



PORTFOLIO

PRODUCT DESIGN



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1

FURNITURE

MANTIS
F L O O R L A M P



2

KIOSK

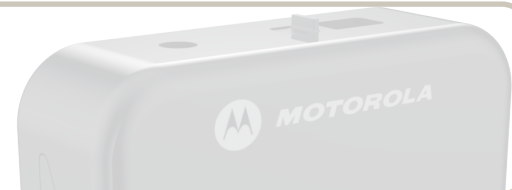
Electric Vehicle (EV) Charger



3

WALKIE TALKIE

 **MOTOROLA** CLP2020



4

TORCH

Aurora Flashlight



5

PUBLIC
ILLUMINATION
LIGHT

PARK SMART LIGHTING



6

FURNITURE

 **MALAYSIAN
INTERNATIONAL
FURNITURE
FAIR 2020**
PARTICIPANT

The Playground



7

HEALTHY
LIVING
PRODUCT

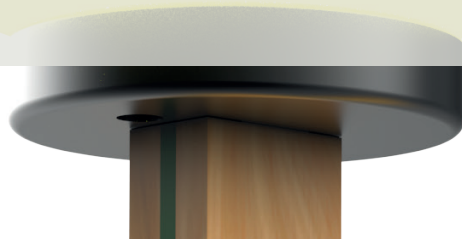
Hyper 



1

FURNITURE

MANTIS
F L O O R L A M P





PROBLEM STATEMENT

The habit of switching off the lights are not common in the Malaysian practices. One of the Top 10 items that Malaysian forget to off are lights at home. This resulted, the electricity consumption increase.

DESIGN CONCEPT

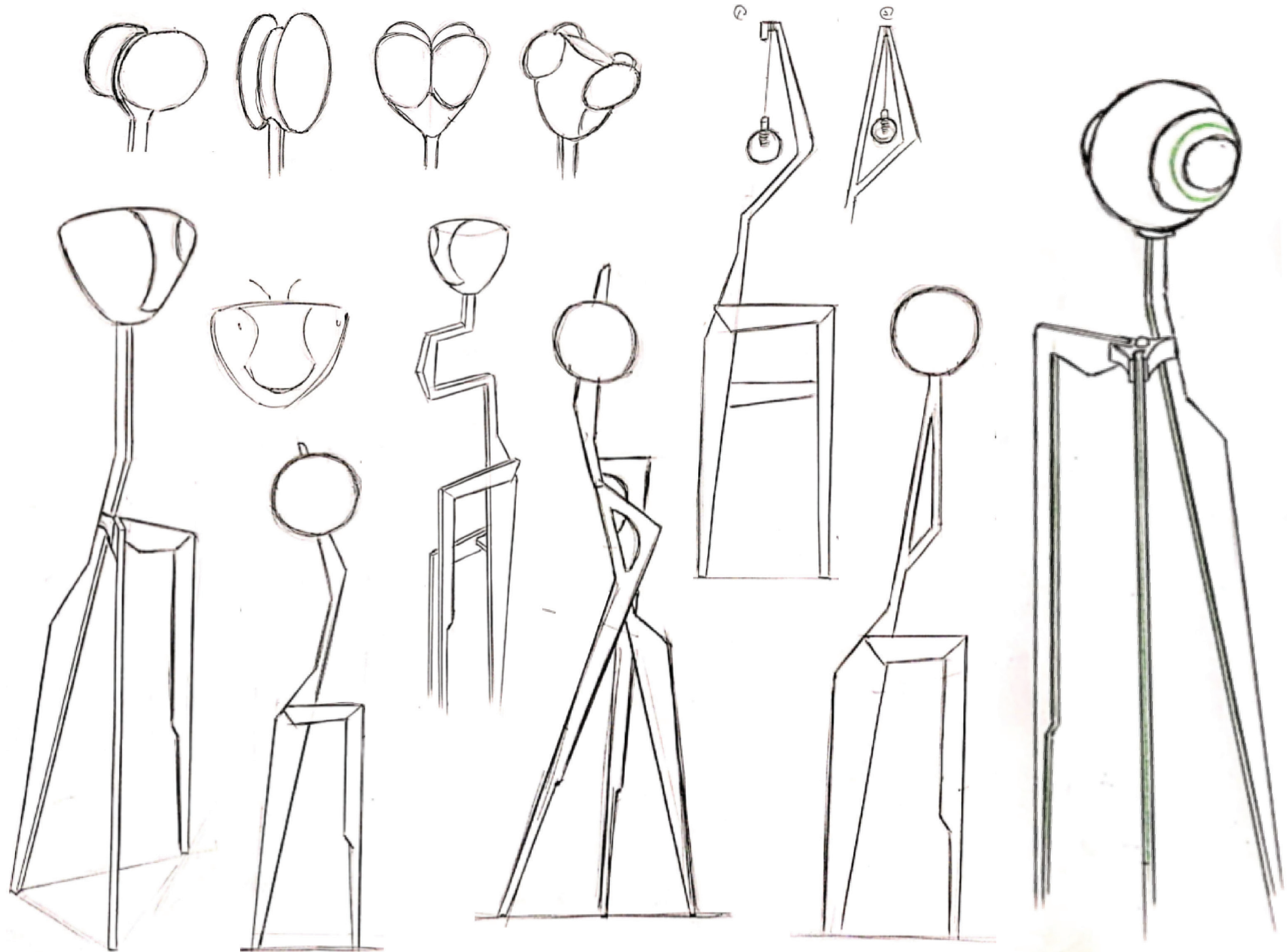
Mantis Floor Lamp is a Scandinavian furniture that designed with Pet Immune Motion Detector to save the electricity of the middle range housing area. It is also created to improve the ambiance of the living room. The floor lamp comes with clean & simple design and strong posture inspiration look.



INSPIRATION

Praying Mantis is an insect predator. Its natural characteristic is when waiting for prey, it holds its front leg in an upright position just like the prayers. A Praying Mantis can hunt its preys that are larger than itself such as frogs, snakes and birds. It is an amazing creature that comes with unusual shape and also the master of camouflage when hunting the prey and protect itself from predators.

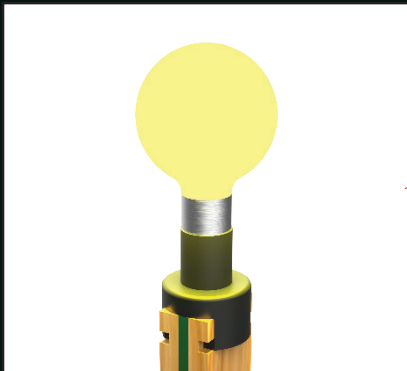
In Scandinavian Design, the products are commonly inspired by nature. With that, praying mantis is selected as the design inspiration to be in line with the Scandinavian Style. Furthermore, the purposes are to show the beauty of the praying mantis posture to the audience.



UNIQUENESS

SOLUTIONS

Warm Yellow LED



 kangaroo
Pet Immune
Motion Sensor

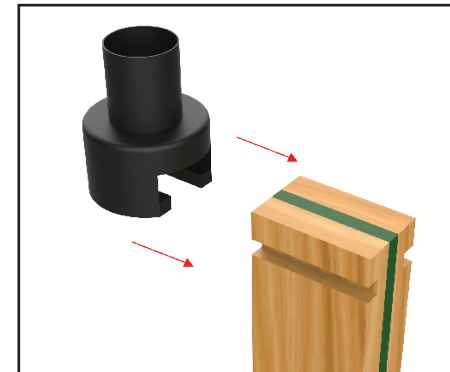


DESIGN

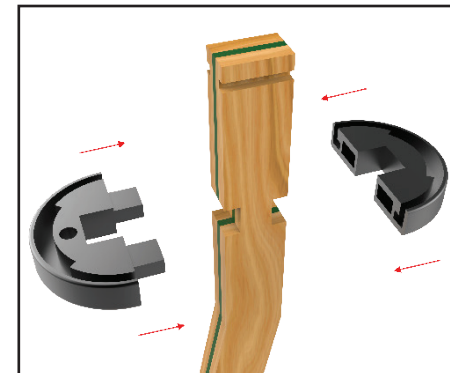
Inspired by the
characteristic of
Futuristic Design



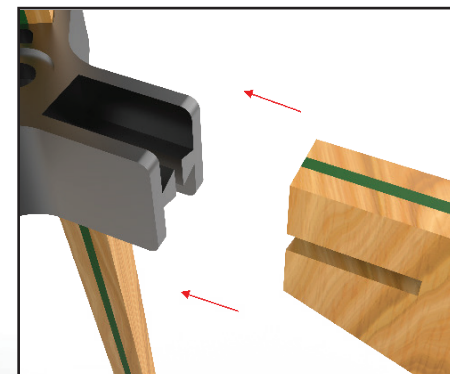
CONVENIENCY



Bulb Holder



Shade Holder



Jointing

Slot-In Method

No screws or bolts & nuts are needed

APPLICATION

STEP 1

Hi! What's your name?

First Name

Last Name

Email

→

Fill in your first name, last name and email for account registration.

STEP 2

Set up your home

Let's give your home a nickname!

Nicholas's Home

A home is where the devices live. You can add household members to help you monitor the devices.

→

Create a nickname for your account.

STEP 3

Nicholas's Home

3

No Security Sensor

Enable Critical Alerts
Override Do Not Disturb and Silent mode.

Add a Security Device

Don't have a sensor? [Buy Now](#)

Camera Security Climate Activity

Click on 'Add a Security Device' to add your device in the application.

STEP 4

Bluetooth

Our app uses Bluetooth which requires location access to be enabled. Don't worry—we only use your location when trying to find the motion sensors.

Location On ✓

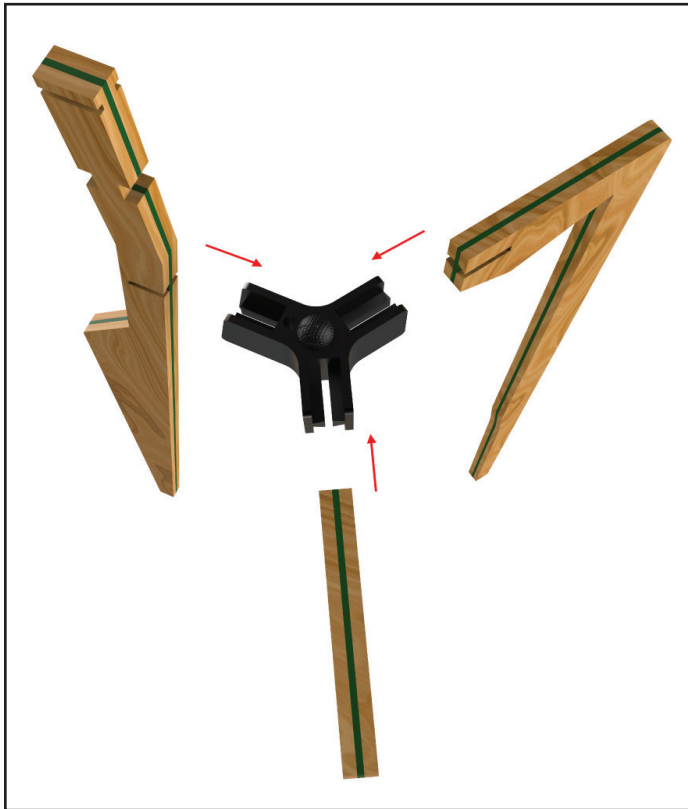
Bluetooth Off ✗

Enable Bluetooth

Enable Bluetooth to connect to your device.

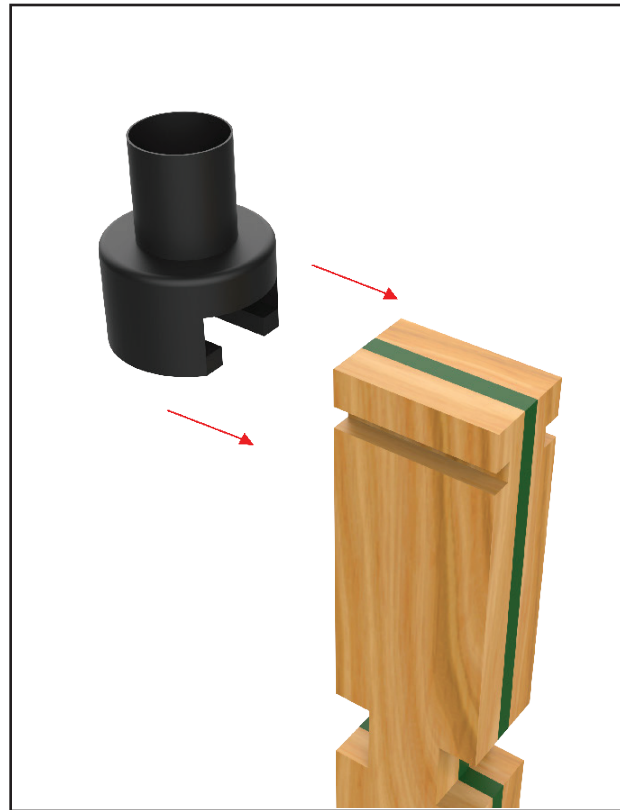
INSTALLATION

STEP 1



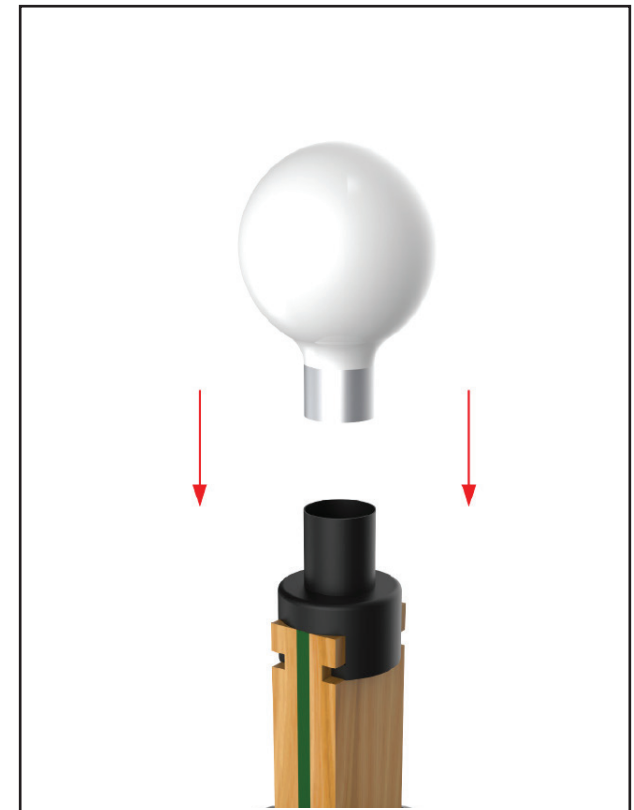
Slot in the floor lamp legs to the jointing bracket.

STEP 2



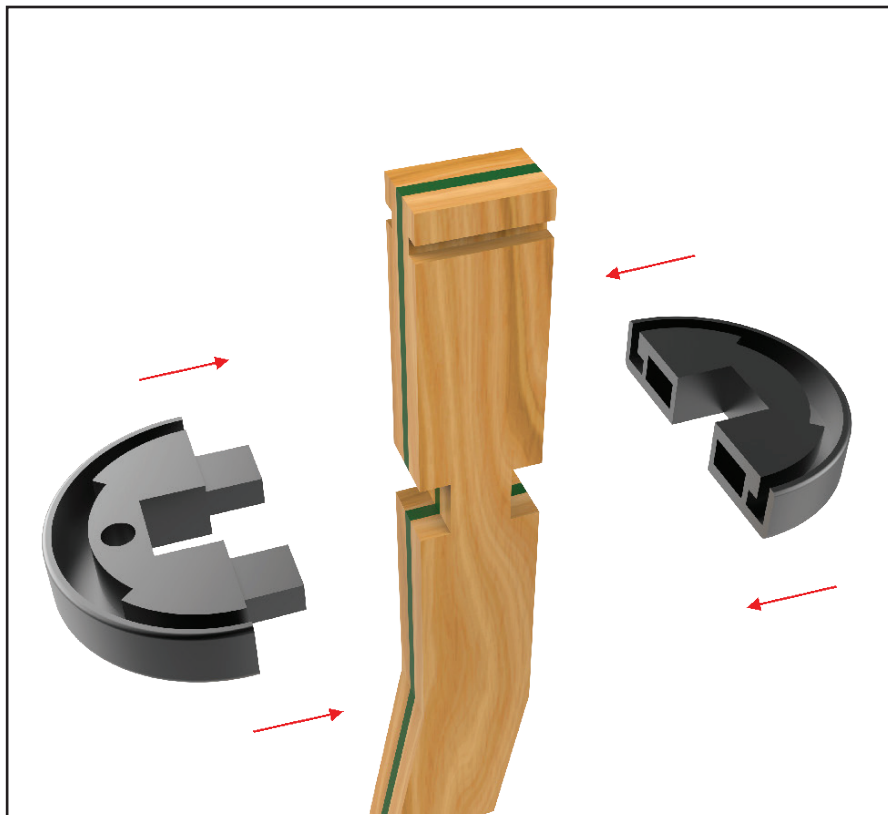
Slot in the Bulb Holder into the groove on the Leg A.

STEP 3



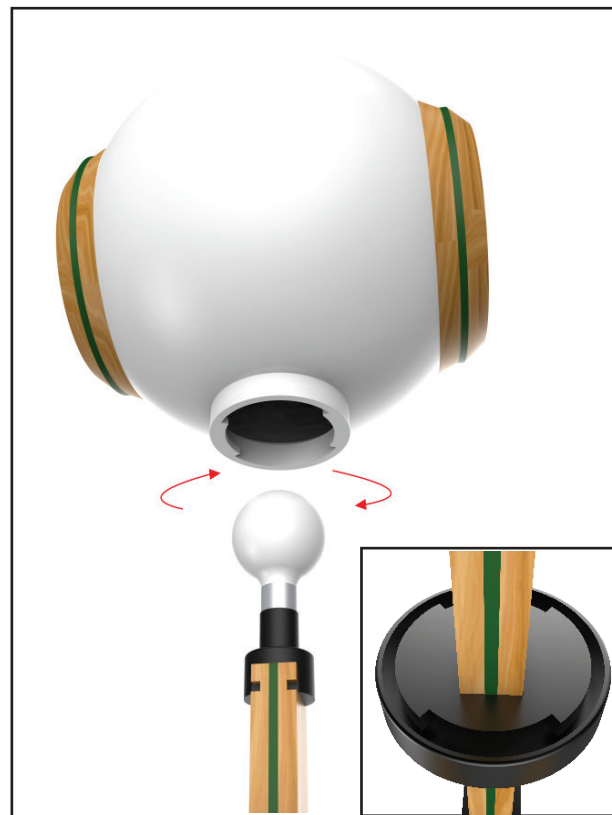
Install the LED bulb to the Bulb Holder.

STEP 4



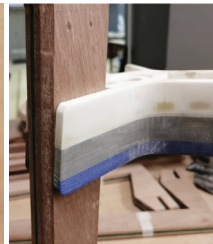
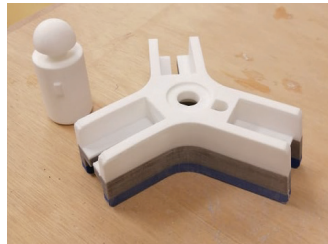
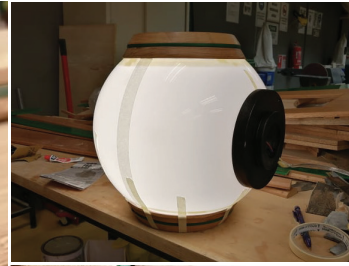
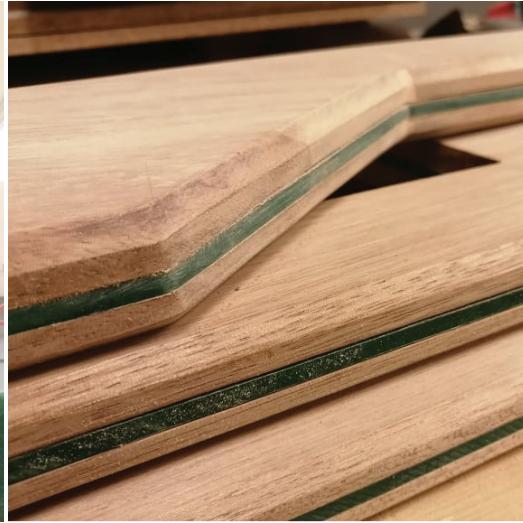
Slot in the shade holder into the groove on the Leg A.

STEP 5



Place the lamp shade into the groove of the shade holder and spin to lock.





2

KIOSK

(Group Work)

Electric Vehicle (EV) Charger (Teamwork)





- ChargEV is a leading provider of electric vehicle charging solutions in Malaysia.
- Specializing in open standards, cloud-based platforms and mobile applications.
- ChargEV has installed more than 200 charging stations



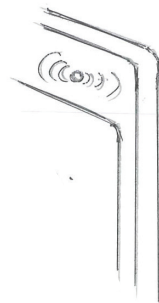
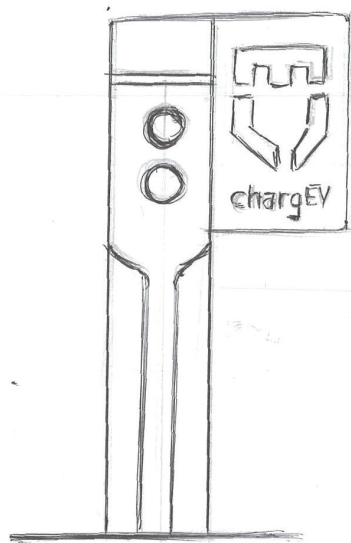


PROBLEM STATEMENT

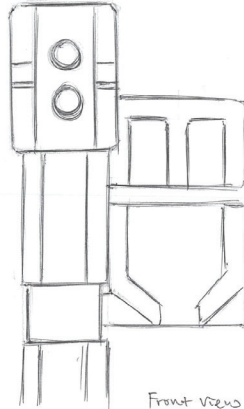
The pure electric car & plug-in hybrid car's drivers unable to drive for long distance travel due to the lack of electric vehicle (EV) charger in Malaysia. The existing ChargeEV electric vehicle chargers are only located in the PETRONAS petrol stations in the city area.

DESIGN CONCEPT

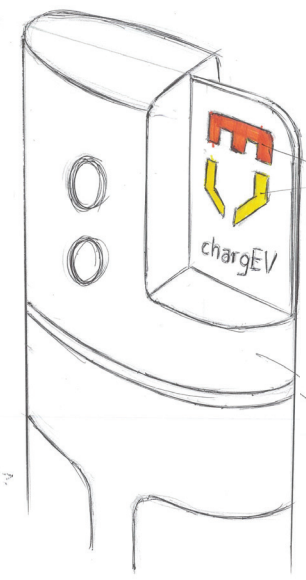
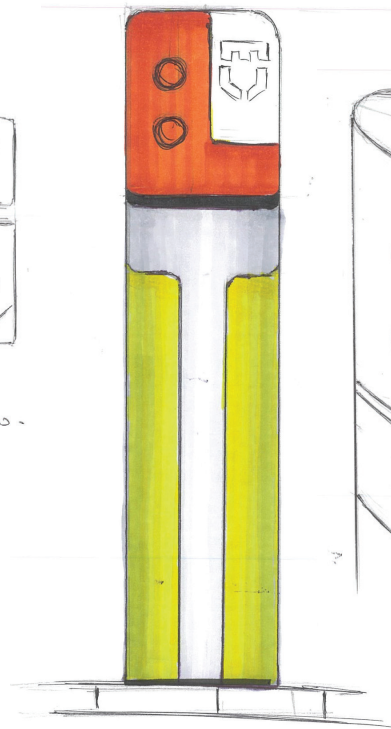
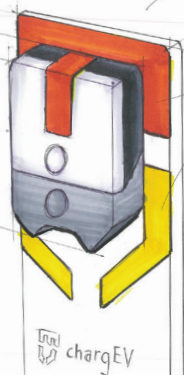
ChargeEV electric vehicle (EV) charging kiosk is designed for installation in every PETRONAS petrol stations at North-South Expressway. This is to ensure the pure electric car & plug-in hybrid car's drivers are able to drive for long distance travel. It is also to encourage people to drive electric vehicles to save environment (reduce air pollution). This EV charging kiosk has the design of Minimalist, Sleek and Elegant.



Area to tap the chargEV card for registration.

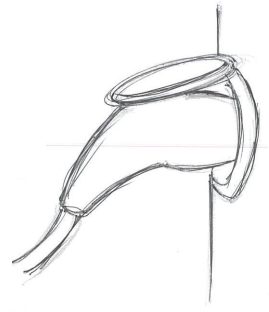


Front view -

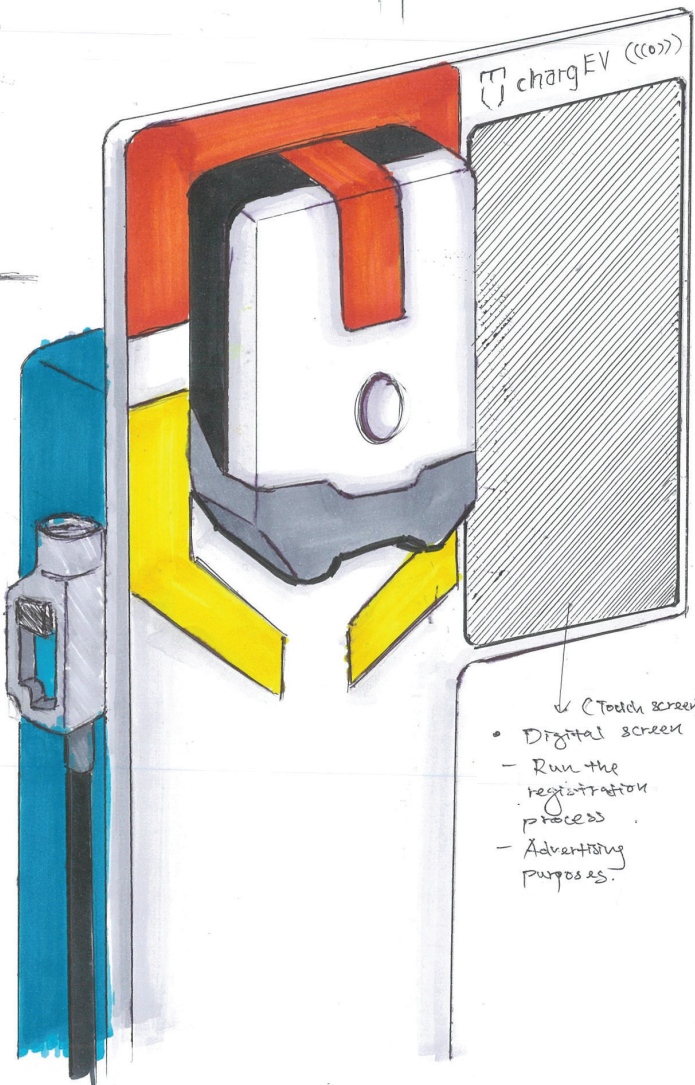


LED light

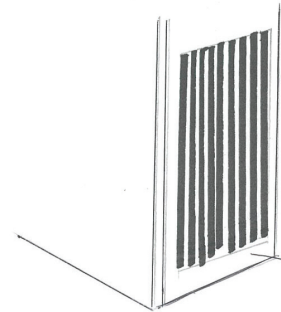
Designed with 2 outputs. Normal charge & Rapid charging for vehicles



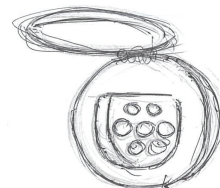
Way to open the cover for charging



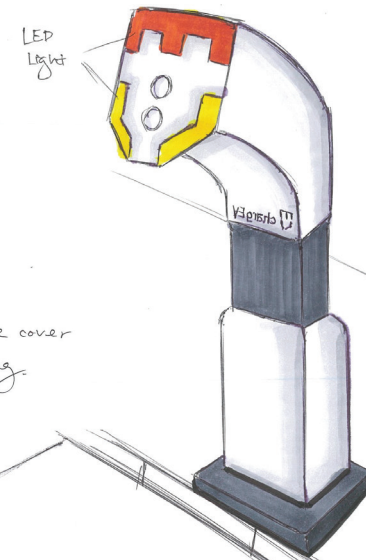
(Touch screen)
• Digital screen
- Run the registration process
- Advertising purposes.



Air Ventilation.



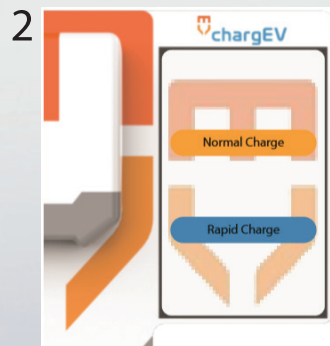
Way to open the cover for charging.



LED light



Tap the chargEV card on the screen of the charger



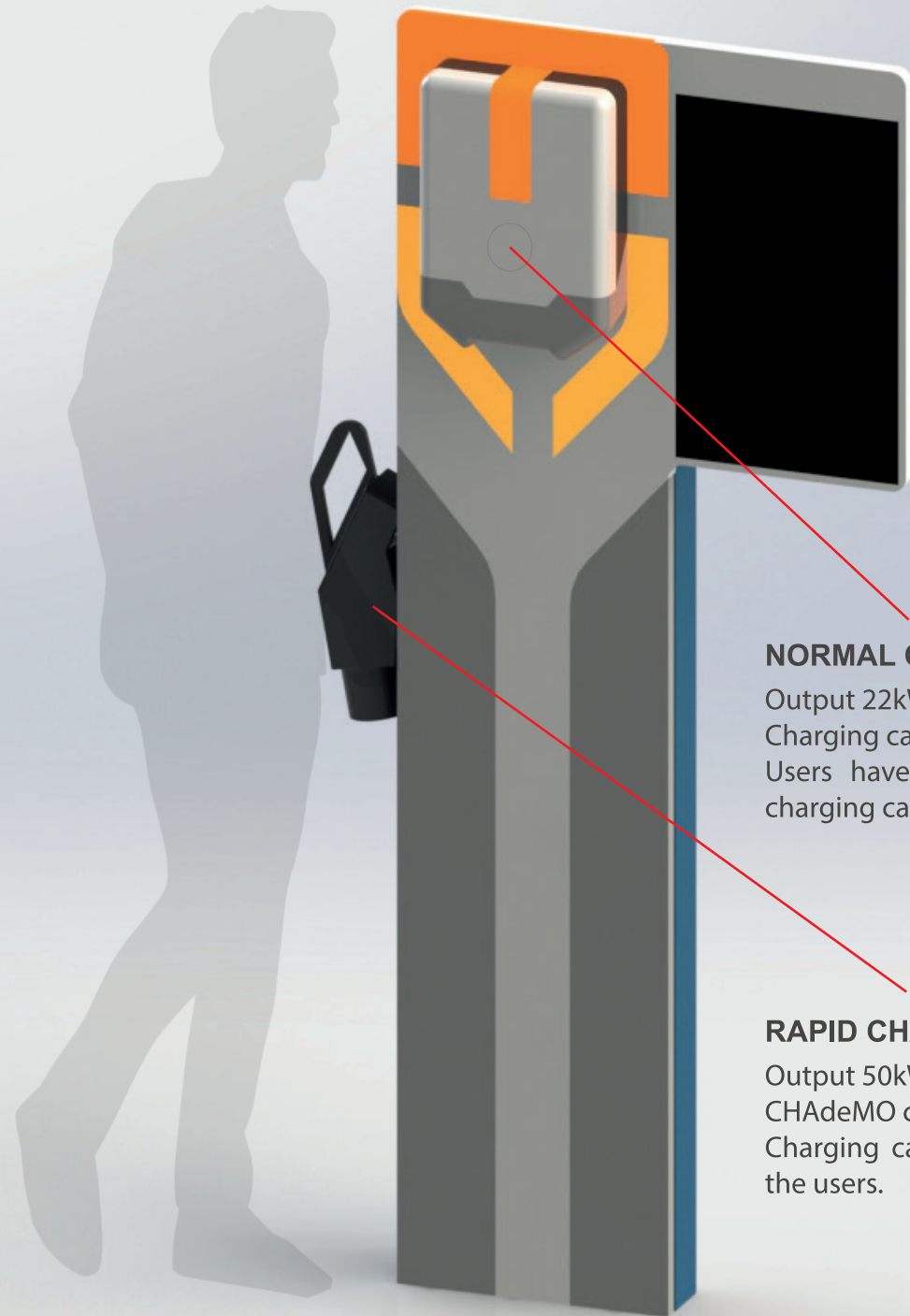
Select your choice. Normal charge or rapid change.



Plug in the cable and start chaging. Charging bar will show the charging process.



Tap the chargEV card on the screen of the charger after fully charged. Unplug the charging cable.



NORMAL CHARGE

Output 22kW
Charging cable is not provided.
Users have to bring their own charging cable.

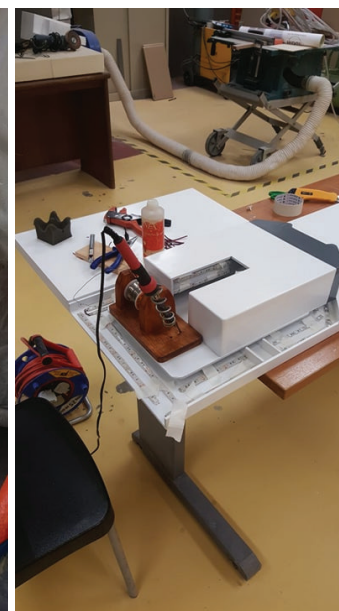
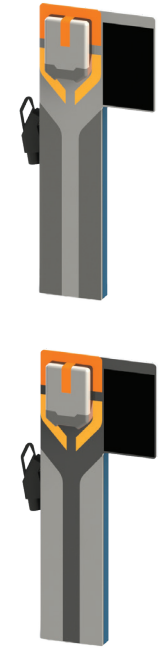
RAPID CHARGE

Output 50kW
CHAdEMO charging cable
Charging cable is provided for the users.

PROTOTYPE MODEL



COLOR PROPOSAL



3

WALKIE
TALKIE

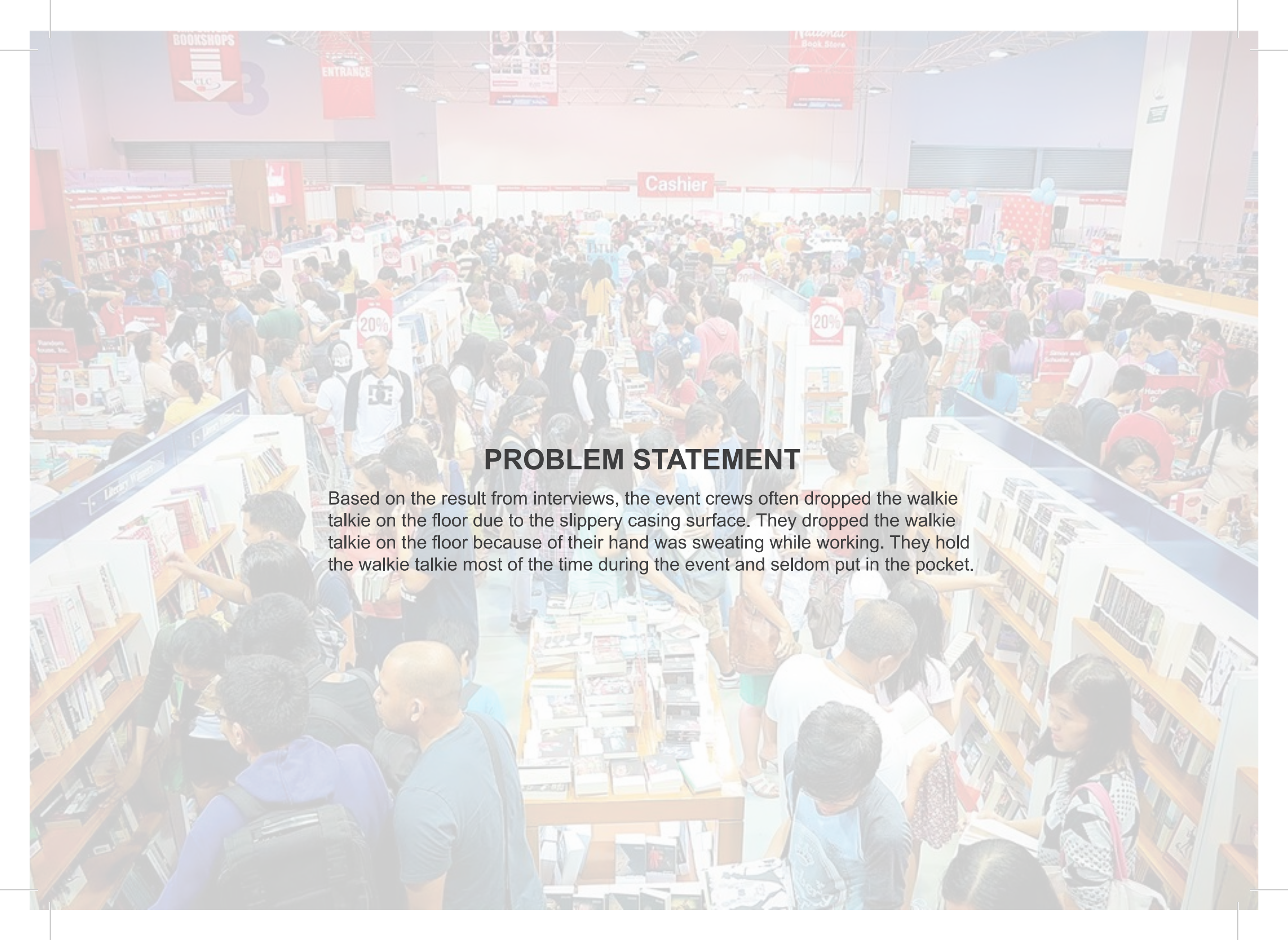


MOTOROLA



MOTOROLA CLP2020

CLP2020



PROBLEM STATEMENT

Based on the result from interviews, the event crews often dropped the walkie talkie on the floor due to the slippery casing surface. They dropped the walkie talkie on the floor because of their hand was sweating while working. They hold the walkie talkie most of the time during the event and seldom put in the pocket.



DESIGN CONCEPT

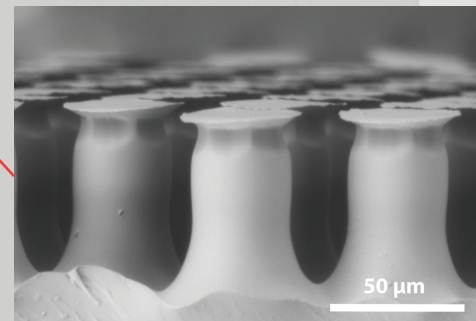
Motorola CLP2020 is a palm-sized walkie talkie that has a better gripping level. It is designed to have few different options to keep it to make it more convenient to users. This walkie talkie is created with minimalist and professional design with new features that are user-friendly.





NanoGriptech Setex Gecko Grip

- Provide more than 240% grip improvement in slick conditions, especially for items in contact with skin.
- The best gripping/friction material solutions for product designers & manufacturing engineers.
- Available in a wide range of materials
- Can be integrated with products through in-mold designs for injection molded parts.



Smart Indicator

- The light of the smart indicator will turn on itself automatically when users switch on the power button.
- Indicates the lifespan of the battery.
- Comes with 3 colours, Red, Yellow & Green, each colours indicate different lifespan of battery.



1-20%



21- 70%



71- 100%



Hold-To-Talk (HTT)

- This feature is created to allow users to take longer time to talk or talk continuously.
- The PTT button is designed with a toggle to hold the button when users double click on it.
- Click the PTT button again to release the button after the users finish talking.



Elastic Strap

Wear it on the wrist like wearing a watch or in the palm.



Plastic Clip

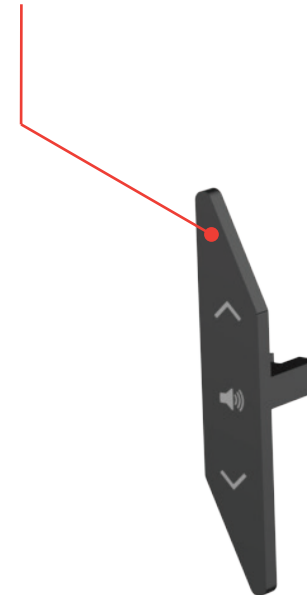
Clip on the belt, belt loop, shirt or pocket.

COMPONENTS

Lower Casing
(Setex Gecko Grip)



Volume Switch
(ABS)



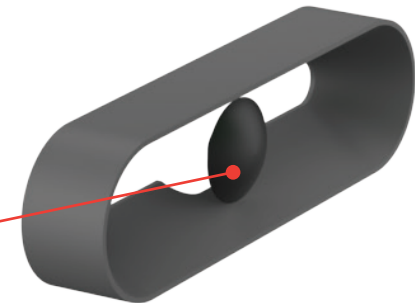
Channel Switch
(ABS)

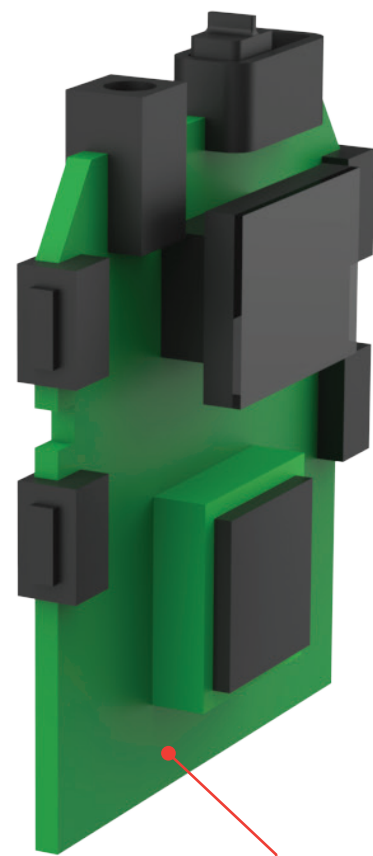


Battery



Speaker





Circuit Board

PTT Button
(ABS with Bump Dot Surface)



LED Light



Plastic Cover
(Polycarbonate)



(ABS & Aluminosilicate Glass for hidden screen)



4

TORCH

Aurora Flashlight





PROBLEM STATEMENT

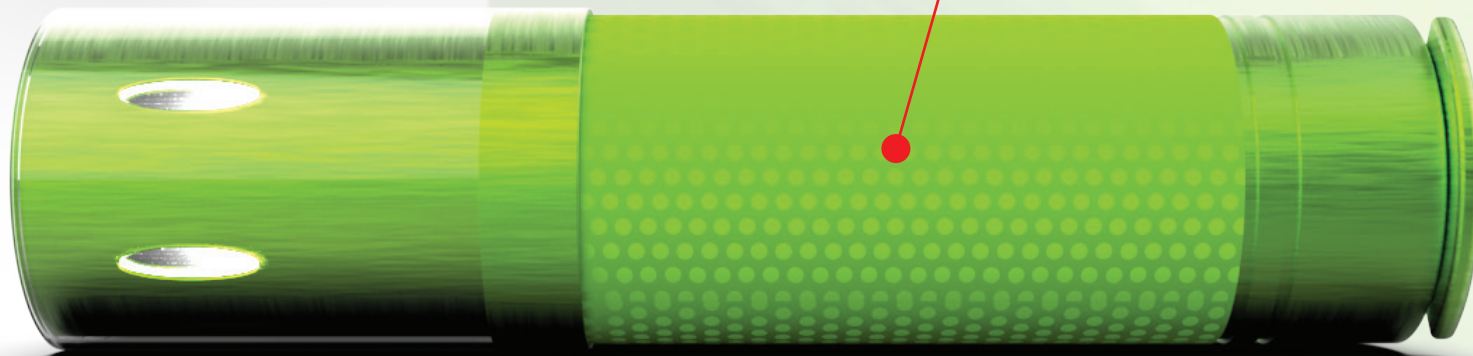
Based on the survey, the selected existing flashlight casing is made by metal with smooth glossy surface. Therefore, it is hard to hold it in a longer time because the gripping level is weak. Furthermore, it is also difficult to search the flashlight in the dark when the users need it.

DESIGN CONCEPT

Aurora is designed for students to ensure they feel comfortable to hold it and able to find it easily in the dark. It is modified from the existing flashlight based on the requirement from the users. Therefore, Aurora has a better gripping level, aesthetic design and features compared to the existing flashlight.

Aurora Flashlight is a Modernistic & Minimalist Design torch that designed with bump textured rubber grip to increase the gripping level for users to hold it.

The bump textured rubber grip is also allows users to touch and feel it easily when they search the flashlight in the dark.

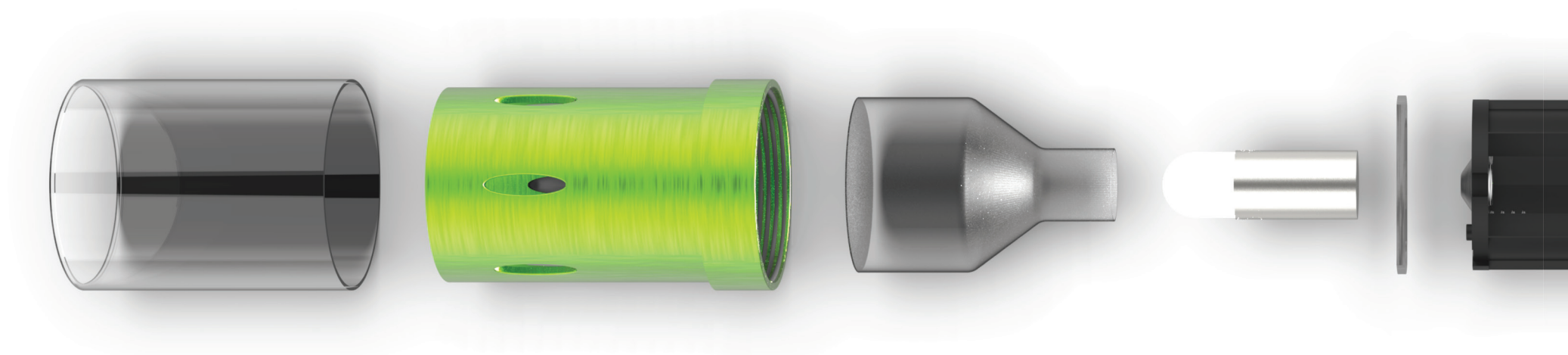


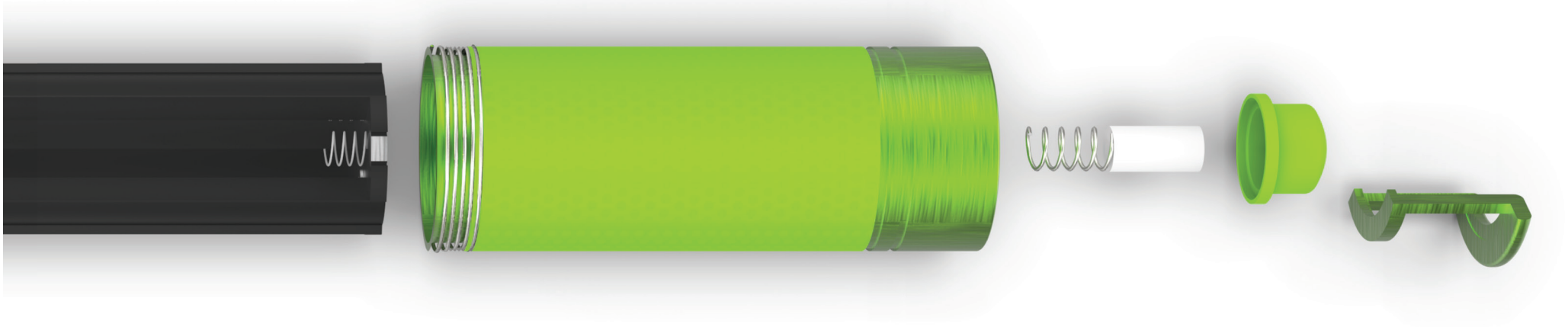


Front casing of the flashlight is designed with holes to allow users able to see the light and get your flashlight easily if they put on the table vertically after they have switched it on.

Aurora Flashlight is designed with a hook to allow users hang the torch light.

EXPLODED VIEW

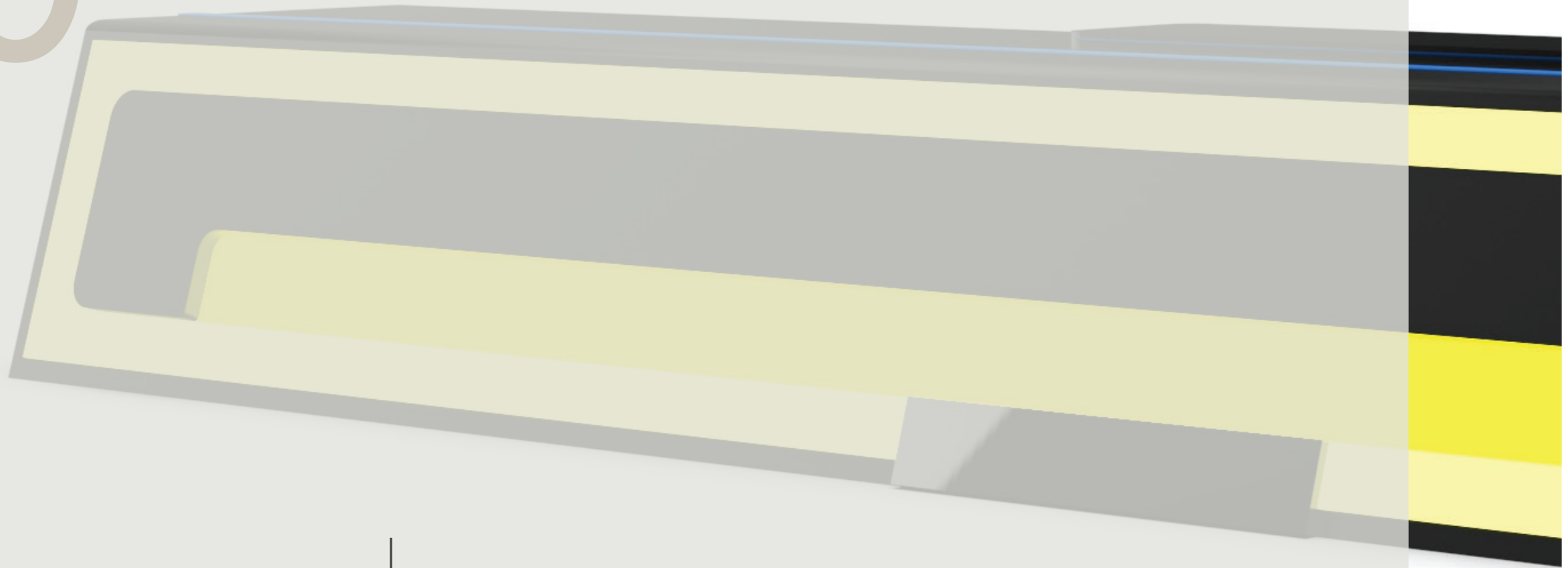


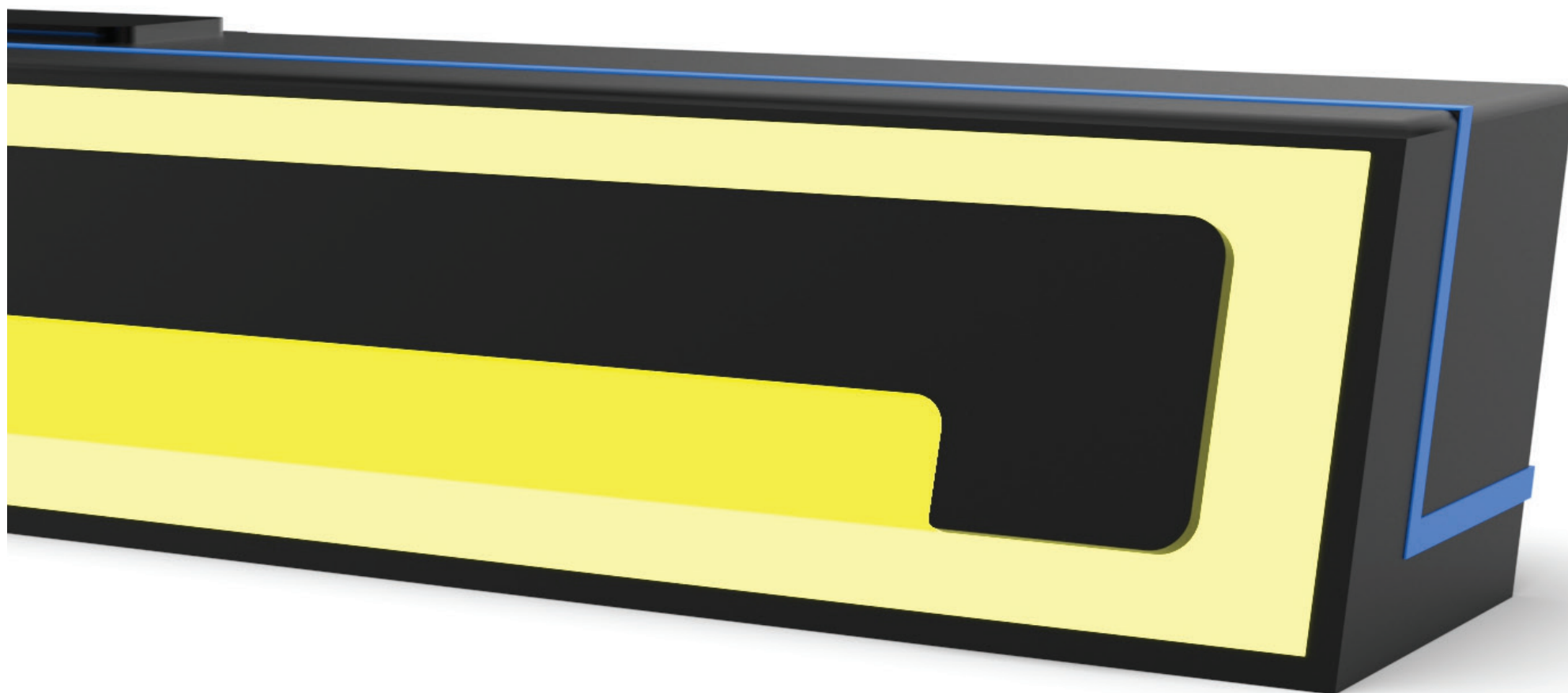


5

**PUBLIC
ILLUMINATION
LIGHT**

PARK SMART LIGHTING





A photograph of a park path with trees and a person in the background. The path is made of dark mulch and is bordered by green grass. In the background, a person is walking on the path, and there are several trees with green leaves. A black metal fence is visible on the right side of the path.

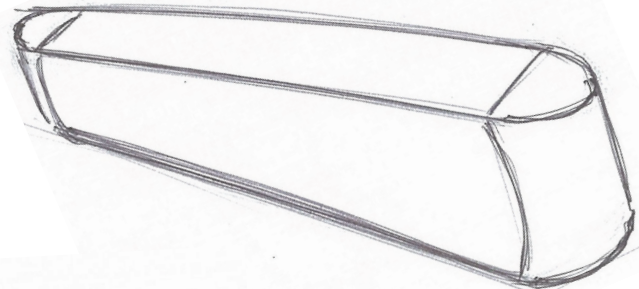
PROBLEM STATEMENT

The amount of robbery incident is increasing in the park due to the lack of lighting. Furthermore, some of the lighting in the parks were not turning off when the surroundings were bright and it caused the waste of electricity.

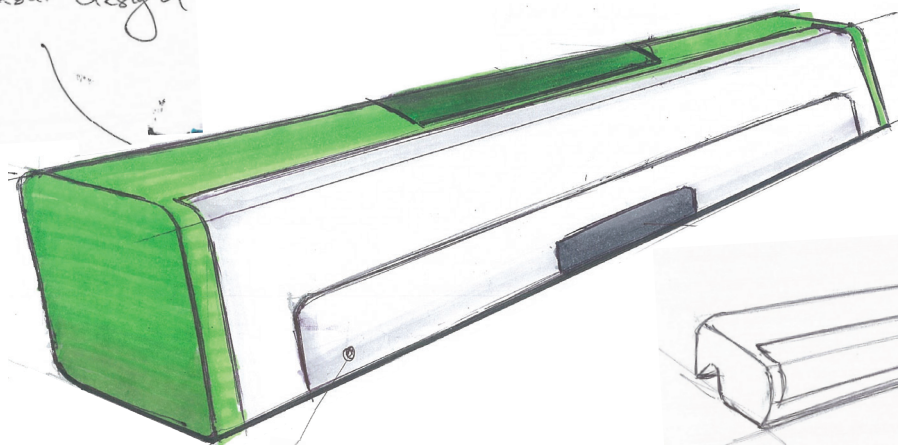
DESIGN CONCEPT

Park Smart Lighting created is to ensure the safety of the people in the park while they are having activities in the early morning or at night. Meanwhile, it is also able to encourage people to have physical activities. Last but not least, purpose of created this lighting is to raise the awareness of the people to save electricity. Park Smart Lighting is a high-technology lighting has the combination of modernistic and minimalist design.





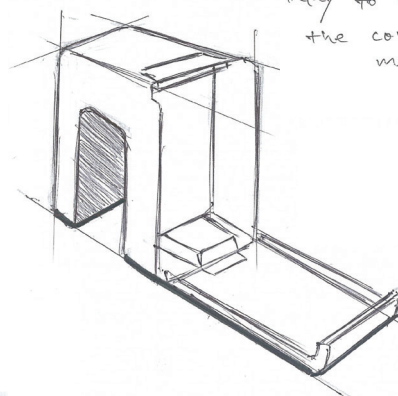
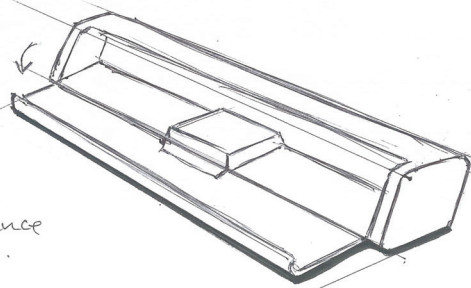
Inspired from
Goudibar design



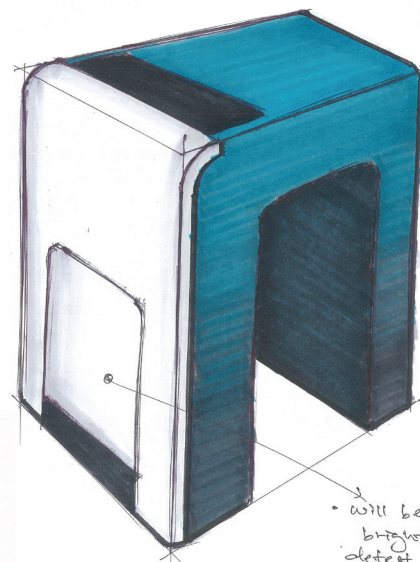
• will become
brighter when
detect the
presence of
people.



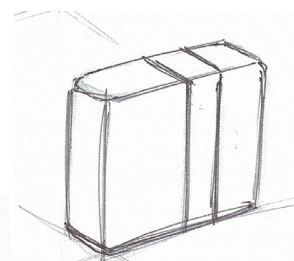
May to open
the cover for
maintenance
purpose.



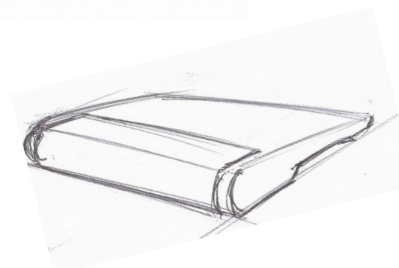
May to open
the cover for
maintenance
purpose.



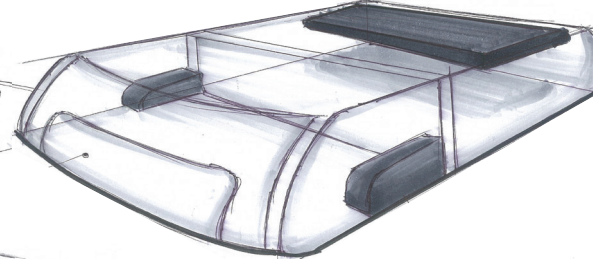
• will become
brighter when
detect the
presence of
people.



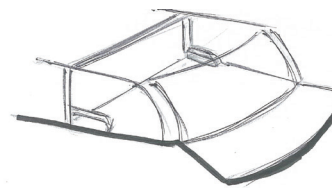
Inspired from
L shaped bookshelf



Inspired
from Playstation
Game console design



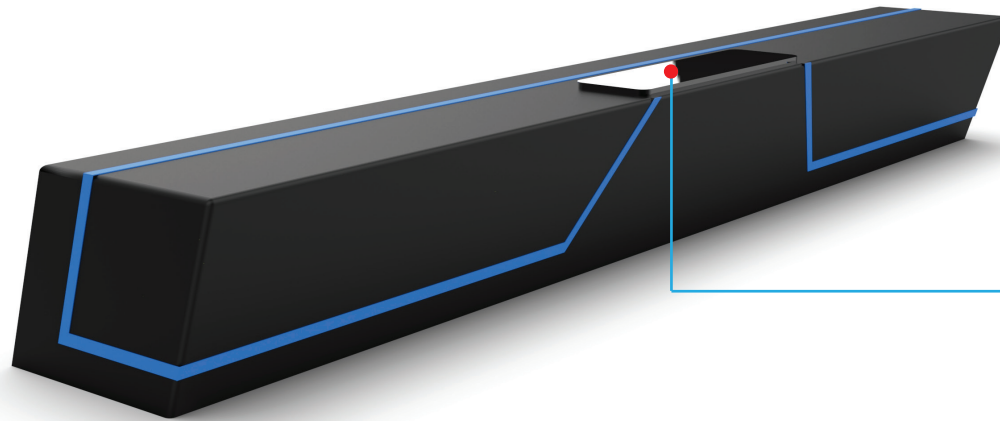
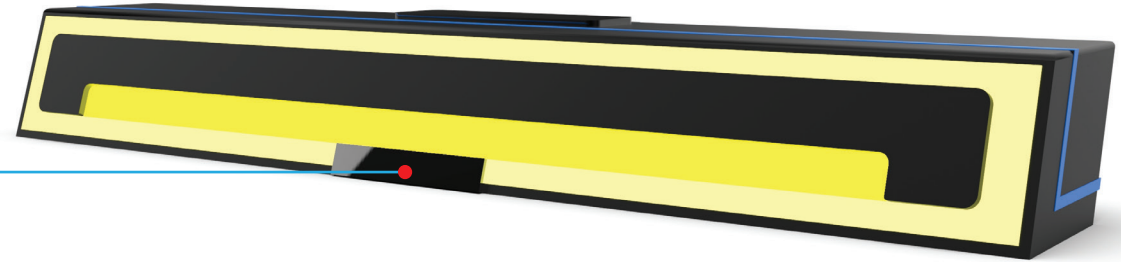
May to open
the cover for
maintenance
purpose.



FEATURES

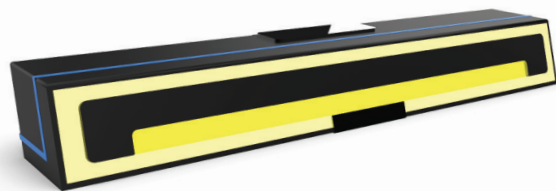
Motion Detector

Light will become brighter when it detects the presence of people within 3 meters.

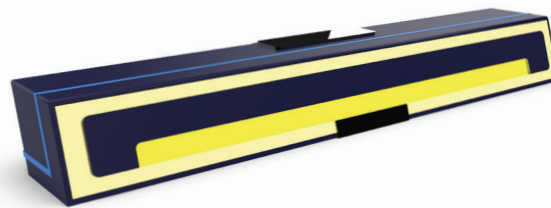


Light-Dependent Sensor

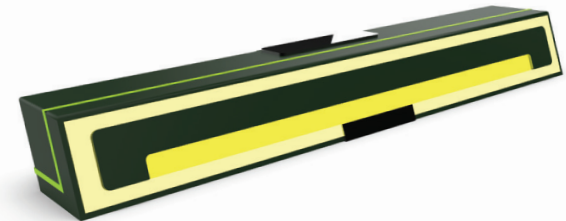
Light will turn on automatically when the brightness of the environment becomes dark.



Matte Black



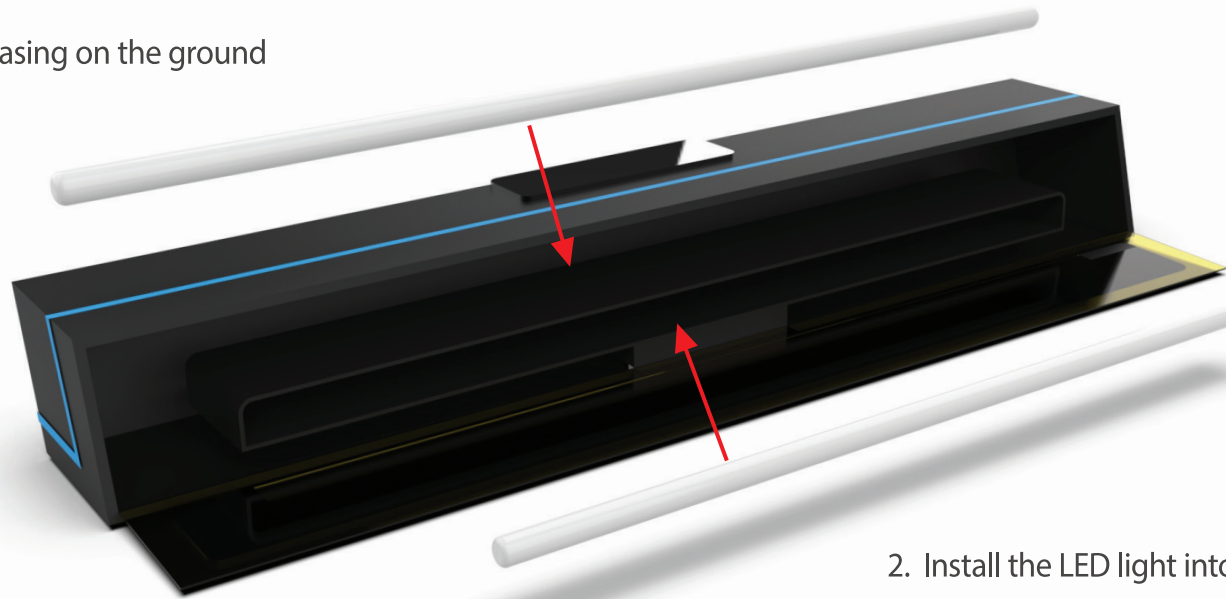
Navy Blue



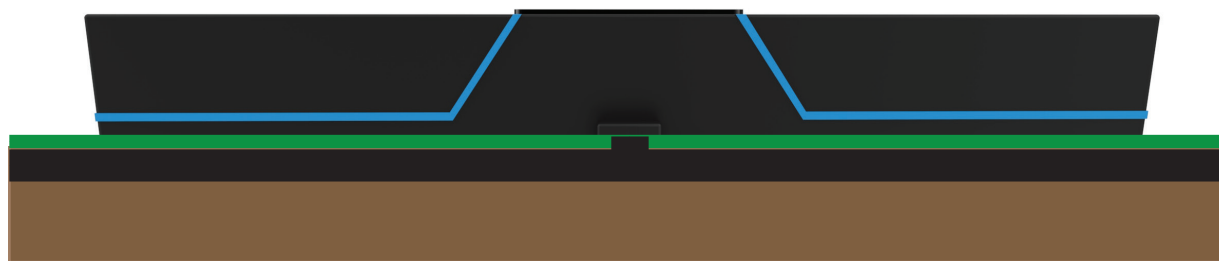
Forest Green

INSTALLATION

1. Lock the casing on the ground

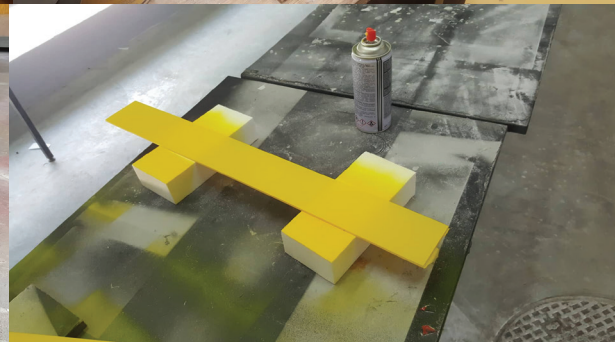
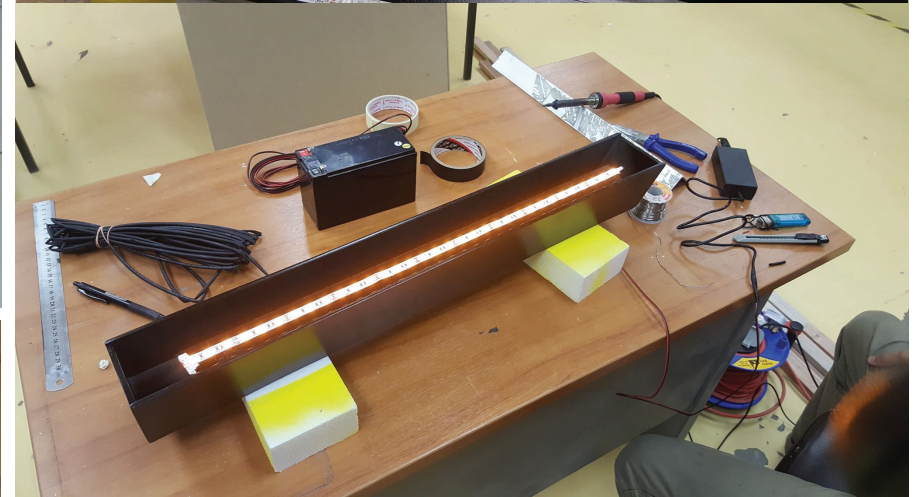


2. Install the LED light into the casing



3. Bury the wire under the ground

PROTOTYPE MODEL



6

FURNITURE



**MALAYSIAN
INTERNATIONAL
FURNITURE
FAIR 2020**

PARTICIPANT

The Playground

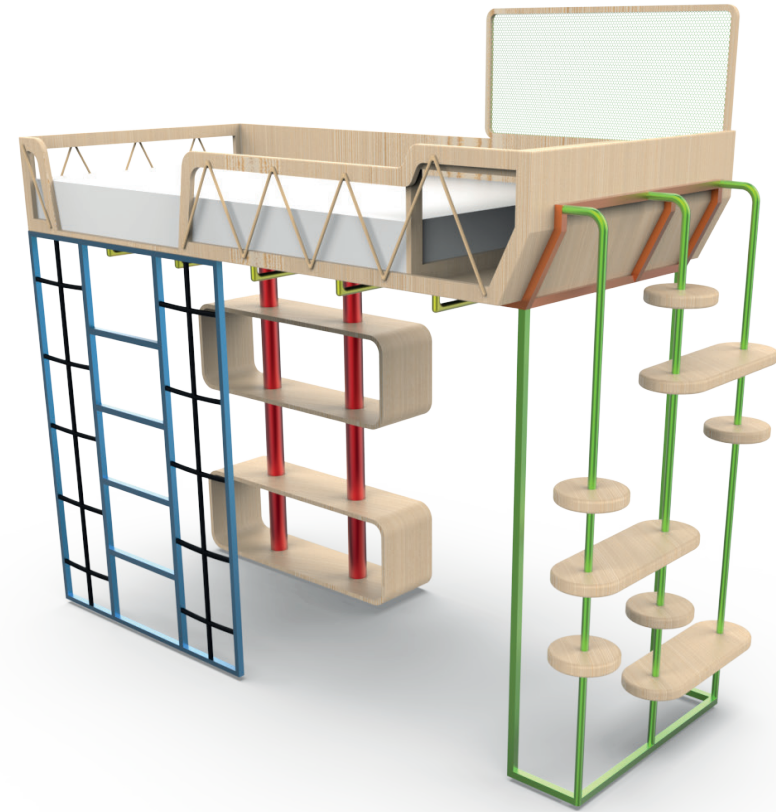
PROBLEM STATEMENT

Most of the parents nowadays do not have time to accompany their children to have physical activities due to busy in their work. Some of the parents will worry their children go to the outdoor playground alone while they are working.

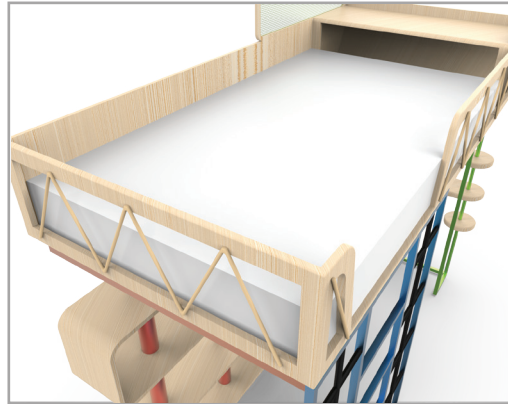
DESIGN CONCEPT

The Playground is a furniture that designed for age 6-10 children with playground concept. It is able to place in a 12x12 ft condominium bedroom. The objective of creating it is to encourage children to have more physical activities because children in this age range active and enjoy in many physical activities.

The Playground is also designed to allow children to create their own ideal playground. Most of the children in this age range physiologically active in physical activities, but meanwhile everyone of them has their own personality and thinking. Therefore, it has sufficient of space to allow users to place and arrange their stuff based on their interest. Moreover, **The Playground** is able to help the children to relieve stress from their academic. They can relieve stress by using it to do exercise.



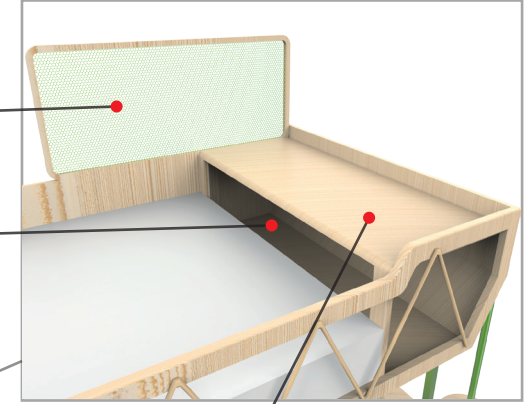




Mattress
Standard Malaysia & Singapore
Mattress
(Super Single Size)
L 75" (1900mm) x W 42" (1070mm)

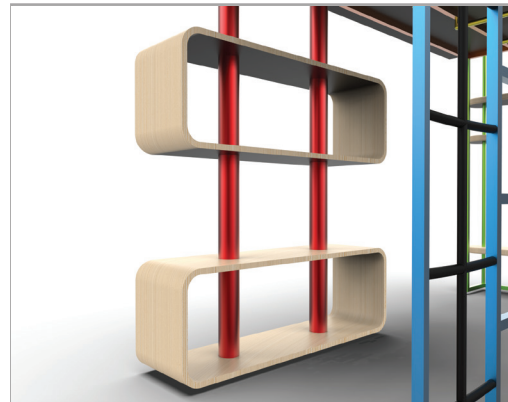
Metal Mesh Board
For users to attach paper, notes,
photos etc by using magnet

Storage Compartment
For users to keep their stuffs

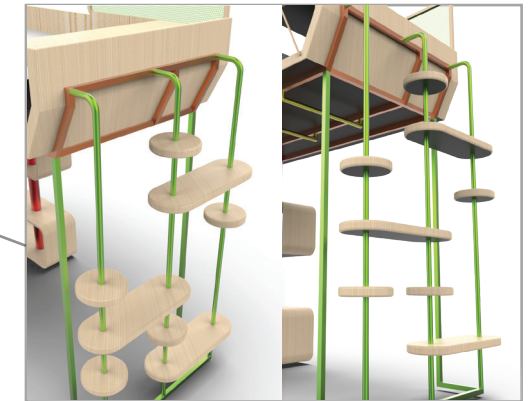
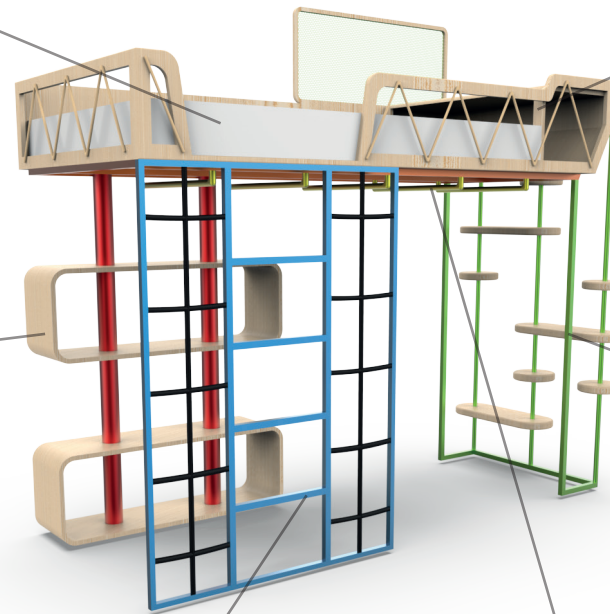


Mini Table Top
For users to put their stuffs
(phones, tablets etc)

FUNCTIONS & FEATURES

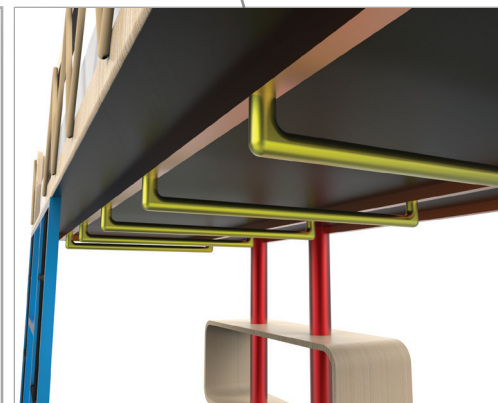
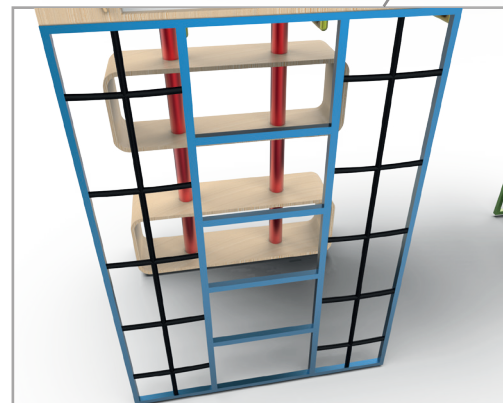


Shelves
For users to put toys, books, clothes
etc (based on user's interest)

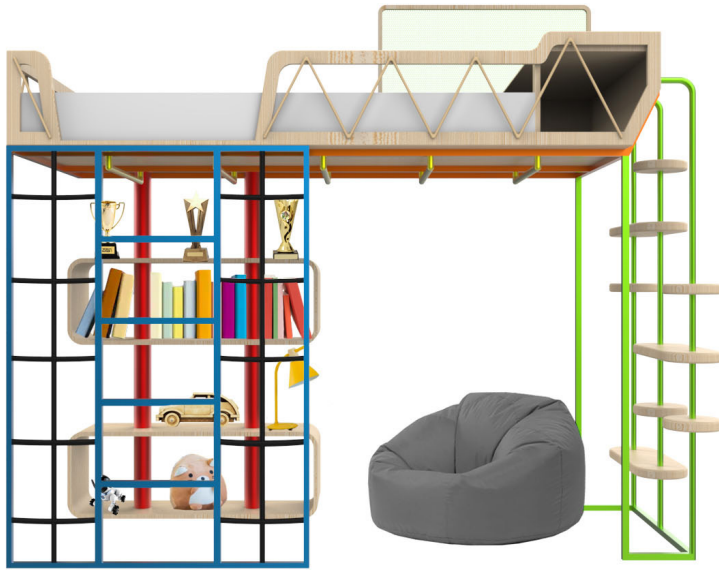


Lianas Climber
Allow users to climb to get their
stuff from Mini Table Top

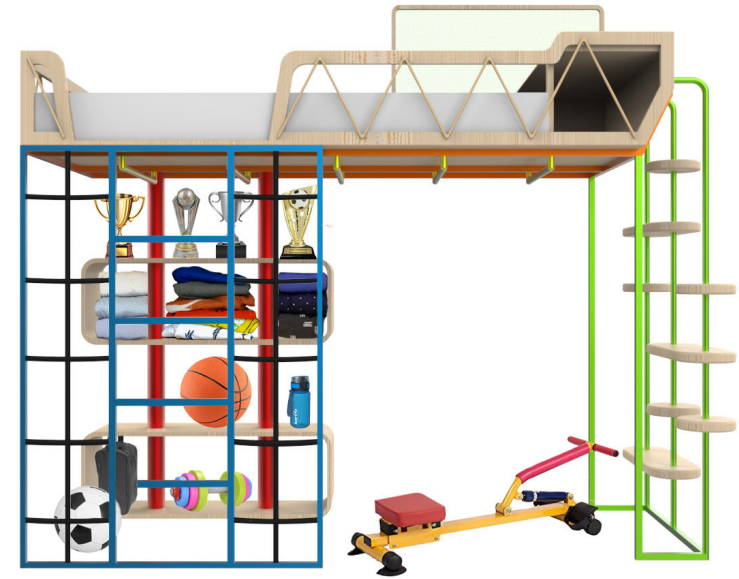
Ladder & Net
Allow user to climb to the
mattress



Monkey Bar
For users to do workout or exercise



Leisure Area



Kids Gym



Toy World



Study Area

MATERIALS & CONSTRUCTION METHOD



Bed Frame & Mini Table Top



Shelves



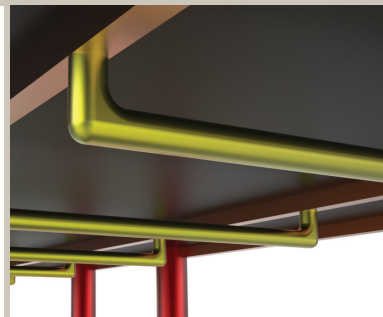
Lianas Climber



Shelves' Support



Lianas Climber's Structure



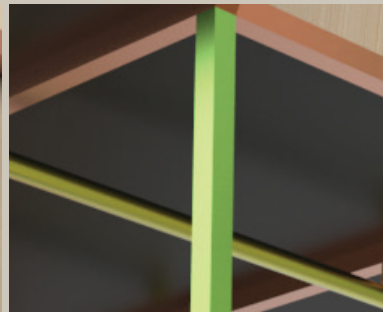
Monkey Bar



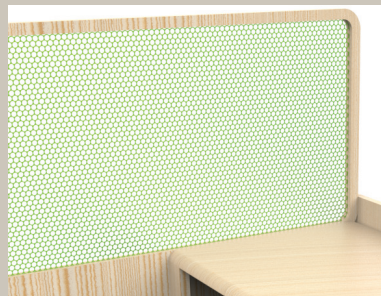
Ladder



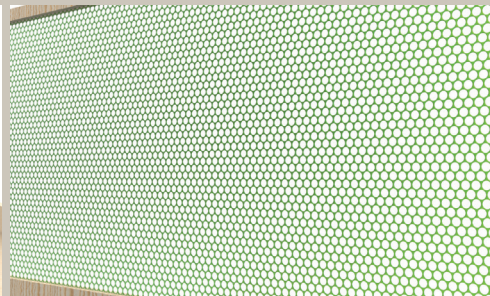
Bed Frame's Structure



Lianas Climber's Structure



Metal Mesh Board



Pine Wood
(Lock by screw)



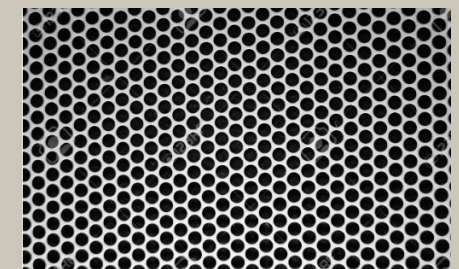
Round Metal Tube
(Welding)



Square Metal Tube
(Welding)



Metal Mesh
(Place between 2 Pine
Wood Frame)



7

HEALTHY
LIVING
PRODUCT

Hyper 



PROBLEM STATEMENT

The amount of the obesity in the group age of 2 to 4 children is increasing year by year due to the lack of physical activities. Boys are slightly more to have obesity than girls

DESIGN CONCEPT

The objective of this project is to create a baby stroller that can reduce the amount of obesity in the group age of 2 to 4 children. This is also to ensure the children have enough physical activities to prevent obesity and maintain their healthy body. The product has the combination of baby stroller and baby bicycle with **minimalist** and **sleek** design. An application was also created with the function of receiving rewards based on the walking distance to motivate the children to do more exercise.



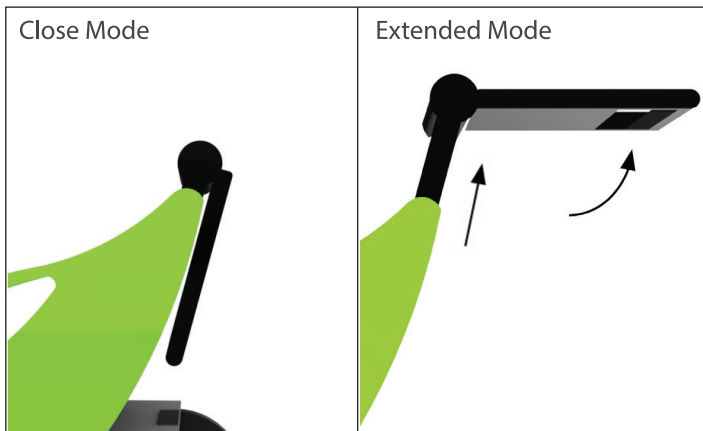


Free Rotation Front Wheels

Inspired by the existing baby stroller wheels

Foot Rest

Can be closed when the kid gets tired



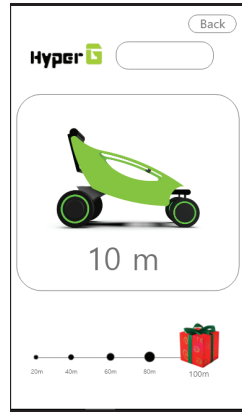
Handle

Can be extended higher for parents to push easily

GPS Tracker

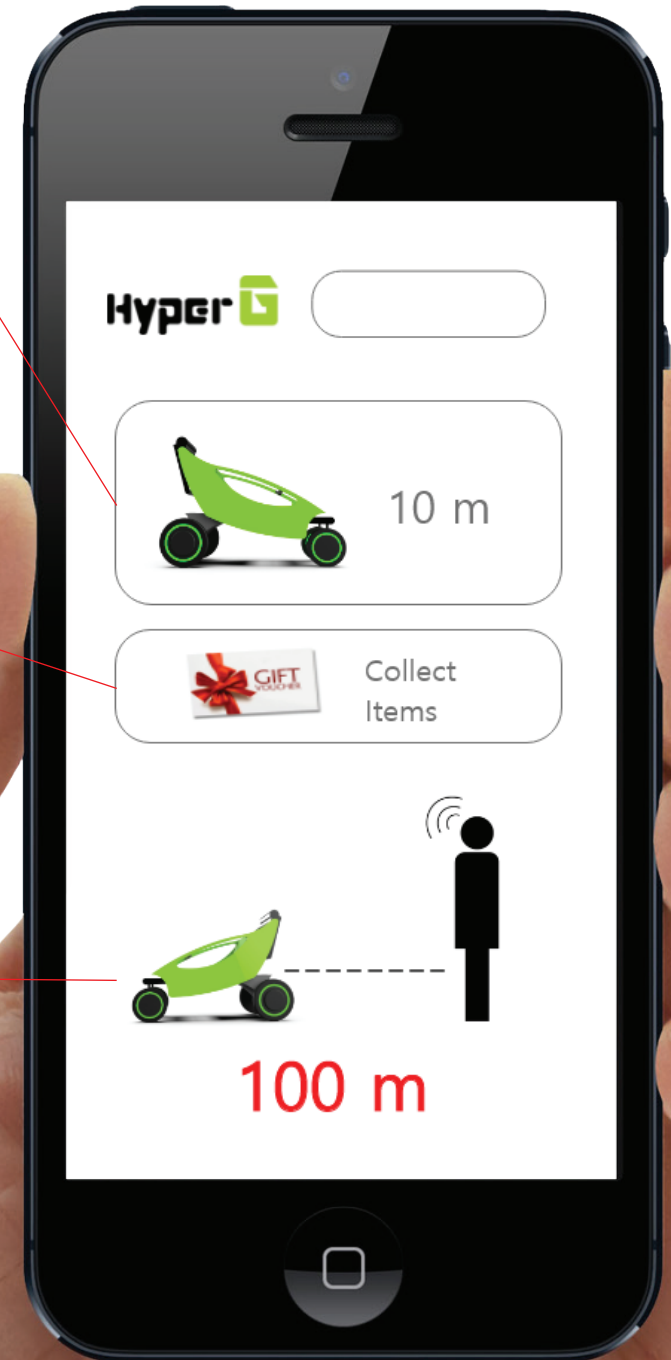
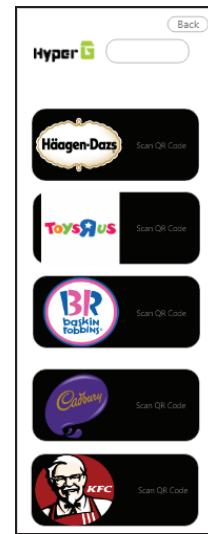
Advanced GPS tracking will notify you through a cellphone vibration if the distance between you and your child exceeds 100 meters





- Users are able to know the distance of their children have walked.
- Users will receive vouchers as reward if the target distance of walking for the children is achieved.

- Users are able to use the received vouchers to collect items by scanning the QR code.



- The cellphone will vibrate if the distance between the users and their children exceeds 100 meters.



EXPLODED VIEW





Nicevv

Computer Skills

- Adobe Illustrator	●	●	●	●	○
- Adobe Photoshop	●	●	○	○	○
- Microsoft Excel	●	●	●	○	○
- Microsoft PowerPoint	●	●	●	●	●
- Microsoft Word	●	●	●	●	●
- Solidworks	●	●	●	○	○
- Sketchup Pro	●	●	●	●	○
- Keyshot 7	●	●	●	●	○
- Sketchbook Autodesk	●	●	●	○	○

Hard Skills

- Manual Sketching	●	●	●	●	○
- Digital Sketching	●	●	●	○	○
- Model Making	●	●	●	●	○

Language Skills

- English	●	●	●	●	○
- Chinese					
a) Mandarin	●	●	●	●	●
b) Cantonese	●	●	●	●	○
- Bahasa Malaysia	●	●	●	●	○



