

Centaur Automotive

Internship project with co-designer Shreyas Dalvi at Centaur automotive

BRIEF

Come up with a design language for their new bike startup and also design a body for their pedal assisted e-bike prototype frame.

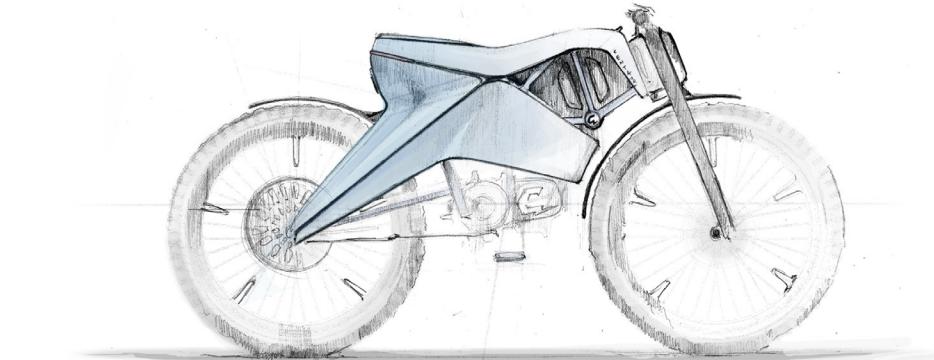


CLEAN BOLD MINIMAL

MY ROLE

Along with co-designer, understand what the startup team is looking for in the design language and understand the trends of their target user. Decide the mood & inspiration board accordingly.

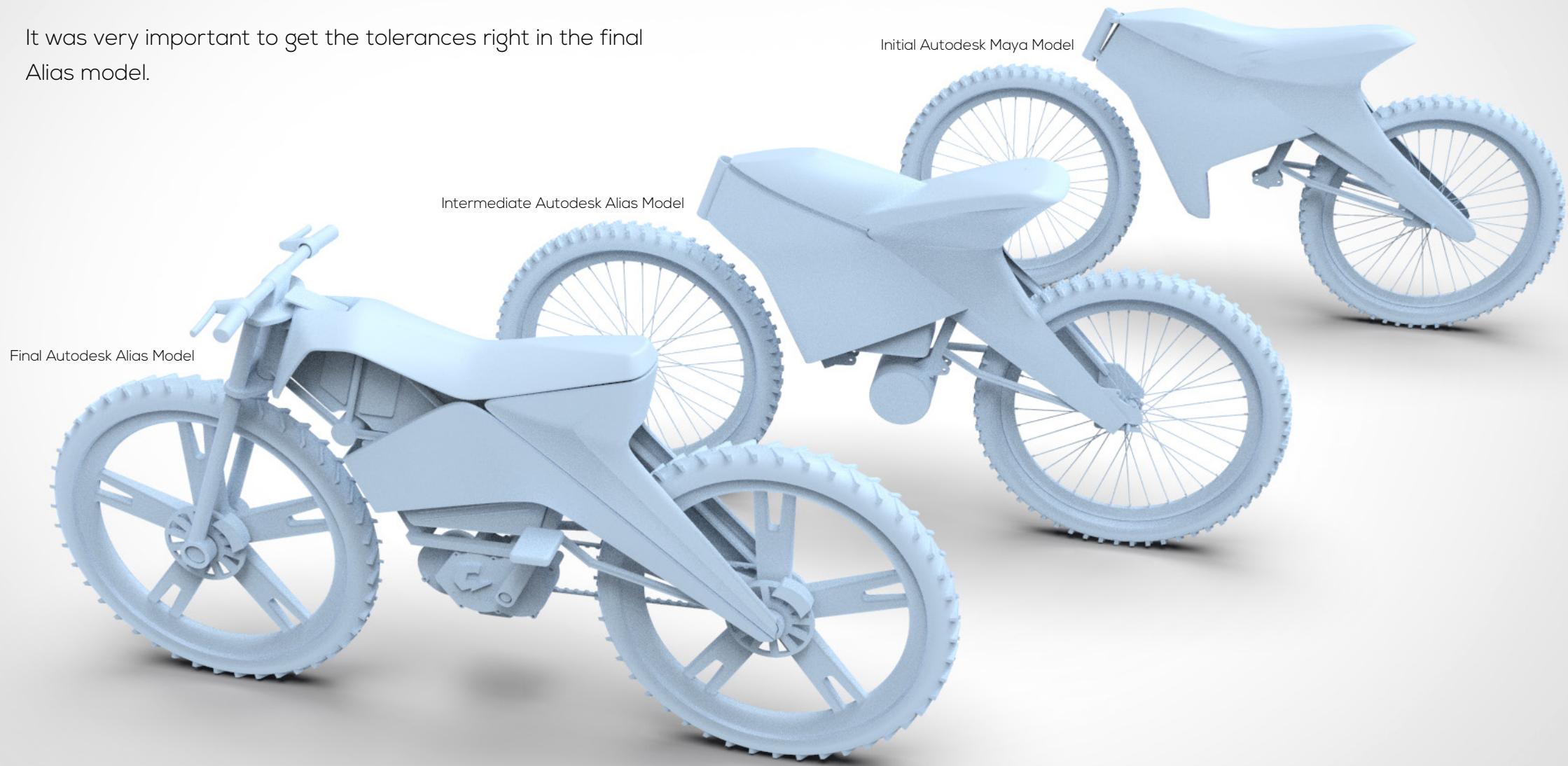
3D Modeling & Prototyping was completely my responsibility.



Sketch by co-designer Shreyas Dalvi

Since we had to design around a given frame and make 1/5 scale mockup of the design at the end of the project.

It was very important to get the tolerances right in the final Alias model.



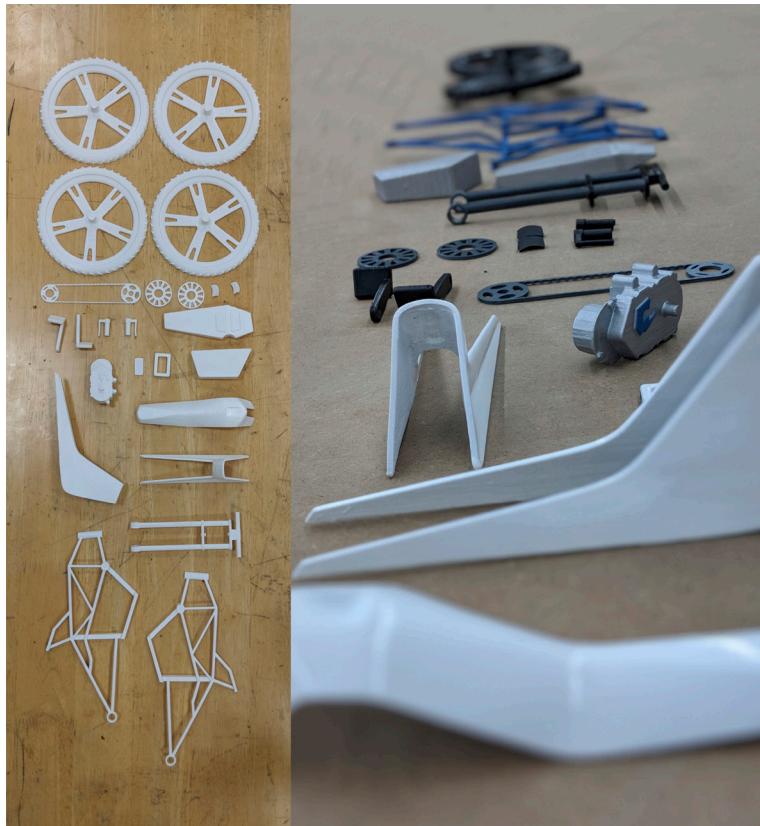
3D Printed 1/5 scale mockup

24 Parts.

Slicing software: Simplify3D

Material: PLA

3D Printer: Wanhao duplicator



Mahindra Command Center Truck

Team project given by **Mahindra** - Year 3
Rise.

BRIEF

To design a command center truck for Mahindra Adventure expedition event crew for 2025.

MY ROLE

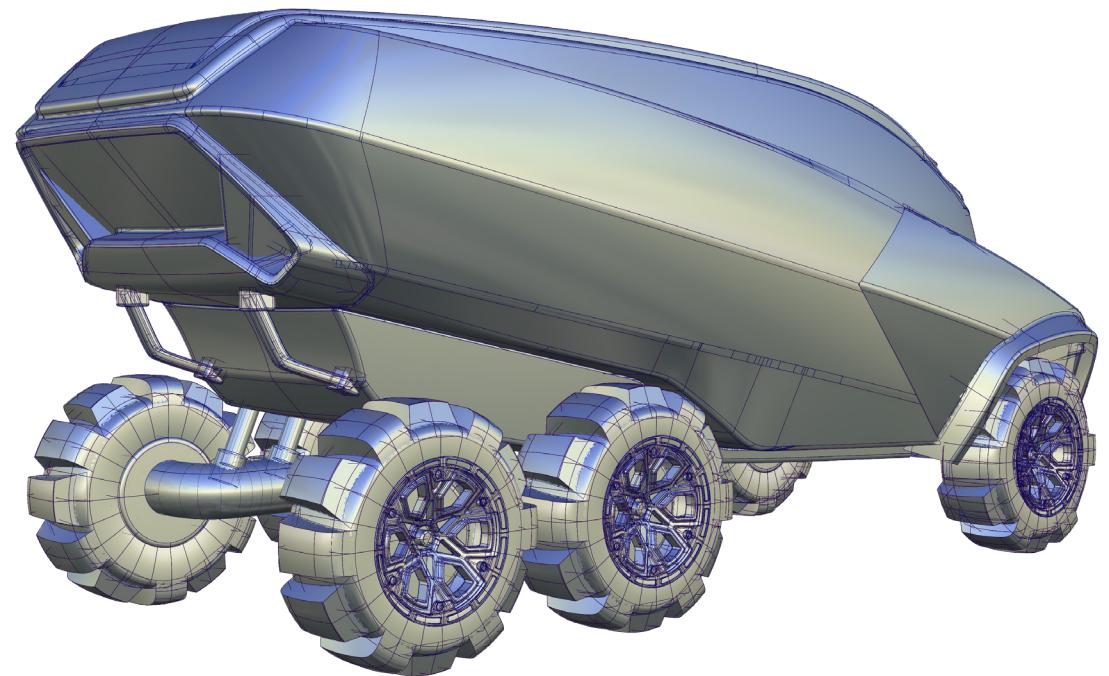
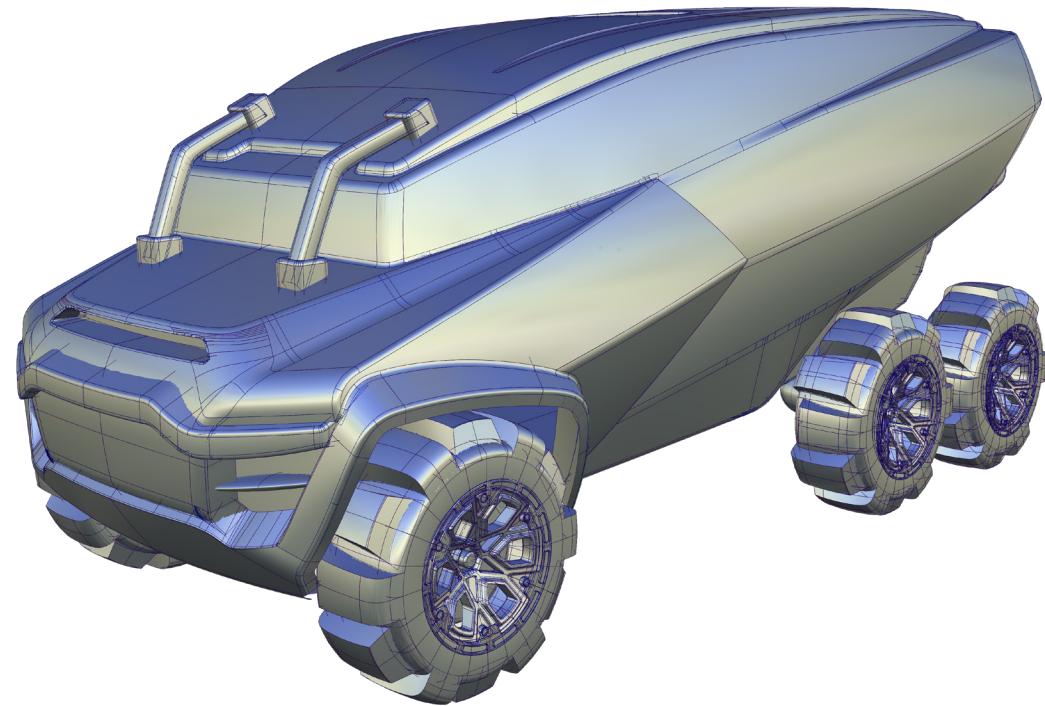
I was supporting the team initially in research and analysis phase for brainstorming ideas and framing the brief.

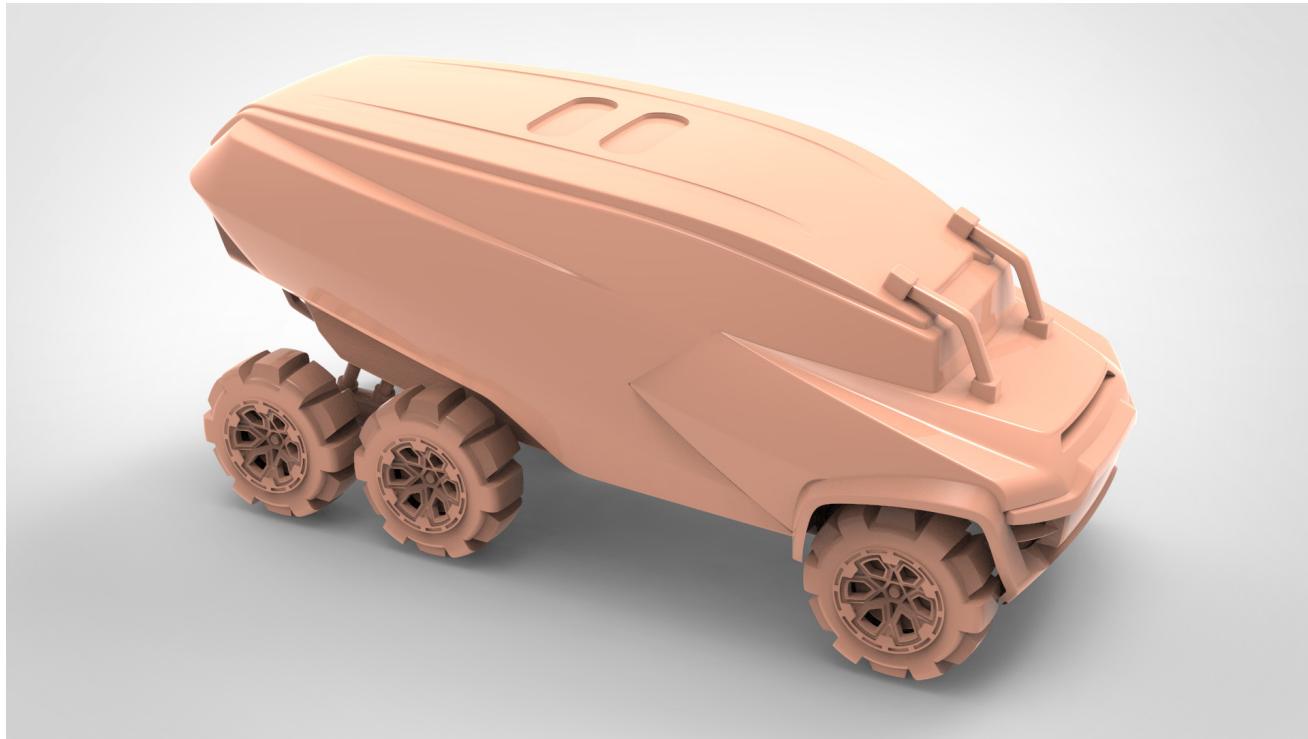
Later while they were working on the sketches, renders and clay model.

I was supporting them with digital 3d models in every step.

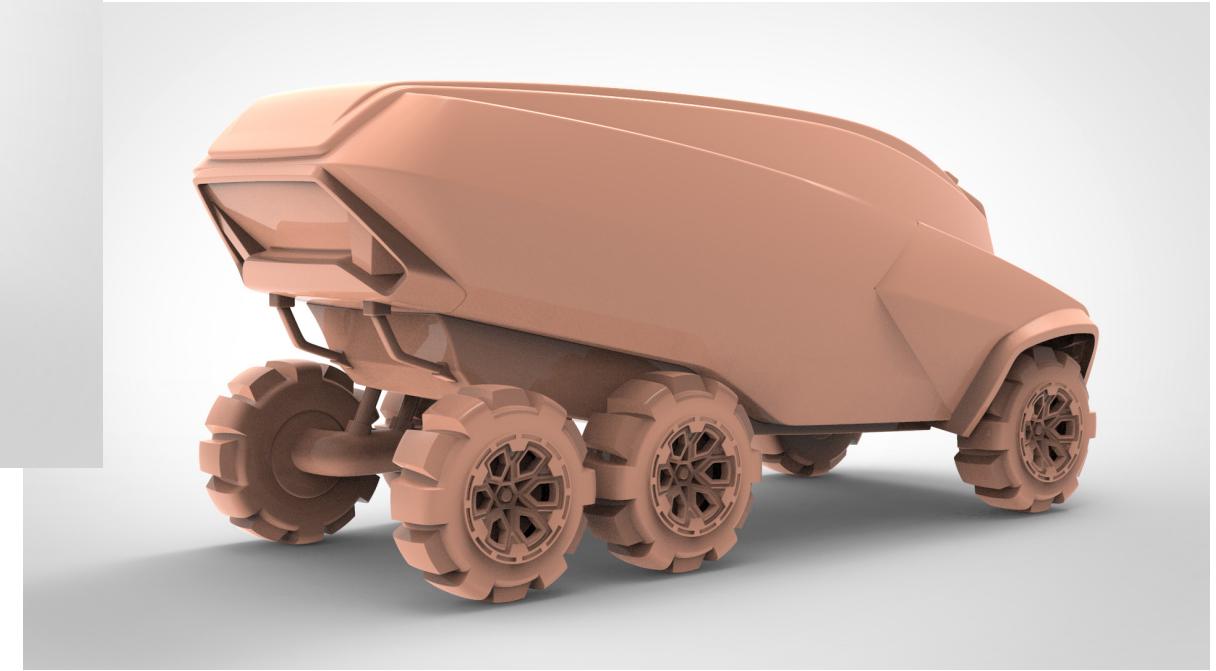


The initial form models were modeled with Autodesk Maya. I used those initial polygonal models as reference for modeling the final design in Autodesk Alias.





Rendered with Luxion Keyshot.



Citroen DS9 Concept Rim

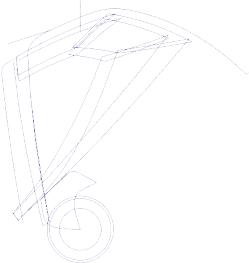
Class assignment - Year 3

BRIEF

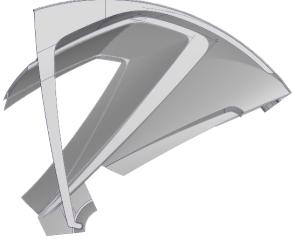
Model a rim of your choice in Autodesk Alias in a week.

I chose Citroen DS9 concept rim because I felt this was challenging to model and henceforth I would learn the most out of this assignment. I dedicated approx. 3 hours every day.

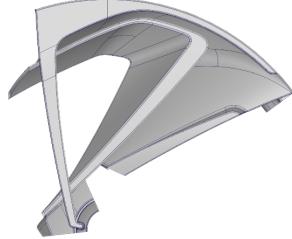
Rendered with Luxion Keyshot.



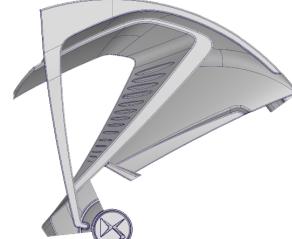
Curve
network



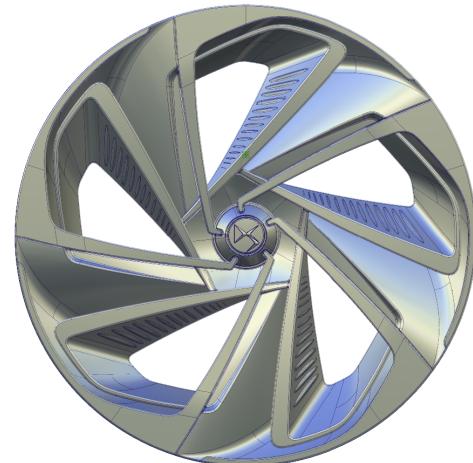
Intersection
model



Surfaces with
primary filets



Final details
& logo





Interior Vray Render

Class assignment - Year 3

BRIEF

Setup the lighting, texture map and assign material in 5 hours with Vray.



Maya Modeling Vray Render

Personal Project - Year 3

BRIEF

Model an interior in Autodesk Maya and explore Vray stereography.

Latlong



Cubemap



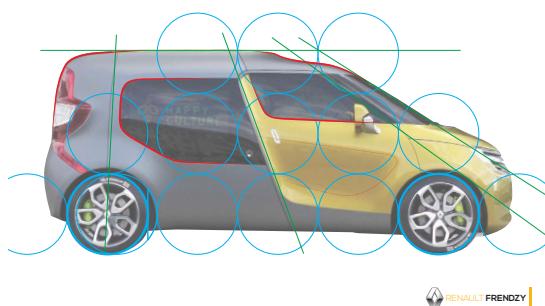
Renault Urban Pickup

Transport design project - Individual - Year 2

BRIEF

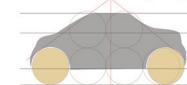
Design a new segment vehicle for the Renault brand by understanding and reflecting the design philosophy of Renault Frendzy Concept car.

Proportional Analysis



Aim

To design a smart & versatile
'Urban Pickup'.
To solve the purpose of seating
people and carrying cargo.



Aesthetics Moodboard



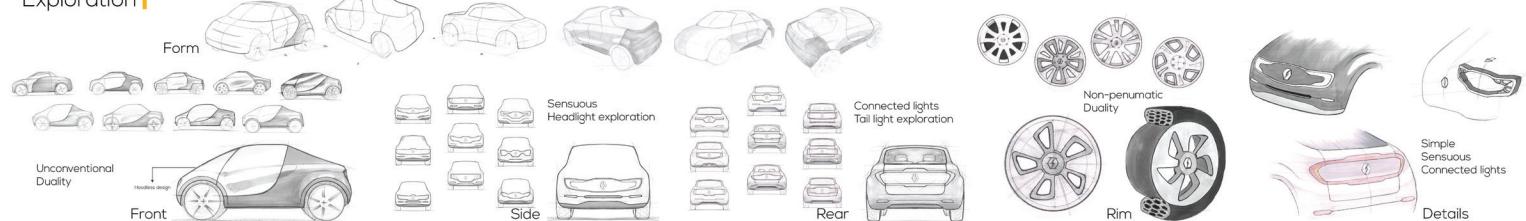
Design Moodboard



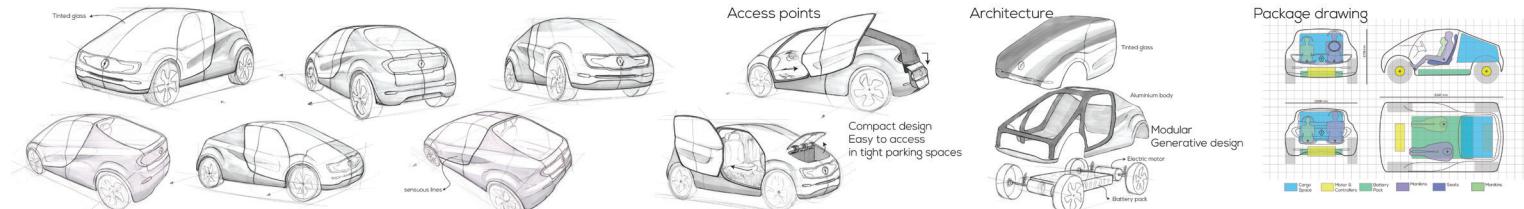
Purpose of the co



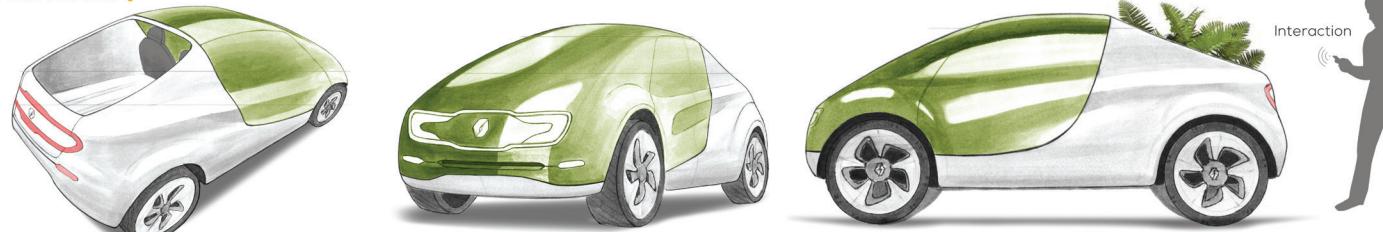
Exploration



Development |



Final Render |



Washing Tool Hand Powered

Autodesk Fusion 360 - Hand tool design competition - Year 2

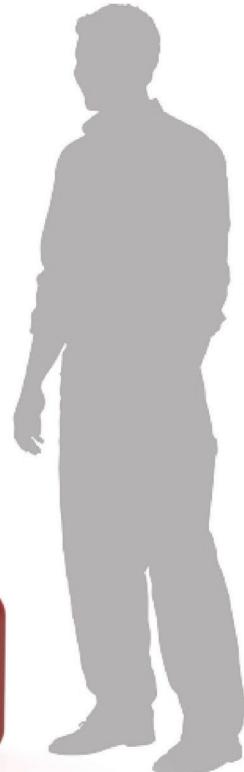
BRIEF

Design a hand powered tool to wash cloths.

Simple design with minimal parts, making it extremely affordable.

The ultimate solution to wash cloths for a bachelors or a student like myself.

Winner, Autodesk Fusion 360 hand tool design competition



FUSS - Farm Utility Support System

Personal Project - Year 2

BRIEF

Design an efficient farm support system using the future technologies.

FUSS is an Artificially Intelligent Service System which provides efficient farm support to the user and eradicates the burden of huge investment needed for farming.

The idea is to have a sharing service of autonomous farm equipments having modular architecture.



The two module design makes it extremely easy for maintaining the parts since the TOPPINGS are collected from the BASE when it enters the warehouse and stacked separately and the TOPPINGS are fitted on the BASE as it leaves the warehouse.



Natural Air Purifier

Product design for 3D printing - Personal project - Year 3

BRIEF

Design an open source natural air purifier.

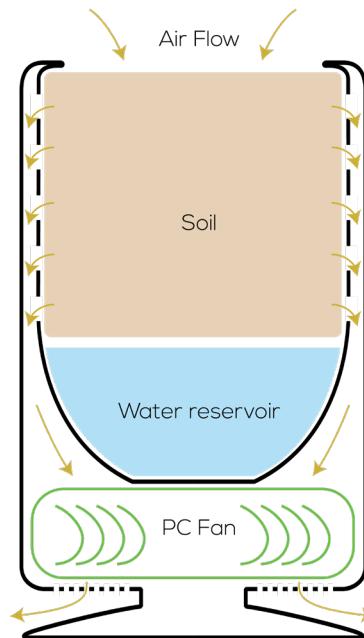
THE IDEA

Few plants like peace lilly(*Spathiphyllum*) remove pollutants in air through thier roots.

Using a commonly available PC fan to create a low pressure area inside the pot, we can significantly increase the air purification rate.

Since the air filter is the plant itself, it never needs to be replaced.

Planned to upload the stl file on www.thingivers.com, so any one can print it for themselves for free, but realised the idea was not a viable solution.



Thanks for watching.