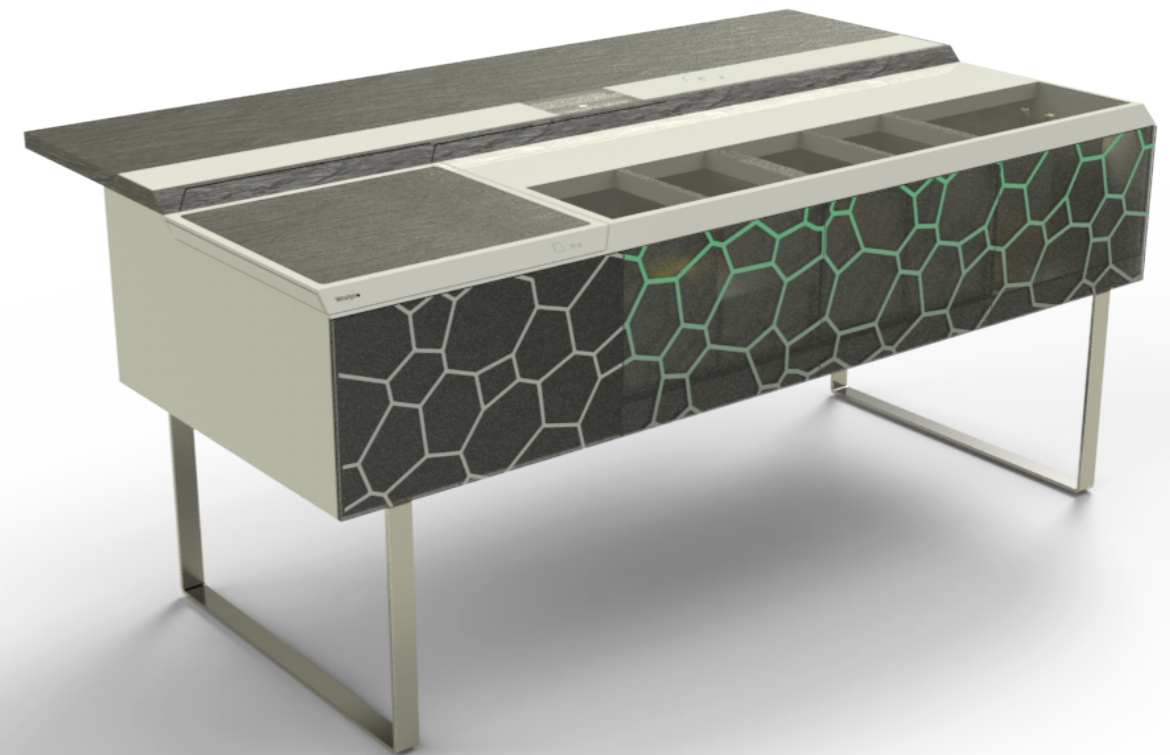
# Demeter

Whirlpool

'Demeter' is a concept of a future kitchen after 7-8 years. It was one of the group projects of the third semester with a partnership and mentorship with Whirlpool Europe.

Now a days, health is a necessity that everyone wants to reach and maintain. Traditional knowledge about food is gradually disappearing because of the misuse or almost the blind trust on the Refrigerators. A kitchen should be redesigned as a place worth to live in according to the new needs & technology. That's why we came with this concept of preserving the food with the combination of traditional methods & technology.

**YouTube:** <https://youtu.be/Uaq80k2kBf0>



- Hideable cook-top and cut-board
- Magnetic levitation technology for cook-top and cut-board gliding
- Hideable shelf for storage utensils and spices
- Wireless charging
- Trash bin
- Touch sensed water dispenser, cut-board and cook-top
- Dynamic pattern for food freshness alert on the drawers
- Interactive glass panel on platform
- Each drawer, particular temperature

Medium



Fields

Concept Design, Consumer Electronics

## Traditional Way of Food Preservation

First of all, all the vegetables and fruits don't require the refrigeration. but different temperatures, different environment.

Some vegetables like capsicum, brinjal etc. require constant humidity. That's why in the first compartment, a water tray is kept under the rack where yellow capsicums are kept.

Potatoes remain fresh if they are kept with apples because apples release Ethylene which is useful for potatoes. In addition to that, potatoes also require darkness. This is why they are kept below apples in the darkness in the second compartment.

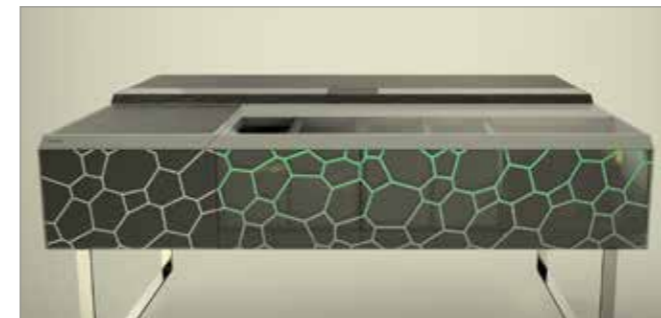
Some vertical vegetables like carrots require the right amount of humidity. That is why in the third compartment, carrots are shown keeping vertically in the humid sand.



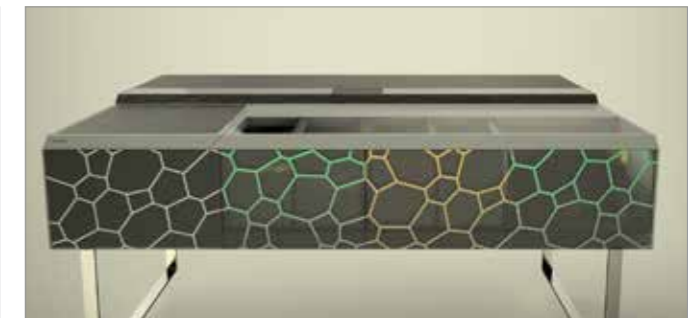
Closed



Opened



Green for Freshness



Orange for Unfreshness

Colored Dynamic Pattern



Trash Bins

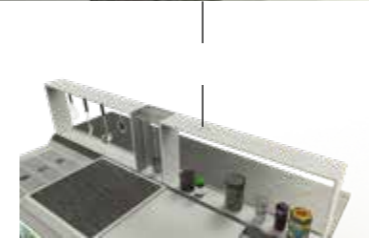
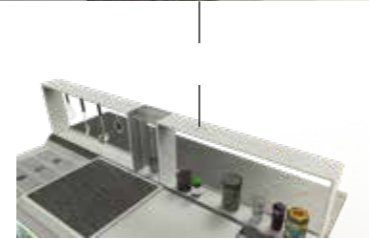
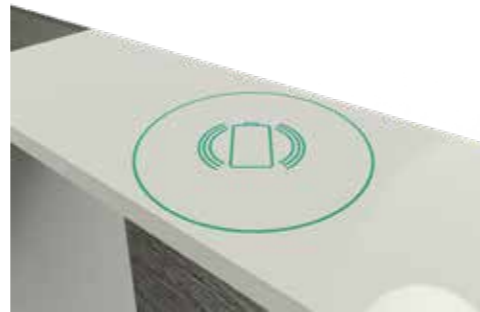


Cutboard

Cooktop



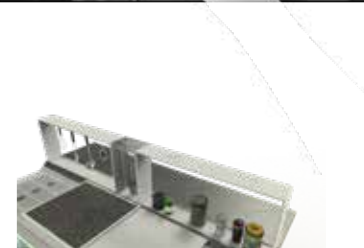
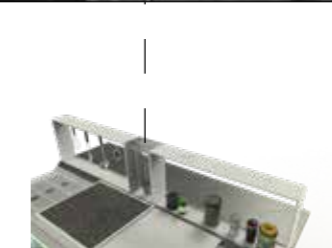
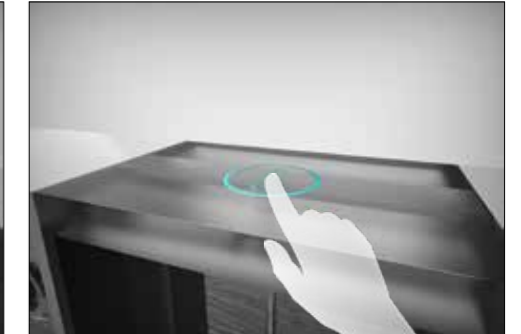
Interactive Glass Panel



Wireless Charging



Interactive Glass Panel



Water Dispenser





# Hatchback



This is a concept for developing an entry-level touch-screen Cash Register which would have 7-8 years of its life. It was held under the Olivetti Design Contest.

Basically, The criteria was:

- Replacement of the NETTUNA 250 model
- Entry-level & a Small-shop Product
- Eligible for Mass Production
- Easy-loading of the Printing Roll, Touch-screen Keyboard & 16x2 Line Dot Matrix LCD on both the sides

For the current concept, I took an inspiration from a car's aerodynamic shape in such a way that it can also serve all the functions intuitively; and its name is given as 'Hatchback' since, naturally, its side view resembles a hatchback car.



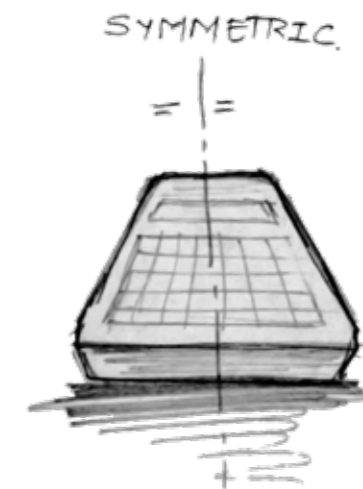
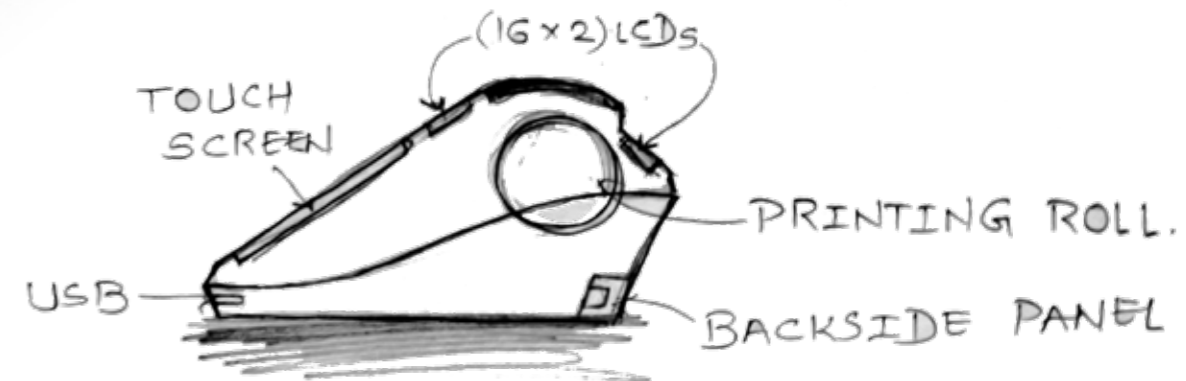
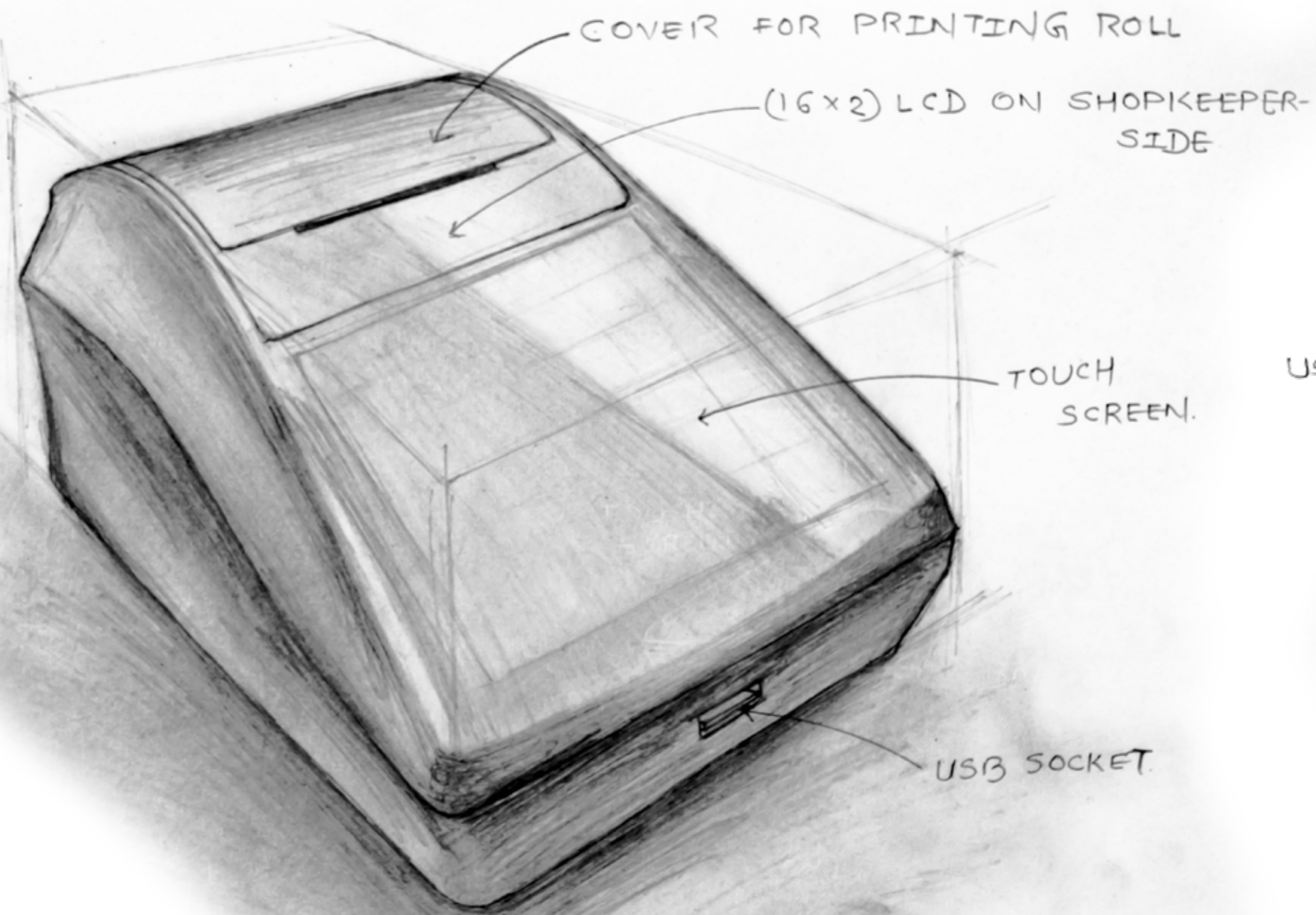
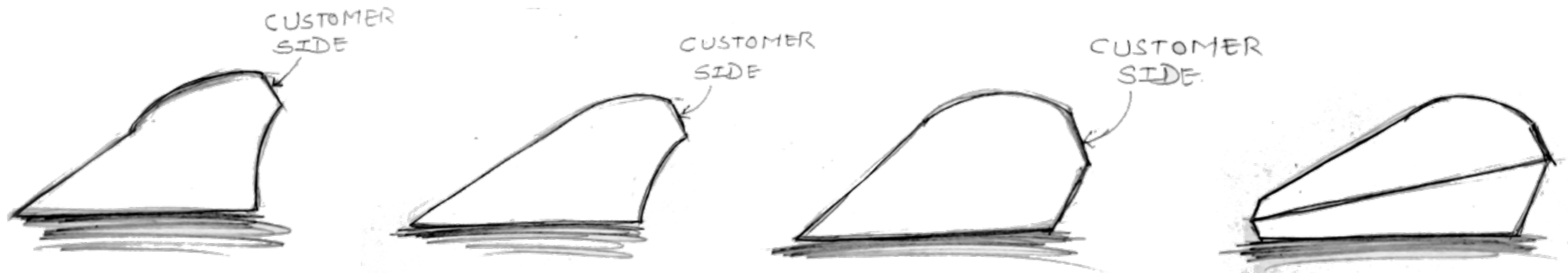
- Compact
- Good ergonomics
- Symmetric

Medium



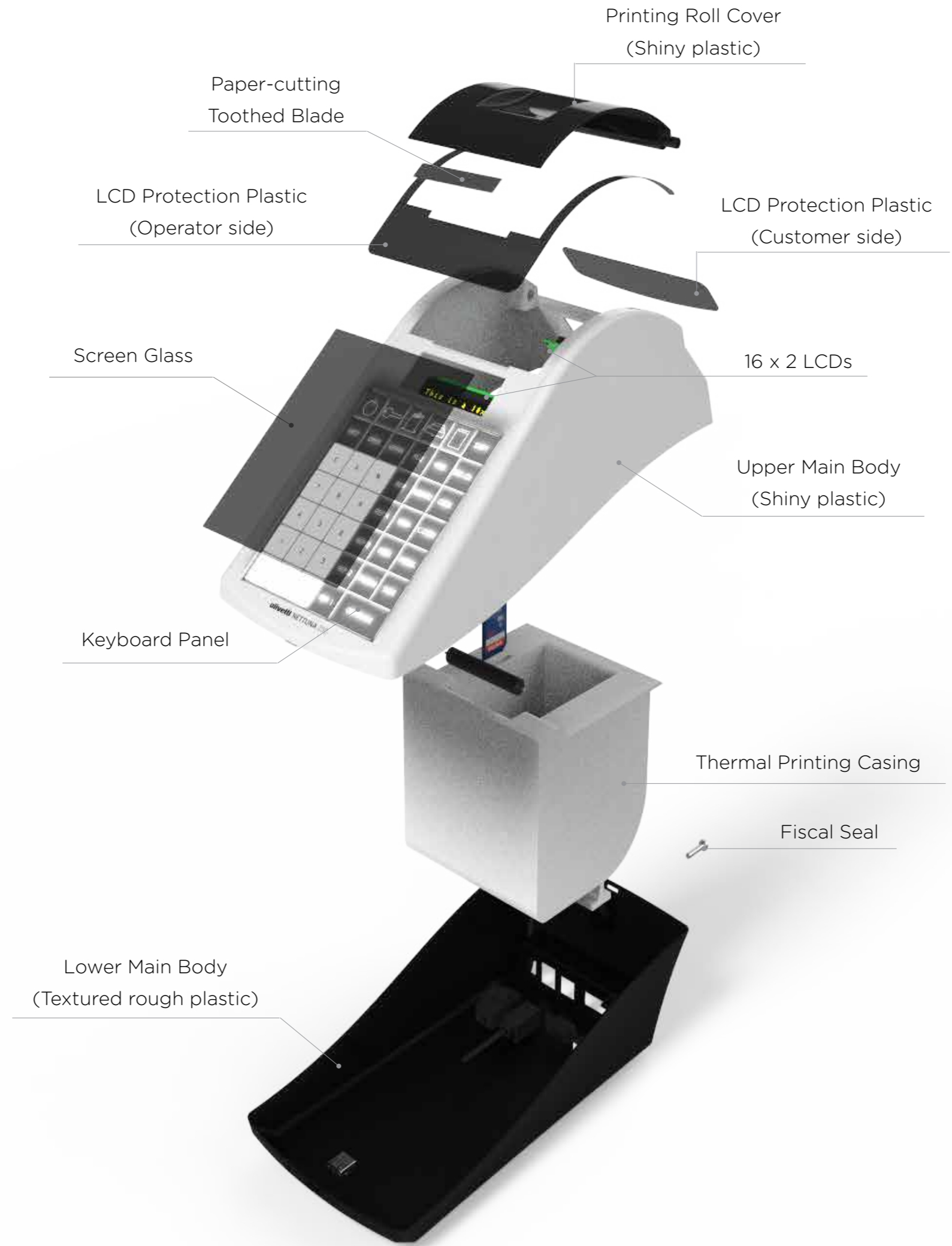
Fields

Consumer Electronics, Form Concept











This is a 16x  
line LCD

  
olivetti



# HONEY BEE



We usually see the desk lamps in our homes as per shown in the image here.

Surely, it is flexible, cheap, portable. But still not as small as a Tennis ball, not that compact or versatile to be used almost everywhere.



So I took this limitation as an idea to change its design in terms of aesthetics & functionality; and came up with the **Honey Bee** concept. It is detachable, it provides a 360 degree rotation, it is small enough to be carried in a palm, it can also be wall-mounted, it is versatile in terms of useability and it is chargeable.

Basically, it has 2 main elements - Lamp and the Base. They are in contact with each other with the help of magnet & metal on the contact surfaces of the lamp & the base respectively.

Lamp is divided into two halves. Upper half consists of light source (LED) and the lower half consists of charging unit and magnet. The lowest surface and its adjacent five surfaces have magnets which helps the lamp sticking to the metal.

The contact surface of the base is a ferromagnetic material. Surfaces of the base & the lower half of the lamp are covered by rubber coating so that it gives a proper friction between them even when the lamp is mounted on the wall.



- Wall-mounted
- Detachable
- Universal Rotation
- Portable
- Chargeable

## Medium



## Fields

Light Design, Consumer Electronics

# Inspirations



Metal Surface Covered by Rubber Coating



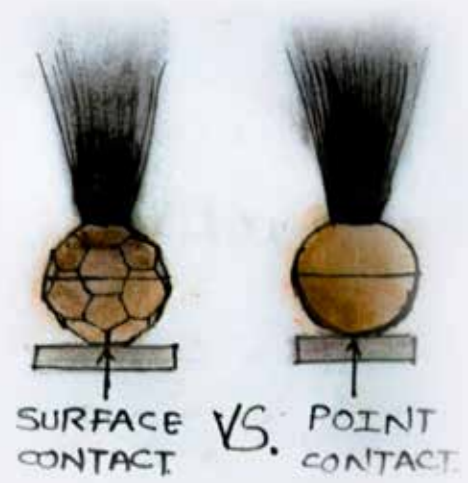
Base



Lamp



6 x Magnetic Surface Covered by Rubber Coating



Rubber Cover



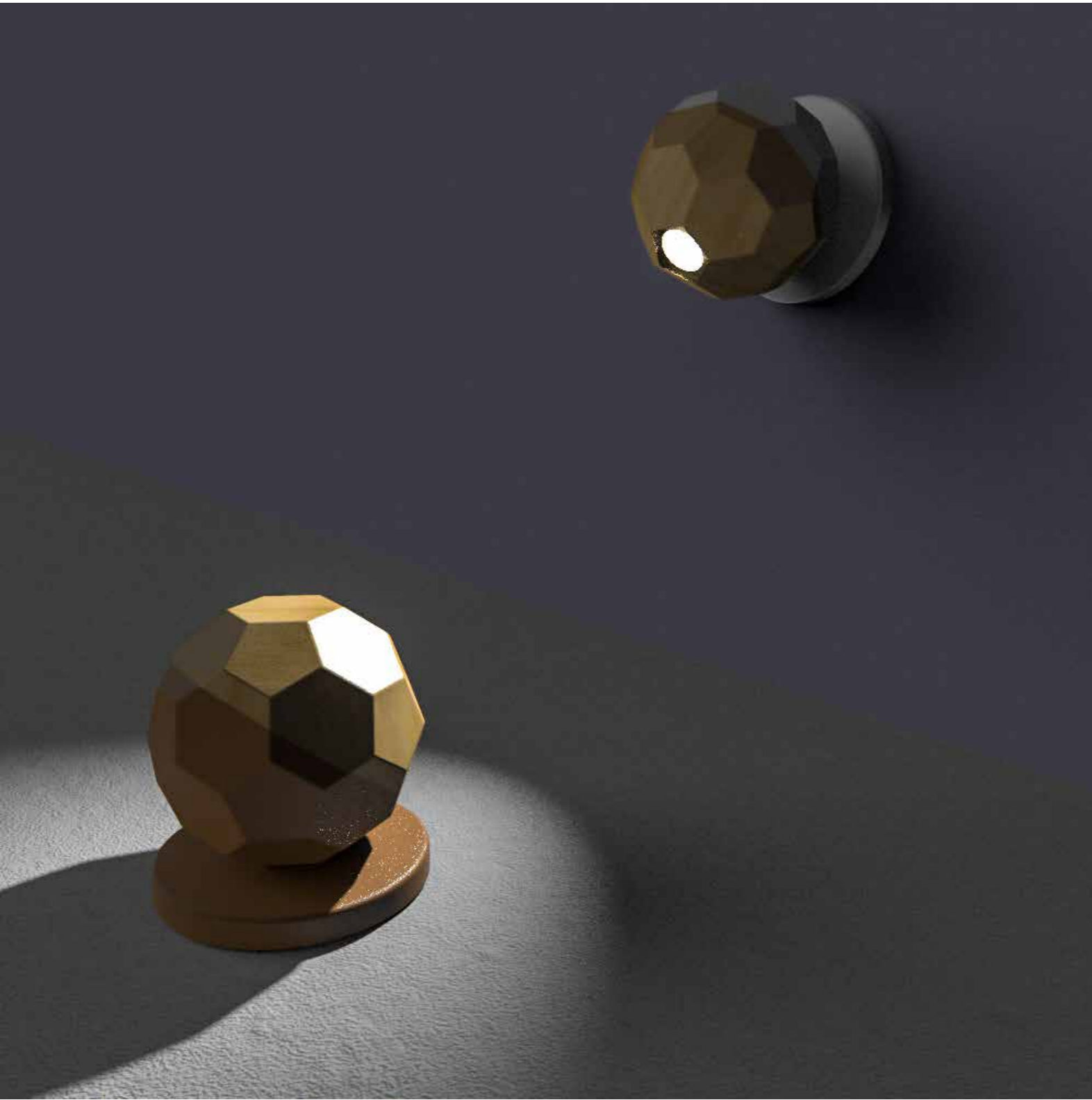
Power Button

USB Charging

Charging Indicator



Top







# KINGS & QUEENS CASTLE



Castles have always been a source of inspiration, adventure and fantasy in the magical world of children.

This romantic fantasy item is perfect for kids to live a real fairytale with a happy ending. With an inspiring design, the intention is making sleepy times increasingly wanted by little princes and princesses.

The concept was executed during my internship in Circu. It is a modular system that allows the client to choose modules he/she wants to buy; from the base set with single bed to the most complete set with double bed.

## Materials

Wood, Synthetic Leather, Brass, Fiberglass and Resin

## Standard Finishes

White glossy lacquered, Gold plated, Gold, Silver and Copper Leaf

## Dimensions

Width: 330 cm | 130"

Depth: 100 cm | 39.3"

Height: 243 cm | 95.6"

Mattress: 200 x 90 cm | 78.7" x 35.5"

<https://circu.net/products/kings-and-queens-castle>



- Kids furniture
- Luxury
- Castle
- Royal
- Bed
- Storage
- Playful

Medium



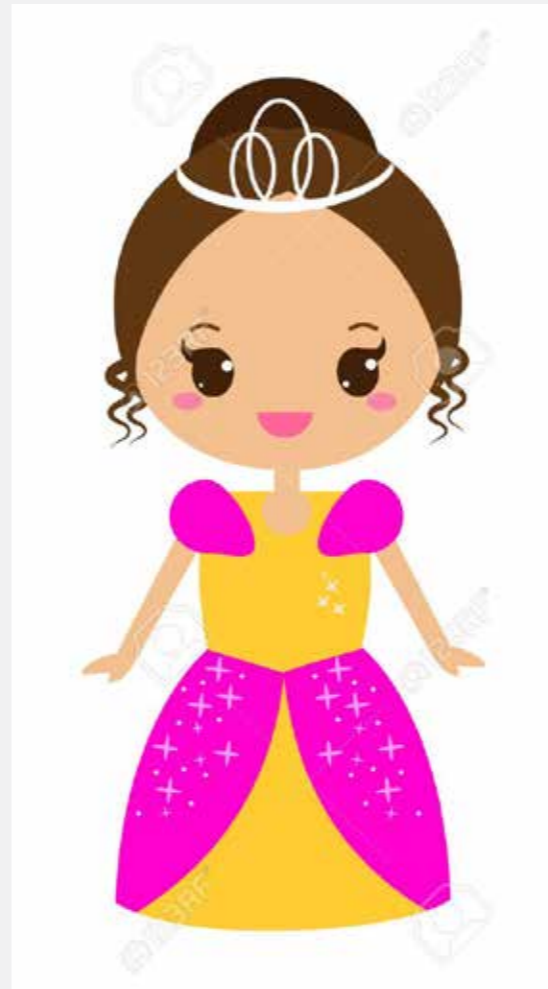
Field

Furniture Design

Top



# Inspirations



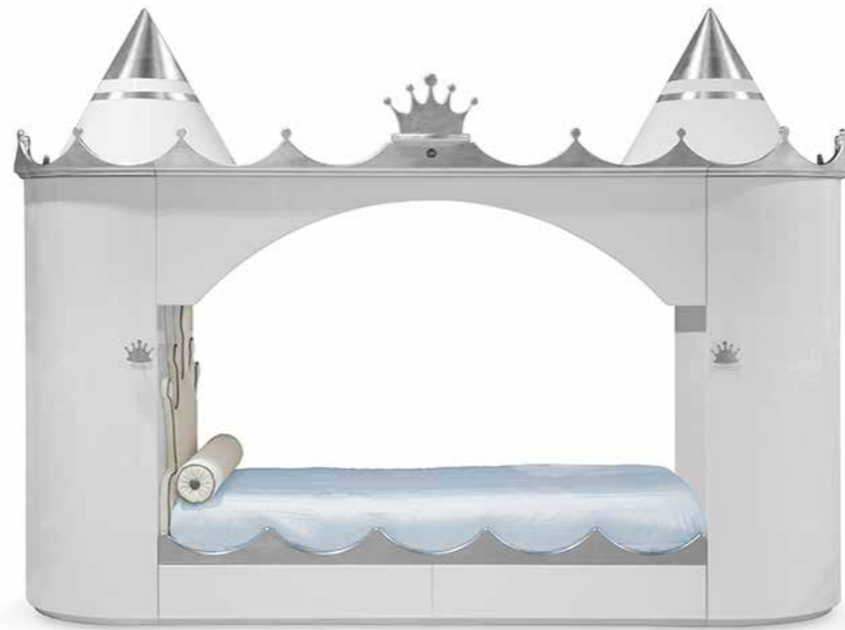








Gold Leaf coat



Silver Leaf coat



Copper Leaf coat





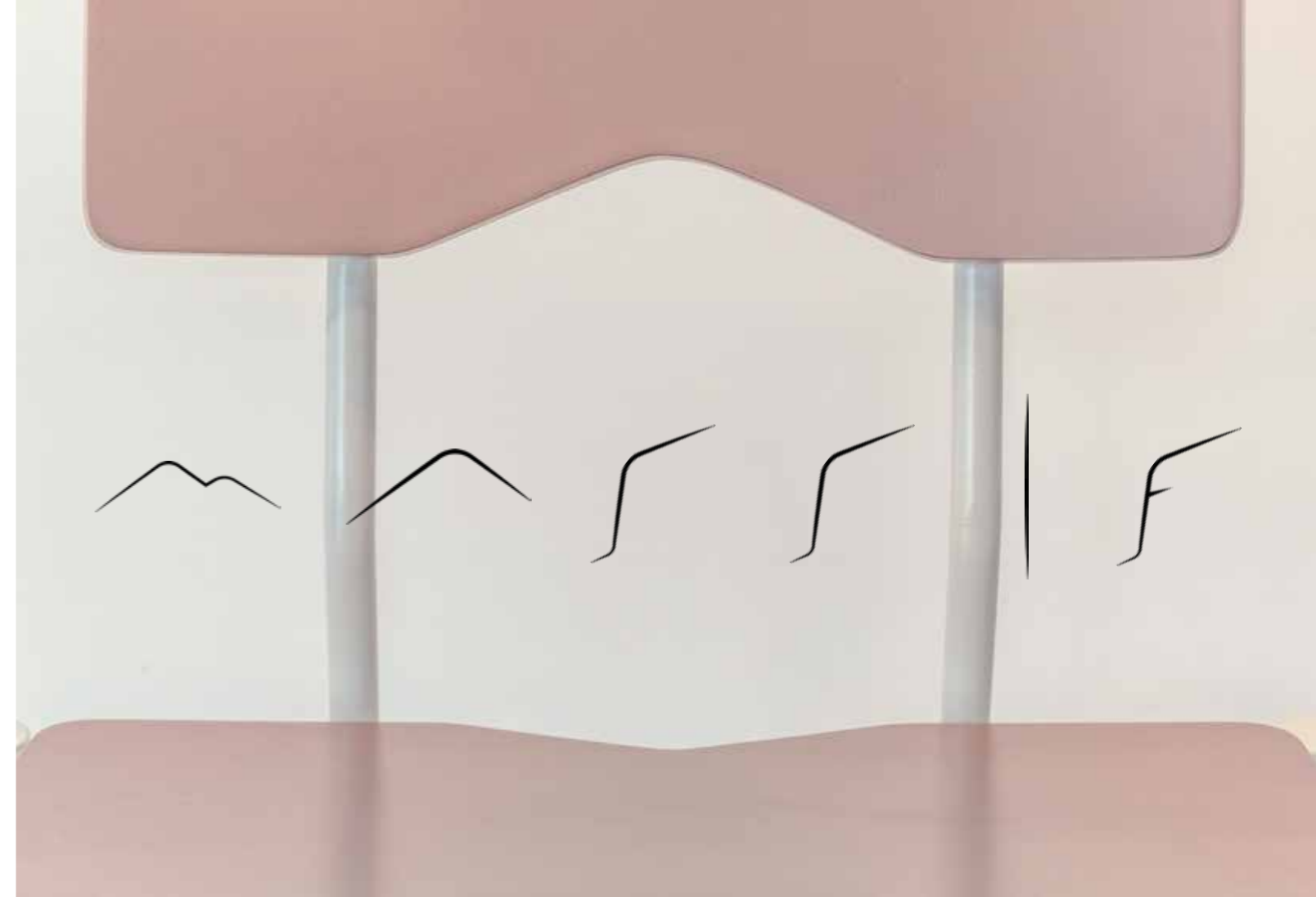


This concept was developed during my internship in Dovetail Furniture Pvt Ltd in Bangalore (India). Basically, it is a set of three furniture pieces - a coffee table, a chair and a wall-mounted bicycle rack.



As a hiking and cycling enthusiast, I wanted to develop a set of furniture during the internship which incorporates these two interests. And after you accomplish any of these activities, the reward of leisure with your people is always a bliss, a serenity.

So as a conclusion of all these inspirations, I developed this set which has a leisure element, a cycling element; and to add the mountain & minimalism element, each furniture is provided a simple mountain shaped cut as a show stopper which can be seen the image on the top-right corner.



- Mountains
- Pedaling
- Minimalism
- Leisure

**Medium**



**Field**

Furniture Design





Prototype





mountains

pedeling

minimalism

leisure

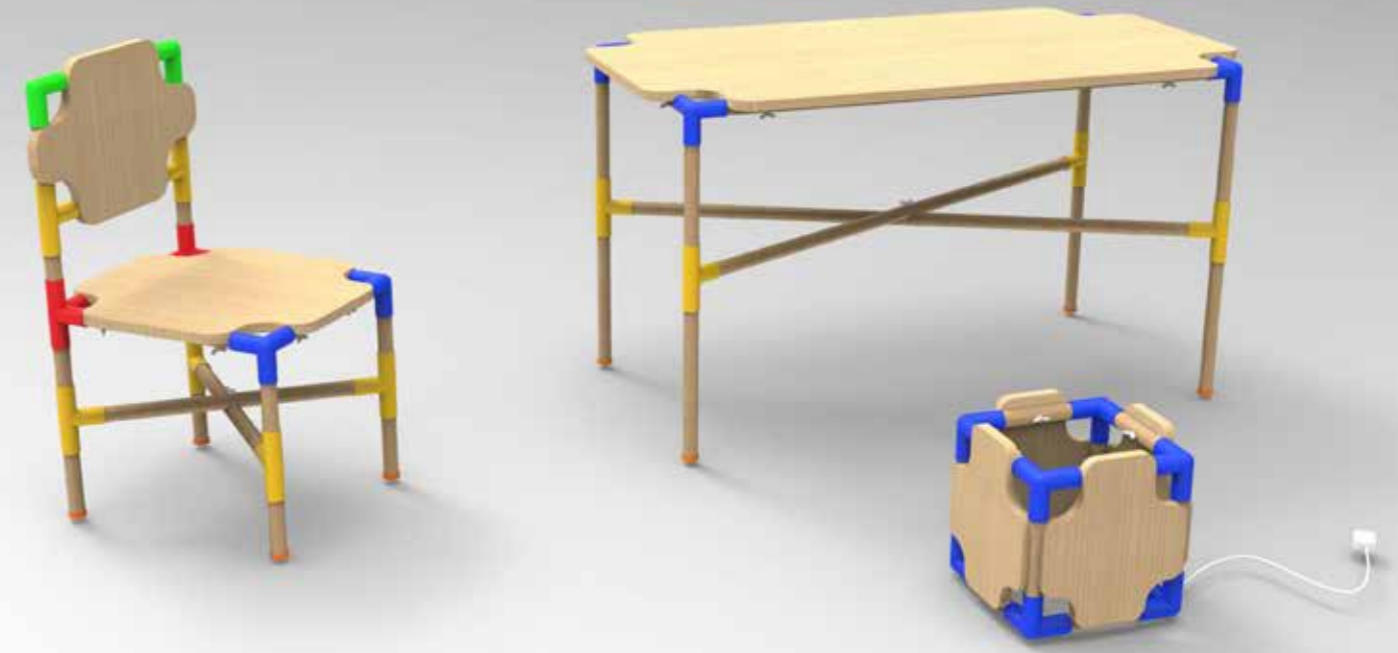


# Funstruction



Obvious construction language is built on apparent objects' materials, functions and usages. And by the way, objects are free from ornamented shapes and figures and the purpose of usage, construction method are strongly emphasized. Also they are working as parts of the total design. In this language, users can easily perceive which material are used as raw, which part of the object is joint and how they are used.

Our design approach **'Funstruction'** is to provide the furniture to users which they can set up by themselves in their homes like a child is playing with his/her toys. Therefore joints and sticks are used for showing our furniture's composition and their way of installation. Each part is working as a construction and design object at the same time so the installation part is very easy.



- Playful Joints
- Structural Infographic
- Intuitive

## Medium

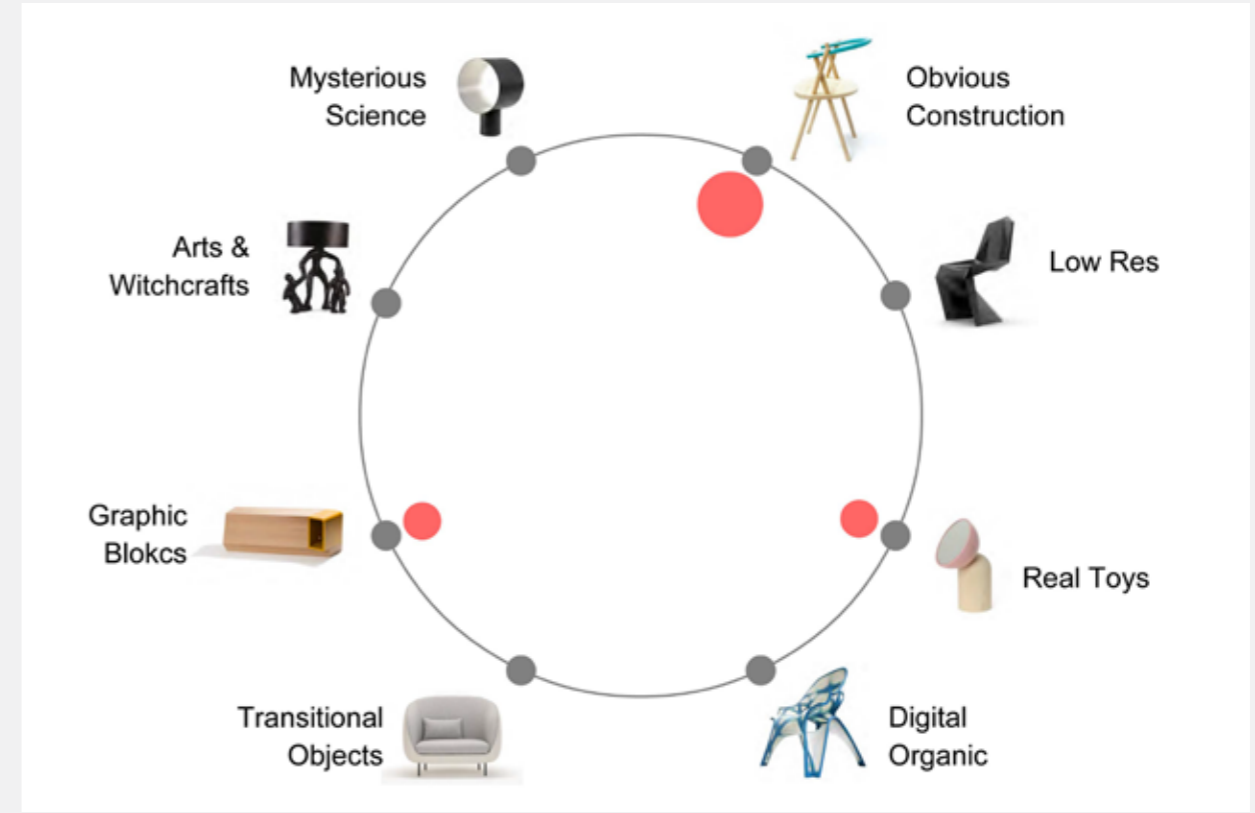


## Fields

Toy Design, Furniture Design, DIY



Moodboard & Case History



Design Languages & Design Genres





