PARTH RAVAL

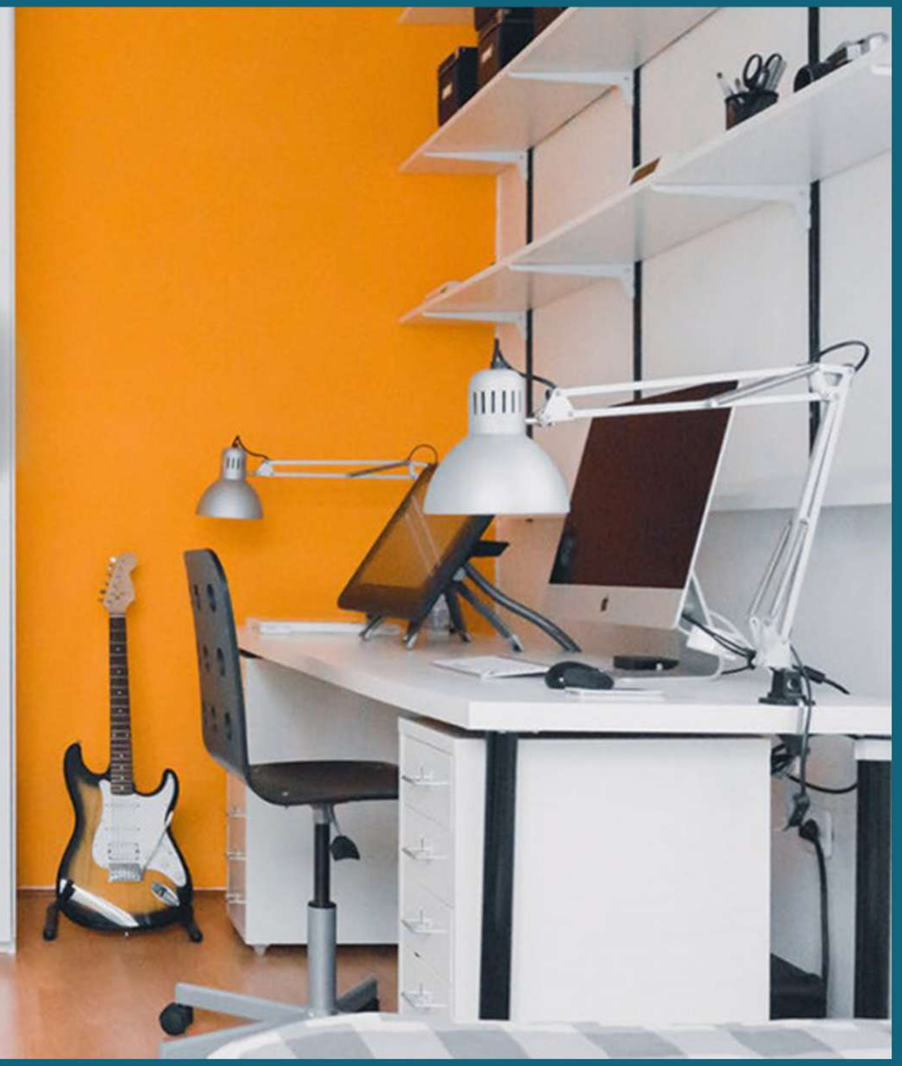
Academic Portfolio

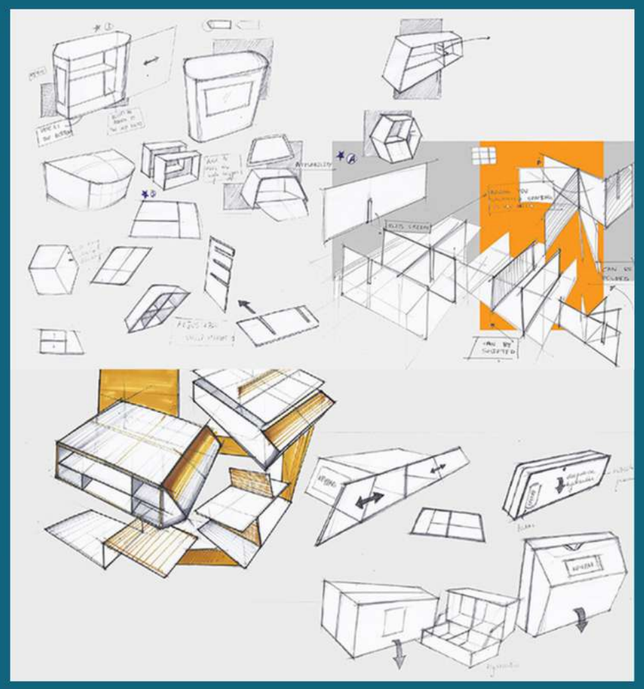
My projects

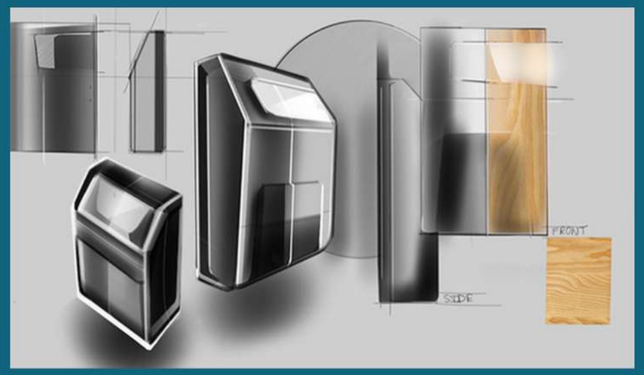
as a design practitioner

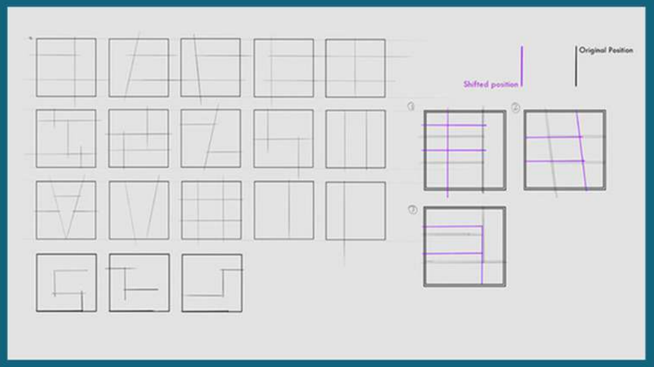
Guard-i

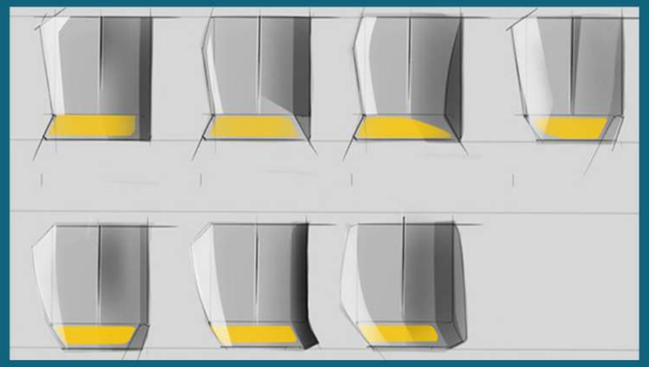
The mini locker

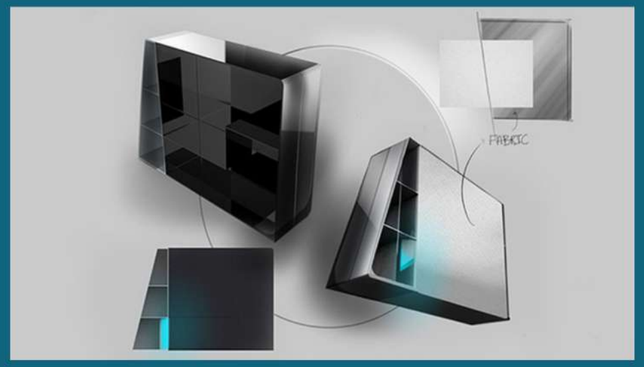












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RUNIC CLOCK

The Runic alphabet aged before the adoption of the Latin alphabet. Many Germanic languages evolve from the Runic times. The parent system for the Runic alphabet is Old Italic.

Here, the clock's design is inspired by the Runic alphabet. A form study on mahogany wood drives it. Mahogany wood gives a historic touch and a golden finish cherishes the classic ancient touch.

Finalist for GLOBAL SHAPL DESIGN CHALLENGE

Illustrious - The pen stand of leaders

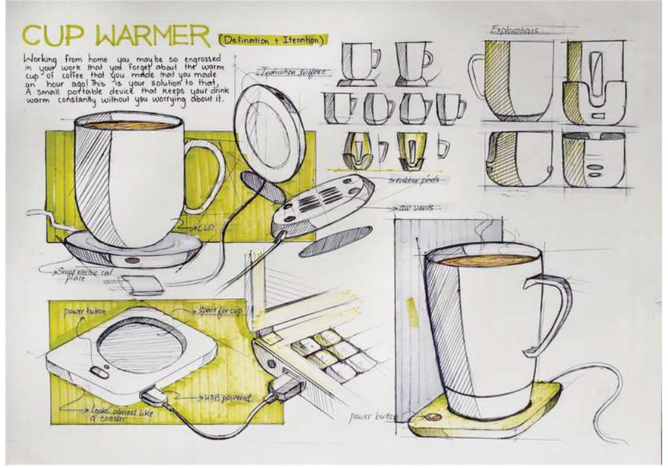
Finalist for

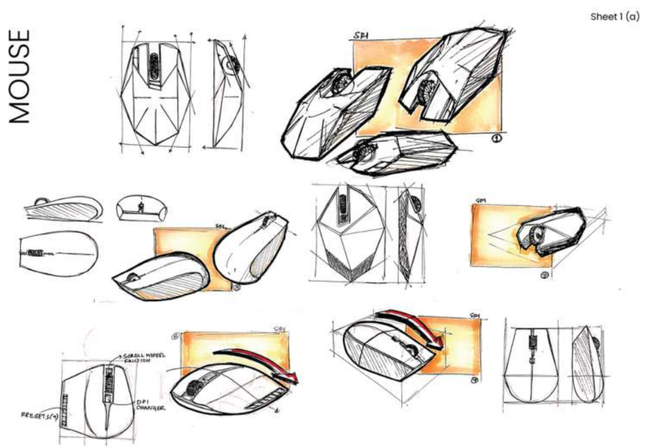
GLOBAL SHAPL DESIGN CHALLENGE (2nd Entry)

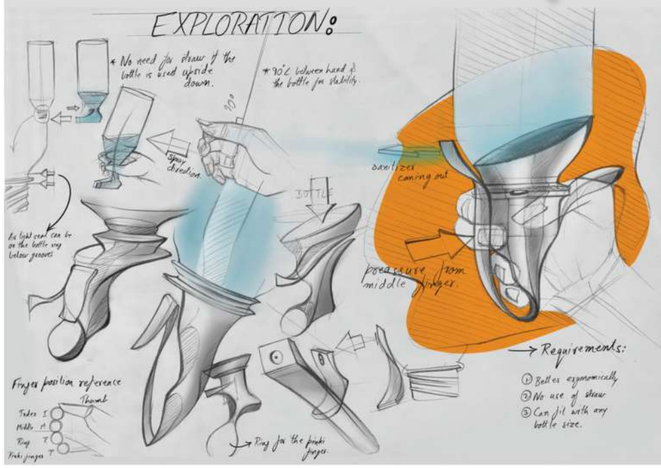
Skills

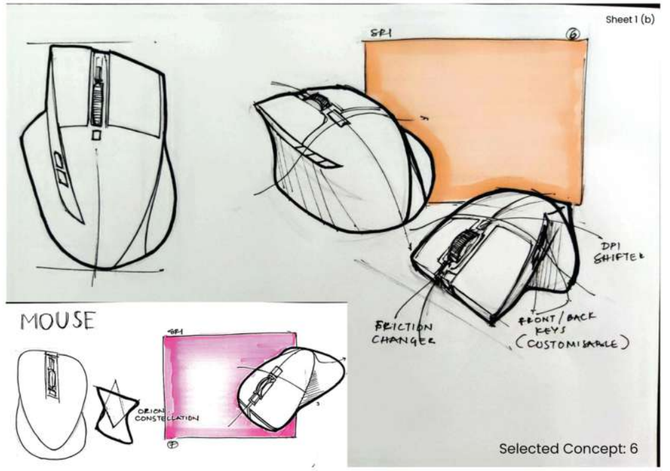
Highlighting My Academic Mentorship Journey

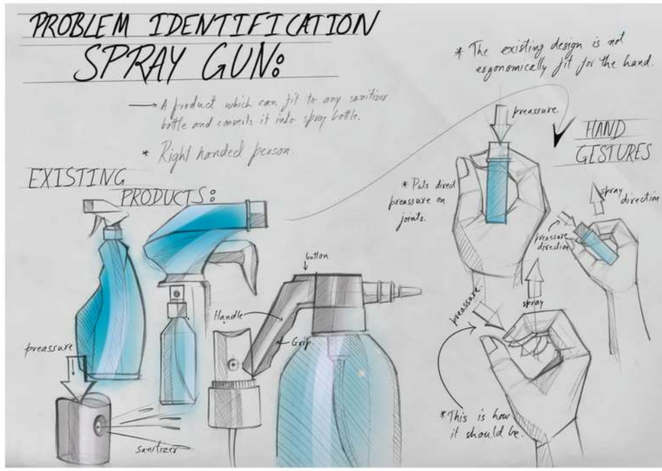
Sketching Practice

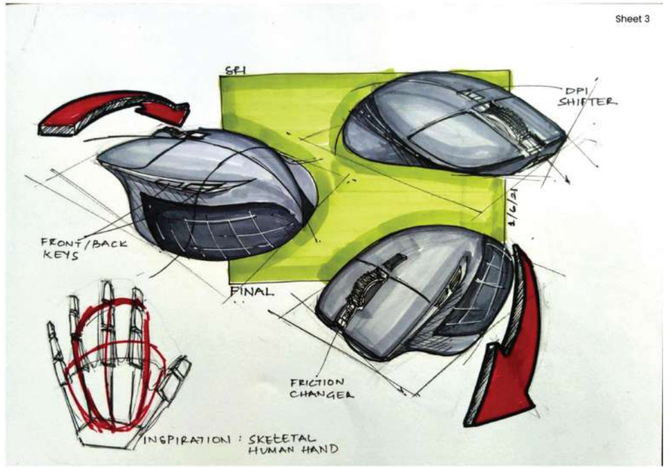


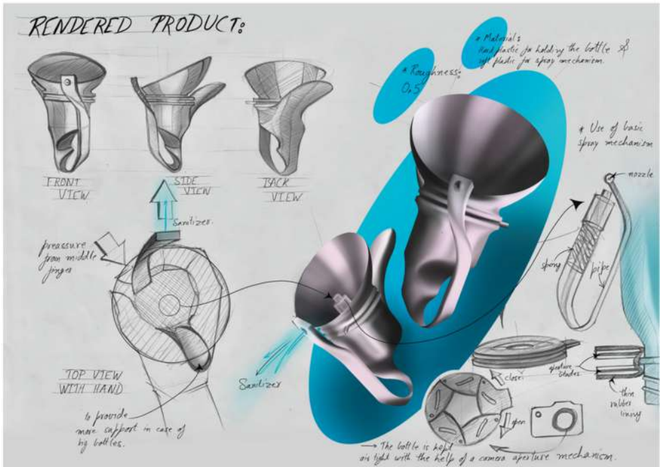




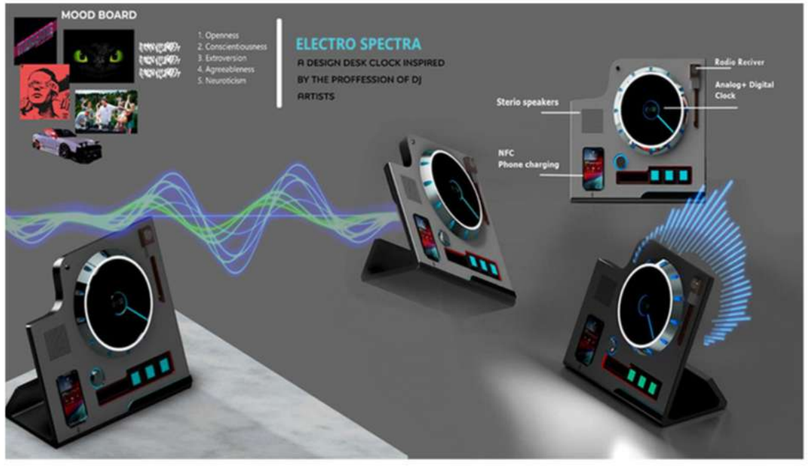


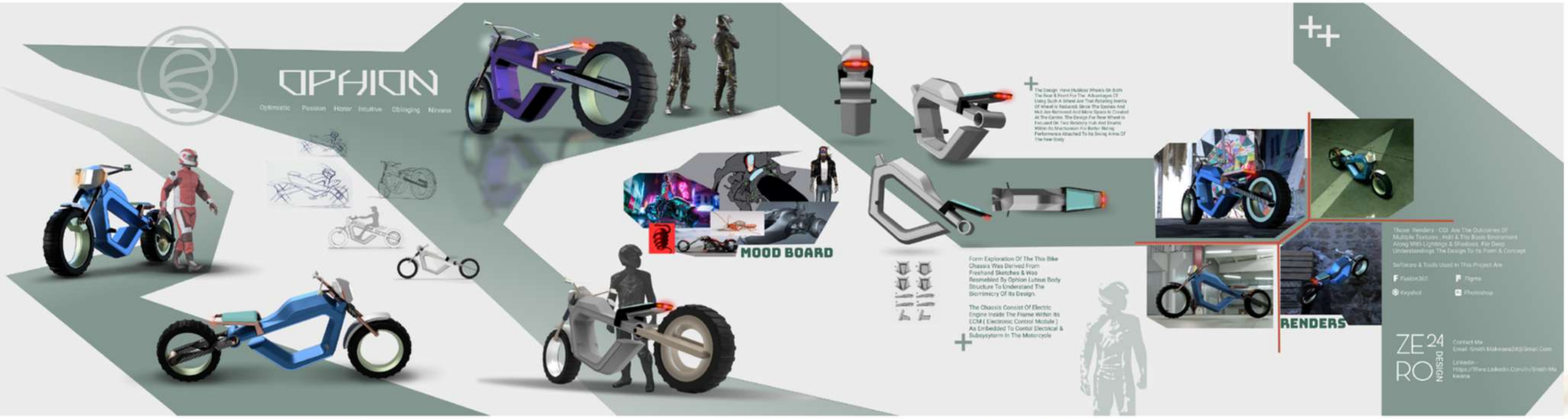




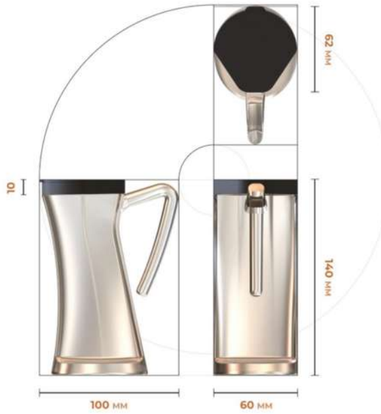


Rendering Practice

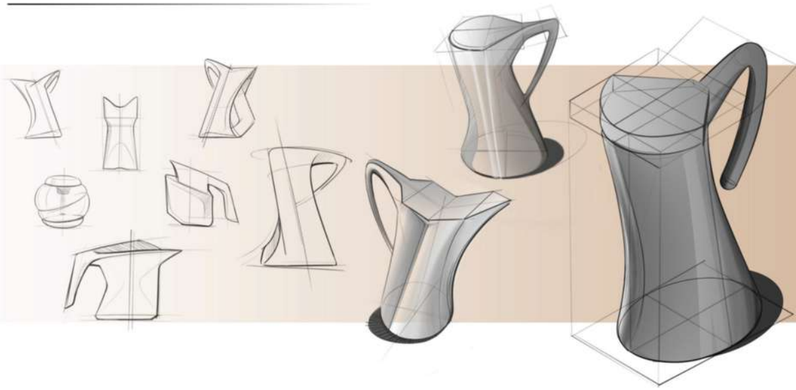




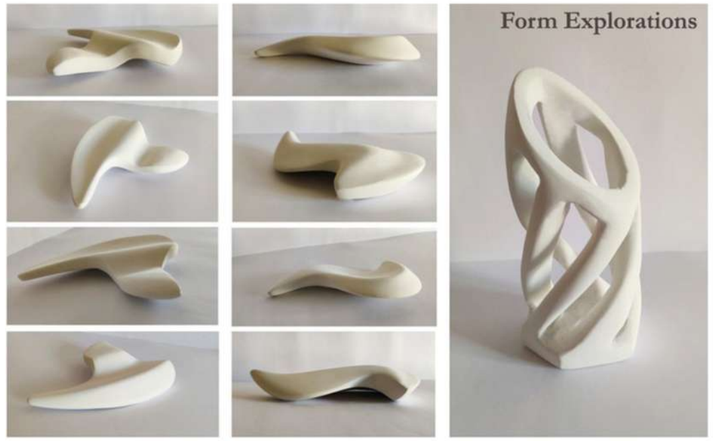
Product details

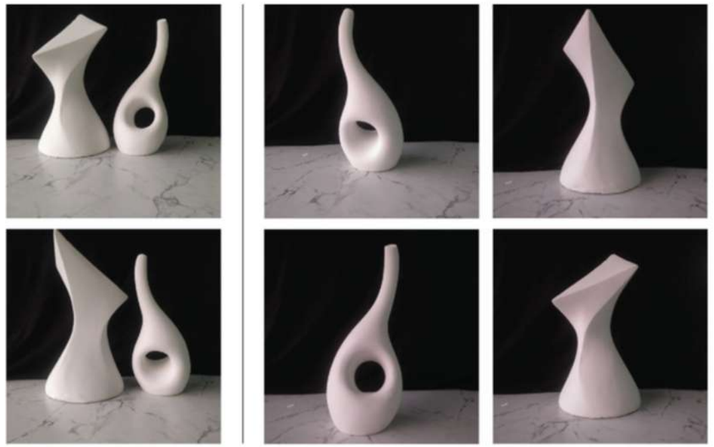


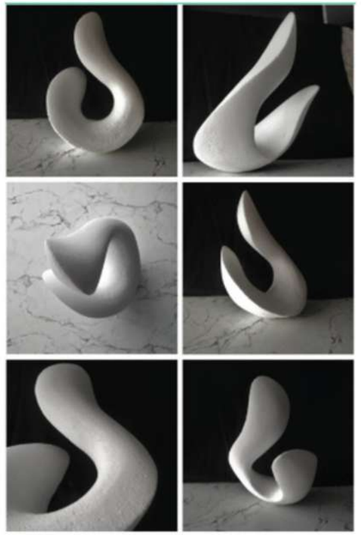
Form Iterations



Form practice





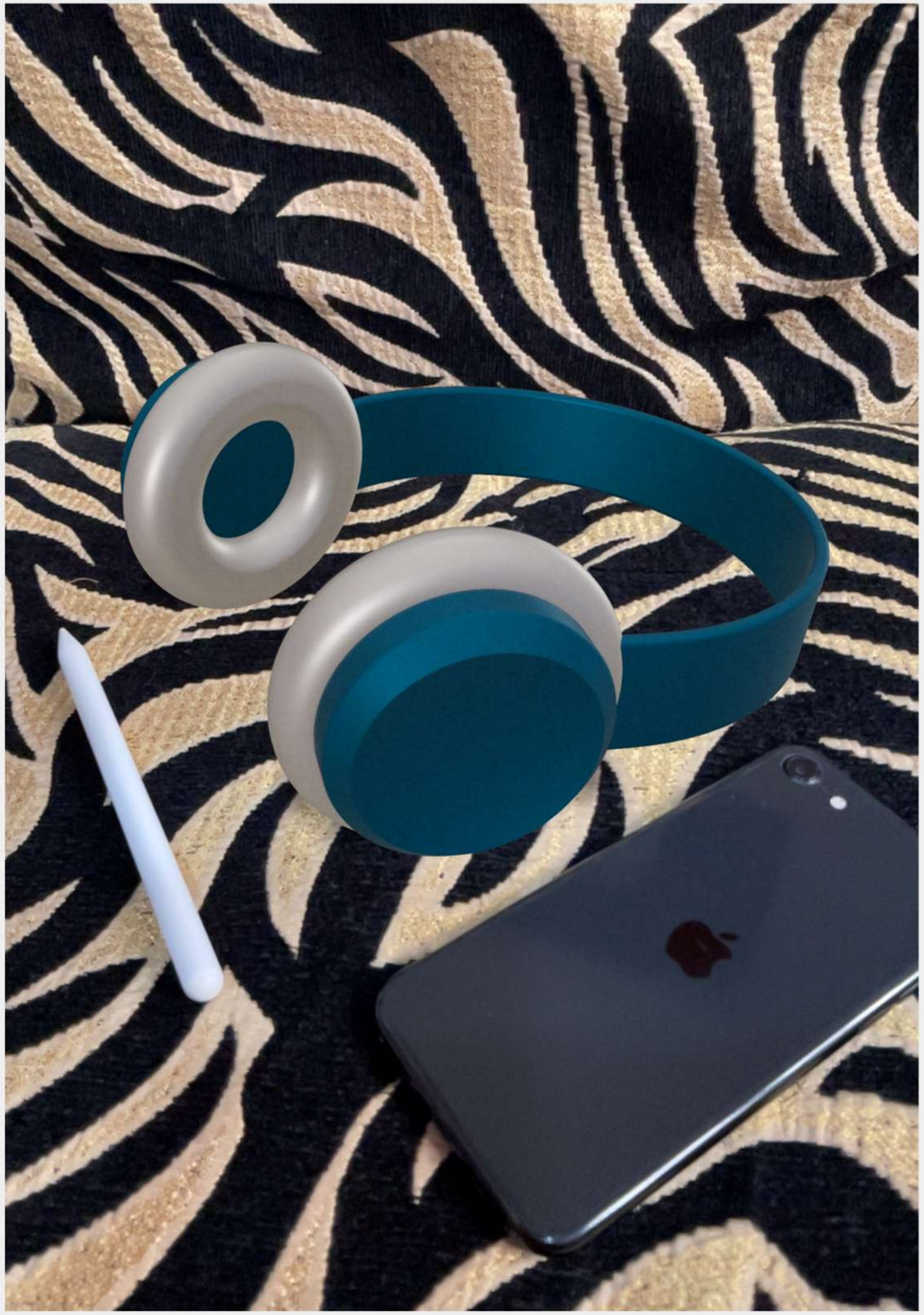


My Immersive Media Projects

Immersive Media Design

Attempt 1

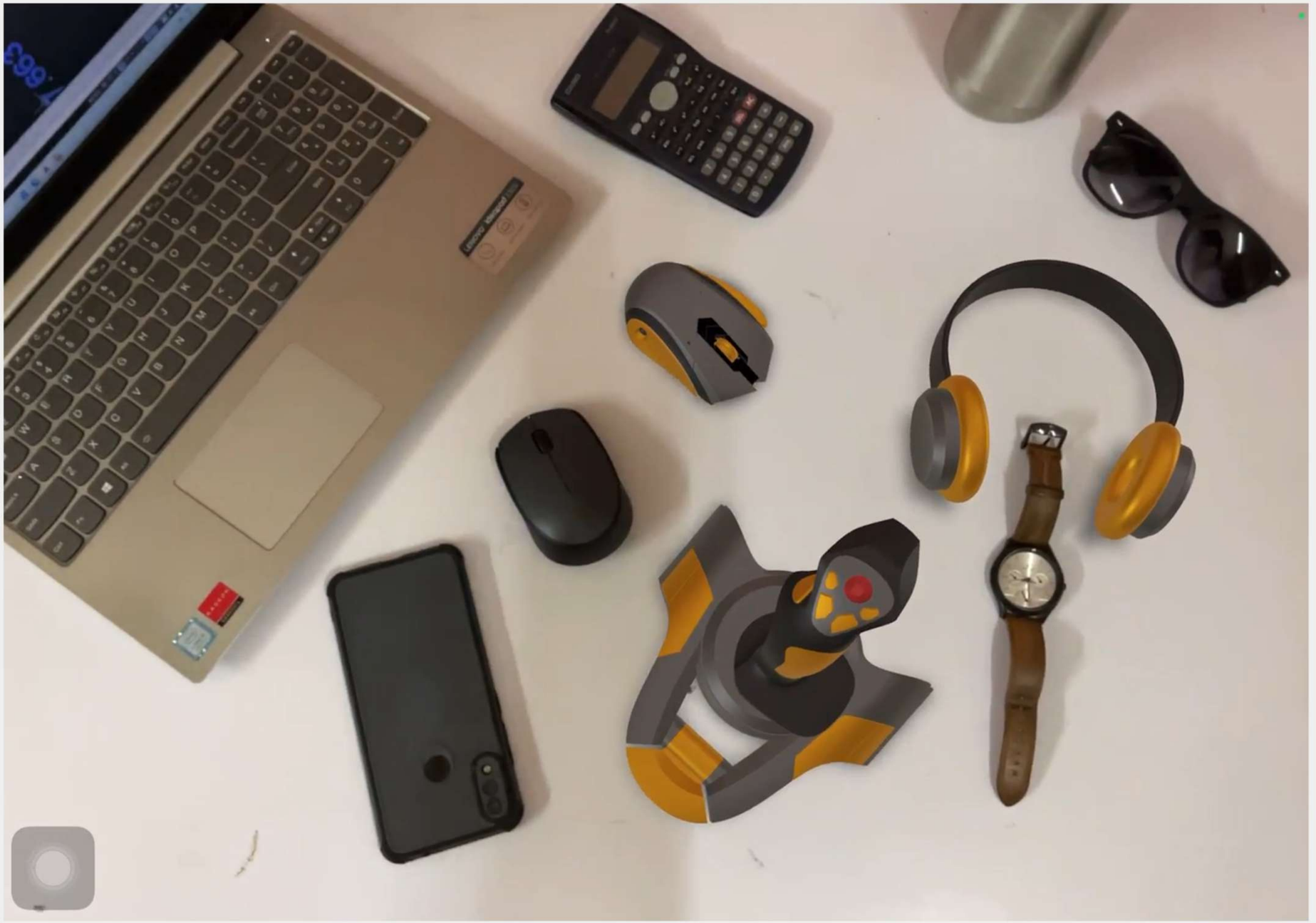
- **Merging** and **blending** with **actual environment**
- Headphone design for **form studies**
- Software used: **Shapr 3D** & **LiDAR**



Immersive Media Design

Attempt 2

- **Relative proportion** and **scaling accuracy**
- Software used: **Solidworks** & **LiDAR**



- **Orange mouse, headphone** and **gaming joystick** are **virtual elements**

Immersive Media Design

Attempt 3

- **Blending** with the outdoor environment and **realism with sunlight**

- Observation for **ray tracing** effect and **rendering quality**

- Software used: **Reality Capture** & **LiDAR**

- **Dustbin, bench and helmet** are **virtual elements.**

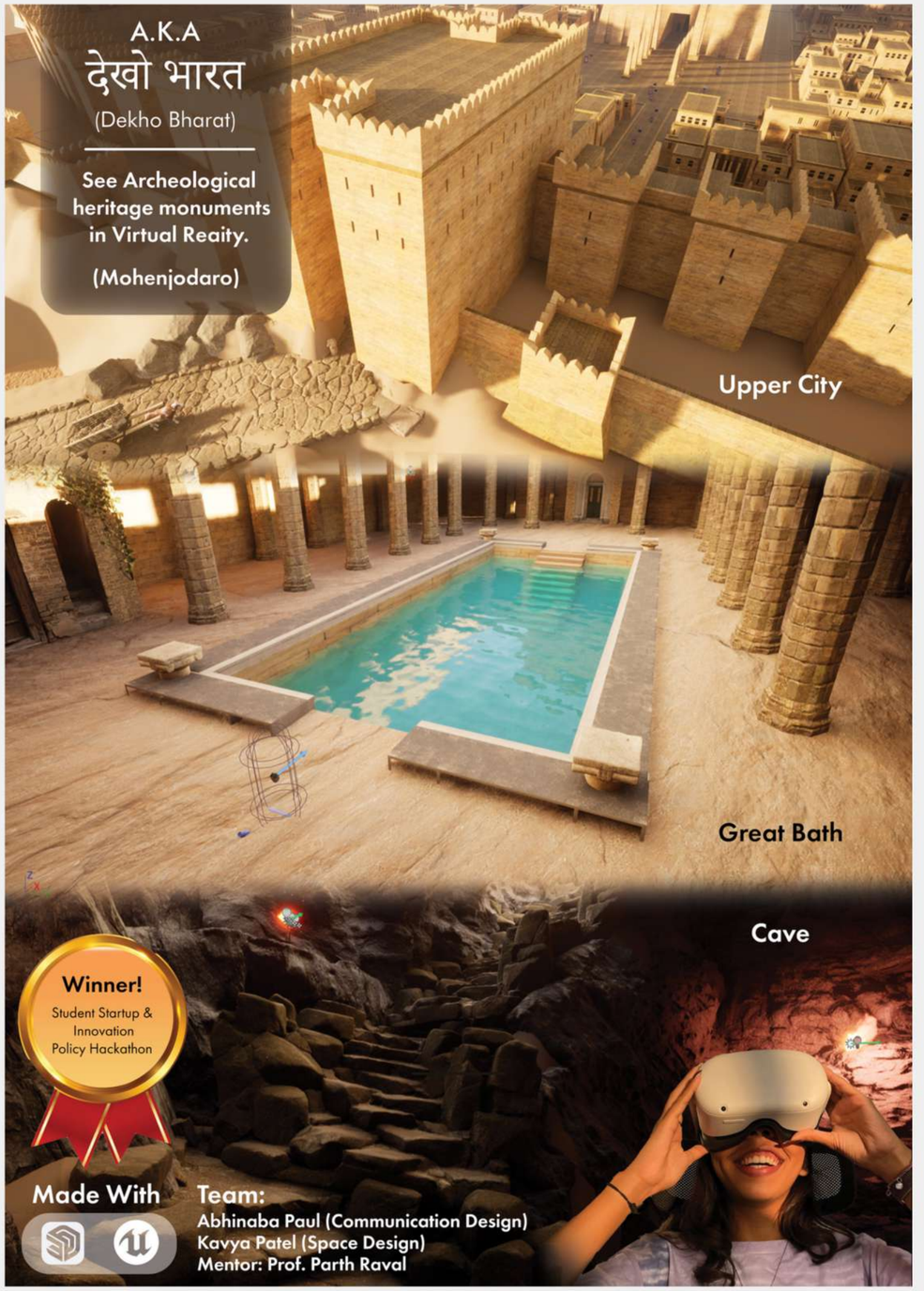
Immersive Media Design

Attempt 4

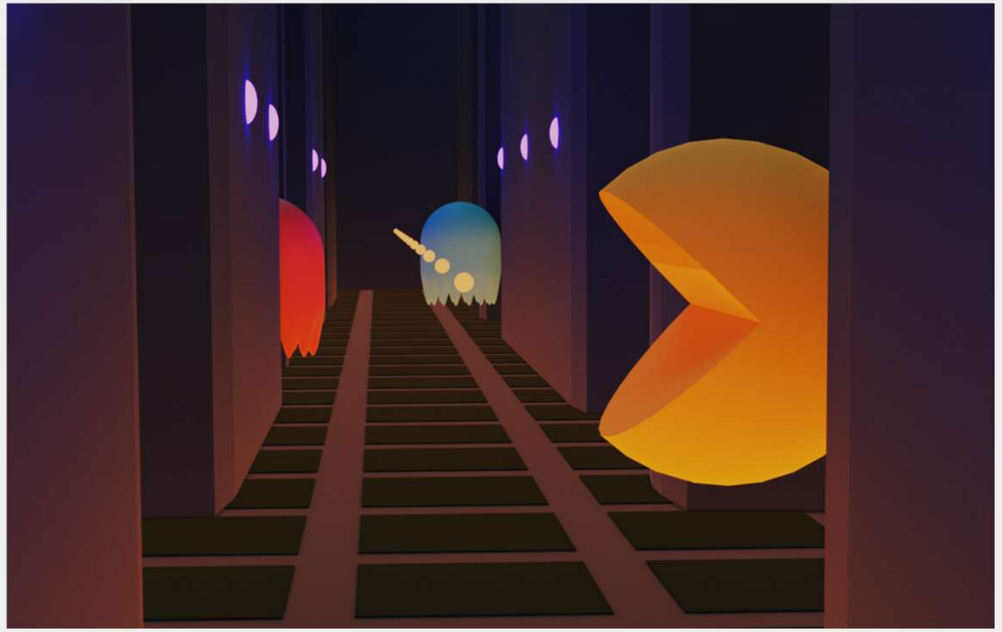
- Project "**Dekho Bharat**" simply means Explore India as it is named. This project **won the Student Start-up Innovation Policy Hackathon 2023**.

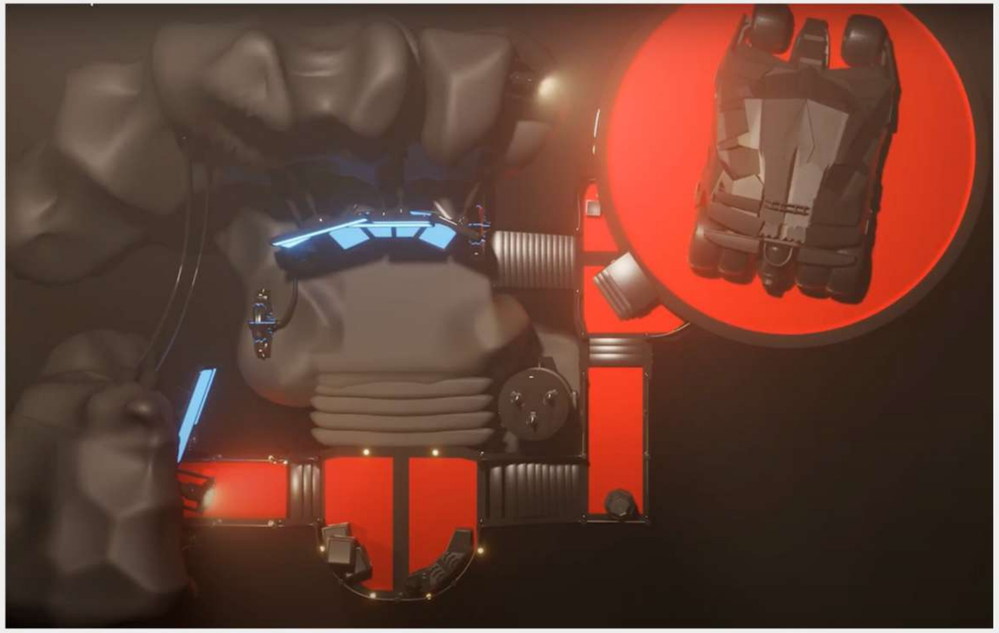
- Dekho Bharat is inspired by the heritage ambiance of the archeological monument **MOHENJODARO**. We tried to create a different experience of **Upper City, Great Bath and Cave** on the **Virtual reality** platform with **Oculus Quest 2 device**.

- Software used: **Sketchup** | **Unreal Engine**



Mentioned projects are accessible on Virtual Platform





Initiatives

Our team developed lab at

Anant National University

futureshift

ADVANCED PRODUCT DESIGN LAB

Our team developed lab at
Anant National University

Earthlink 23.72
Ai & Hypervisualisation Lab

Strategic Design Management skills

Strategic Design Management tools proficiency

Market Understanding

Market segmentation

Competitive analysis

Purchasing motivation matrix

Brand mapping

User Understanding

User Research

User profiling - personas

Delphi technique

Ethnography, shadowing

User/customer interviews

Product Definition

Root-cause analysis

Product mapping

Impact feasibility diagram

Ishikawa diagram

Brainstorming

Concept & Prototyping

Sketching ideations & physical prototyping

Iterations & optimisation

Morphological charts

Material selection

Project Management

Agile development

FMEA (Failure Modes and Effects Analysis)

Value Engineering

5D method

Organisation

Belbin's team roles

Who / When map

Project teams

Resource management

Recognition

ANANT NATIONAL UNIVERSITY
॥ पञ्चाशित्ते ज्ञानमयः प्रदीपः ॥
INDIA'S FIRST DESIGN UNIVERSITY

Authorization Letter

Date:19/4/2023

This is to certify that Parth Raval, Assistant Professor in the School of Design at Anant National University is the Faculty mentor for projects/PoCs for which IPR has been filed as per the below-mentioned details:

Sr. No.	Name of the Student(s)	Title of the Project	Application No	Type of IPR
1	1. Srishti Verma 2. Charmi Gajjar 3. Nirmal Malaviya 4. Saloni Shah 5. Smith Makwana	Sanu Genu- Knee cap for elderly	374923-001	Design Registration
2	1. Varshin Vala 2. Aliasgar Chunawala 3. Gauravi Ghonge	Domestic Desalination Product	368434-001	Design Registration
3	1. Aditya Pillai	Supernat-Self inflating the emergency raft	374919-002	Design Registration
4	1. Pouras Shinde	The Kettle Project	374920-001	Design Registration
5	1. Vishesh Kala	Thermopill	374922-001	Design Registration
6	1. Aakanksha Parakh	Pocket Peeler	Under Process	Design Registration
7	1. Prayag Patel	CTRL X	Under Process	Design Registration
8	1. Aliasgar Chunawala 2. Prince Agarwal	Electromagnetism Model	Under Process	Patent
9	1. Chandraneel Sen 2. Krisha Lal 3. Rishabh Vishwakarma	Fasal	Under Process	Design Registration & Copyright
10	1. Vignesh. AR.B	Ambidextrous sewing scissors for tailors	Under Process	Design Registration

Sanskardham Campus, Bopal-Ghuma Sanand Road,
Ahmedabad - 382115, Gujarat, India
Phone: +91 (02717) 718300 / 369 / 372 I IVR: +91 81402 13399
E-mail: info@anu.edu.in I Website: www.anu.edu.in

ANANT NATIONAL UNIVERSITY
॥ पञ्चाशित्ते ज्ञानमयः प्रदीपः ॥
INDIA'S FIRST DESIGN UNIVERSITY

11	1. Sakshi Khandelwal	A customizable paper puncher for art and craft purposes	Under Process	Design Registration
12	1. Abhinaba Paul 2. Kavya Patel	Dekho Bharat VR	Under Process	Copyright

Verified by the Head of Aarambh Incubation Centre

Date : 19th April'23

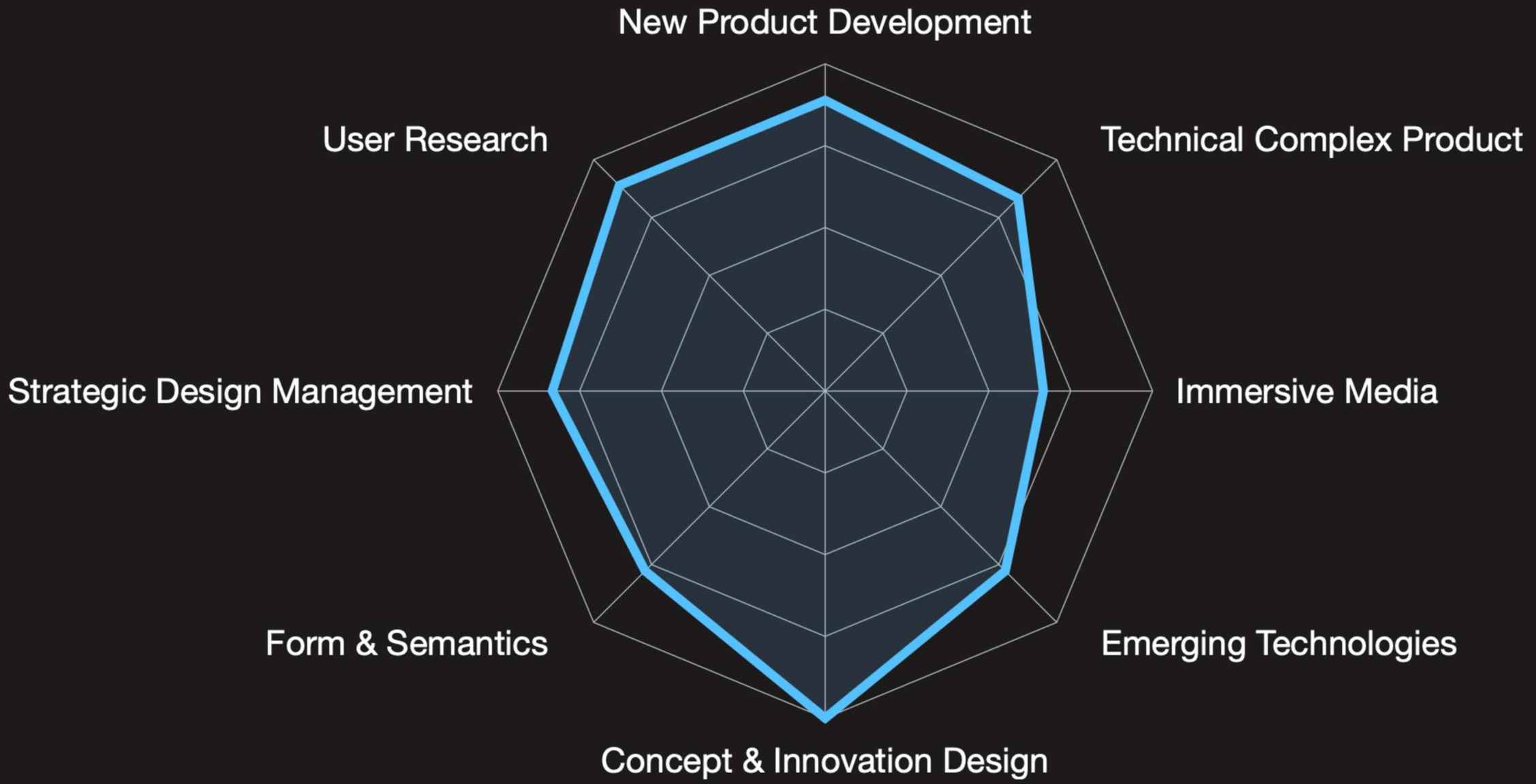
Signature: Dr Dhara Thakore

Provost

Dr Anunaya Chaubey

Sanskardham Campus, Bopal-Ghuma Sanand Road,
Ahmedabad - 382115, Gujarat, India
Phone: +91 (02717) 718300 / 369 / 372 I IVR: +91 81402 13399
E-mail: info@anu.edu.in I Website: www.anu.edu.in

Profile Spider chart



Certificates

ILLINOIS

COURSE CERTIFICATE

Aug 1, 2023

Parth Raval

has successfully completed

3D Printing Software

an online non-credit course authorized by University of Illinois at Urbana-Champaign and offered through Coursera

Jeffrey Smith
Education Manager
Autodesk

Verify at:
https://coursera.org/verify/7NWWNKTDGKWK
Coursera has confirmed the identity of this individual and their participation in the course.

ILLINOIS

COURSE CERTIFICATE

Jul 29, 2023

Parth Raval

has successfully completed

3D Printing Applications

an online non-credit course authorized by University of Illinois at Urbana-Champaign and offered through Coursera

Vishal Sachdev
Clinical Assistant Professor
Director - Illinois MakerLab
Gies College of Business

Verify at:
https://coursera.org/verify/MCB5E7RGBLZT
Coursera has confirmed the identity of this individual and their participation in the course.

ILLINOIS

COURSE CERTIFICATE

Jul 14, 2023

Parth Raval

has successfully completed

The 3D Printing Revolution

an online non-credit course authorized by University of Illinois at Urbana-Champaign and offered through Coursera

Aric Rindfleisch
John M. Jones Professor of Marketing
Head of the Department of Business Administration
College of Business
University of Illinois at Urbana-Champaign

Verify at:
https://coursera.org/verify/28ALBXXE5XER
Coursera has confirmed the identity of this individual and their participation in the course.

ILLINOIS

COURSE CERTIFICATE

Jul 22, 2023

Parth Raval

has successfully completed

3D Printing Hardware

an online non-credit course authorized by University of Illinois at Urbana-Champaign and offered through Coursera

Matthew Griffin
Director of Community, Ultimaker North America
Ultimaker USA, Inc

Alex Larson
Gies College of Business
University of Illinois

Verify at:
https://coursera.org/verify/RUPERCK97225
Coursera has confirmed the identity of this individual and their participation in the course.

VERIFIED
CERTIFICATE *of* ACHIEVEMENT

DelftX

Dr. ir. Annemiek van Boeijen
Assistant
Professor, Industrial Design - Design Aesthetics
Delft University of Technology - faculty of Industrial Design Engineering

This is to certify that

Parth Yagneshbhai Raval

successfully completed and received a passing grade in

DDA691x: Product Design: The Delft Design Approach

a course of study offered by DelftX, an online learning initiative of Delft University of Technology through edX.

edX VERIFIED CERTIFICATE
Issued July 22, 2017

VALID CERTIFICATE ID
50cb68ddc3514500bd0a46d37ba6f774

AUTODESK®
AUTOCAD® 2015

Certified Professional

In recognition of a commitment to professional excellence, this certifies that
RAVAL PARTH YAGNESHBHAI

has successfully completed the program requirements of

Autodesk Certified Professional:
AutoCAD® 2015

00401256

This number certifies that the recipient has successfully completed all program requirements.

AUTODESK.

January 26, 2015
Date

Carl Bass
President, Chief Executive Officer

AutoCAD®
2012

00400355

This number certifies that the recipient has successfully completed all program requirements.

In recognition of commitment to achieving professional excellence, this certifies that
RAVAL PARTH YAGNESHBHAI

has successfully completed the program requirements of

AutoCAD 2012 Certified Associate

Autodesk

January 24, 2015
Date

Carl Bass
President, Chief Executive Officer

SSIP
Azadi Ka Amrit Mahotsav
Education Department
Government of Gujarat
G20
Gujarat Knowledge Society

CERTIFICATE
OF WINNER

AZADI KA AMRIT MAHOTSAV HACKATHON - 2022

Student Start-up and Innovation Policy (SSIP)
&
Gujarat Knowledge Society

Congratulate hackathon team members

ABHINABA PAUL
KAVYA PATEL
PARTH YAGNESHBHAI RAVAL (MENTOR)

of

ANANT NATIONAL UNIVERSITY

For attempting to provide innovative solution for the challenge given by Toy Innovation Challenge and securing Second Prize In Grand Finale of Azadi Ka Amrit Mahotsav Hackathon - 2022 during 10th –11th February 2023

Shri. Tushar J. Raval
Additional CEO, GKS

Shri. K. S. Vasava, IAS
CEO,GKS & Director, Technical Education

THANK YOU

PARTH RAVAL

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