NEERAJA BARADE SIVAJI

INDUSTRIAL DESIGN PORTFOLIO













NEERAJA BARADE SIVAJI INDUSTRIAL DESIGNER

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5 YEARS OF EXPERIENCE IN THE FIELD AND FAITHFULLY PURSUING DIETER RAMS' 10 COMMANDMENTS OF GOOD DESIGN, MY BIGGEST LEARNING HAS BEEN HOW BEST TO CRADLE A CONCEPT FROM PAPER THROUGH SOFTWARE INTO A LIVING, WORKING, TANGIBLE RESULT.

EDUCATION

POST GRADUATION
MA DESIGN 2013-2014
NORTHUMBRIA UNIVERSITY
NEWCASTLE UPON TYNE, UK

GRADUATION
GRADUATE DIPLOMA IN
INDUSTRIAL DESIGN 2008-2012
D. J. ACADEMY OF DESIGN, INDIA

EXPERIENCE

ARRIS INDIA PVT. LTD.
SENIOR INDUSTRIAL DESIGNER
DEC 2017 - FEB 2019

SIDEBYSIDE STUDIO INDUSTRIAL DESIGNER JAN 2017 - DEC 2017

DECATHLON SPORTS INDIA INDUSTRIAL DESIGNER MAY 2015 - DEC 2016

REZONANT DESIGNS

INDUSTRIAL DESIGNER JAN 2013 - SEPT 2013

TLV SOLUTIONS
INDUSTRIAL DESIGN INTERN
JAN 2012 - MAY 2012

SOFTWARE EXPERTISE

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RHINO
KEYSHOT
ILLUSTRATOR
PHOTOSHOP
INDESIGN
MICROSOFT WORD
POWERPOINT
ADOBE XD

SOLIDWORKS

EXPERIENCE HIGHLIGHTS

ARRIS - CONSUMER ELECTRONICS
DESIGN & DEVELOPMENT

Designed a range of smart consumer electronics such as sound bar, wi-fi extenders with Bluetooth speaker and compact IP TV settop-boxes. These devices combined consumer electronic functions with voice + visual assistance, and IoT capabilities.

DECATHLON SPORTS INDIA

New product range design & development for Decathlon's cricket brand, FLX. Upscaling the range for different price points through user research, benchmarking, trend analysis, stakeholder management & making design language guidelines.

STEM TOY

A bespoke coding toy made up of a set of modules, programmable through an app. Users learn to code these physical modules through the supporting app; the app is designed to be intuitive and capture the imagination of kids as the edgy design language connects the product and the app experience.

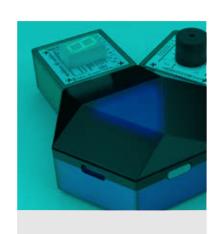
SKILL - SET

IT Accessory Design • Trend Analysis • Concept Sketching • CAD Modeling & Rendering • Prototyping • Design for Manufacturing • Attention To Detail • Time Management • Project Management • Liaising With Suppliers / Vendors • Multi tasking • Collaborating With Stakeholders • Organised • Team Oriented • Proactive









STEM TOY



DECATHLON



LIFESTYLE ACCESSORIES



SMART WATER HEATER



TOY DESIGN



CUP AND SAUCER DESIGN

ARRIS INDIA PVT. LTD.

Smart media devices - Sound bar



DESIGNED TO COMBINE WIFI DEVICES AND DE-CLUTTER
HOMES, THIS DEVICES IS A
MULTI-FUNCTIONAL SOUND
BAR THAT CHANGES THE WAY
ENTERTAINMENT AND HOME
SERVICES ARE DELIVERED WITH
VOICE-VISUAL ASSISTANCE, AND
IOT ENABLED SERVICES.





CONCEPT

Combining a cable zapper set-topbox with sound bar speakers in orders to integrate two of the most basic and important television experience ancillaries. The set-topbox is Android enabled for those seeking only OTT internet services in addition to bluetooth and wi-fi pairing for Google Assistance or Alexa.

The unit is designed to allow wall mounting as well as be placed on table top.









CONCEPT

The glossy central console of the sound bar houses the STB and speaker controls, operated through illuminated capacitive touch buttons and the speakers on either side are covered with speckled dark grey fabric that imparts a soft home interior appeal.



ARRIS INDIA PVT. LTD.

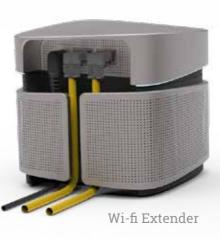
Smart media devices - Wi-fi extender/STB with modular smart speaker



WI-FI EXTENDER/SET TOP BOX
DESIGNED TO WORK ALONG
WITH A MODULAR BLUETOOTH
ENABLED SPEAKER TO
INTEGRATE VOICE ASSISTANCE
SERVICES SUCH AS GOOGLE OR
ALEXA









CONCEPT

The wavy contours of the unit with the offset base lends an elevated feel to the device and looks complete stand alone as well as when paired with the speaker.

The status LED glows through a downward facing lightpipe that runs along the edge of the bottom contour.



ARRIS INDIA PVT. LTD.

110x110mm Compact IP TV Set Top Box





CONCEPT

The compact sized IP TV set top box is designed to be wall mounted or mounted behind the television unit to reduce any clutter around the base of the TV.



CONCEPT

Due to its ultra small footprint, the device was designed with vents integrated as a part of its structural construction that is covered with fabric cladding. The fabric allows ventilation and doesn't make the product look like a conventional set-top-box.







STEM TOY

Programmable modules that teach coding



THE PROJECT CONSISTED

OF A PRE-DETERMINED SET

OF CODABLE MODULES.

THESE MODULES CAN BE

CATEGORISED AS INPUT AND

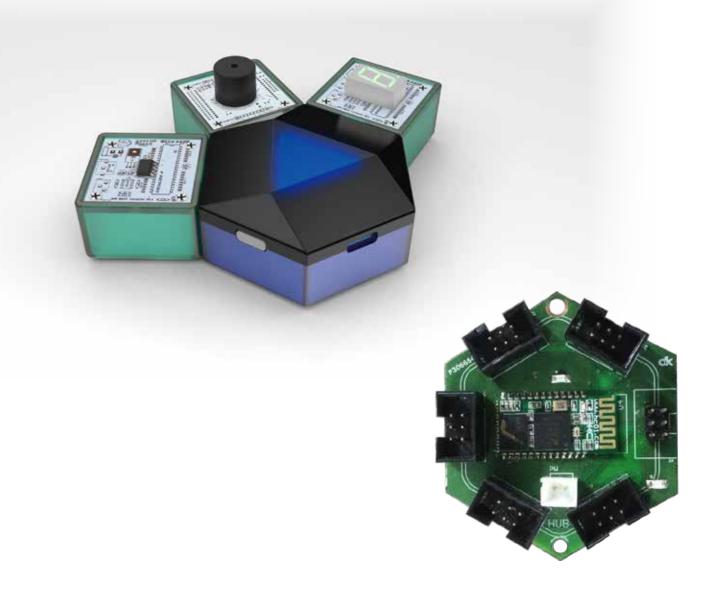
OUTPUT MODULES DEPENDING

ON THEIR FUNCTIONS. EX.,

LED, 7-SEGMENT, BUZZER,

POTENTIOMETER, SWITCH ETC..

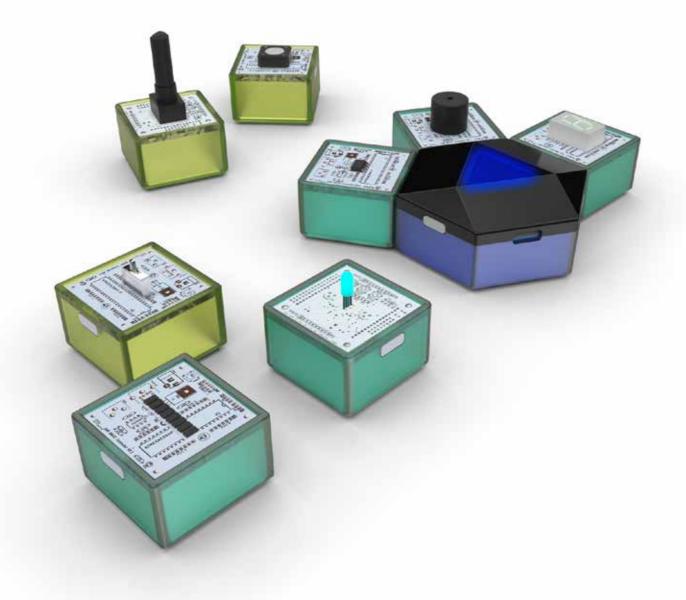
THESE MODULES WORK ALONG
WITH AN APP THAT ALLOWS THE
USER TO PAIR THE MODULES
WITH A CENTRAL PROCESSING
UNIT 'THE BRAIN' AND WITH
EACH OTHER TO CARRY OUT THE
INPUT AND OUTPUT FUNCTIONS.



CONCEPT

The product required the provision for multiple modules to be plugged to 'The Brain' simultaneously. This allows various combinations of input and output modules to be programmed with each other in order to execute the desired output.

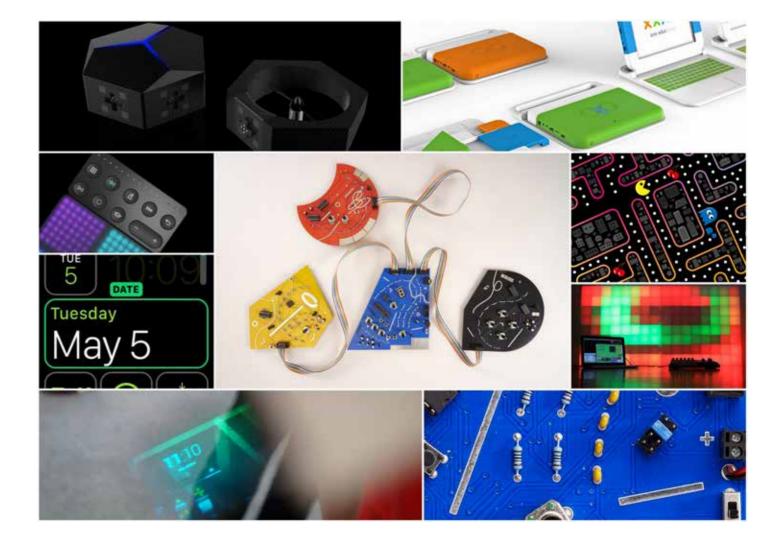
The Brain being a hexagonal form, allows a maximum of 5 + (1 battery) modules to be plugged in simultaneously. Each module is designed to have a naked appeal with single component mould.



APP CONCEPT

The modules can only be activated when programmed through the app. They are essentially inactive until the user codes them with the help of the app.

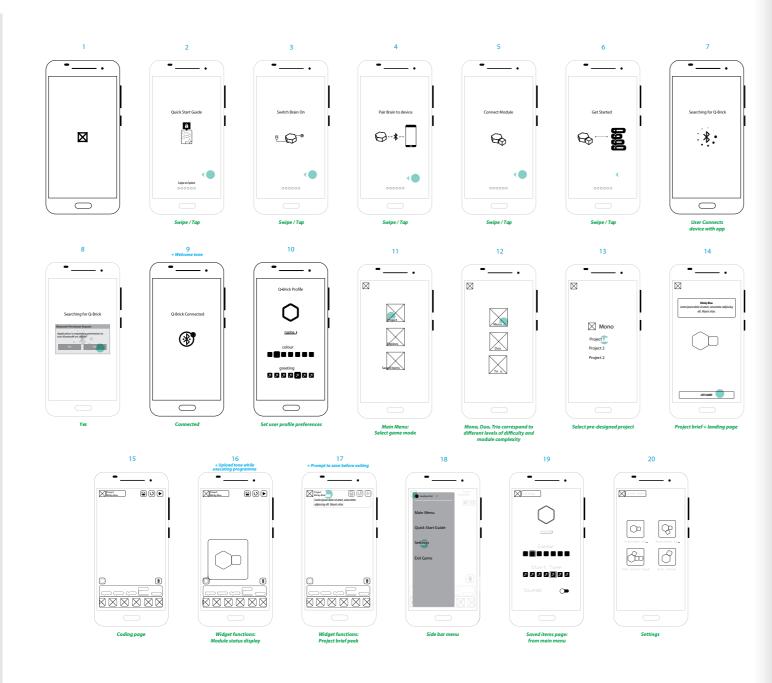
The app is designed to have a cybernetic experience with a holographic colour palate.



APP

Wireframes were generated by mapping user personas, key functions, task flow analysis and understanding the information hierarchy.

The UX direction resulted in a clean and simple layout that is adaptive to each active module there by making it more intuitive and easy to learn.

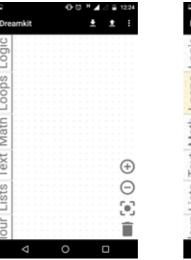


APP DESIGN

The interface is designed to deliver the primary functions in the easiest manner possible at every page. As the main objective of the product is to teach coding to beginners, it is important for the app to not intimidate a first-time user.

The coding page is a dynamic spread that adapts according to the connected modules. Any connected module will reflect a fixed number of functions pertaining to it and every function will reflect a fixed set of subfunctions.

The functions are drag and drop icons that can be linked to one-another to create an action.









DECATHLON

Brand development,
User Research,
Range design & upscaling
Trend and colour analysis,
Soft goods design - caps,
protectives, bags;
Apparel design,
Footwear Design
Visual merchandising,
Stakeholder management &
Vendor Management



RANGE DESIGN AND UPSCALING:

- 1.) DISCOVERY FOR KIDS AND/ OR BEGINNERS
- 2.) INTERMEDIATE FOR CASUAL CRICKETERS AND TRAINING
 3.) PROFESSIONAL FOR CRICKETERS WHO PRACTICE IN ACADEMIES AND PLAY

DISCOVERY RANGE

PROFESSIONALLY.

On the right here is the discovery range for kids. Silhouettes were designed keeping in mind colourful bats and apparels for the age group of 3-9. Bat graphics were meant to indicate the sweet-spot of a bat as an idea of initialising them to the world of cricket.









INTERMEDIATE RANGE

The intermediate cricket range connects the design language across apparels, tennis ball bats and footwear.

Apparel materials range from spun/woven cotton-polyester with elastane for flexibility, wicking properties and freedom of movement.

Flip-flops materials include highdensity foam, rubber and PU with screen printed graphics.

Screen printed vinyl stickers were created for the poplar wooden cricket bats.



PROFESSIONAL RANGE

The academy practice and professional cricket range brings together the design language across cricket whites, English willow bats and cricket protectives.

Apparel materials include, knitpolyester fabric and meshes. The polyesters used are of optimal GSM to keep the apparel light weight and the usage of mesh at areas that lend additional breathability.

Polycarbonate screen printed stickers with mirror and hologram effects offer users a premium, high performance appeal.

Rubber grips with dual textures to aide with different motions for top and bottom zones of the handles.



LIFESTYLE ACCESSORIES

Premium serveware range



TILT IS A LIFESTYLE ACCESSORY
BRAND BY THE FOLEY GROUP.
FOR THIS PROJECT, I DESIGNED A
RANGE OF PREMIUM SERVEWARE
FOR FOOD PRESENTATION AND
SERVING. THE PRODUCTS CAN
BE CONSIDERED AS 'SPECIALITY
SERVEWARE' AS THEY DISPLAY A
HIGHLY STYLIZED YET MINIMAL
VISUAL LANGUAGE.

INSPIRATION

The range was inspired from a purely organic mood-board that helped derive delicate forms from foliage patterns.



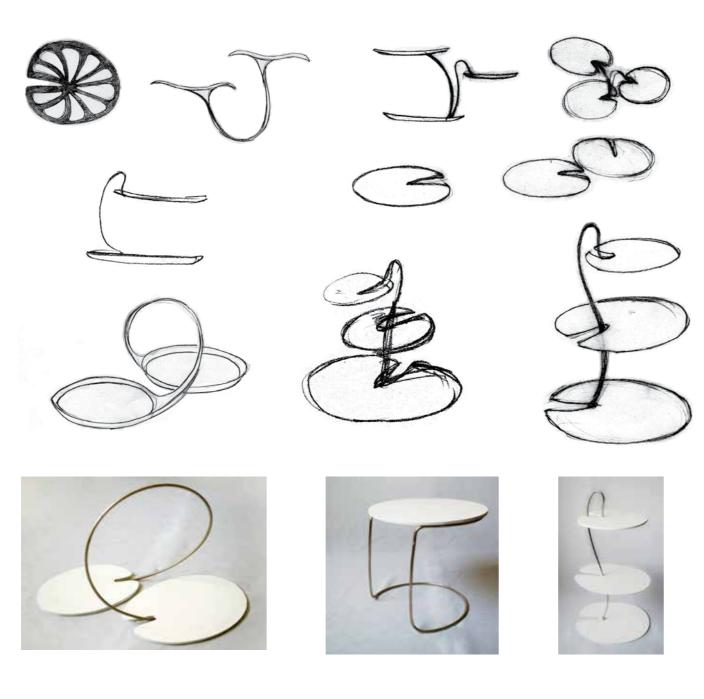






CONCEPTUALIZATION

The products were designed for the purpose of presenting and serving short eats, snacks, desserts and small finger foods. Forms were inspired from the lotus leaves as traditionally some cultures use them to serve food.



FINAL DESIGN

The final set of products was a range of serveware, serving desserts and pâtisserie. The materials used included stainless steel frames and walnut wood with a ceramic option for plating.













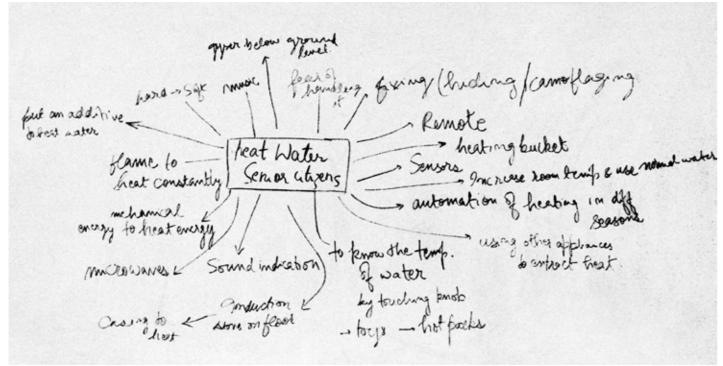


SMART WATER HEATER

Energy efficient water heating system using the *induction* method



WATER HEATING PRODUCTS
PRESENTLY RANGE FROM
STORAGE AND INSTANT WATER
HEATERS TO IMMERSION
HEATING RODS AND SOLAR
WATER HEATERS. HEATING
ELEMENTS CONSUME VERY
HIGH POWER AND MAY NOT
FUNCTION TO THE FULLEST
UNDER LOW VOLTAGE
SCENARIOS.





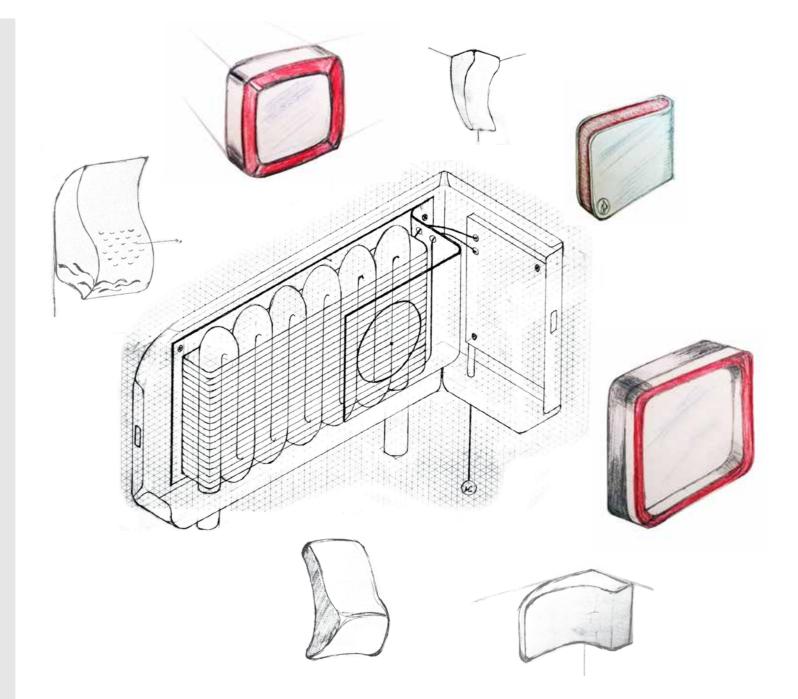






CONCEPTUALIZATION

The form of the product is minimal and intuitive from a functional aspect. The design had to integrate functions such as display and control to regulate the water heating system in real-time in addition to indicating the heating status and audio alerts for feedbacks.



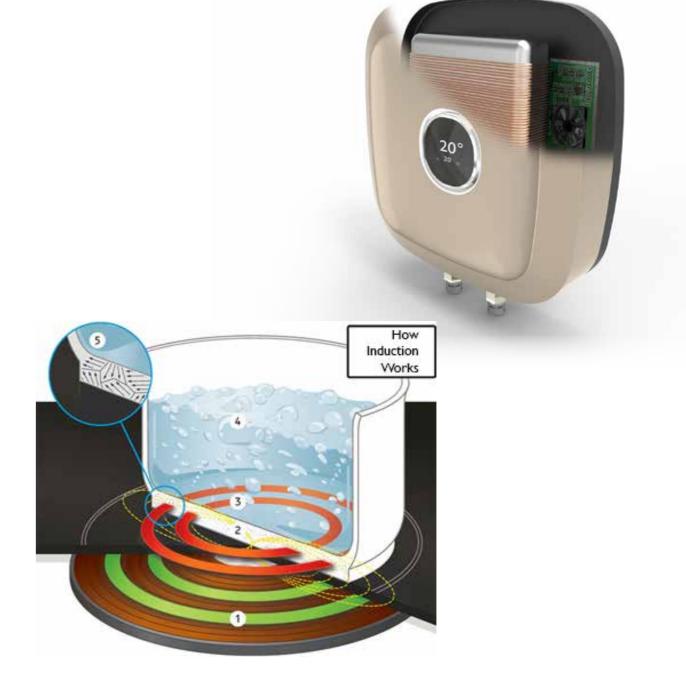
THE DESIGN

The design is a wall mounted product sporting a weather-sealed touch display. The heater detects the temperature of the in-flowing water and allows the user to set a required temperature. Once set, the product indicates the readiness for using hot water as the display glow shifts from blue to red. It also sends out auditory signal if the heater is on for a long duration when it senses no water movement.



THE WORKING

The heater works on the principle of an induction heating system. In induction cooking/heating, a high-frequency electromagnet (1) generates a strong electromagnetic field (3) and when a piece of magnetic metal (2 i.e. steel) is placed in this field, the field induces energy (5 i.e. heat) in the magnetic vessel/container. Heat from this vessel is transferred to its contents (4) that is used for cooking or heating as in case of the heater here.



TOY DESIGN

Toy design for Gween toys -Pretend play and stacking toy



GWEEN CREATES TOYS THAT INSPIRES CHILDREN ON 3 KEY PARAMETERS: EDUCATION, ENTERTAINMENT AND ECOFRIENDLINESS.

CHENNAPATNA CRAFTS

These toys are manufactured in the town of Chennapatna in Karnataka, India. Traditionally, the craft involves lacquering lathed wood of the *Wrightia tinctoria* tree locally called as *Aale mara* (ivorywood).

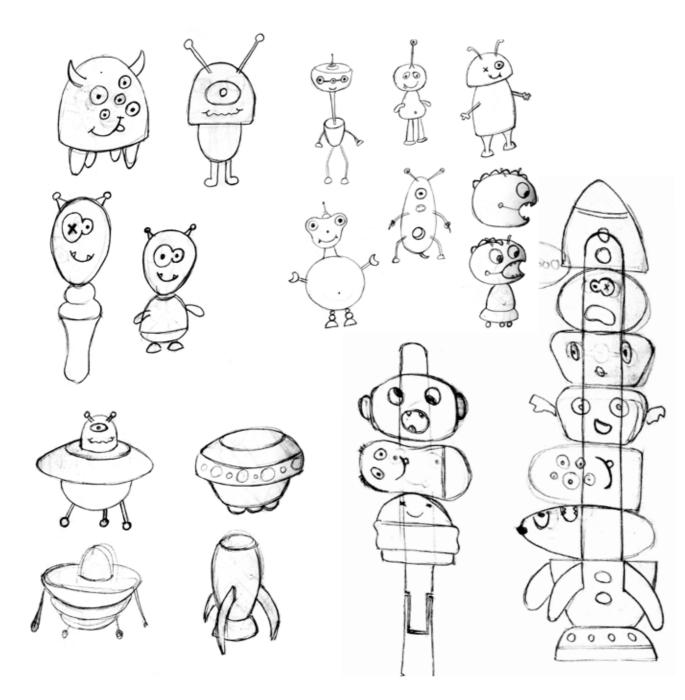






IDEATION

The story of the design is spun around a group of mythical characters who have travelled to Earth as they realise ours is the only planet that sustains life for plants and animals, provides water to drink and air to breathe for all living beings (Depicted on the insides of the packaging).



TESTING & ITERATIONS

The design had to go through multiple rounds of modelling & prototyping to have it pass through the ASTM International (American Society for Testing and Materials) standards that take into consideration permissible component sizes, drop tests to check risk of breakage and usage of child safe materials among other tests.













FINAL DESIGN

The final design is a stacking+counting toy for children aged 6-15 months. The toy predominantly aides in pretendplay while initiating the concept of counting. It also comes with a Flying Saucer ancillary that adds to the fun of pretend-play. The sizes of each of the characters are graspable and the forms help develop the motor skills and handeye coordination in children.



CUP AND SAUCER

A simple and smart cup and saucer design



THE DESIGN IS A SIMPLE
SOLUTION TO THE PROBLEM
OF HAVING TO DEAL WITH
A DRIPPING TEA BAG WHILE
CONSUMING DIP-TEA. THE
ACENTRIC RING CREATES A
BOUNDARY THAT PREVENTS
THE EXCESSIVE LIQUID DRIPPED
FROM THE TEA BAG FROM
COMING IN CONTACT WITH THE
BOTTOM OF THE CUP.



DESIGN

The double-walled cup design complements the saucer as it eliminates the need to having a handle.



