





Hi!I'm *Rahul Nair.*Sr. Industrial designer

An astute and results-driven professional with prominent experience of 5+ years serving as a Sr. Industrial Designer and Head of Design and Development.

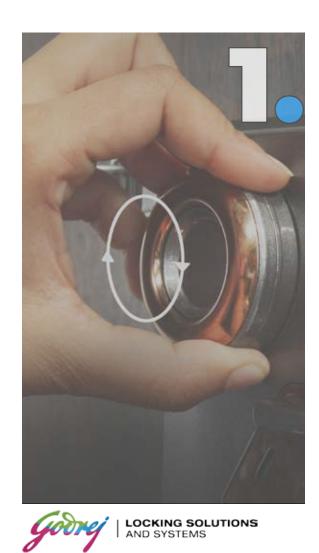
My key responsibilities include in Product design / Industrial designing & development.

Deft in managing design operations involving design teams, research, concept development, CAD modeling, product rendering, engineering assistance, Development drawings, catalogue design, packaging design, mockups and proto development assistance and coordinating with internal and external cross-functional departments.

My indigenous experience made my expertise in leading teams, managing several projects of different clients, understanding latest the trends, concept generation and CAD modeling. Expertise in delivering the project within the agreed time, cost, quality, profitability, standards and ensuring the conformance to design specifications.

Having worked with multiple clients including Godrej and Boyce, Baybreez, Symphony, Softlink and Gilbarco Veeder Root (USA & India).











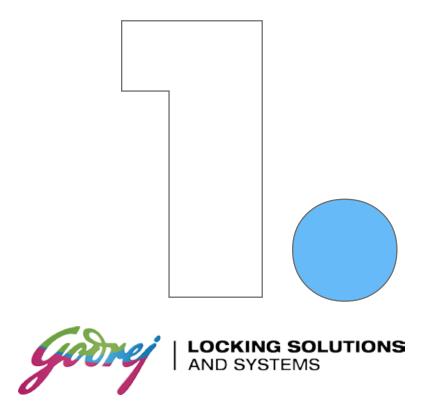












- **1.1** GODREJ MORTISE HANDLES
- 1.2 GODREJ PULL HANDLES
- **1.3** GODREJ EXS RIM LOCKS
- 1.4 GODREJ ULTRA RIM LOCKS
- 1.5 GODREJ RIM LOCKS PACKAGING
- 1.6 GODREJ SKIDO (KITCHEN HARDWARE & SOLUTIONS)
- 1.7 GODREJ INDIA SERIES DISPLAY STAND DESIGN



1.1 GODREJ MORTISE HANDLES

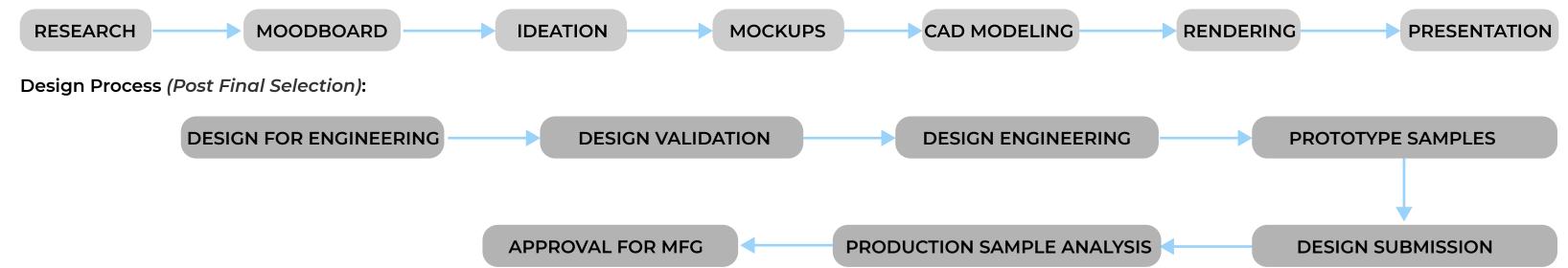
Brief in general:

Design a range of mortise handles catering to different mortise segments such as Popular, Lever, Amando and Premium series for Godrej locking systems and solution.

Engineering points to considered:

- 1. Design handles as per weight limitations set by the engineering team. I.E 150gm 200gm and 250gm catering to each set category.
- 2. Design symmetrical as well as Asymmetrical handles as per the set zonal and non zonal category.
- 3. Handles to be designed within the height, width and length limitations as set by GLSS team.
- 4. Handles should be designed to fit the existing mechnism and technical requirements.

Design Process (Concept Presentation):



Key roles undertaken:

Project Managemment (Project lead)
Team Management
Research and Design Development
Mentorship
Concept Rendering Assistance
Mockup and Prototyping Development
Presenation
Engineering Assistance
Analyzing Samples as per intended design principles.





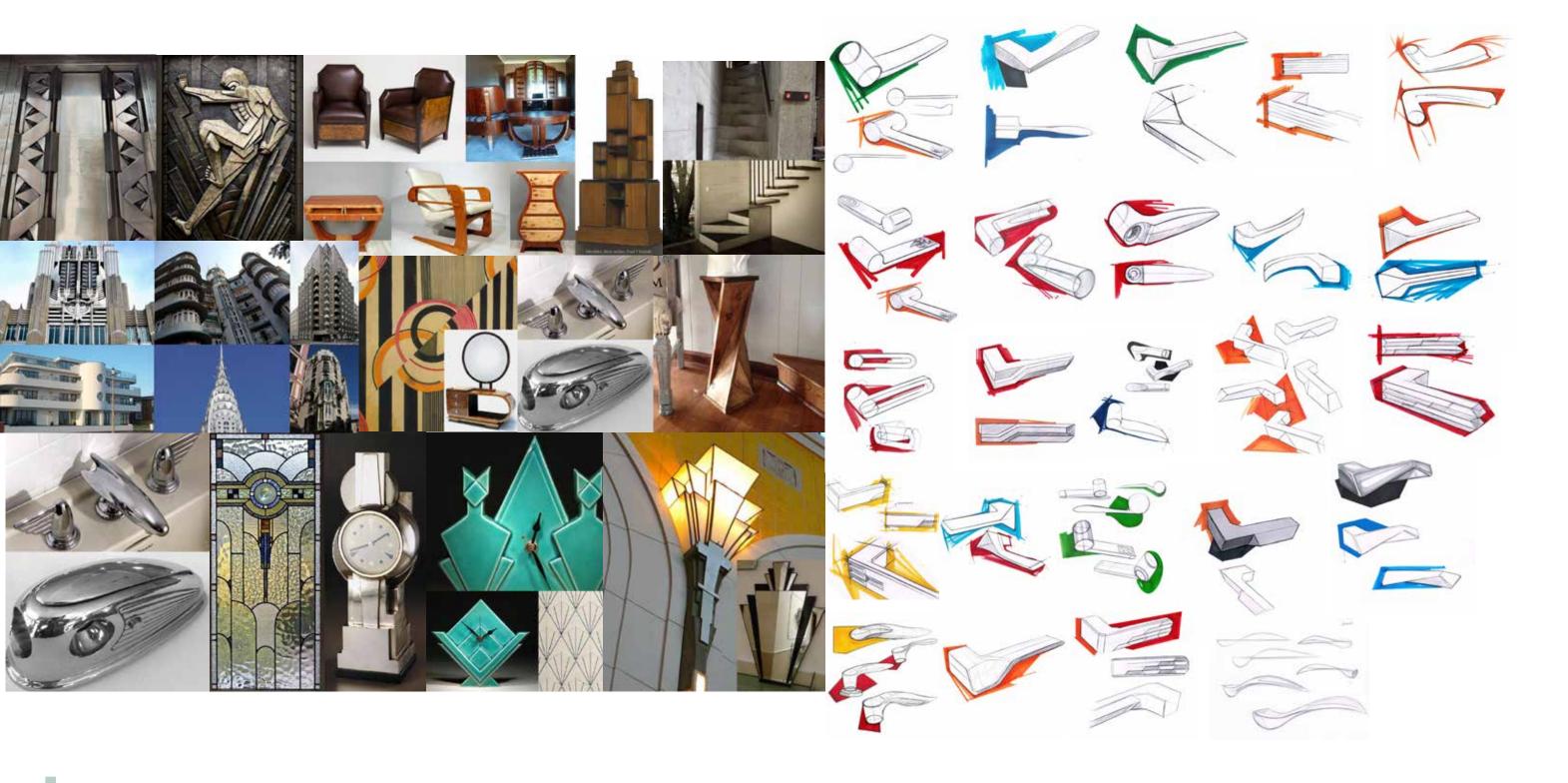


1.1 GODREJ MORTISE HANDLES



ART DECO FORM INSPIRATION BOARD

IDEATION SKETCHES





1.1 GODREJ MORTISE HANDLES

CONCEPT RENDERS





1.1 GODREJ MORTISE HANDLES

INDIA DESIGN MARK AWARDS FOR MY DESIGN











Chris Mortise Handle

Godrej Locking Solutions & Systems (Division Of Godrej & Boyce Mfg. Co. Ltd.)

Godrej Interio - Design











Important Information

HOME | CONTACT US

LOGIN

About India Design Mark | Objectives | Benefits | Good Design Awards, Japan | Recipients India Design Mark Jury

■ 2012 | 2013 | 2014 | 2015 | 2016 | 2017 | 2018 | 2019 | 2020 ▶



GODREJ ULTRA XL+ VERTIBOLT

Manufacturer: GODREJ LOCKS & ARCHITECTURAL FITTINGS AND SYSTEMS (DIVISION OF GODRE) & BOYCE MFG. CO.

Designer: GODREJ LOCKS + FUTURING DESIGN



CAMEO MORTISE HANDLE

Manufacturer: GODREJ LOCKS & ARCHITECTURAL FITTINGS AND SYSTEMS Designer: GODREJ LOCKS + FUTURING



Manufacturer: INDIA YAMAHA MOTOR PVT

Designer: NORIHIKO KAMIYA



SKIDO - SMART KITCHEN DRAWERS AND

Manufacturer: GODREJ LOCKS & ARCHITECTURAL FITTINGS AND SYSTEMS Designer: GODREJ LOCKS + FUTURING DESIGN



REMO MORTISE HANDLE

Manufacturer: GODREJ LOCKS & ARCHITECTURAL FITTINGS AND SYSTEMS Designer: GODREJ LOCKS + FUTURING



Manufacturer: GODREJ & BOYCE MFG CO.

Designer: RAJAVELU M MANIKKAM



1.2 GODREJ MORTISE PULL HANDLES

MARIN PULL HANDLE:





Graphics and Packaging

Key roles undertaken:

Designed
CAD Modelling
Mockup and Proto Development
Renders
Assisted during Engineering development.
Assisted in Graphics Development



At Sales Picture



1.3 GODREJ EXS RIM LOCKS

Brief in general:

Design a range of EXS Rim Locks (VERTI, TWIN and TRI-BOLT) with a fresh design language, aesthetically appealing and futuristic looking lock with a high level of security for regular doors, sliding doors as well as double doors.

Engineering points to considered:

- 1. Design the range of locks conisdering the mechanism pertaining to ASTRO, AQUARIUS and ALTRIX.
- 2. The design must adhere to the following design prerequisites:
- 2.1 The design must follow the knob size constraint as mentioned by the engineering team.
- 2.2 Design must include latch and aldrop for both TWIN and TRI-BOLT variants.
- 2.3 New Godrej logo Pin is to be incorporated into all the three variants.
- 2.4 All the newly designed knobs and latches should be retro-fitable within the designed range family.

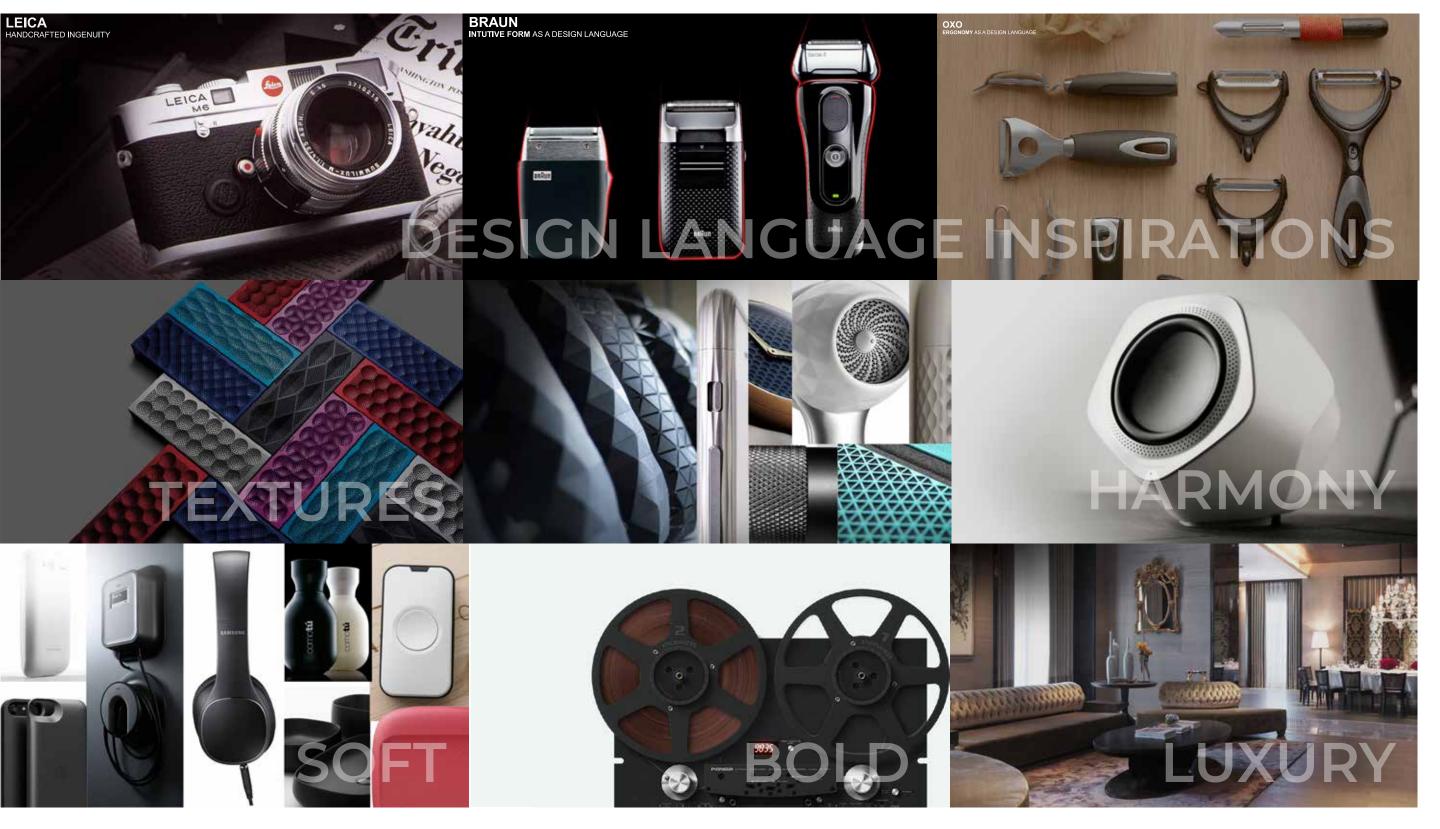
Research and study the esisting EXS range: (Benchmark for mechanism and features)



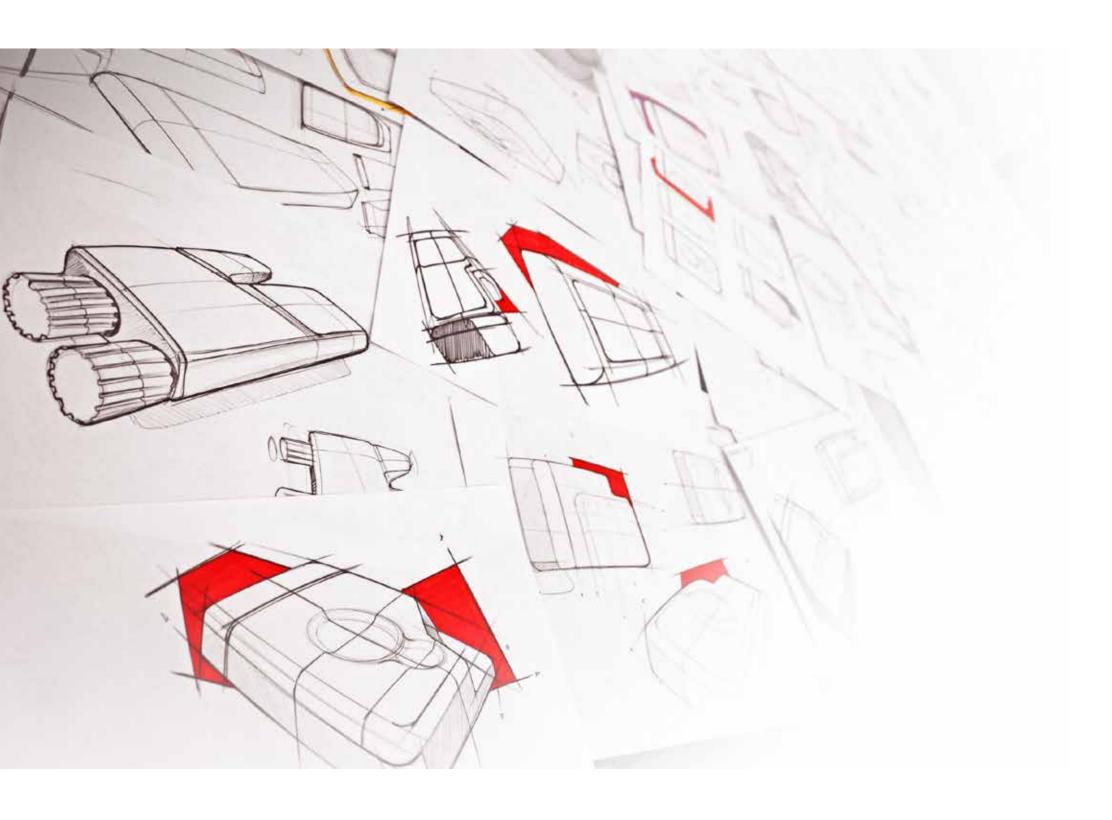


1.3 GODREJ EXS RIM LOCKS

INSPIRATION / MOODBOARD







ELEGANT PRESTINE LUX PRECIOUS SOFT STURDY LAVISH POWER **CARFTED CURVYLINEAR** GRANDURE EXCLUSIVE FINE



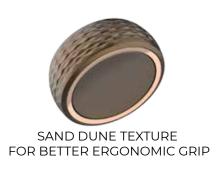




1.3 GODREJ EXS RIM LOCKS

FINAL CONCEPT















VERTI BOLT DESIGN

TWIN BOLT DESIGN

TRI-BOLT DESIGN



1.3 GODREJ EXS RIM LOCKS

FINAL CONCEPT

DESIGN FEATURES

SOFT AT THE SAME TIME BOLD AND STURDY DESIGN.

DESIGN LANGUAGE MAINTAINED THROUGHOUT THE EXS RANGE

COPPER TRIM ADDS AS AN ACCENT TO THE OVER ALL DESIGN GIVING IT A LUX FEEL.

SAND DUNE TEXTURE AROUND THE KNOB ADDS PROPER GRIP.

KEY FEATURES SUCH AS LATCH, ALLDROP AND GODREJ LOGO INCORPORATED WITHIN THE DESIGN

SYMMETRY OF THE DESIGN IS MAINTAINED.

OVERALL DESIGN FITS THE EXISITING MECHANISM DEVELOPED BY THE ENGINEERING TEAM.







Brief in general:

Design a new range of ULTRA XL Rim Locks (Dead bolt, Twin and Tri-Bolt) following a new design language.

Engineering points to considered:

- 1. Design the new range of locks as per the newly developed mechanism.
- 2. The design must adhere to the following design prerequisites:
- 2.1 The design must follow the knob size constraint as mentioned by the engineering team.
- 2.2 Design must include latch and aldrop for both TWIN and TRI-BOLT variants.
- 2.3 New Godrej logo Pin is to be incorporated into all the three variants.
- 2.4 All the newly designed knobs and latches should be retro-fitable within the designed range family.
- 3. Design must aid sheet metal forming operation.

Challenges

- 1. The design should be sheetmetal forming friendly.
- 2. Achieving minimum fillets, Chamfers and blend surfaces was a challenge.
- 3. The design cannot hold intricate details, due to sheetmetal forming limitations.



Study done on Sheetmetal behavior, operation and limitations

Existing XL Rim Locks





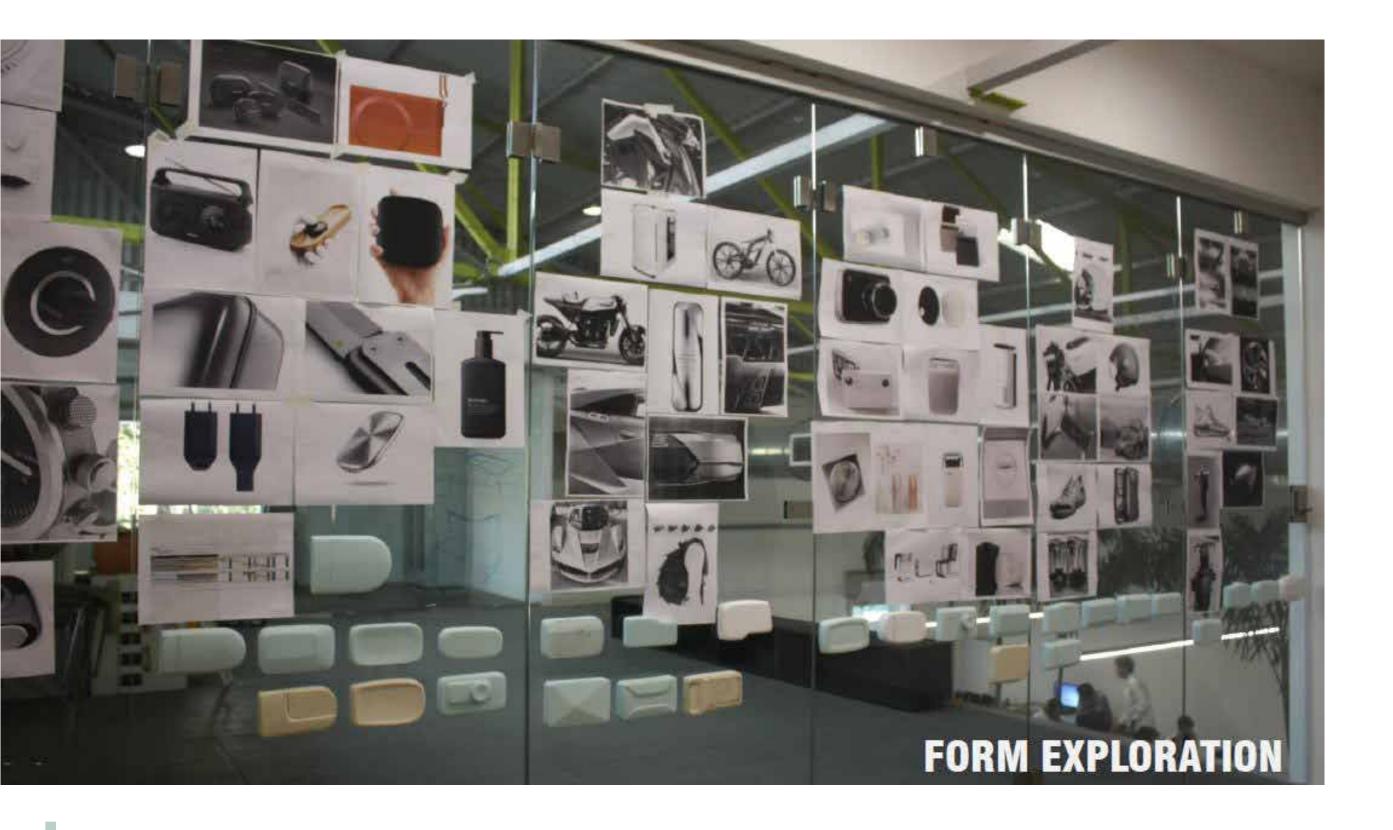




MODDBOARD | DIRECTIONS





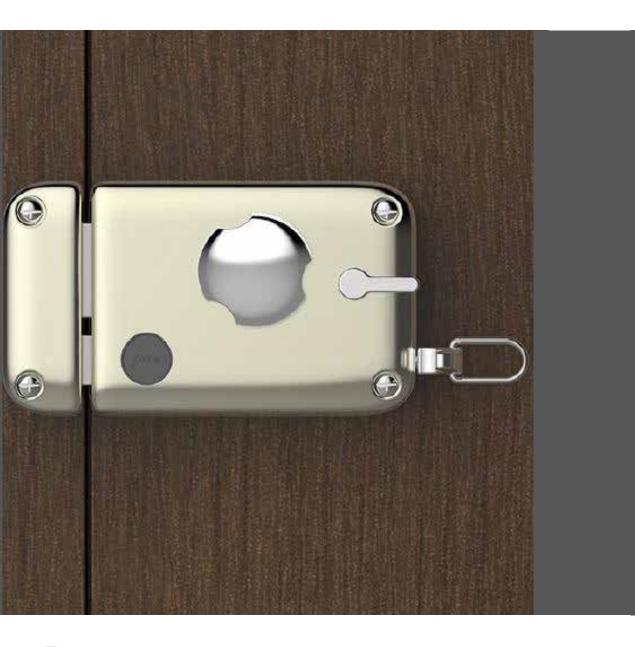




CONCEPT 1

STURDY INTIUITIVE SMOOTH MINIMAL









CONCEPT 2

STURDY INTIUITIVE RUGGED MINIMAL







1.5 GODREJ ULTRA XL RIM LOCKS PACKAGING

Brief in general:

Design a blister packaging for ULTRA XL Rim Locks. The new design should be, eye-catchy, instructive, robust and appealing to the eyes of the customers.

Exisiting Locks Packaging Study

Problem Areas:

- 1. Overall Packaging is'nt eye catching and looks outdated. Colors used is very dull and mundane.
- 2. Product Visibility is Zero. The packaging dosn't fullfill the customers right to information on the contents or aesthetics. Since, customers cannot break the box seal prior to purchase
- 3. Product name isnt tangible enough and product description is very hard to navigate.
- 4. Lacks display feature

Blister Packaging Study



COMPACT SAVING SPACE, MATERIAL



PRODUCT ENHANCEMENT CAPABILITY TO TAKE THE SHAPE OF THE PRODUCT THUS ENHANCING AESTHETICS





DISPLAY IMPACT
MULTIPLE DISPLAYING
POSSIBILITY TO BE ADAPTABLE
TO RETAIL STORAGE

Key roles undertaken:

Project Lead
Designed
CAD Modelling
Renders
Assisted during Engineering development.
Assisted in Graphics Development





1.5 GODREJ ULTRA XL RIM LOCKS PACKAGING

CONCEPT FEATURES:

- 1. Eye-cathing packaging design which is robust, sturdy and compact.
- 2. Blister packaging enhances product visibility.
- 3. No breakage of seal required as all the infographics and contents are clearly visible on the packaging.
- 3. Tangible Product name and Description.
- 4. It is designed to be hung as well as serve the purpose as a display stand.







Materials: PP and Cardboard



ORTHOGRAPHICS







Godref WITHARL

CONCEPT RENDER W INDICATIVE GRAPHICS



1.6 GODREJ INDIA SERIES DISPLAY STAND DESIGN

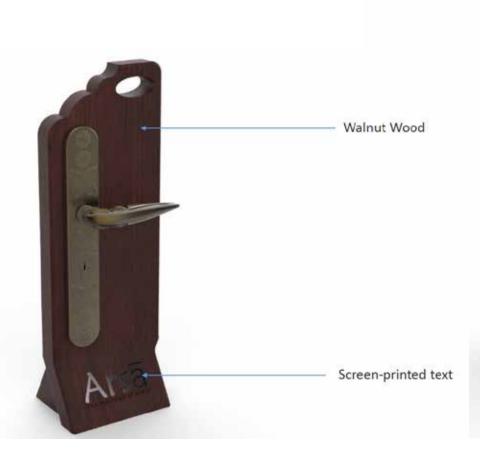
Brief in general:

Design a display stand for 'Ársa' Premium Mortise handles following the design language of the India Series.

"Arsa", an intriguing range of handles, celebrating the Indian heritage of fine craftmanship and its luxuriance of myriad cultures, "Arsa" symbolizes sacred descent and golden eras, thus presenting a series that exceptionally illustrates intricate carvings embellishing temples,

majestic forts and magnificent palaces all through our realm.









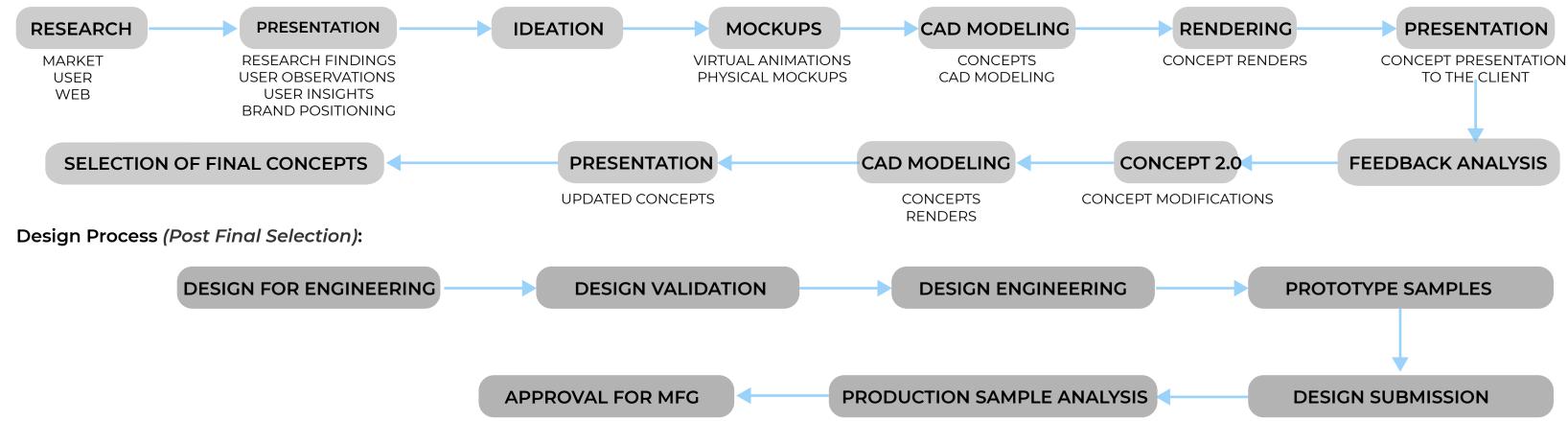


1.7 GODREJ SKIDO KITCHEN ORGANISERS

Brief in general:

Study the modular kitchen market in India and design a unique range of modular kitchen solutions for Godrej and Boyce. The design should cater to the indian needs and aspirations.

Design Process (Concept Presentation):



Key roles undertaken:

PROJECT DURATION IN WAVES 1 AND 2 (2.5 years progressively)

Project Managemment (Project lead)

Team Management

Research and Design Development (Concept: Cutlery tray/ Cups and Saurce and Thali(crockery organiser))

Mentorship

Concept Rendering Assistance

Mockup and Prototyping Development

Presenation

Engineering Assistance

Analyzing Samples as per intended design principles.



1.7 GODREJ SKIDO KITCHEN ORGANISERS





Who We Are

What We Do

Brighter Living

Good & Green

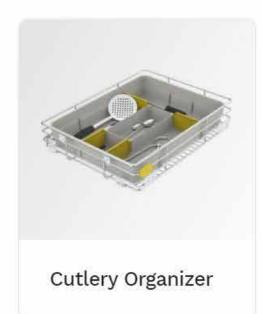
Investors

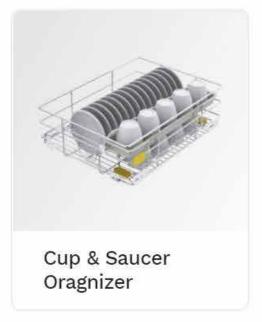
Media

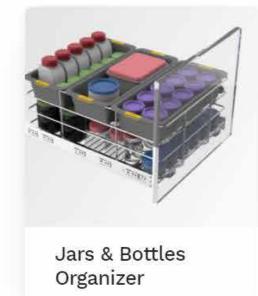
Contact Us

Products(13)

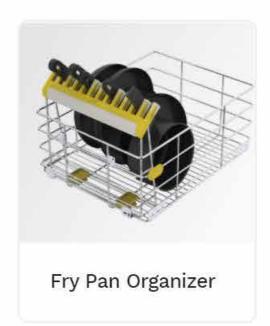


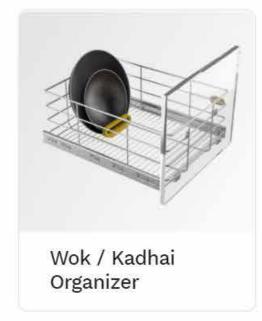


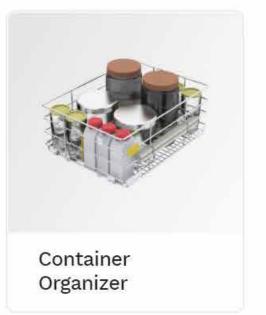
















Source: https://www.godrej.com/Search/skido

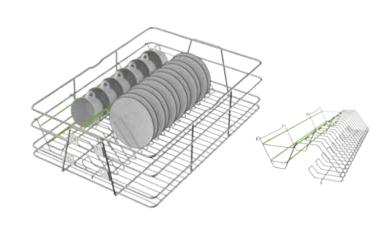


1.7 GODREJ SKIDO KITCHEN ORGANISERS

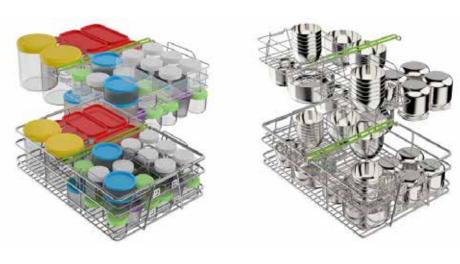
PROOF OF CONCEPT

Concepts during development stage images.







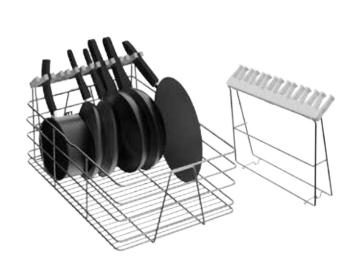




CUPS AND SAUCER ORG

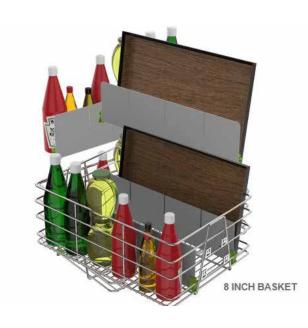
THALI ORG

M-TRAY









PAN HOLDER

WOK ORG

BASKET DIVIDER



AIR COOLER (PLASTIC INJECTION MOLDING)

E-Kart is a medical equipment carrying cart. This cart is designed by considering conditions of a fast-paced hospital environment. One can transport the cart on its wheel from one place to another place safely and very quickly. e-kart is all in one solution, which includes the PC unit (Personal Computer), UPS (uninterruptible power supply), Printer and ECG unit (electrocardiogram). Easy handling, lightweight and less consuming area make this cart perfect for the usage in an emergency hospital environment.

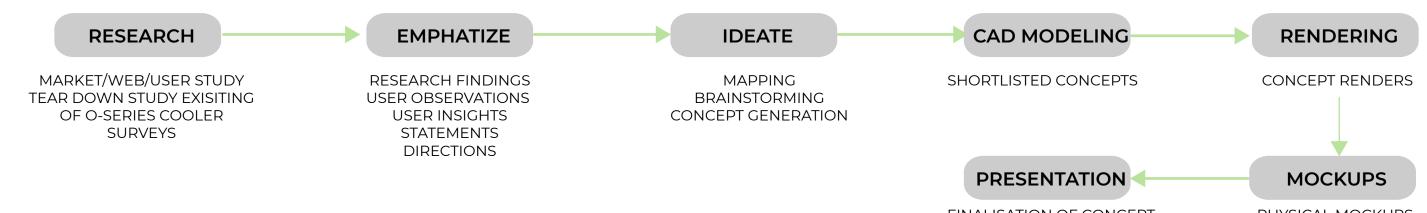


2 BAYBREEZE AIR COOLER

Brief in general:

Design an Air cooler for Baybreez keeping technical aspects of Baybreez O series (Metal cooler) into consideration. The design developed should be using plastic injection molding method for manufacturing.

Design Process (Concept Presentation):





MARKET STUDY USER STUDY TEAR DOWN- O-SERIES NAGPUR VISIT DESIGN TEAM

(CLIENTS CITY)

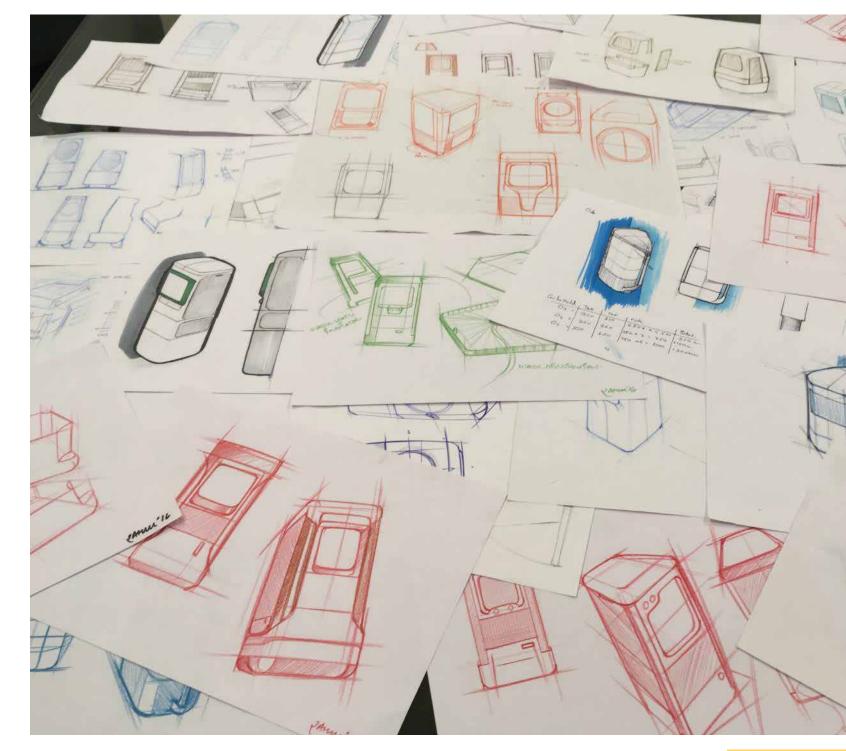


2 BAYBREEZE AIR COOLER

MOODBOARD | DIRECTION



CONCEPT GENERATION





2 BAYBREEZE AIR COOLER

FINAL OUTPUT

FEATURES

EASY TO ASSEMBLE AND DISASSEMBLE.

EASY WATER LOADING OPERATION.

DUST AND MOSQUITO NET.

PORTABILITY WITH CASTORS WITHIN THE TANK.

HANDLE WITH CORD WINDING PROVISION.

EASY TO REMOVE PADS FOR CLEANING AND REPLACEMENT.

BETTER BUILD QUALITY AND FINISH.

BETTER AESTHETICS AND SHAPE.

WATER LEVEL INDICATOR WITH CLEAR VISIBILITY.

MODULAR DESIGN.

LESS SPACE CONSUMPTION (FOOT PRINT).

EASY ACCESSIBILITY FOR THE TANK.

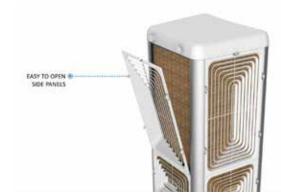
FAN MOTOR ASSEMBLY ON THE FRONT PANEL.

LESS NOISY.

BETTER AIR DELIVERY.

EASY STORAGE.

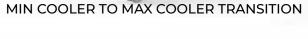
CHOICE OF GOOD GRADE OF PLASTIC THAT IS RUGGED IN LOOKS.

















EXTRUSION BASED STRUCTURE FOR ASSEMBLY

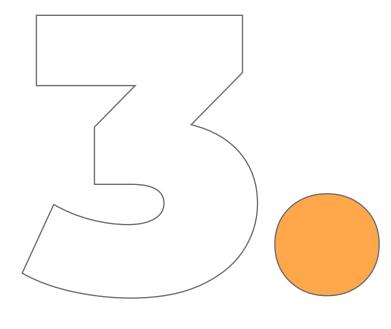














LATITUDE RANGE OF FUEL DISPENSERS

The LATITUDETM series from Gilbarco Veeder-Root is the next generation of dispensers to fuel you into the future. With 5 different configurations to choose from, the LATITUDETM series offers you the freedom to tailor, scale and future-proof your dispensers to meet your specific and ever-changing needs.

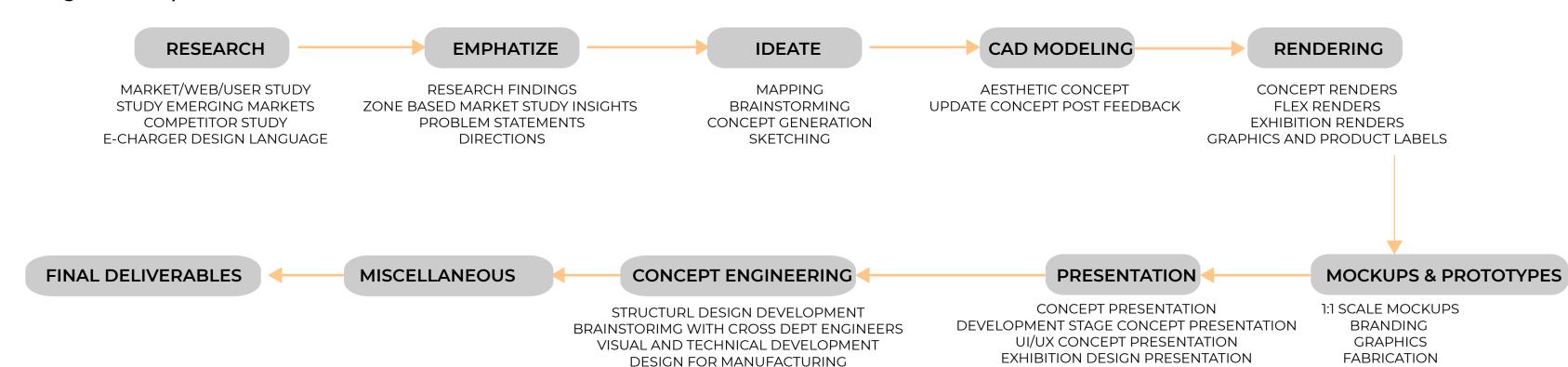


3 GILBARCO VEEDER ROUTE LATITUDE FUEL DISPENSER

Brief in general:

Design a new range of Fuel Dispenser for GILBARCO VEEDER ROUTE keeping electric charger imagery in mind. The design should be future ready not only aesthetically, but also in terms of technology, features, value, usability and overall promise.

Design & Development Process



GRAPHICS AND PRODUCT LABELS PRESENTATION.

Key roles undertaken:

Project Managemment (Project lead)
Team Management
Concept Design Development
Mentorship
Concept Rendering Assistance
Exhibition Design
UI/UX Design
Forecourt Design

Mockup and Prototyping Development Presenations

Engineering and marketing workshops with clients team.

Cross-functional workshop with clients engineering and marketing team.

Graphics and visual design for the fuel dispenser Engineering and structural development assistance

Factory Visit and supervision.



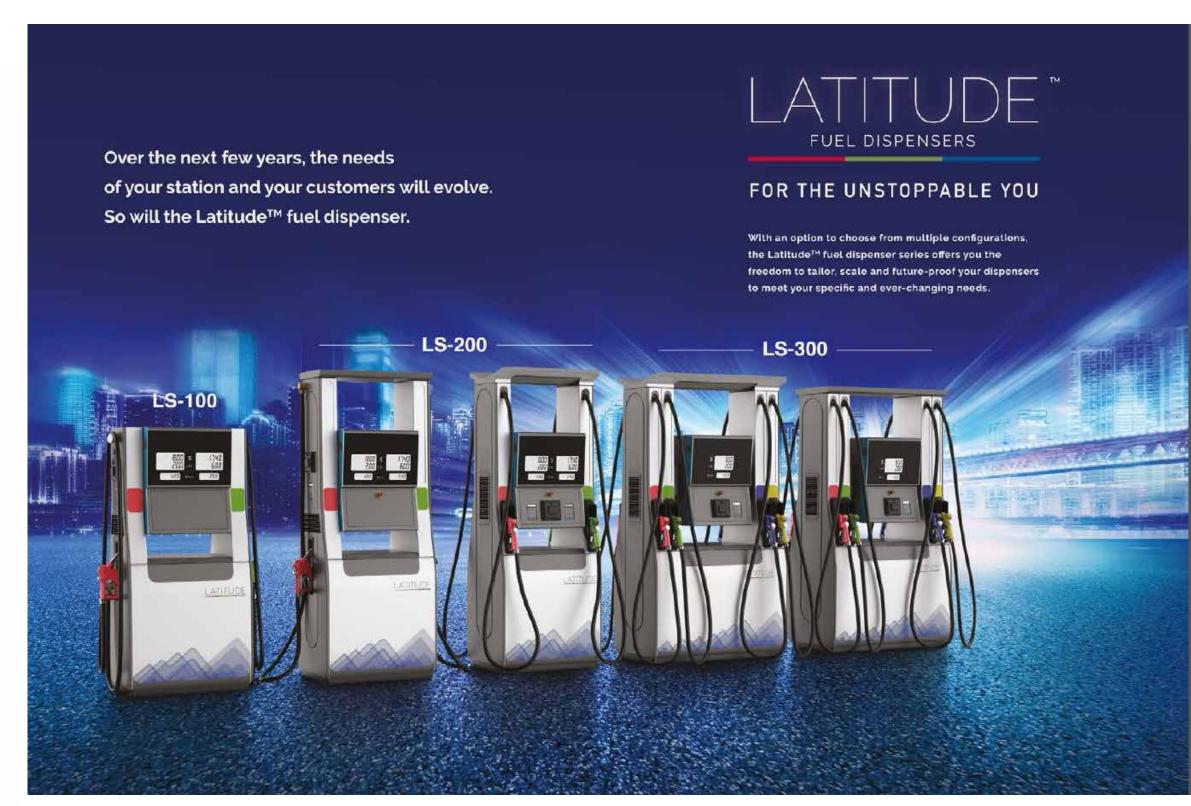
CMF

COST CUTTING DESIGN

3 GILBARCO VEEDER ROUTE LATITUDE FUEL DISPENSER

FINAL OUTPUT





https://www.gilbarco.com/sea/latitude

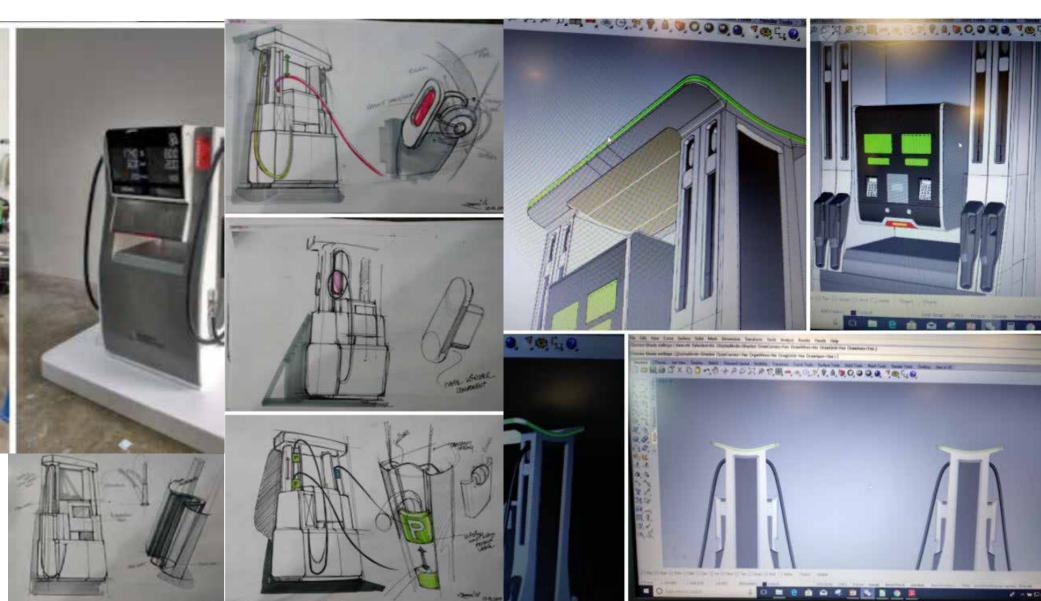


3 GILBARCO VEEDER ROUTE LATITUDE FUEL DISPENSER

PROOF OF CONCEPT



Lets discuss further.



https://www.gilbarco.com/sea/latitude



4 SOFTLINK International MEDIE-KART



MEDI KART / E-KART

E-Kart is a medical equipment carrying cart. This cart is designed by considering conditions of a fast-paced hospital environment. One can transport the cart on its wheel from one place to another place safely and very quickly. e-kart is all in one solution, which includes the PC unit (Personal Computer), UPS (uninterruptible power supply), Printer and ECG unit (electrocardiogram). Easy handling, lightweight and less consuming area make this cart perfect for the usage in an emergency hospital environment.

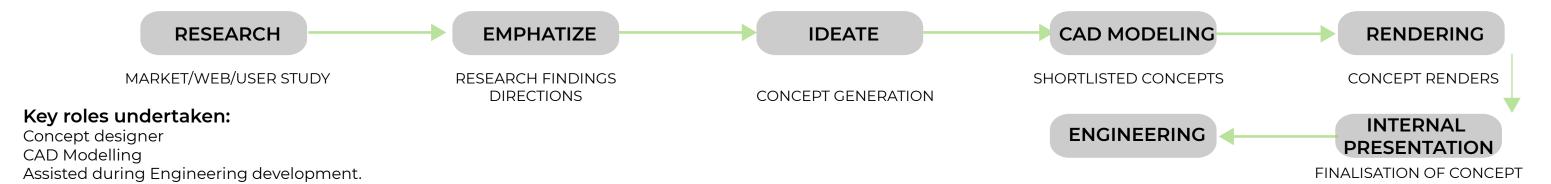


4 SOFTLINK International MEDIE-KART

Brief in general:

Design a medical equipment carrying cart, which include the PC unit, UPS, Printer and ECG unit. Design should be easy to handle lightweight and with lesser foot print.

Design Process













FINAL PRODUCT



5 SYMPHONY LTD. TOUCH SERIES AIR COOLER



SYMPHONY 'TOUCH' SERIES OF AIR COOLER

The future of air cooling is here! A yet another innovation from Symphony, the world's largest brand in air cooling, Symphony Touch series is loaded with new age features like 6 aspen pads, fully closable louvers and cassette type removable pads that are unheard of in the domain of air cooling. With its stunning looks, 4-side cooling pads and powerful cooling aided by double blower, this technological marvel will surely lure you to Touch it.



5 SYMPHONY LTD. TOUCH SERIES AIR COOLER

Brief in general:

Design a cooler which robust and sturdy in aesthetics, with fully closeable louvers, 4 side cooling pads for efficent cooling, that is eay to remove and clean. Also include ducting option for south american market.

Key roles undertaken:

Concept initiator and intial concept developer

I was part of the design assistance team for development.

Concept Sketches

Presentation

Overlooking the design recieved from the design consultancy

Assisted during Engineering development.







5 SYMPHONY LTD. TOUCH SERIES AIR COOLER



CONCEPT GENERATION

DUCT FASCIA DESIGN







Thank you for reviewing my portfolio!



RAHUL NAIR

INDUSTRIAL DESIGNER

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