



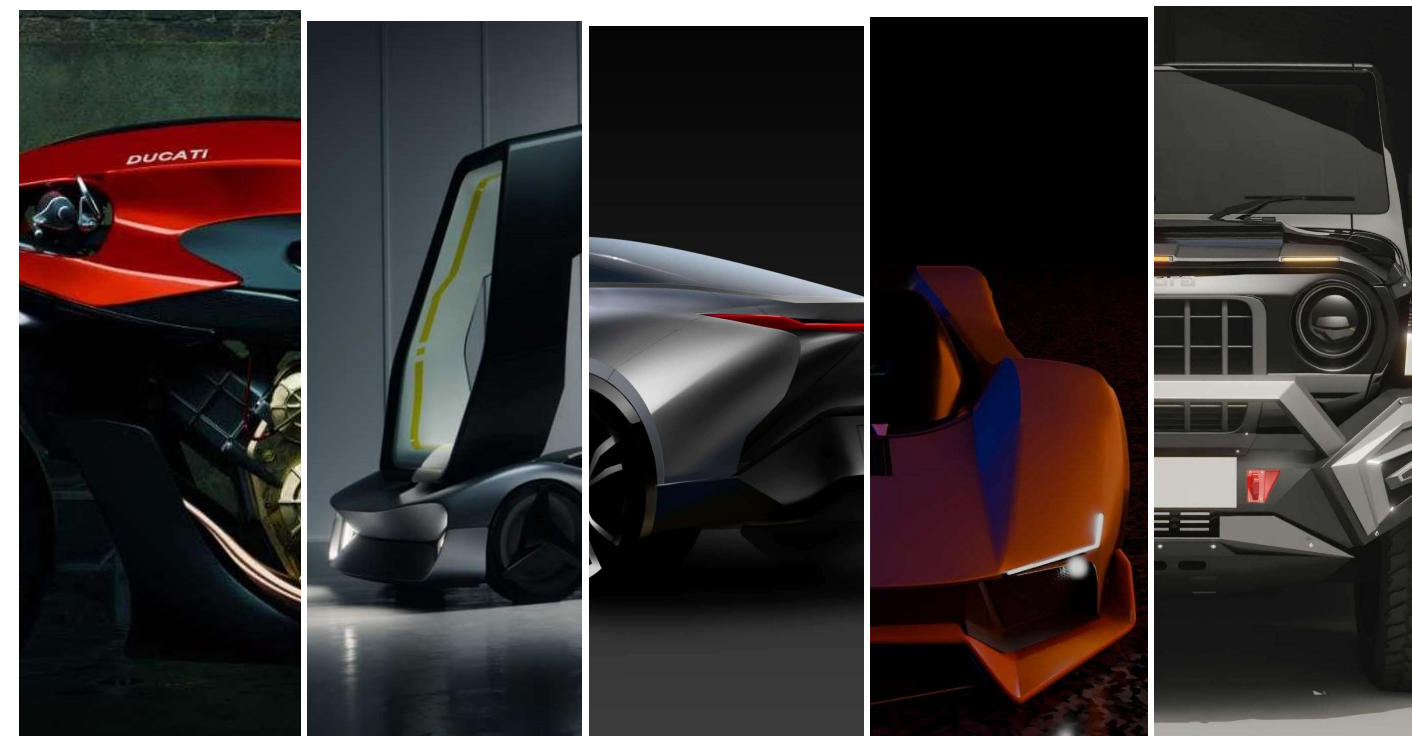
PORTFOLIO

Creative Design



Ethen Alemao

Automotive/ Industrial designer



Hi! I'm Ethen, a quick learner and an extrovert who finds energy and inspiration in the art of teamwork. With an unshakable passion for science, I'm fascinated by how it brings order and clarity to everything around us. I have a profound love for the world of automotive, aviation, and well thought marvels, from sleek planes and powerful tanks to luxury yachts that embody both style and innovation.

In the ever-evolving landscapes of mobility and aesthetics, I thrive on creative problem-solving and collaborative efforts to push boundaries and bring fresh ideas to life. Driven by curiosity and a vision for the future, I'm excited to contribute to projects that fuse design and technology into something remarkable.

Languages

English
Hindi
Konkani
Marathi
Portuguese

Education

2017-2018 — Loyola High School
SSC
2019-2020 — Loyola Higher Secondary School
HSSC
2020-2024 — Ajeenkya D Y Patil University
B.Des Transportation design

Skill set

Conceptualization
Sketching
Rendering
3D modelling
Visualization
Story Telling

Software

Photoshop
Illustrator
Sketchbook
Alias
Blender
Vred
Keyshot
Figma

Experience

M - Tek Engineers, Pune
Creative Design Intern
-
February - August 2024

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studio projects



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02

03

04

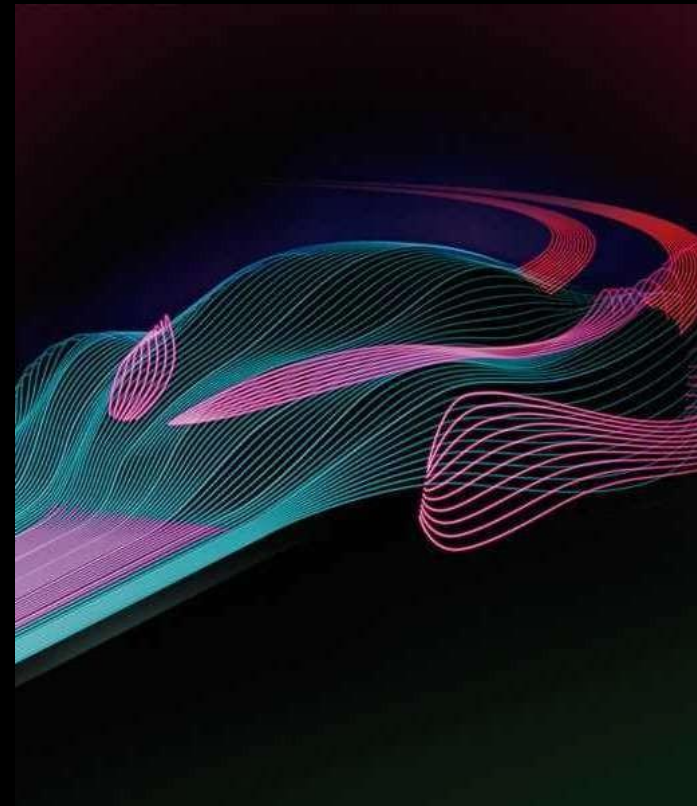
05



DUCATI STREETDEVIL

The Ducati Street Devil blends powerful performance with sleek, elegant design. With its aggressive styling and precision handling, it offers a thrilling, smooth ride, embodying the spirit of Ducati's racing legacy. Perfect for riders who crave speed, style, and sophistication.

AERODYNAMICS _



CRAFTSMANSHIP _



SLEAK _



The Ducati Street Devil is a stunning fusion of raw power and refined elegance, designed for those who crave the thrill of the ride without sacrificing style. With its sleek, aerodynamic lines and aggressive stance, this bike embodies the spirit of Ducati's racing heritage, while delivering a smooth, exhilarating ride. Every curve of the Street Devil is crafted to glide effortlessly through the streets, offering not just performance, but a pure connection to the road, wrapped in a package of unmistakable Italian craftsmanship.



DUCATI
Street Devil



USER

lifestyle

Cafe racer aesthetic

Rev head



Old Money



Class &
Performance



The target user is someone around the age of 25 to 40 years old, from an upper class family and loves their leisure time on weekends. Being involved in a creative and sophisticated lifestyle, they constantly find themselves searching for inspiration. Be it weekend rides to clear the mind. This translates into their expectations and seek out performance and elegance.

CHASSIS AND ENGINE



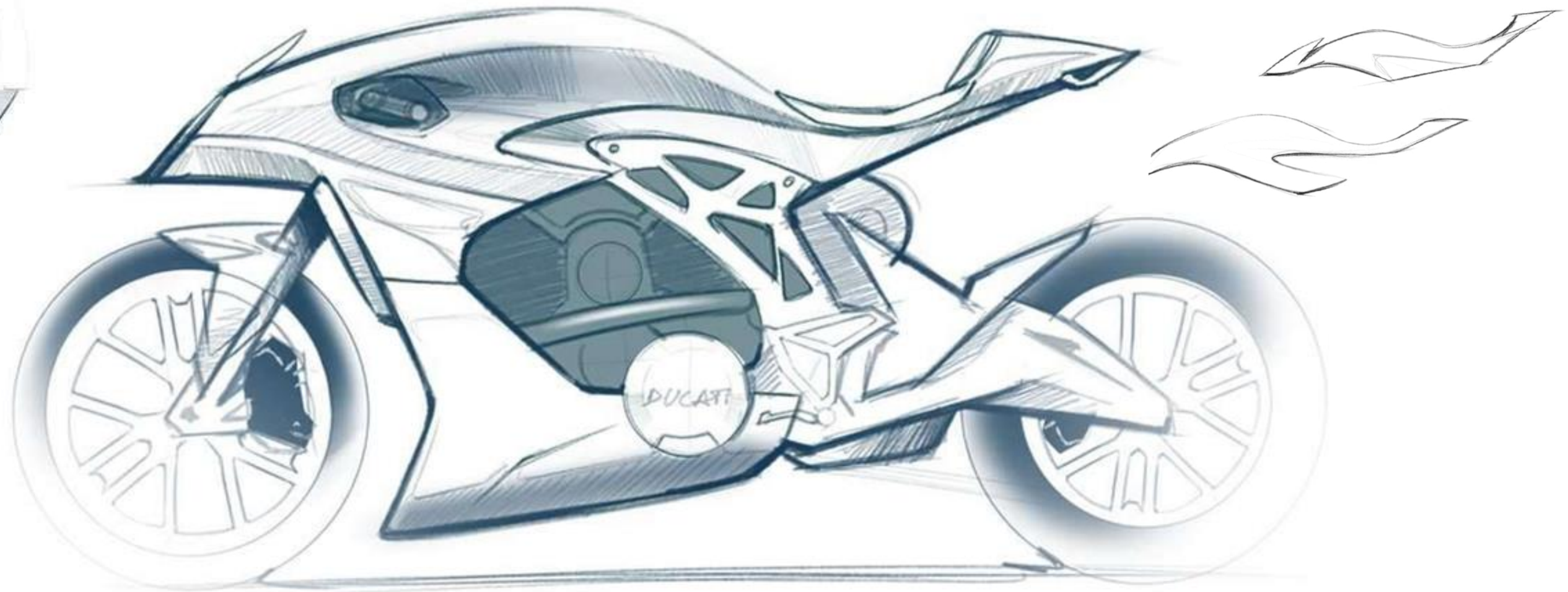
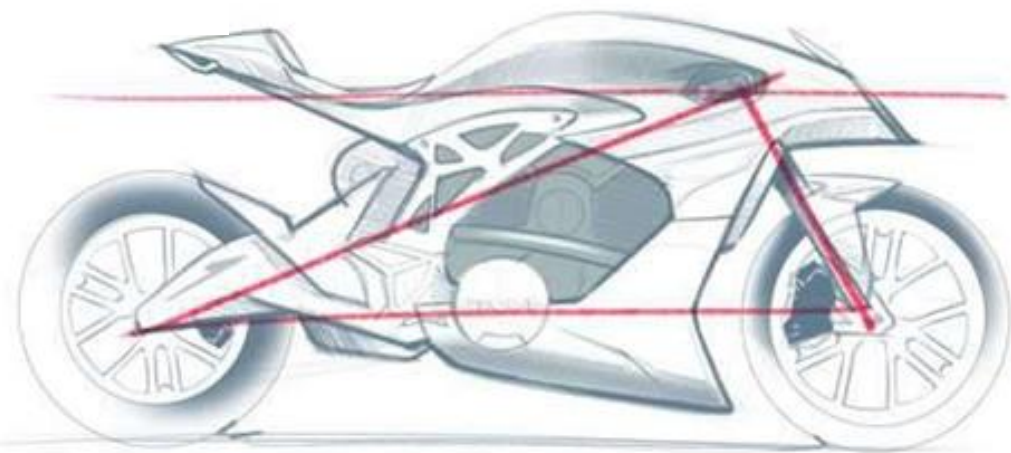
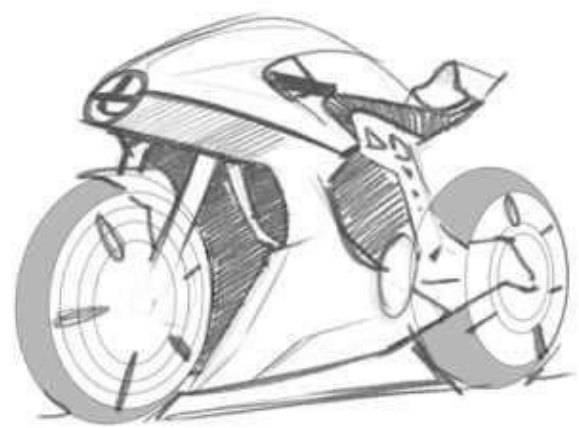
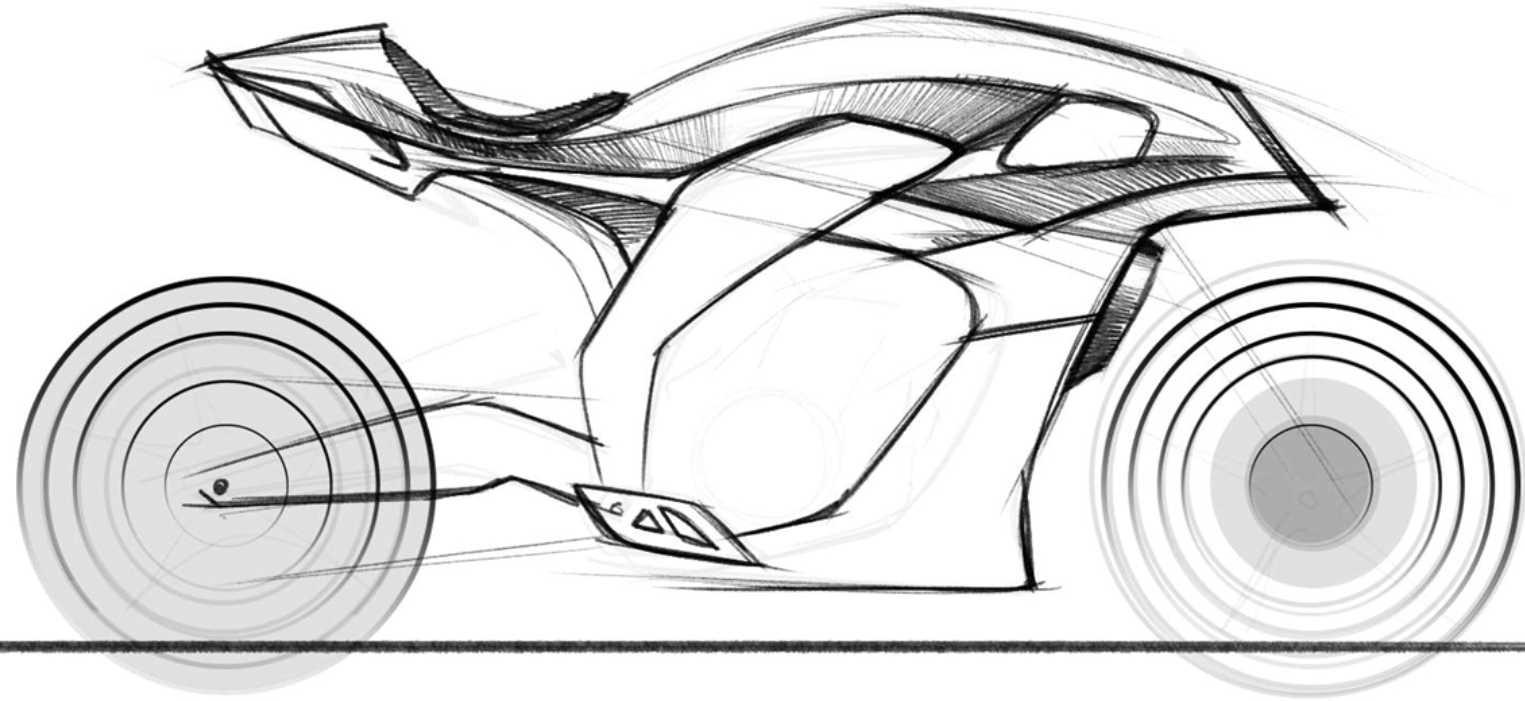
The street devil uses the Ducati V4 R engine, a 998cc Desmosedici Stradale 90 degree V4 putting out 215.1 hp at 15500 rpm. She's no slow coach. the chassis is built from lightweight aluminum and has a fully 3D printed trellis frame. A fully carbon fiber swingarm as well as carbon air ram ducts..

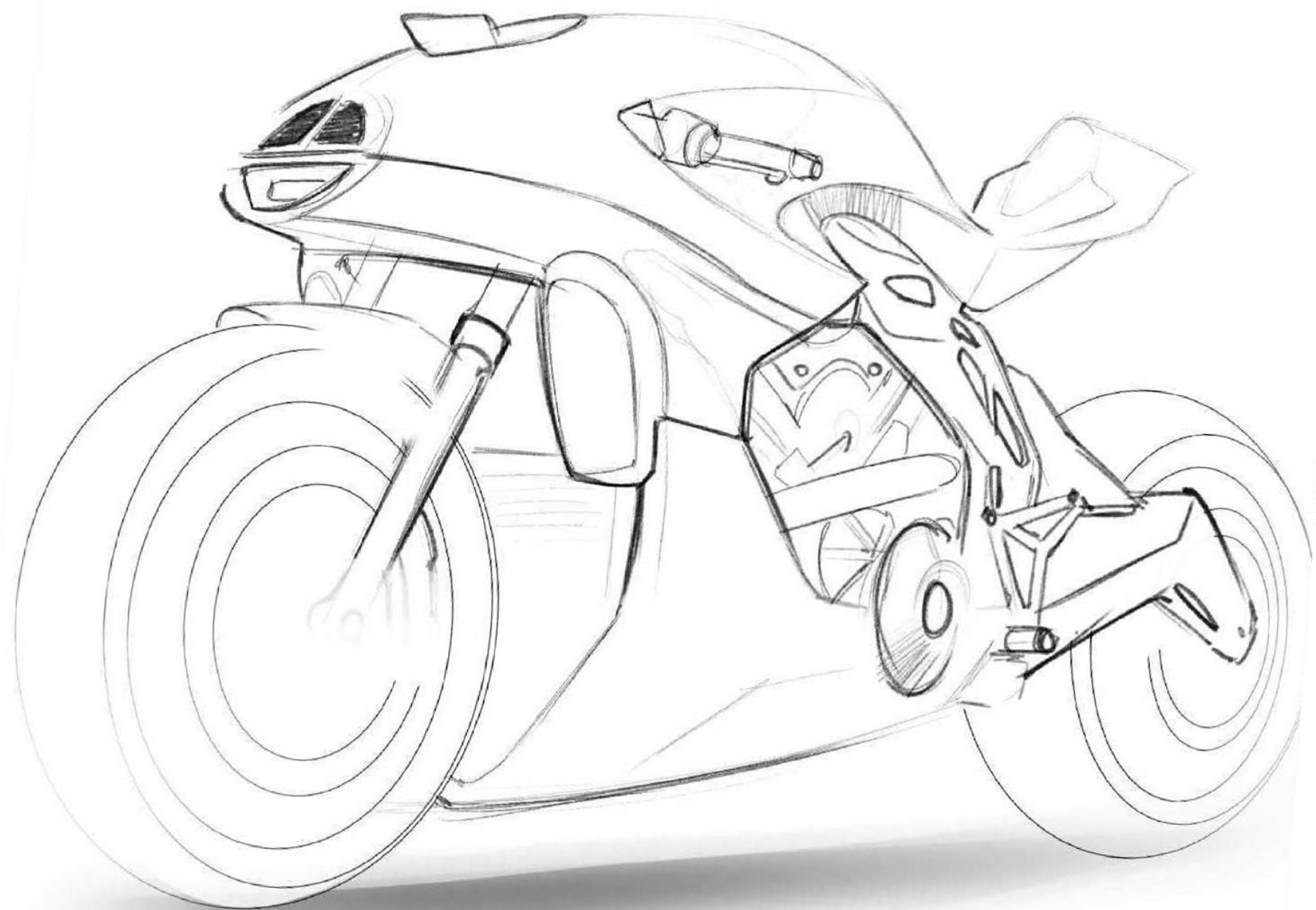
EMBRACING THE POWER OF SOPHISTICATION

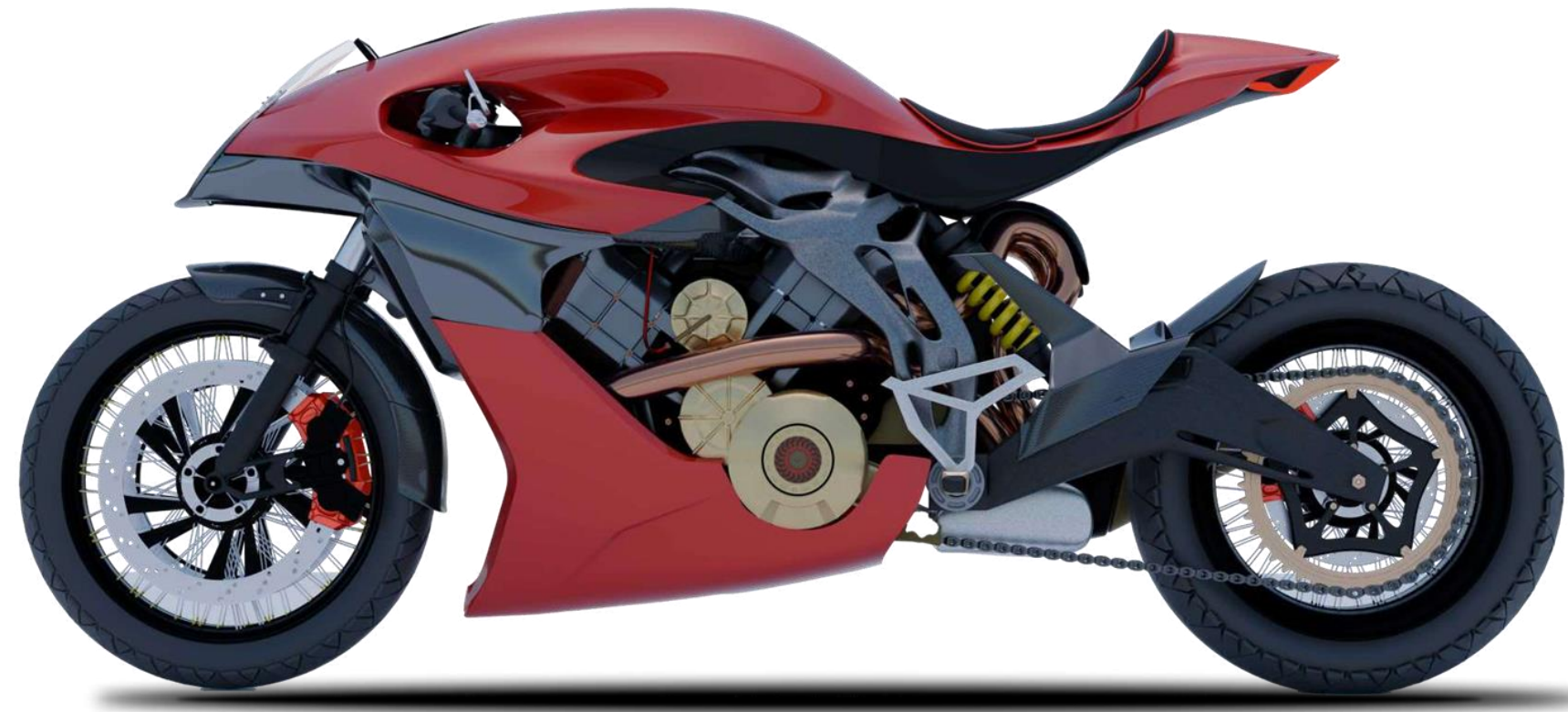
Designed for those who demand elegance and power, the Street Devil is the ultimate escape for those who seek inspiration. It's crafted for riders who value Italian craftsmanship as much as the thrill of the road—a perfect blend of style, performance, and sophistication.

Every detail of the Street Devil is crafted with these riders in mind. The aggressive yet fluid lines speak to their love for aesthetics, while its unmatched power answers their demand for performance. From dawn rides to clear the mind, to exhilarating weekend adventures, the Street Devil is the ultimate partner, merging raw energy with Italian craftsmanship, creating a ride that's as inspirational as the life its rider leads.

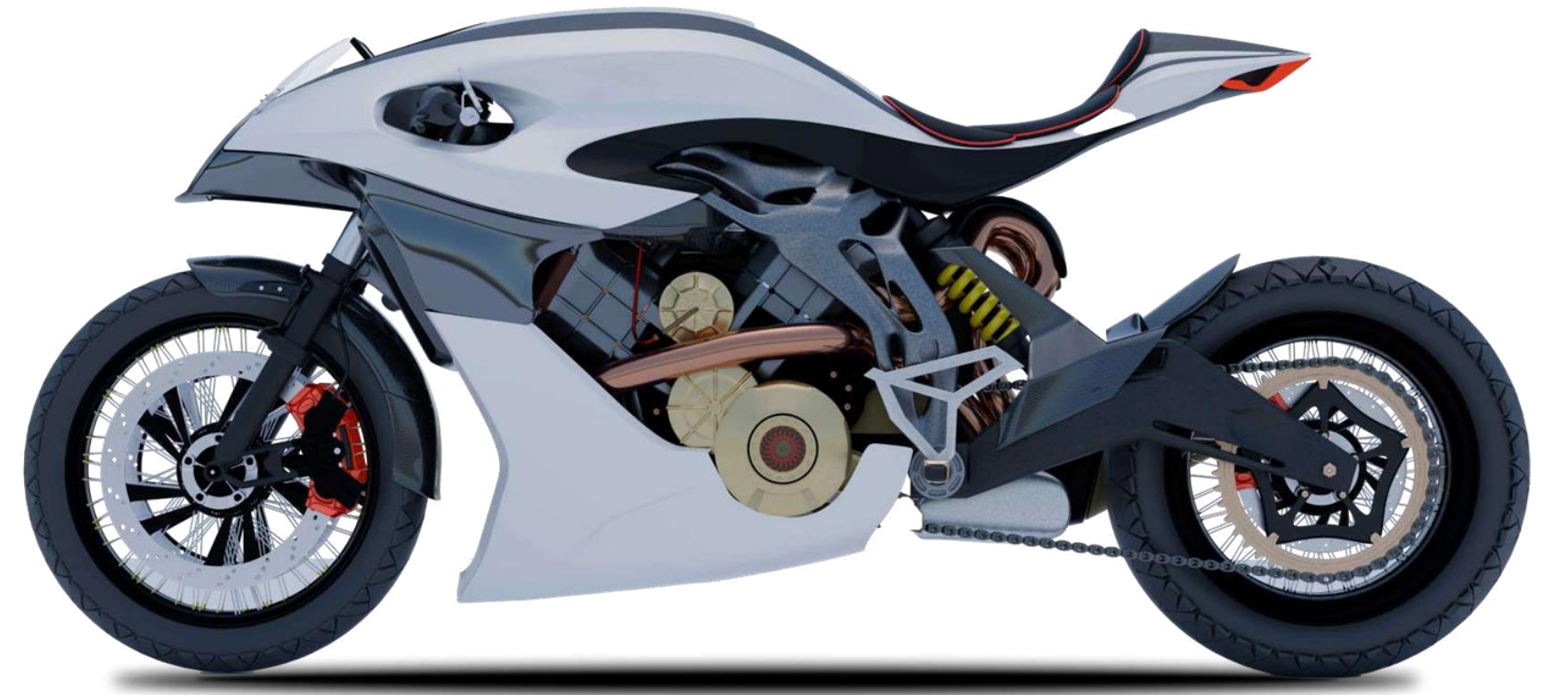
With the Ducati Street Devil, Ducati has redefined the idea of leisure. This bike isn't just about reaching destinations, it's about rediscovering freedom, artistry, and self in every twist and turn.



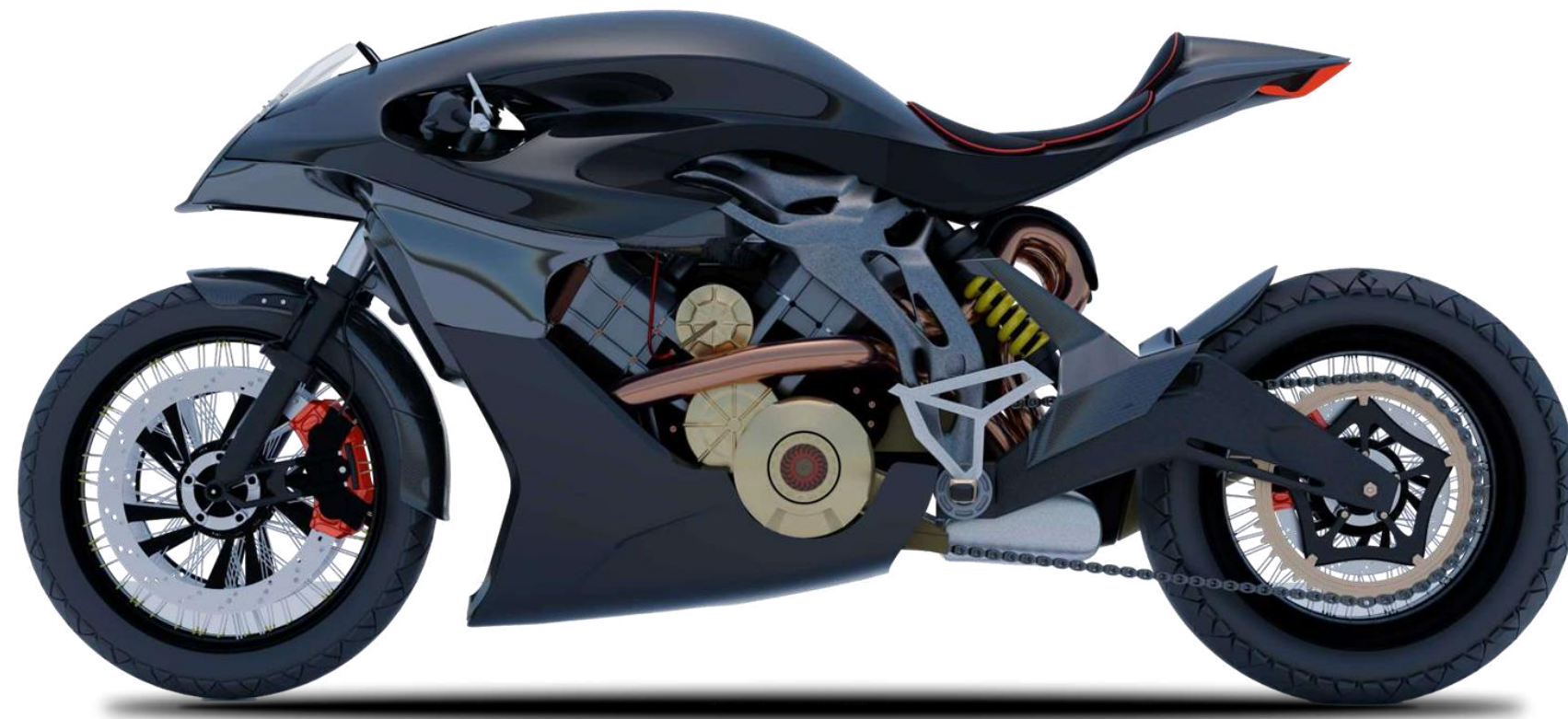




 **CORSA RED**



 **SOUL WHITE**



 **VOLCANIC BLACK**



Ram air ducts incorporated into the head lights







A TRIBUTE TO AN ERA



Renault AeroHaul

The Renault AeroHaul is an innovative, fully electric autonomous semi-trailer that harnesses bladeless fan technology and fluidic propulsion to deliver unmatched energy efficiency and high-speed performance, revolutionizing logistics for a sustainable, traffic-free future.



02



FLUIDICS _

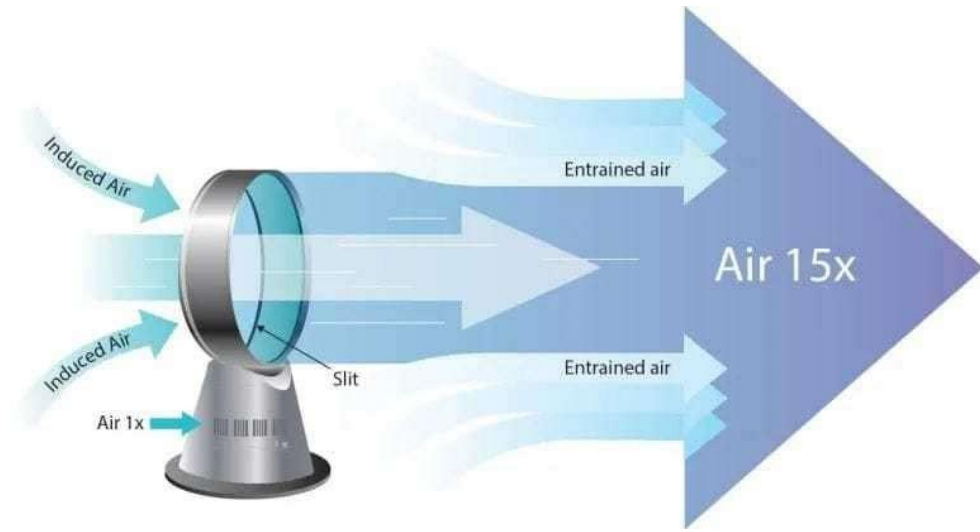
BLADELESS FAN _



Scenario: It's 2030 and technology and population has reached all time highs.

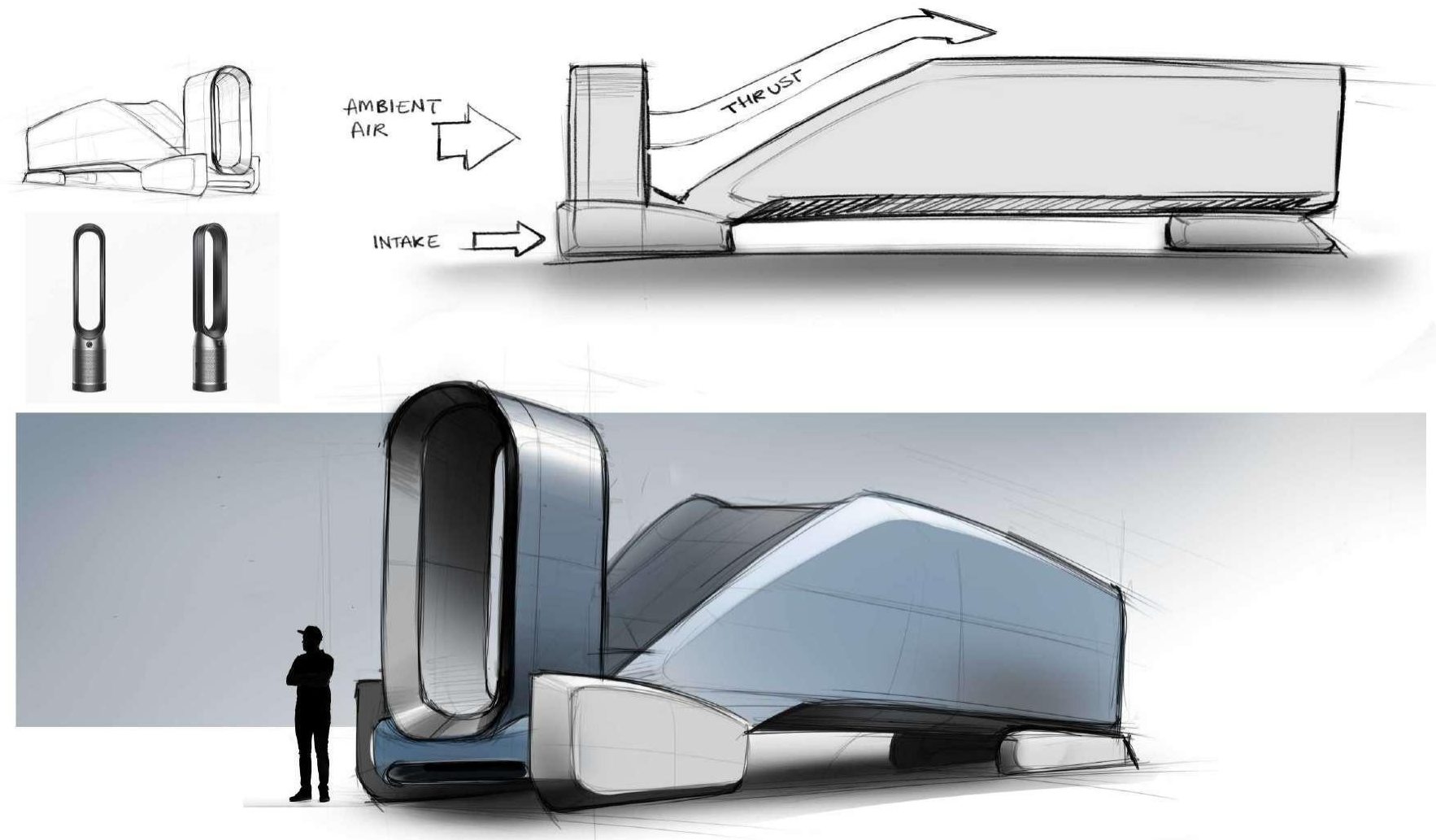
In 2030, with urban populations soaring, air taxis dominate the skies, while roads are cleared for unmanned logistics. Enter the Renault AeroHaul—a revolutionary, fully electric, autonomous semi-trailer powered by bladeless fan technology. Using advanced fluidic propulsion, it delivers unmatched energy efficiency, leaving traditional motors behind and setting a new standard for high-speed, low-maintenance freight transport.





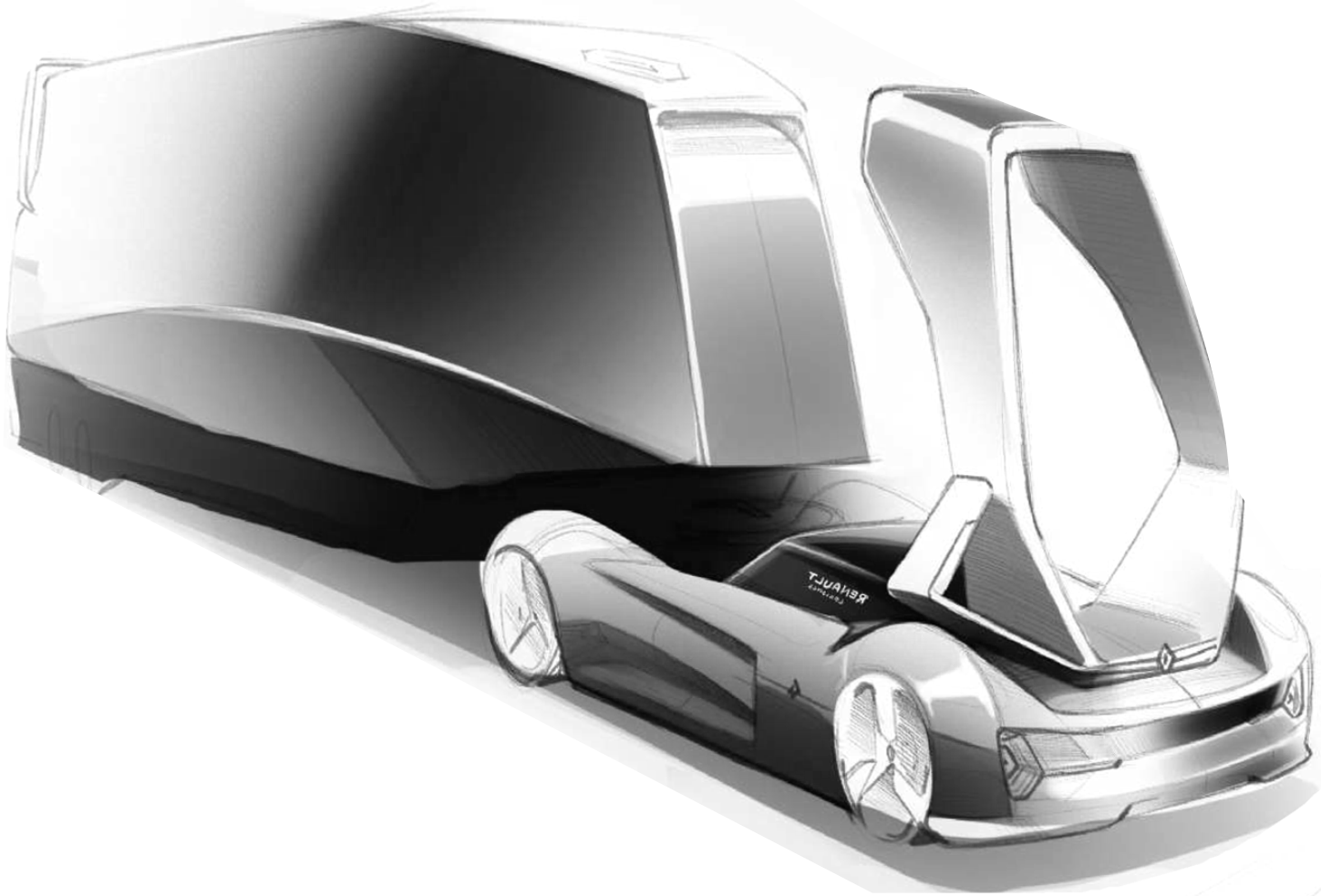
SO, WHAT'S THE RENAULT AEROHAUL ALL ABOUT?

Bladeless fan technology, based on the Coanda effect, could be adapted as a fluidic engine for vehicle propulsion. Instead of traditional blades, it accelerates air over a smooth surface, creating a directed airflow that could generate thrust. The system would use an intake to draw air, which is then accelerated and expelled to push the vehicle forward.

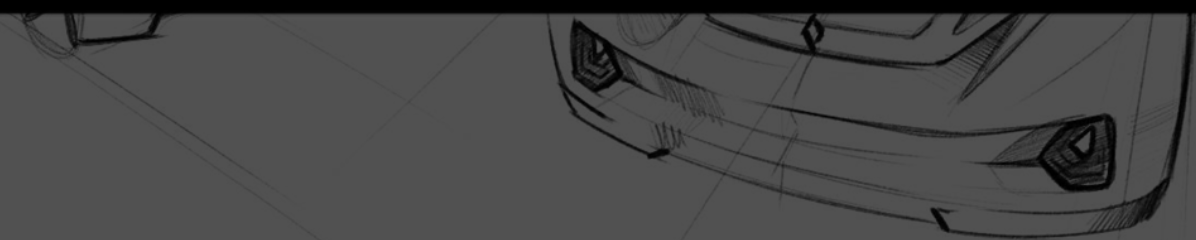
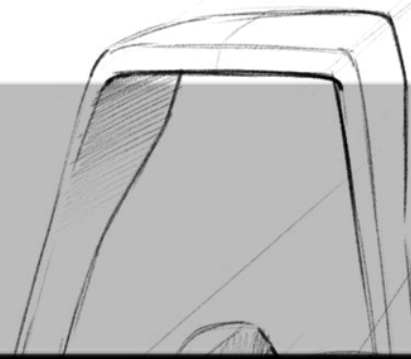
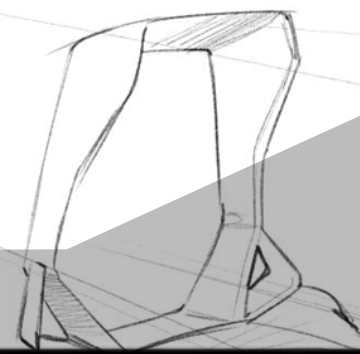


WHERE DID I DERIVE THE FORM FROM?

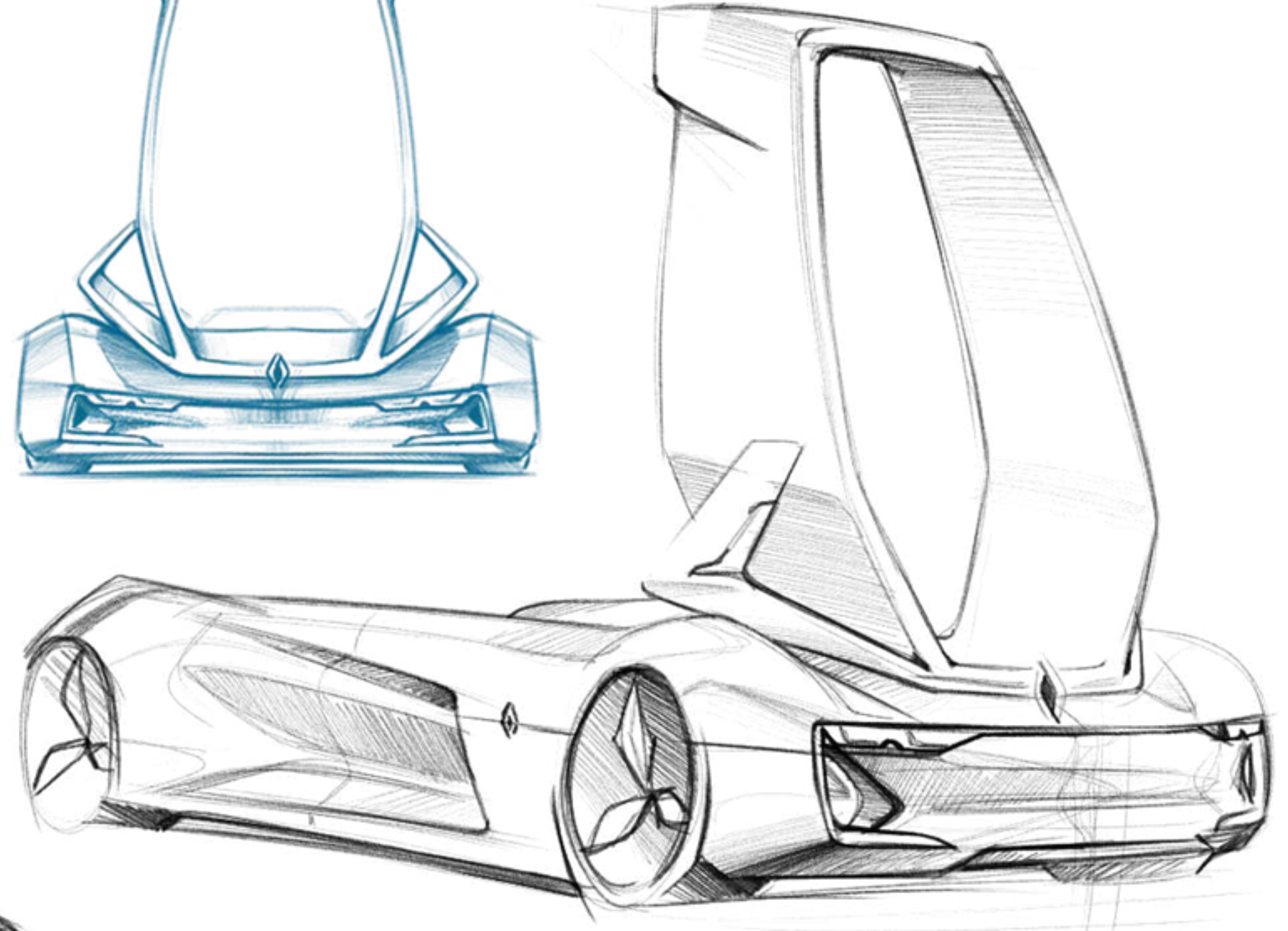
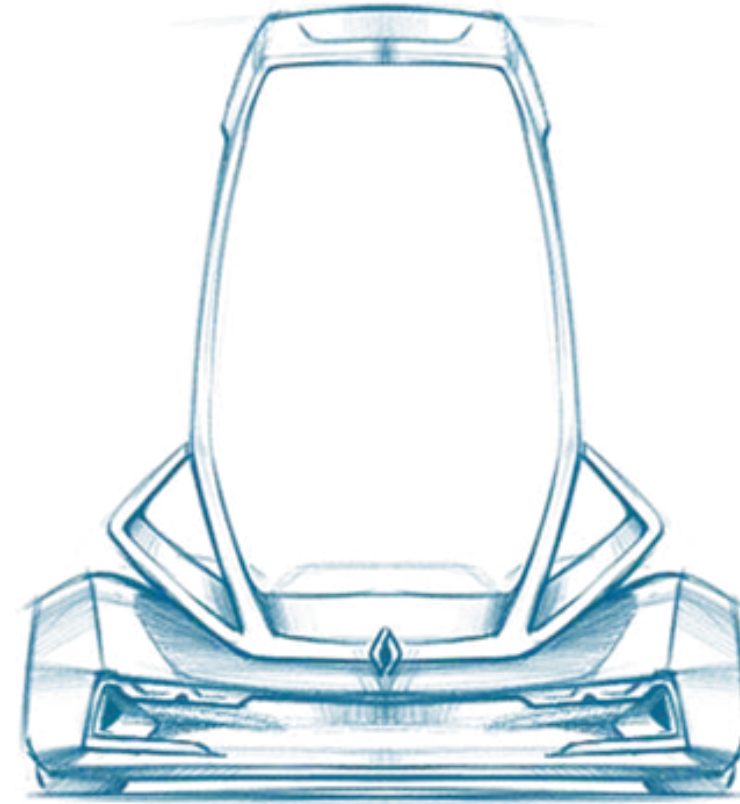
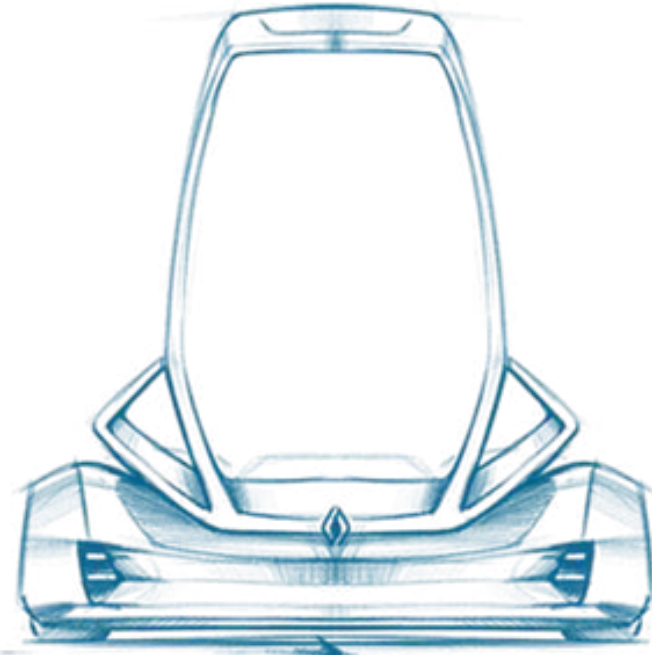
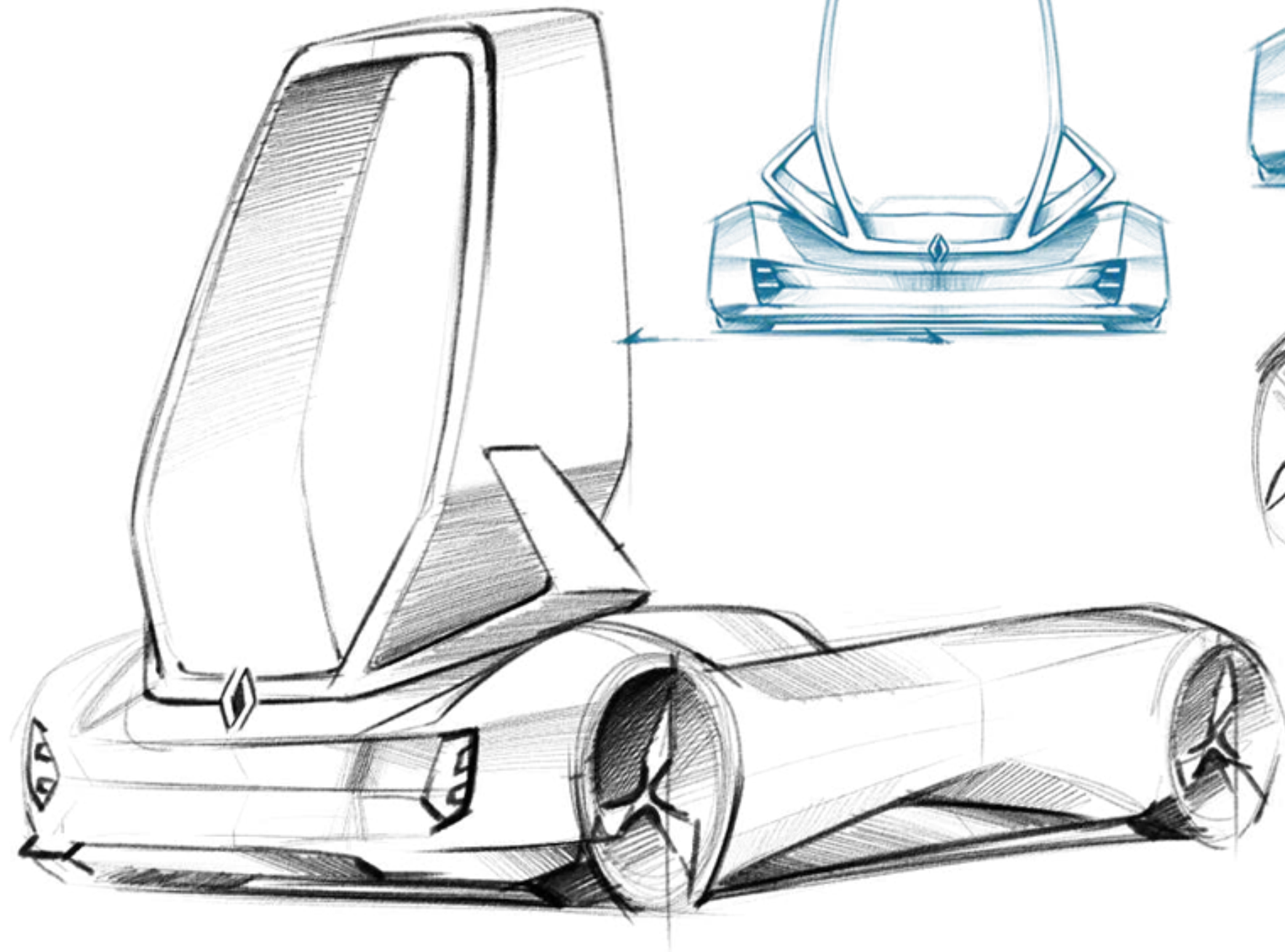
Dyson Air Purifiers



Advantages include fewer moving parts, reduced mechanical wear, and more efficient airflow. However, scaling this technology for large vehicles presents challenges in generating sufficient thrust and energy efficiency. It could be ideal for small vehicles like drones or experimental transport.



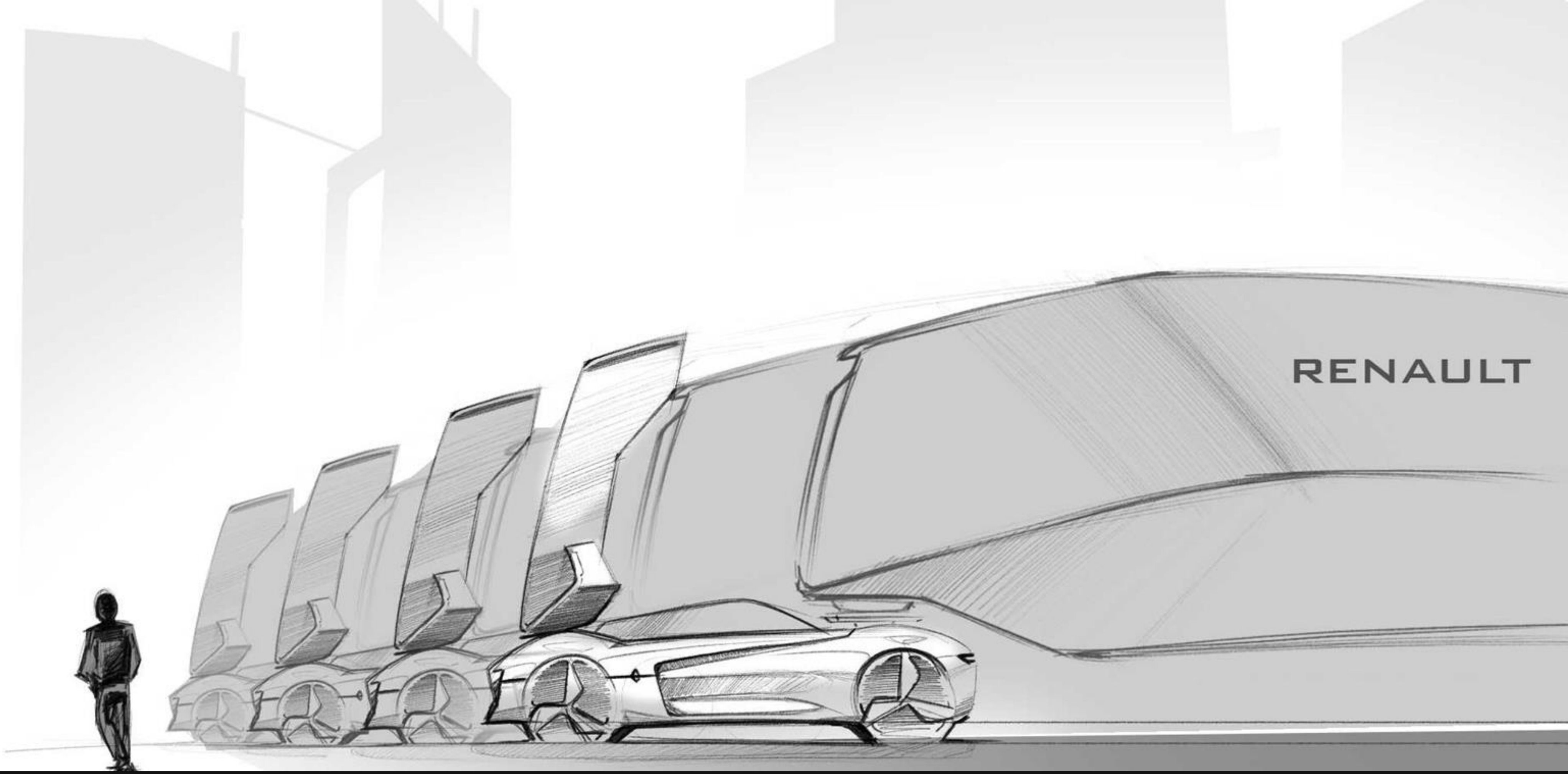
THEME 1 _



THEME 2 _

**FINAL
DESIGN _**

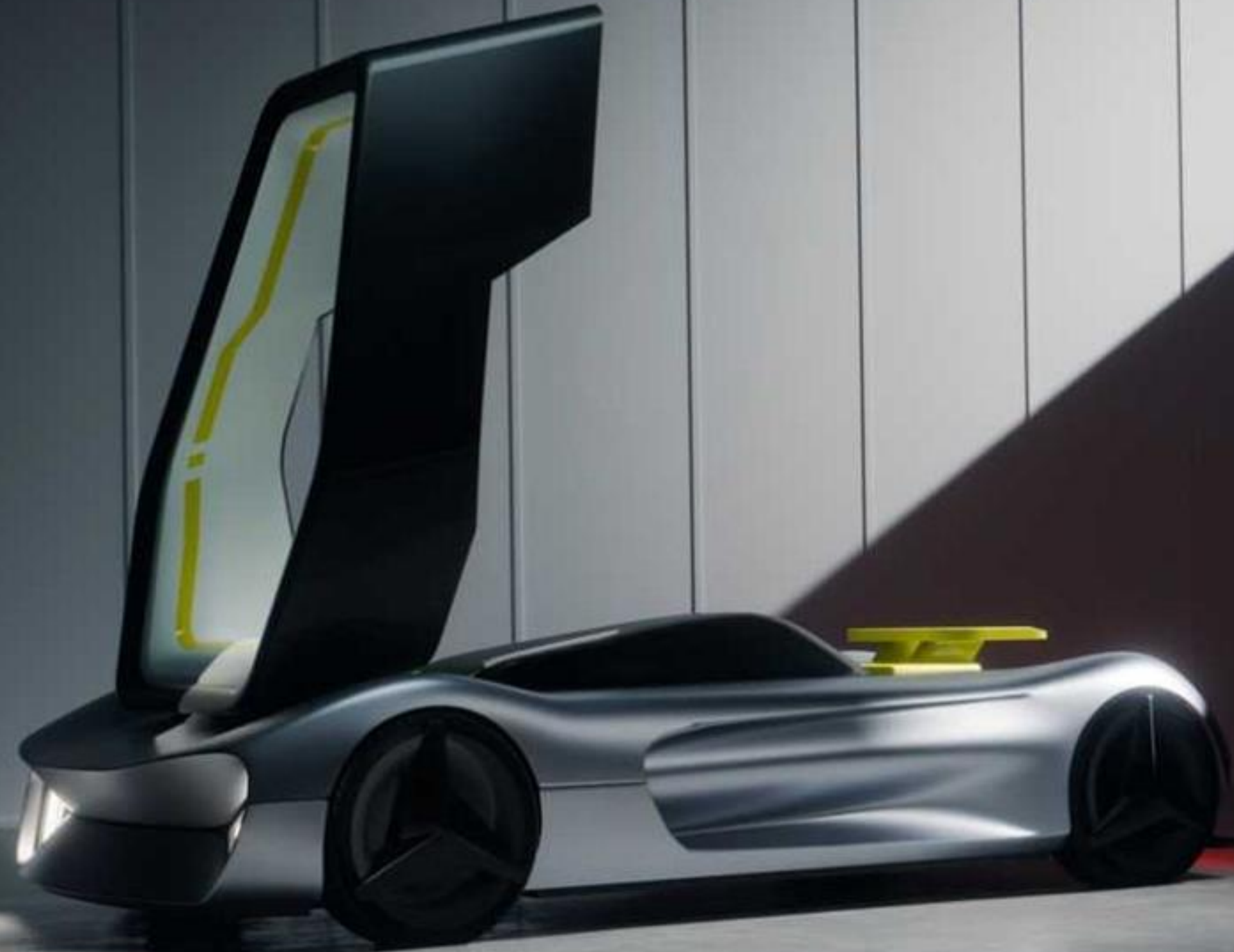




RENAULT

RENAULT AEROHAUL | HAULING THE FUTURE, EFFORTLESSLY.

BLENDER VISUALIZATION







LEXUS SUV COUPE

The Lexus 2030 full-size SUV will redefine luxury with a bold, futuristic design, seamlessly blending advanced electric performance, sustainable materials, and innovative technology for an unparalleled driving experience. It will be a symbol of Lexus' vision for a sustainable, dynamic, and emotionally charged future.

03



SOPHISTICATION _



ELEGANCE _

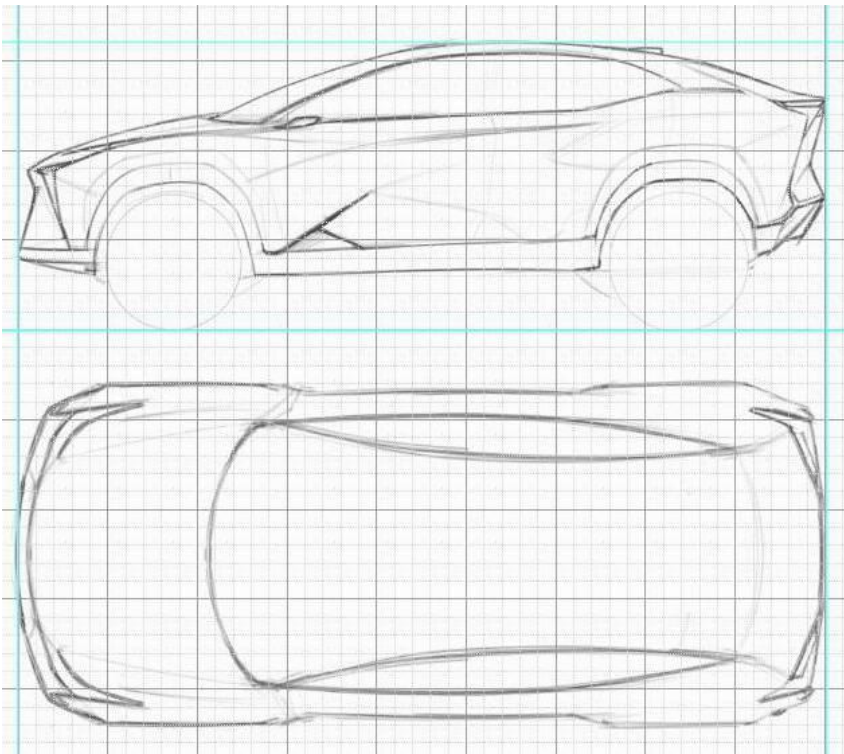
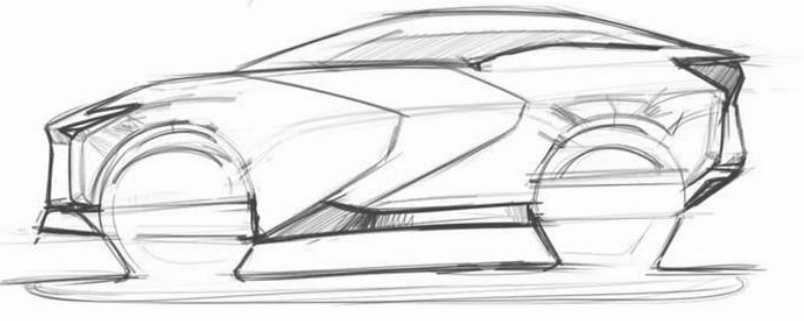
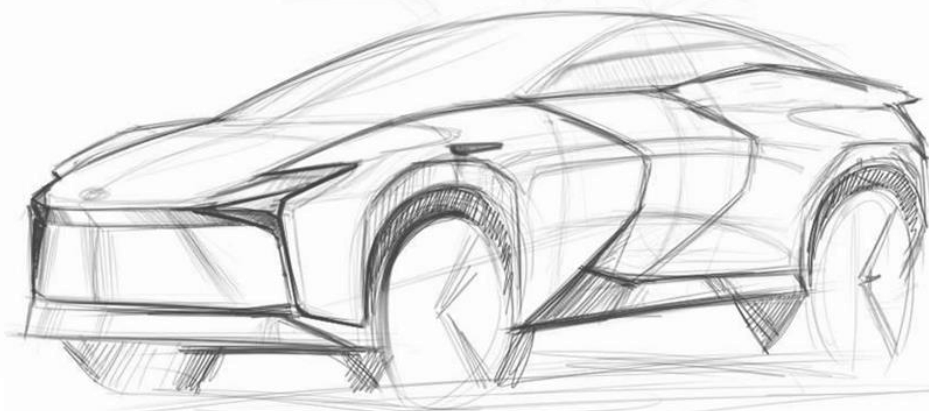
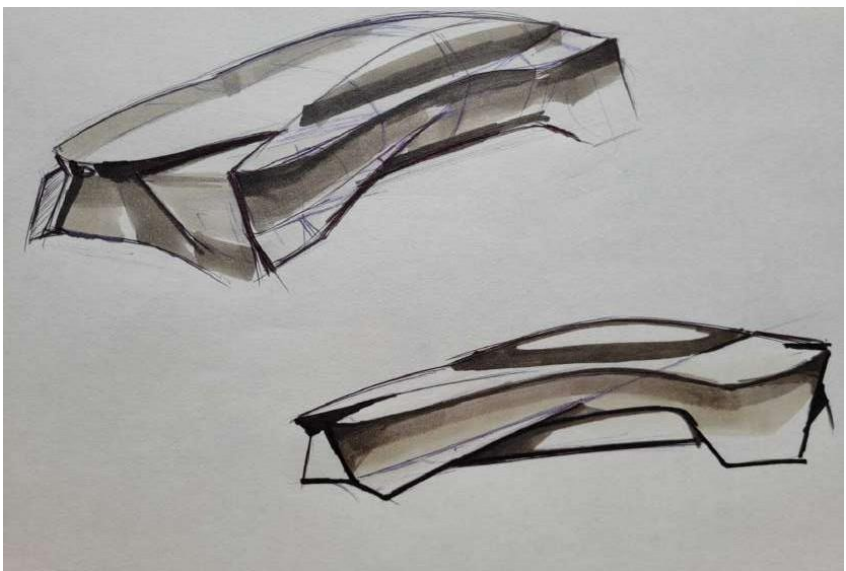
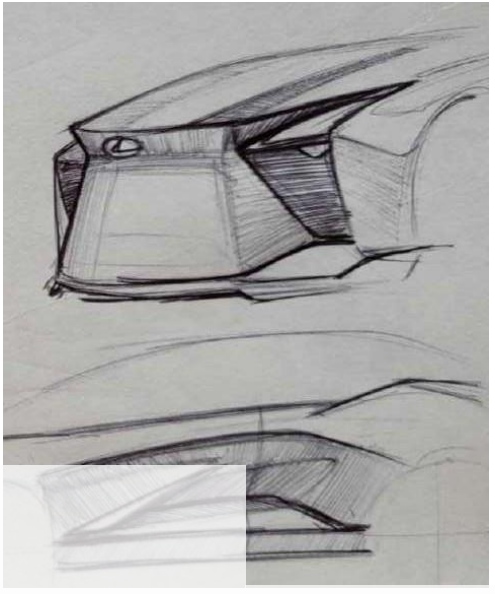
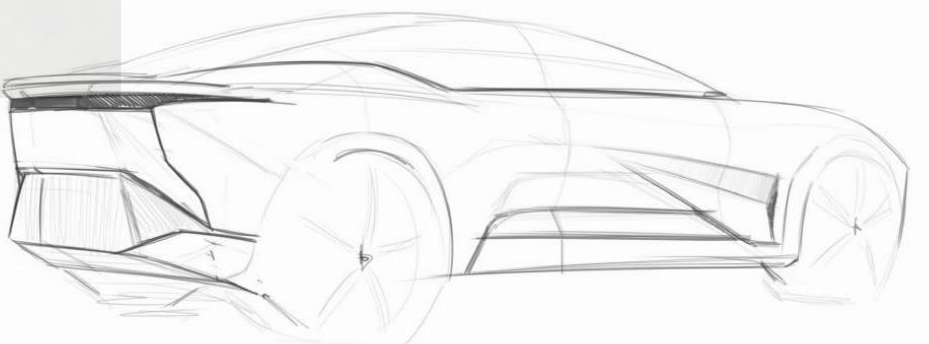
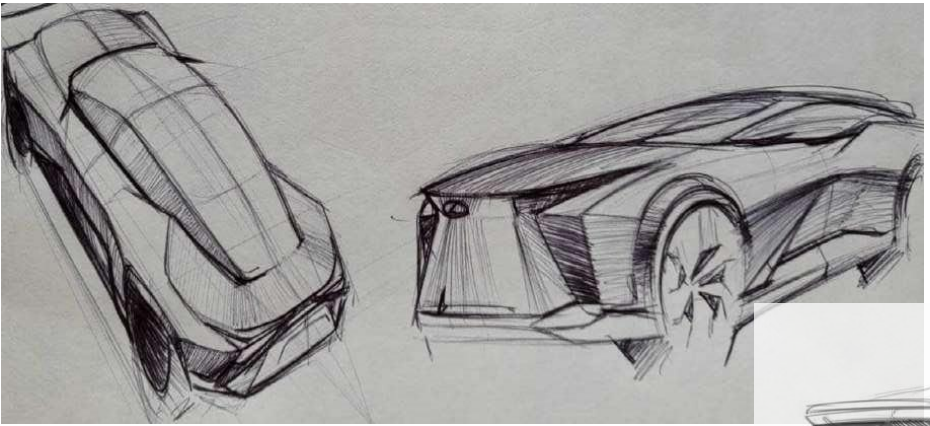


Lexus reimagines the future of luxury with a full-size SUV that blends unparalleled performance, cutting-edge technology, and sustainable innovation. In 2030, the Lexus flagship SUV will be a bold expression of sophisticated design, seamlessly integrating art, power, and eco-consciousness—fueling a new era of automotive excellence.



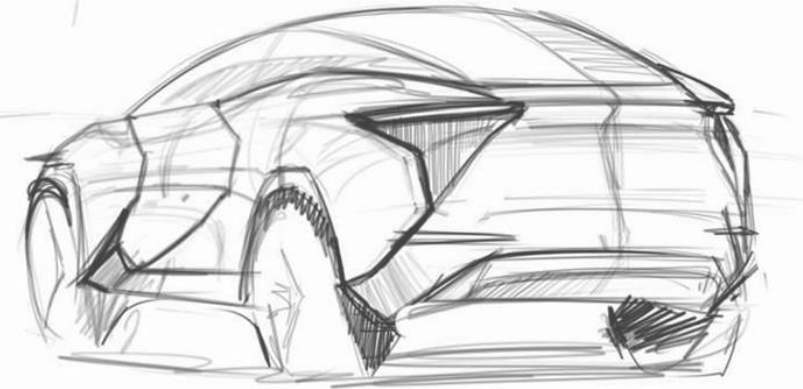
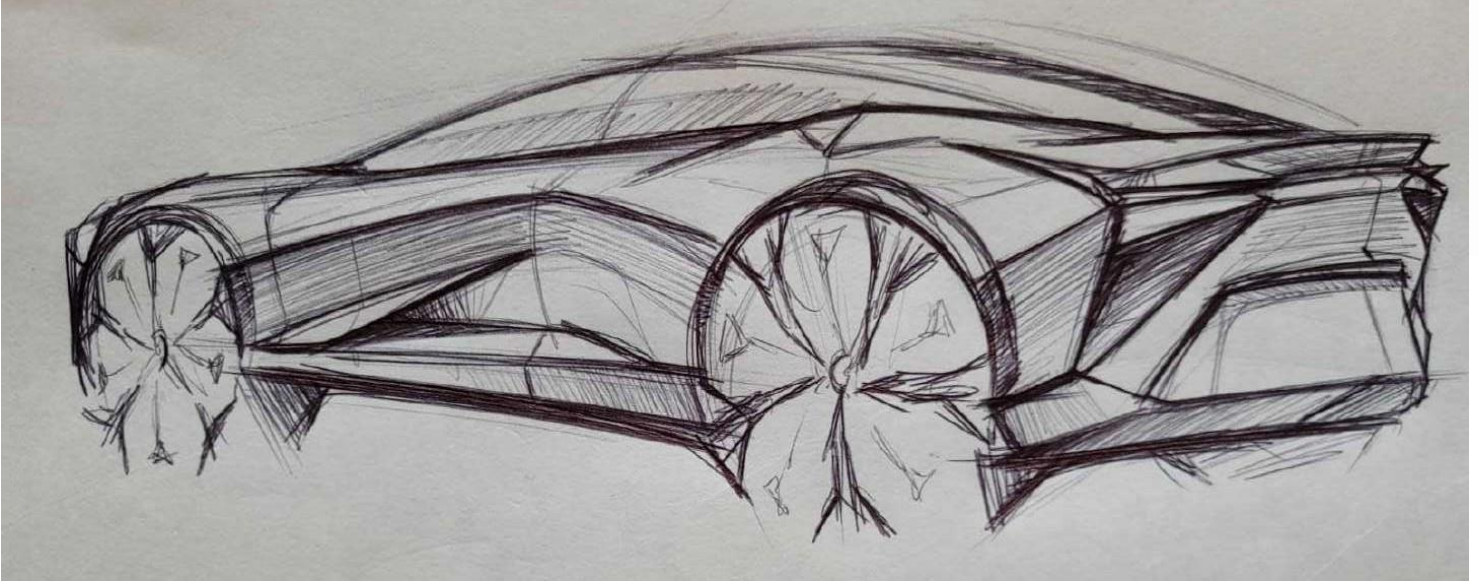
SCULPTED _

To create an SUV cross as an addition to the current line up of the Lexus LFZ range of vehicles. Focusing on the side features and front fascia, designing a sculpted surface that would playfully interact with light.



150
0mm
260
mm

220
0mm





The clay was applied to a thermocol mold,
the whole process took 3 months
The entire project was completed under the supervision of
Mr. Karthikeyan Thangamani



For the clay process, I used industrial clay as a medium, the main tool used was the clay scraper.
Through the clay modelling process, I came across multiple surface mistakes, which were rectified on clay itself, yielding the final model which was then resketched and rendered on photoshop



LEXUS




LEXUS



THAR

THE RUGGED HEART

The Rugged Heart Off-Road Accessory Kit is more than a set of components, it's the soul of the Thar, amplified. Each accessory serves not only to enhance the vehicle's performance but also to elevate its personality, creating a machine that speaks volumes with its design, its form, and its capabilities.



RUGGED _



POWERTRAIN _



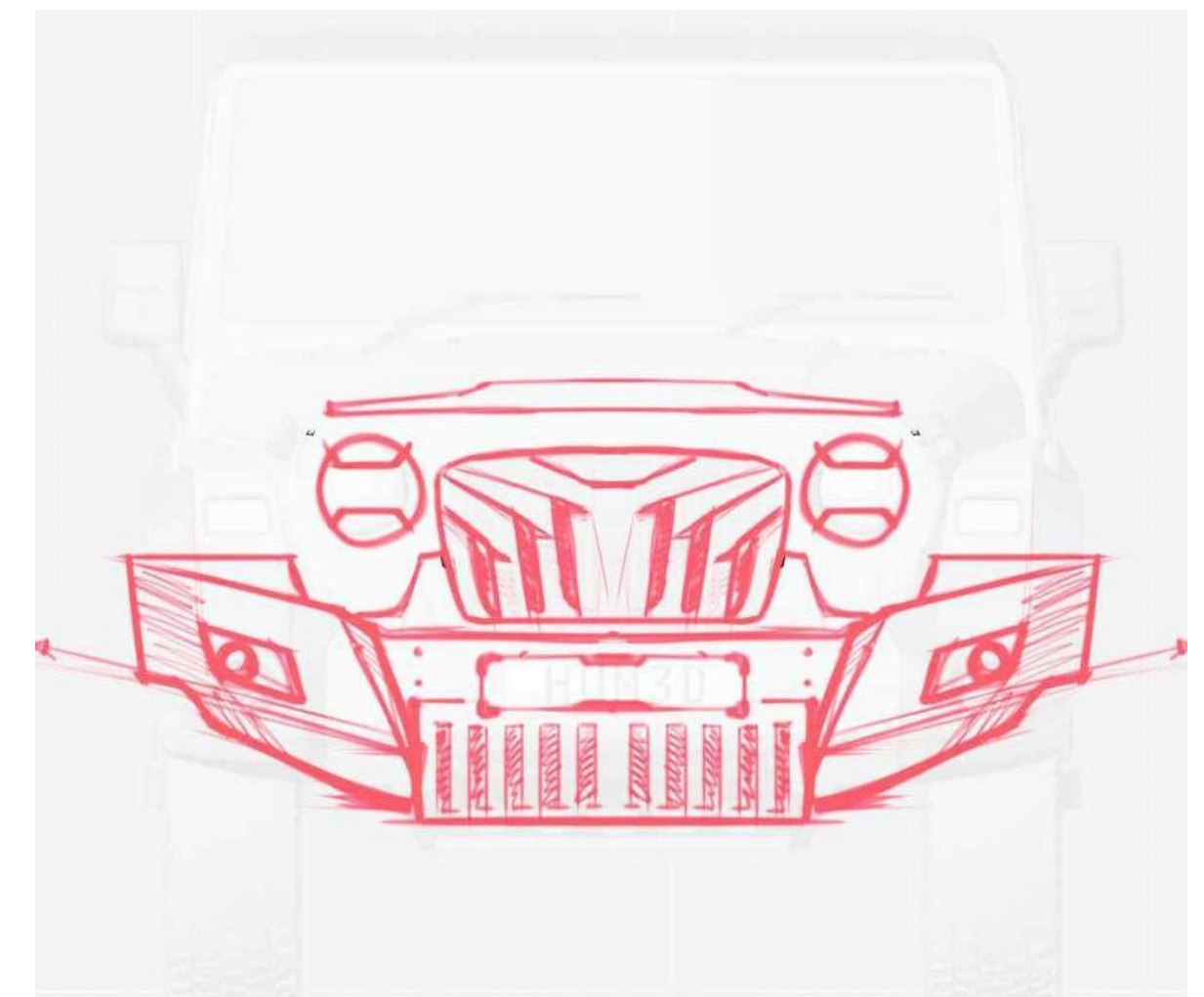
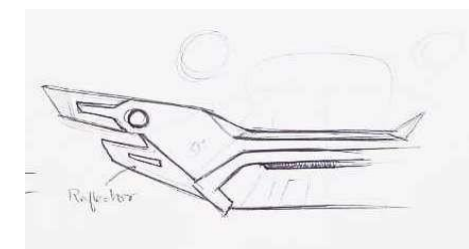
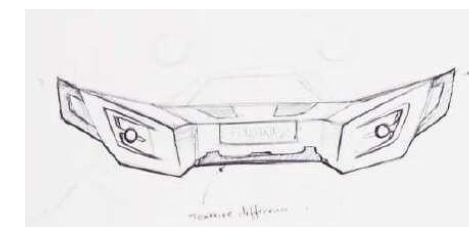
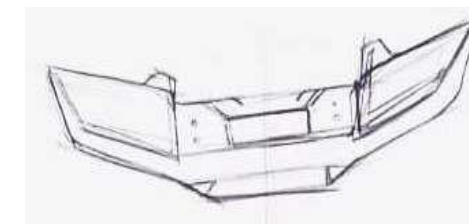
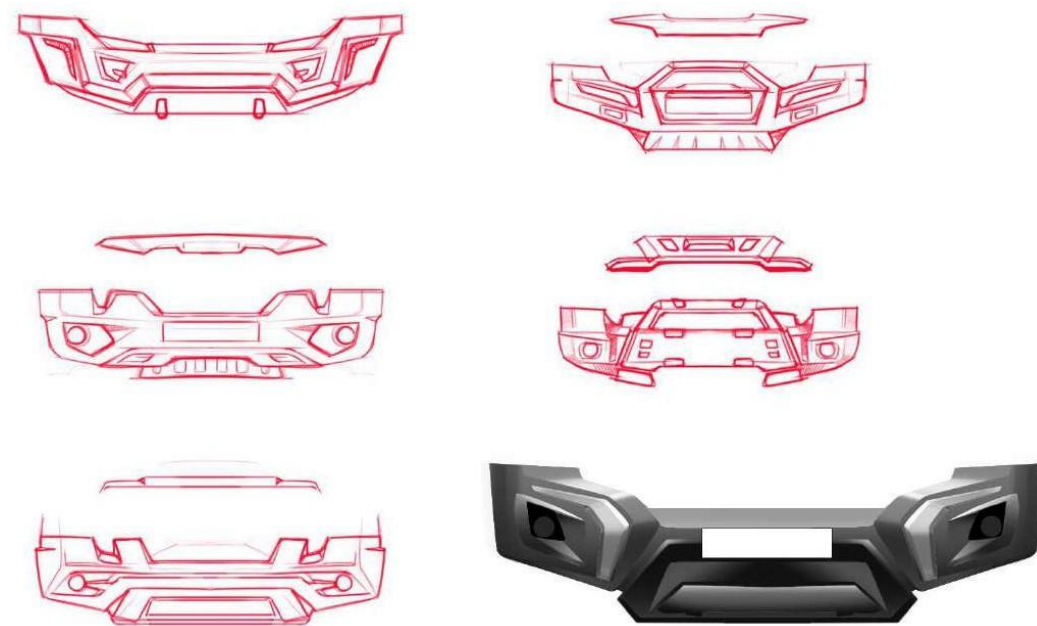
The Rugged Heart accessory kit transforms the Mahindra Thar into the ultimate off-road companion, an embodiment of strength, endurance, and bold personality that is ready to face the unknown and come out victorious. It's not just about the journey; it's about embracing the rugged, untamed spirit of adventure, wherever it takes you.



ROBUST _

FITTINGS REVIEW AND INITIAL IDEATIONS

The bulbar is to be mounted unto the ladder chassis of the vehicle using mounting brackets and a crossbar.





FINAL FORM

The metal base of the bulbar taken forward for development.

PLASTIC INSERTS

Injection moulded parts to be added onto the frame



SIDE POCKETS

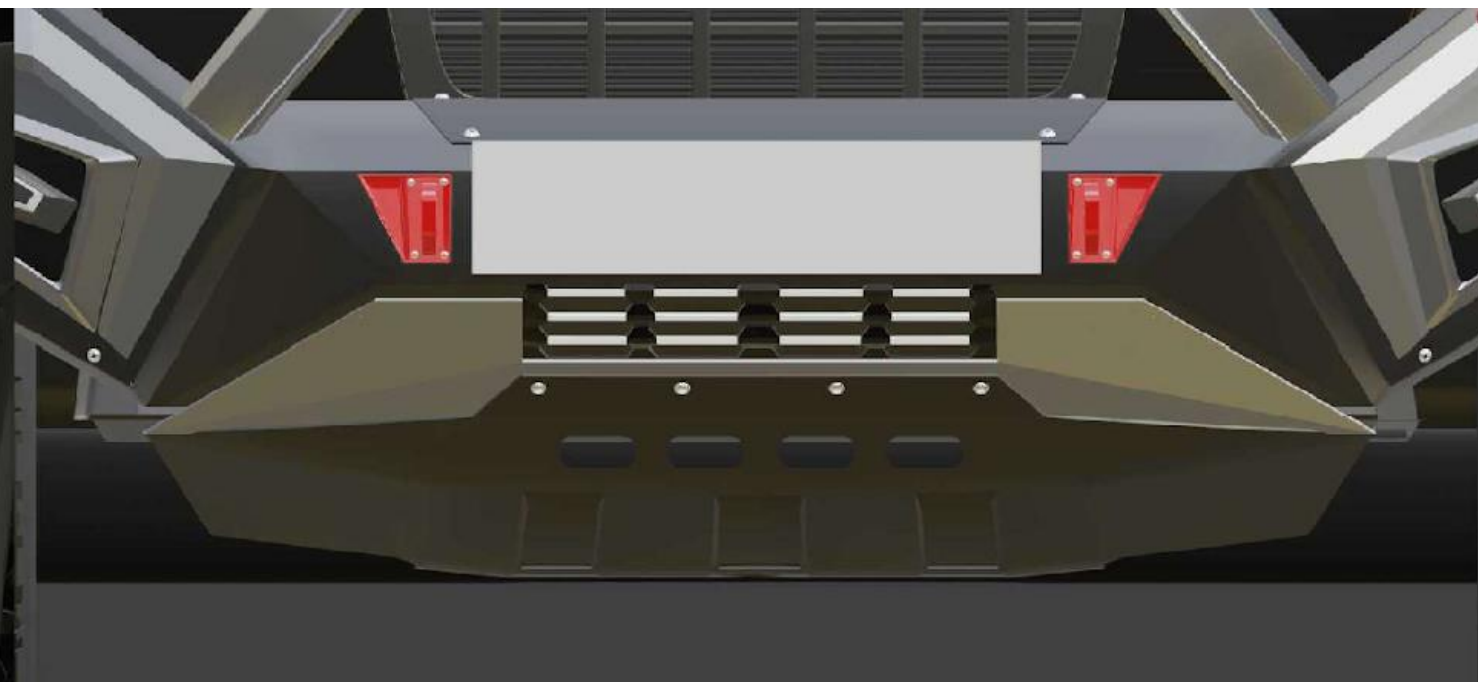
Housing for the foglamps

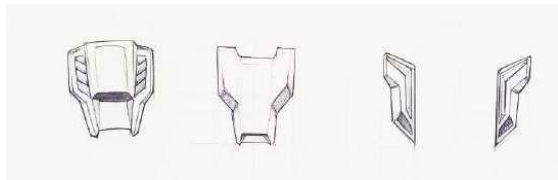
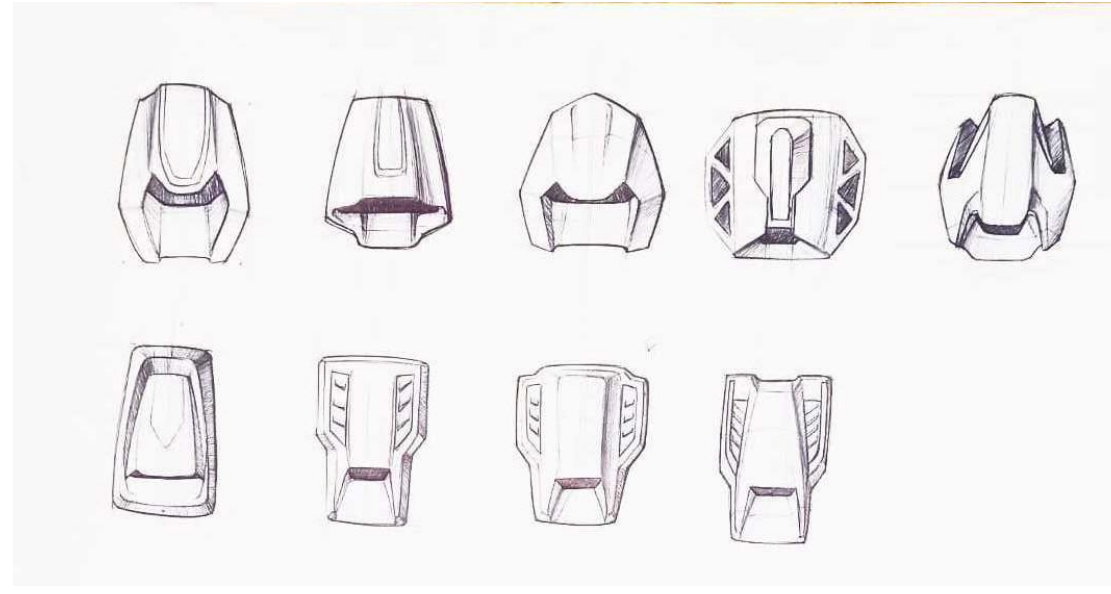
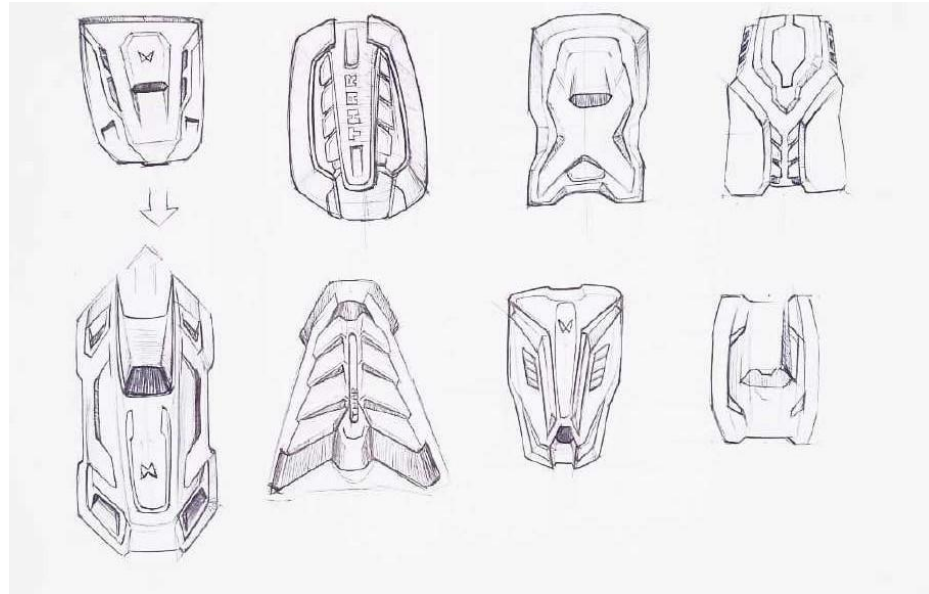
SKID PLATE

Underbody rock protector

BUG DEFLECTOR

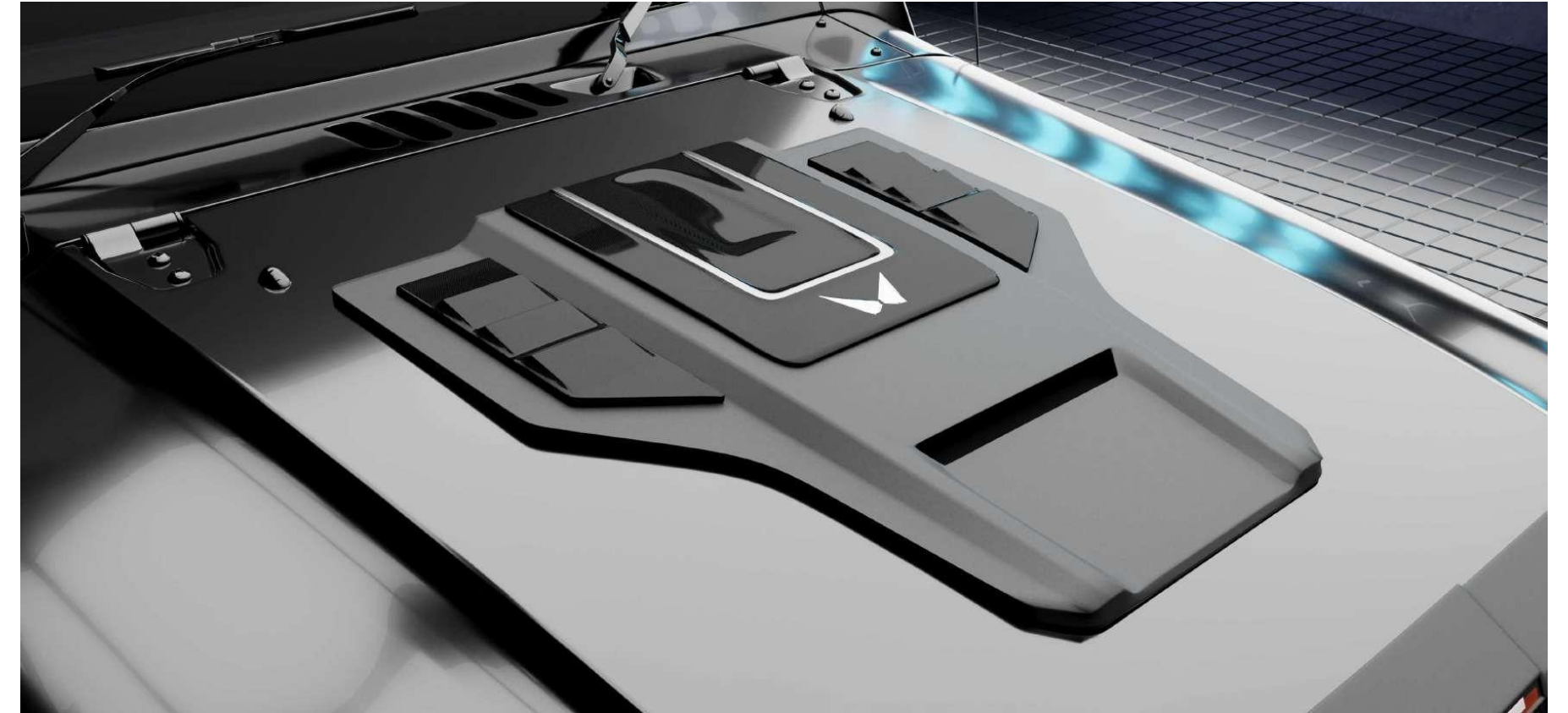
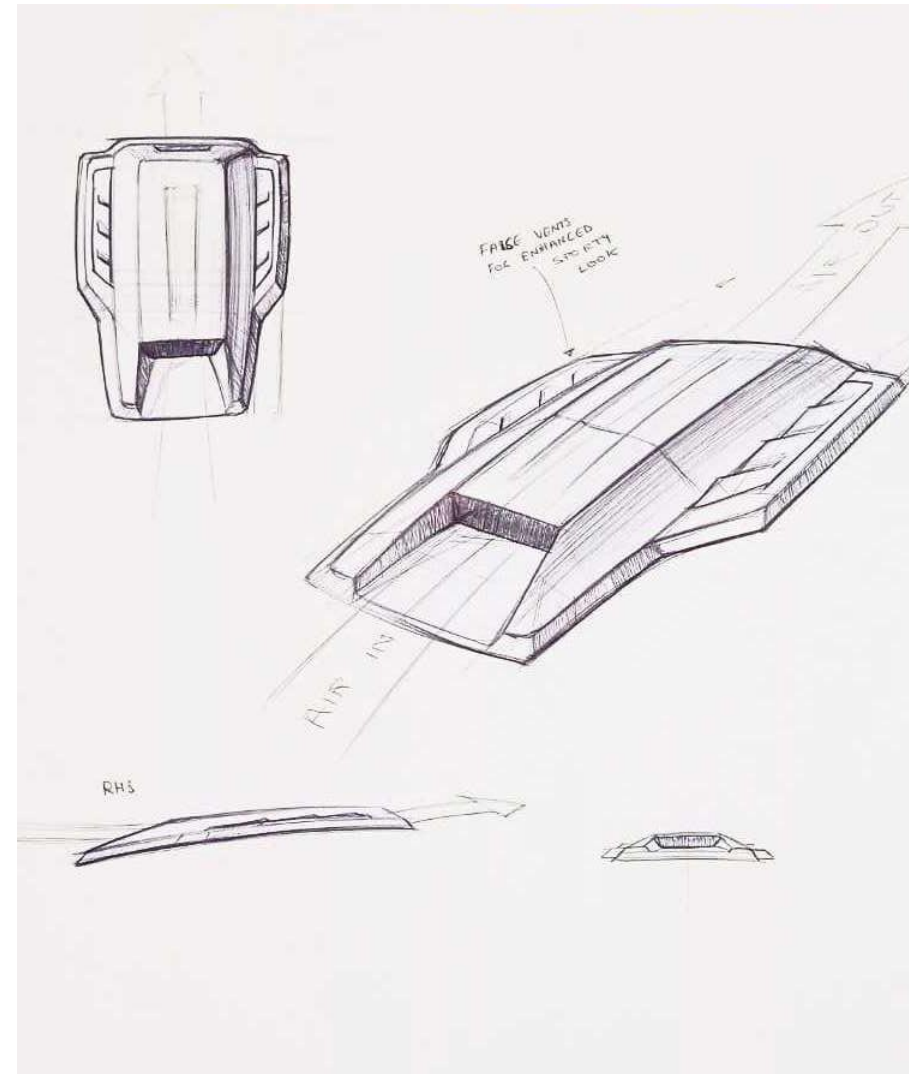
Diverts the airflow away from the windscreen

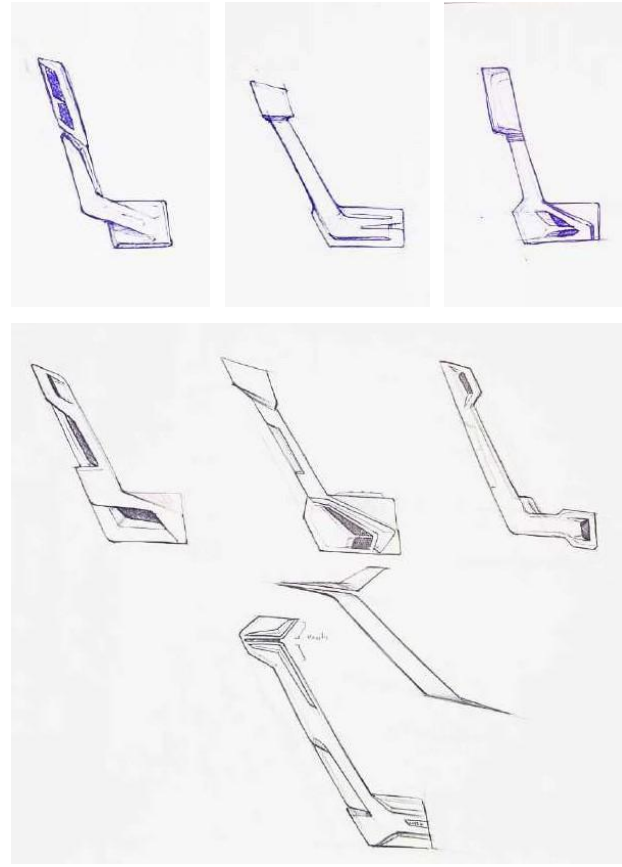




HOOD SCOOP

The hood scoop is an aesthetic add-on to the hood of the vehicle, enhancing its personality





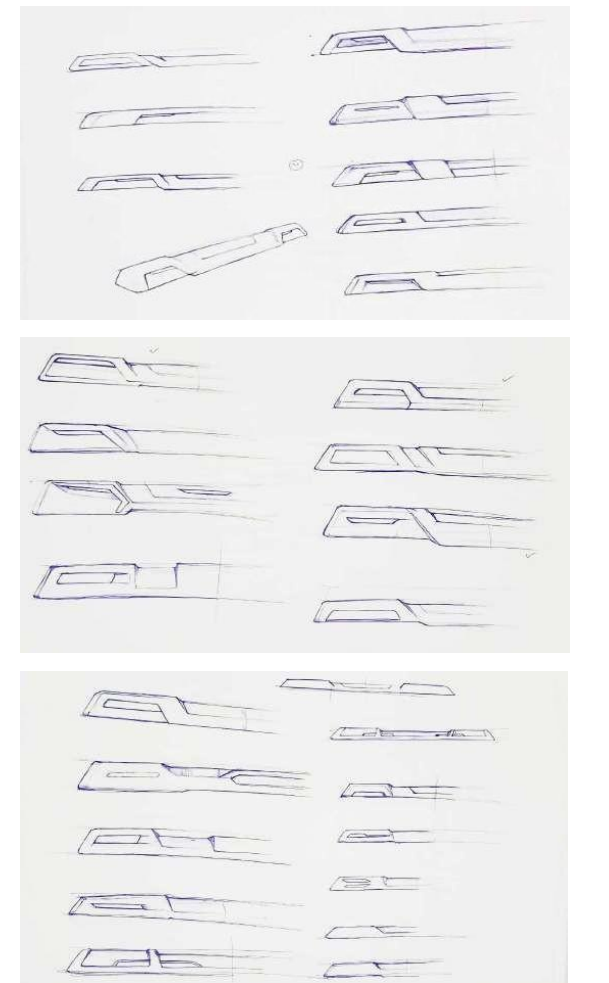
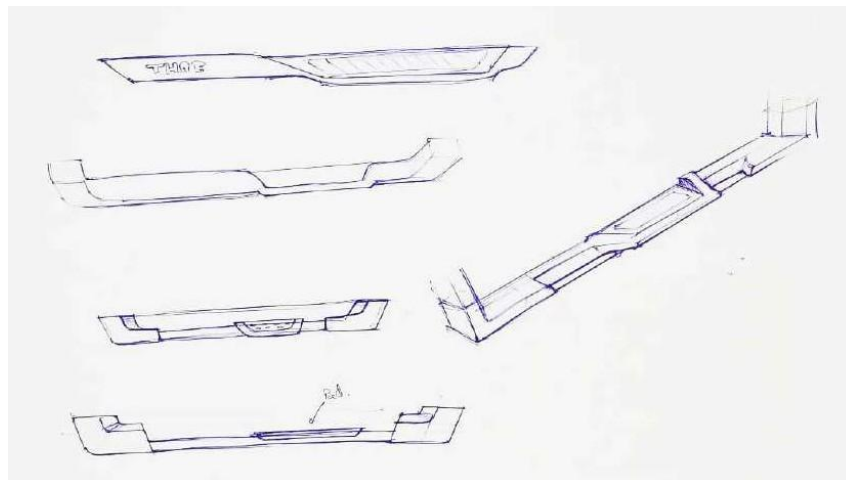
SNORKEL

A Pseudo snorkel to elevate the stance and give a sporty offroad feel.



TOP HAT

Gives a sleek and aerodynamic look



SIDESTEP

The rock slider acts as an offroad side step for a urban look yet Offroad experience

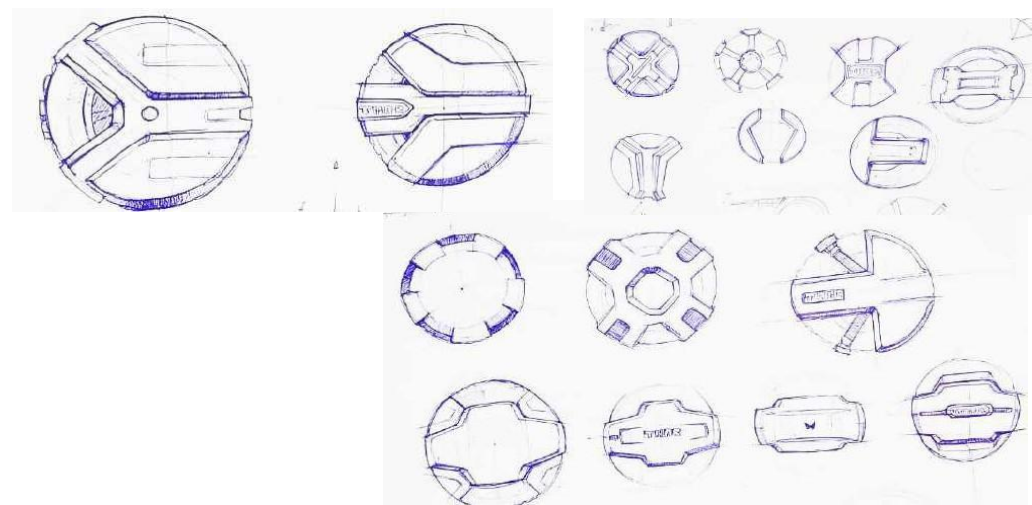
SPOILER

The spoiler continues the flow of the vehicle from the bug deflector to the Top Hat ending with the spoiler



SPARE WHEEL CAP

The wheel cap protects the spare wheel and rim from dust and corrosion, keeping it in good condition during an emergency. The cap also adds to the aesthetic and overall appeal



FINAL RENDER AND VIZUALIZATION

Visualization done on blender. Background for each scene are modelled from scratch, which includes materials and lighting

****The above project has been selected and taken forward by M-tek Engineers to be added to their portfolio of products. The final product is in the manufacturing phase and is expected to enter the market in 2025.**





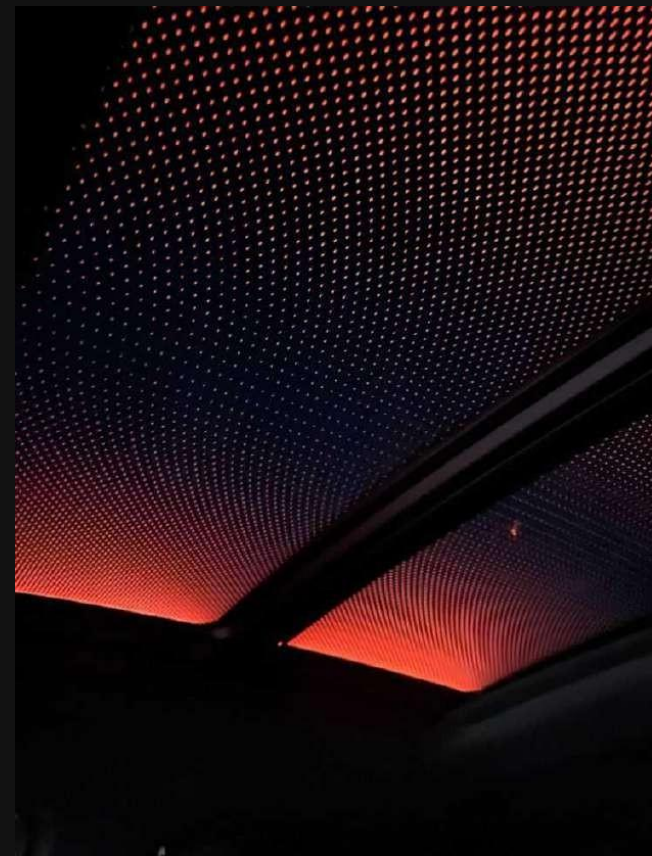




POLESTAR DRÖMMARE

The result? A futuristic Polestar that's scaled down, but loses none of its thrilling essence. This car will not just be a miniature, it's a compact dream, a vision of what an electric supercar for tomorrow could be.

05



STARLIGHT _



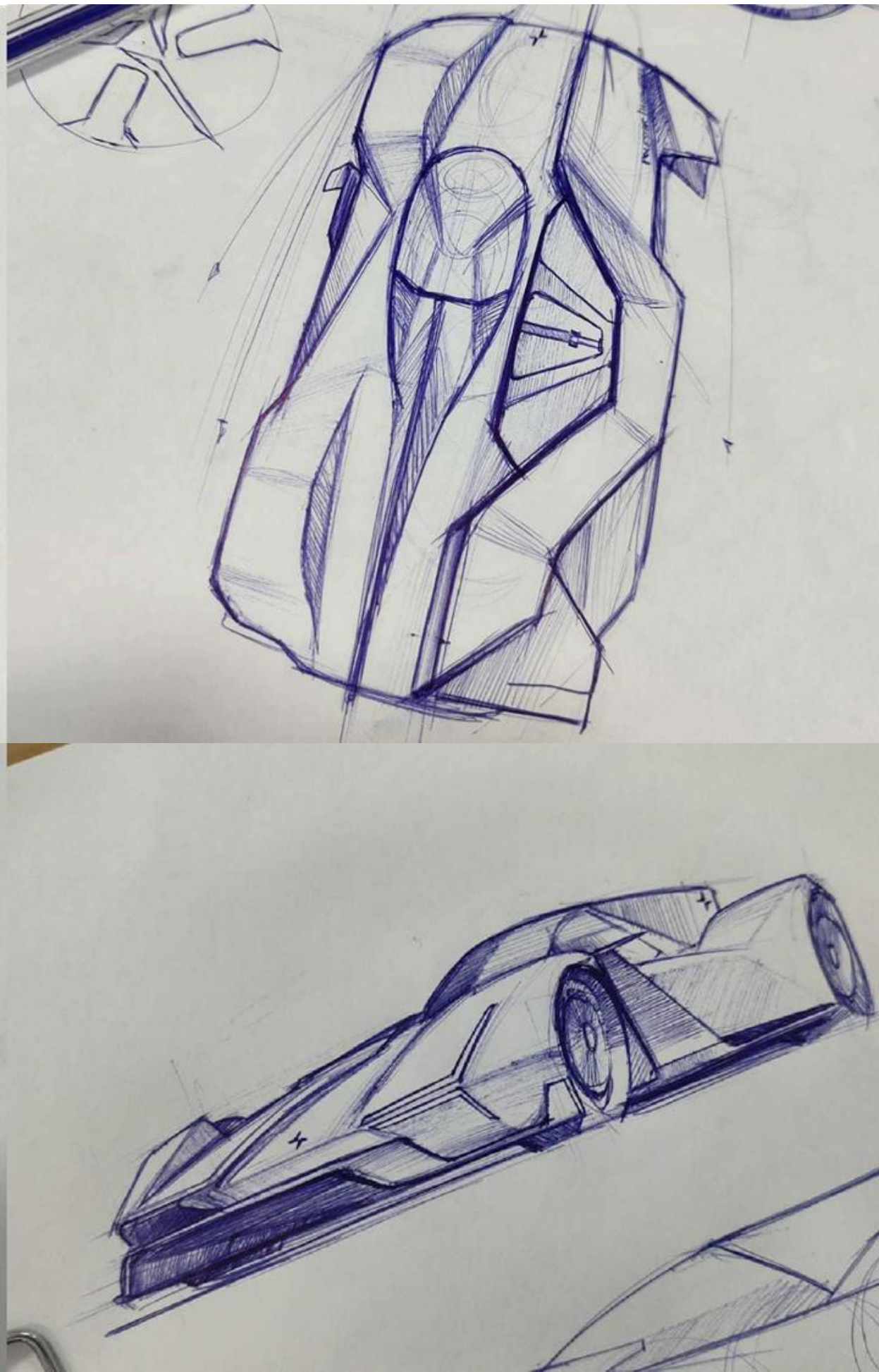
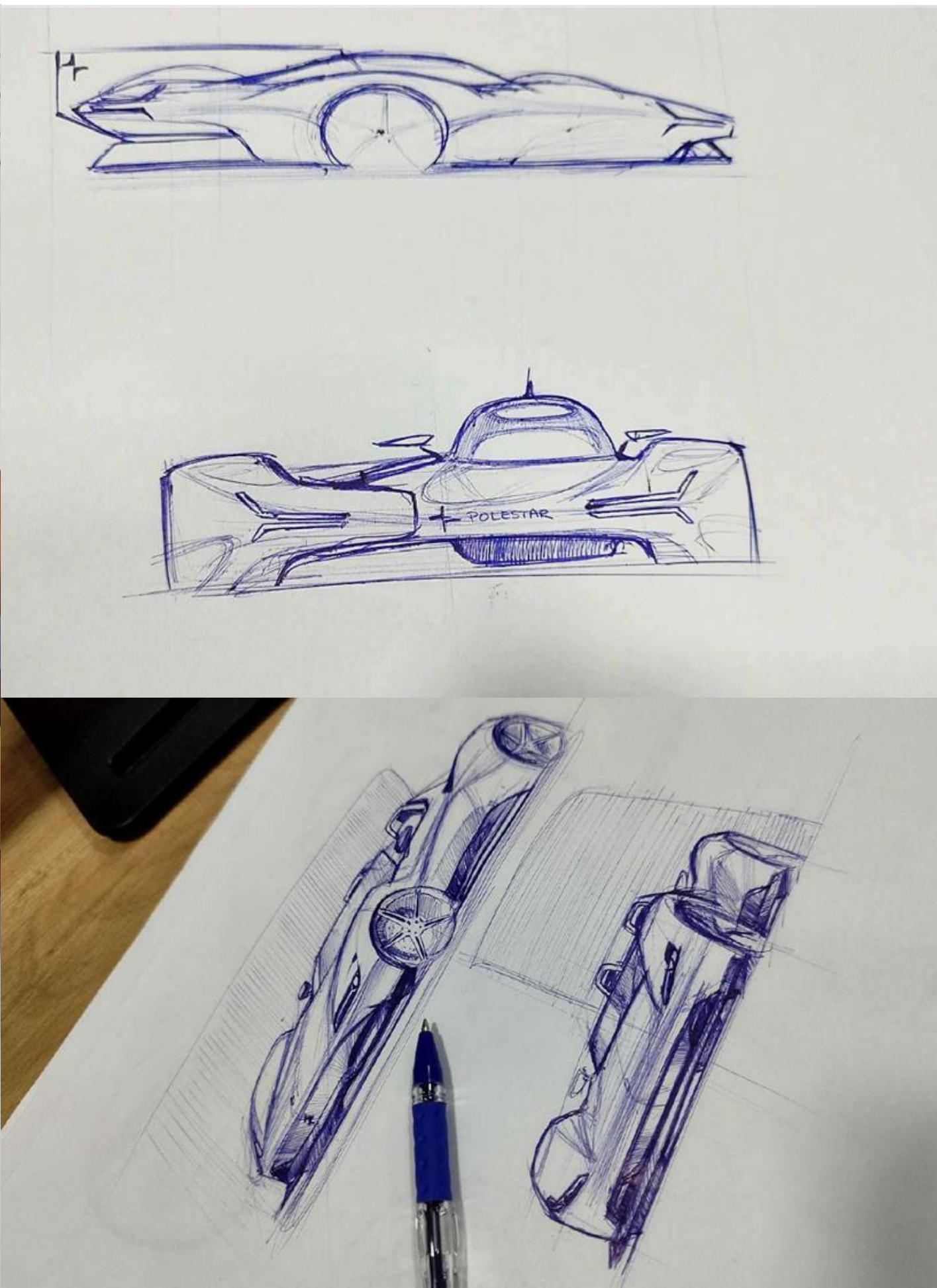
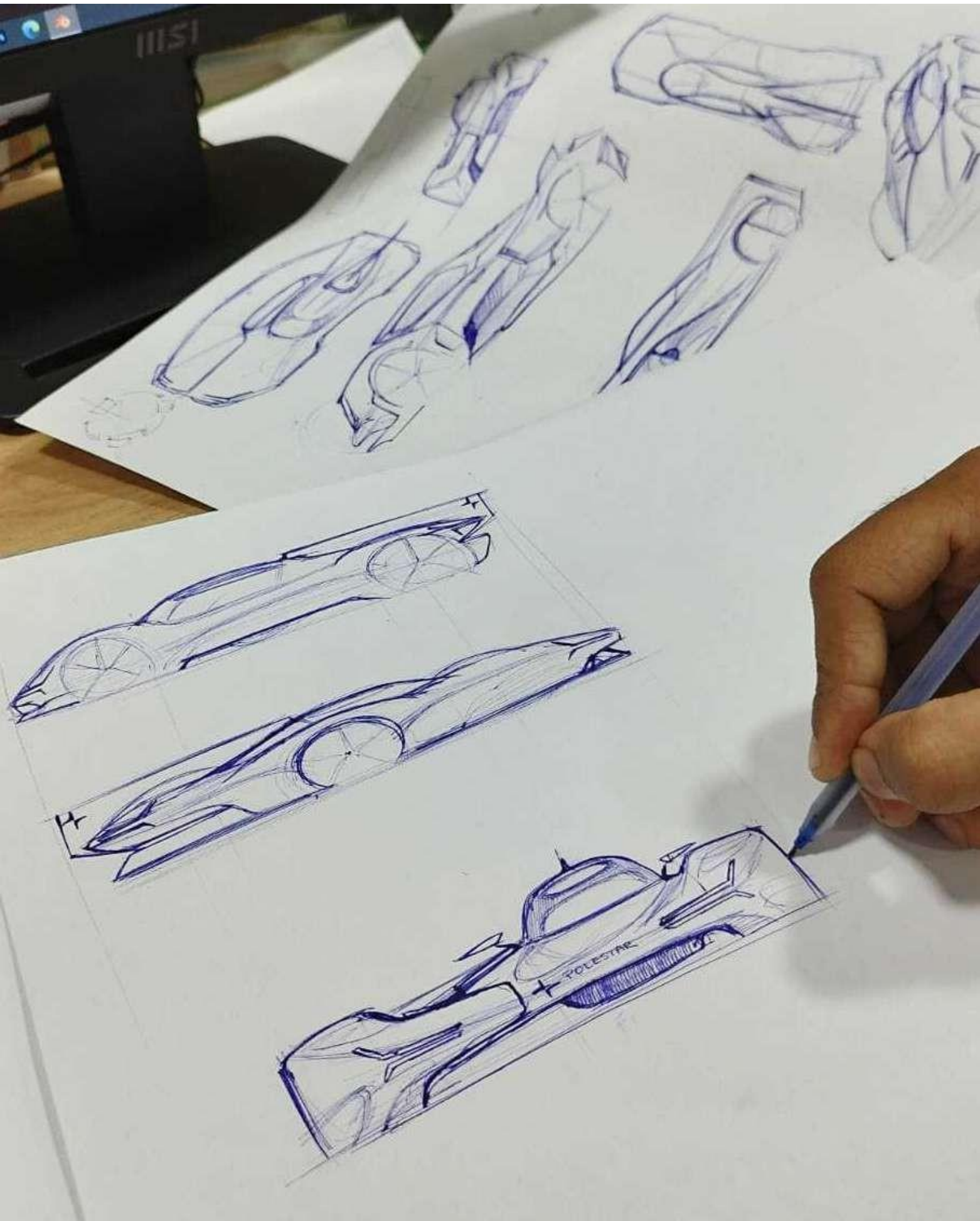
GLIDING _



Polestar "Drömmare" or Dreamer is a vision I had as a child to design a car that's exciting and different from all angels. Symmetrical is of the past. With new design processes and technologies evolving, its necessary to slowly break away from the traditional forms of the automotive industry. With Polestar's visionary designs and the unrestricted and crazy platform that Hotwheels offers, it is possible to conceive the ideas of the dreamers and visionaries all over the world, "children!"



CRISP _



The Polestar X Hot Wheels Drömmare fuses the cutting-edge performance of a Formula 1 car with the sleek aerodynamics and striking looks of a Le Mans racer. This fusion is brought to life in a daringly literal way, creating an asymmetric body structure that seamlessly blends beauty with beastly power. The result is a visually stunning, yet perfectly balanced design—bold, aggressive, and built for speed. This collaboration pushes the boundaries of automotive design, delivering a car that commands attention both on the track and in the imagination.







06

MISCELLANEOUS

A showcase of experimental automotive designs blending creativity, precision polygon modeling, and stunning visualizations. Each project pushes boundaries, exploring form, function, and the art of mobility. From concept to digital render, these works highlight a commitment to innovation in automotive design.

01. TREKKER MOBILITY

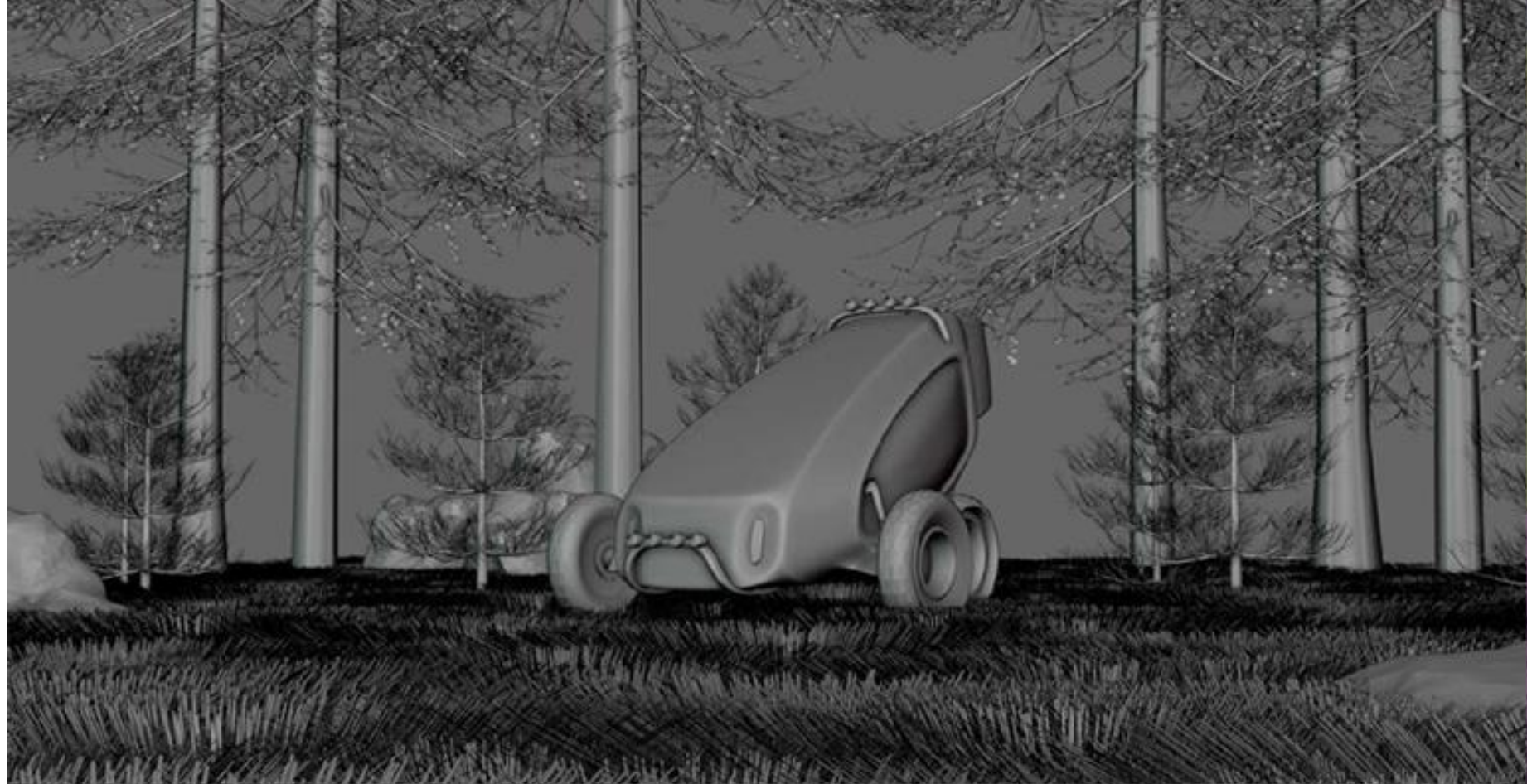
THE GOLDEN HOUR | TREKKER MICRO MOBILITY CONCEPT VISUALIZATION

INSPIRATION BOARD



TREKKER MICRO MOBILITY CONCEPT

Trekker is a compact, rugged three-wheeled micro adventure vehicle designed for solo explorers who crave freedom on the open road or off the beaten path. Built for agility and efficiency, the Trekker offers a unique blend of versatility and adventure in a single-seater design. Whether navigating city streets or venturing into rougher terrain, its lightweight frame and durable construction make it the perfect companion for those seeking thrill in tight spaces and remote locales. Get ready to embark on your next journey with the Trekker, small in size, but big on adventure.



VISUALIZATION



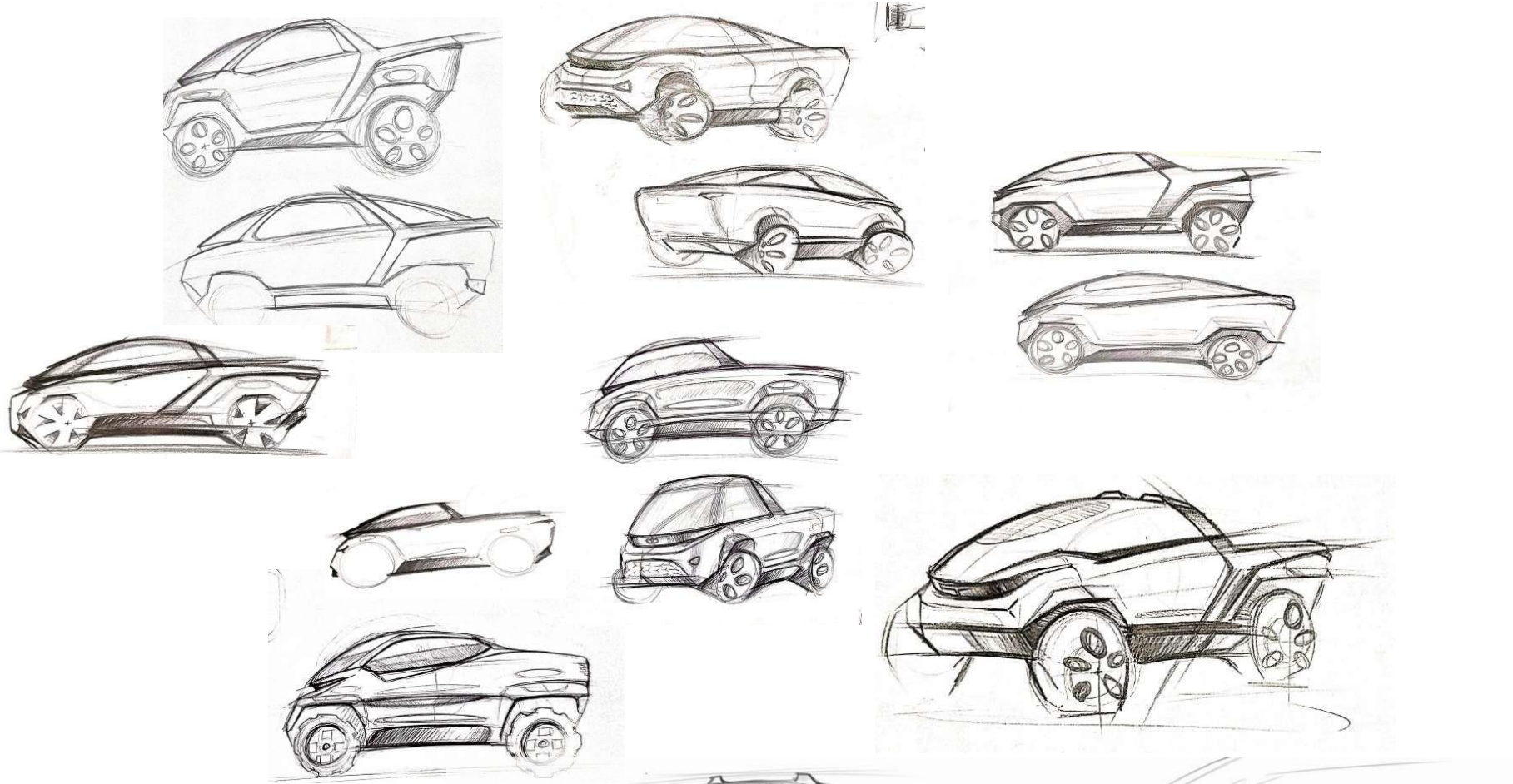
Inspired by the captivating stills of a video game, this scene harnesses the magic of the Golden Hour. Sunlight streams through the trees, casting dramatic rays that illuminate the environment with a warm, ethereal glow. To amplify the visual depth, I employed procedural generation for volumetric effects, creating a dynamic interplay of light and atmosphere that enhances the natural beauty of the scene.

02. TATA ADVENTURE

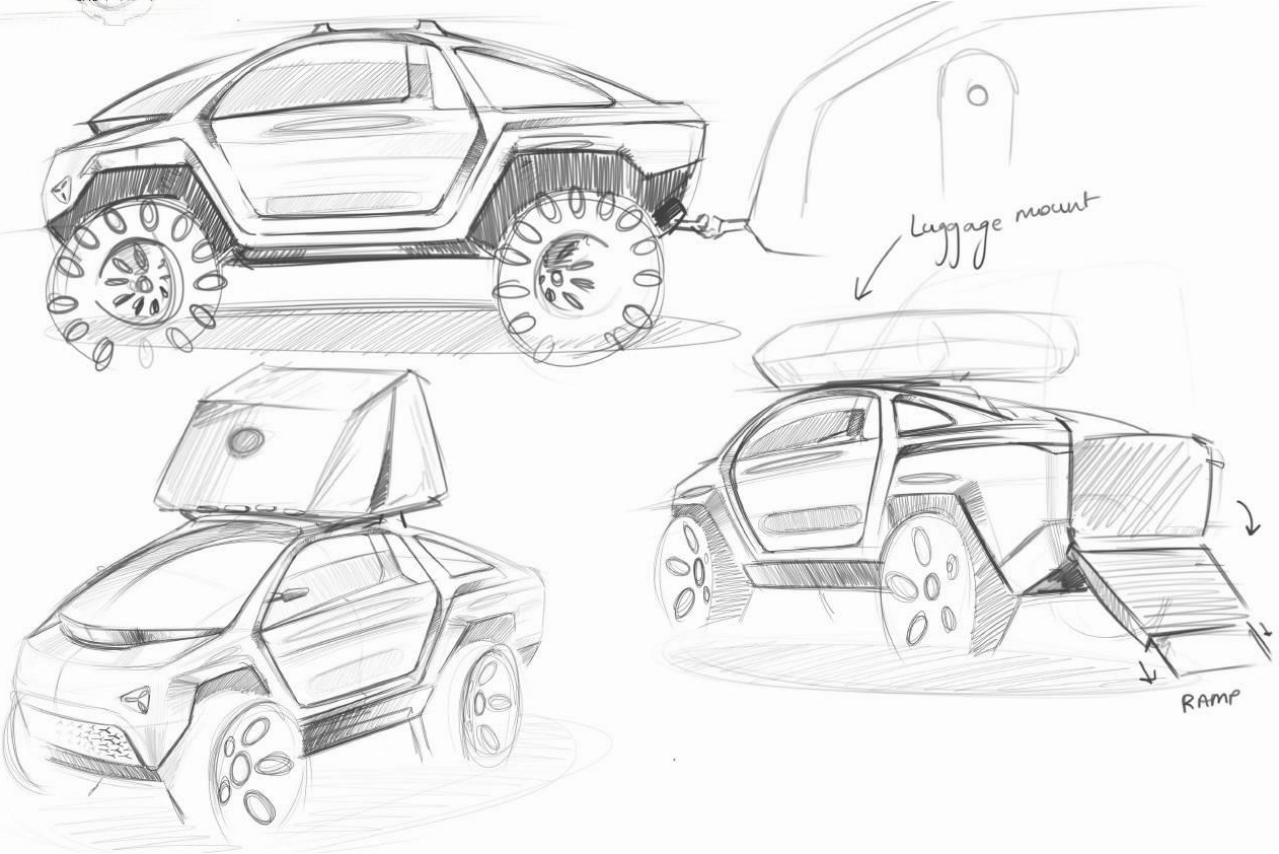
Pickup truck SUV built around the Indian road and off road conditions

To ignite a craze for pick up SUVs in the Indian market and offer a fun and adventurous vehicle for those who dare to go beyond the roads

The project lasted a duration of 2 months

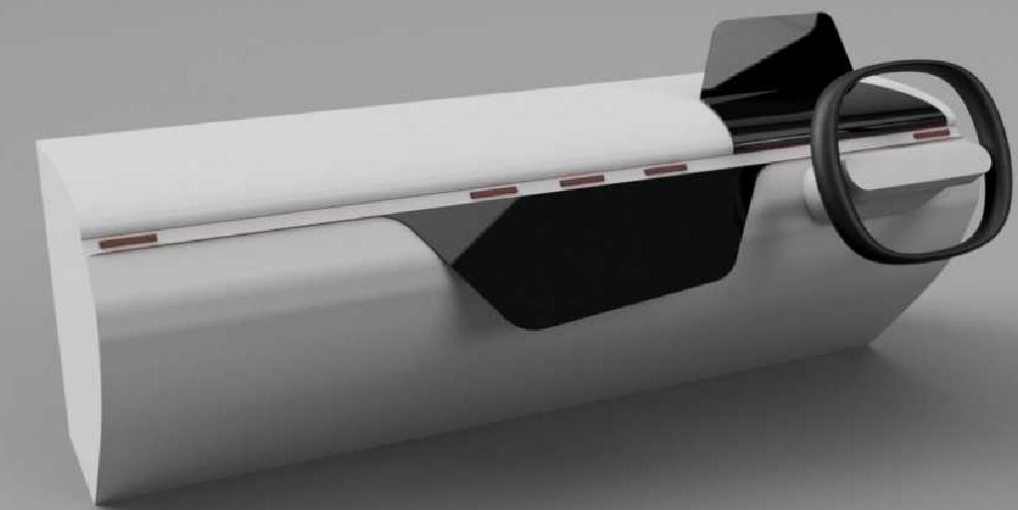
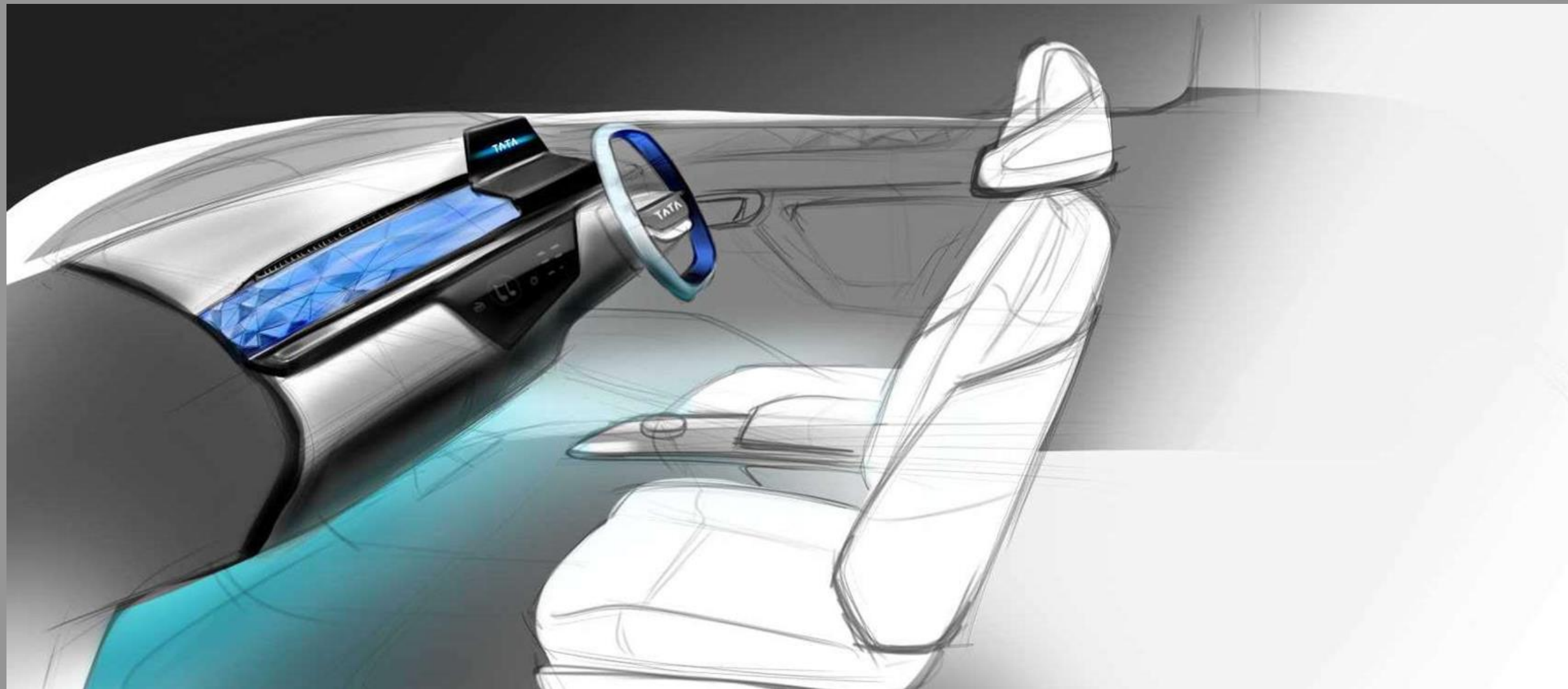
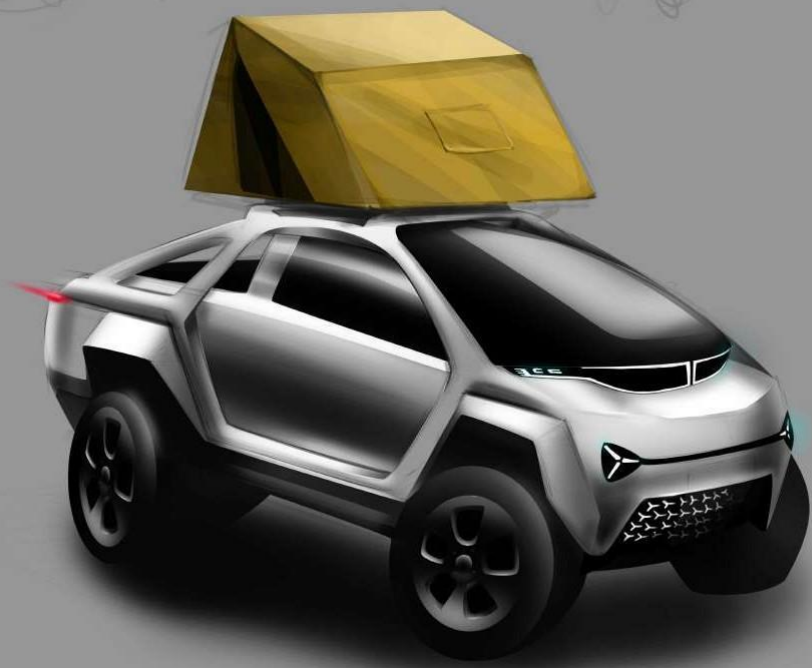


IDEATION AND SKETCHING



FLUID BUT REENFORCED

The final concept was a blend of soft surfaces protected by a hard and ridged exoskeleton giving the user a safe and secure feel whiles being in a cosy envelope



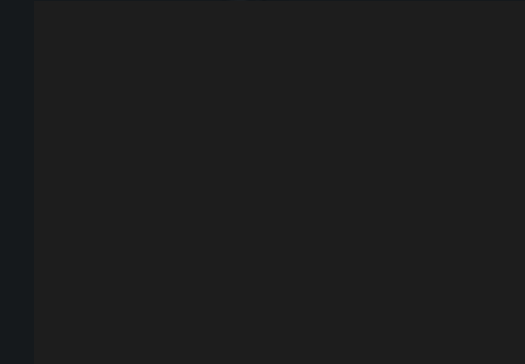
INTERIOR

A quick development of the interior was pursued, following the design language and vision that TATA Motors was going in for.

It aimed to ignite maximum senses like feel, smell and sight







THANK YOU

LET'S CONNECT! THE FUTURE AWAITS.

7888183665

alemaodesigns@gmail.com

@alemao_designs