



RTA 47

An Amphibious Desert Trike



ONE LINE DESIGN STORY / WRITE UP

A trike designed for the The Rann of Kutch, a terrain that shifts between salt desert and shallow sea. Inspired by local crafts, by flamingos, and by the sharp, aerodynamic language of Apache RTR series, the vehicle combines Tractor's torque, Sport-bike's agility, and the ability to glide through flooded plains.

KEY FEATURES

It fills the gap between the slow strength of a tractor and the limited reach of a motorcycle which offers long-range mobility for daily commuters and seasonal workers. Built for all terrains of The Rann of Kutch, and for the long-distance race held during Rann-Utsav, the design blends futurism with cultural identity while supporting the people who sustain India's salt economy.



**Aman
Sanjay Mujawar**

Institute - IIT DELHI
Category - Student
Email ID - amanbdes22@gmail.com





CRW-LR

Border Sentinel: Adaptive Patrol Vehicle for the Thar Desert Border Security Force

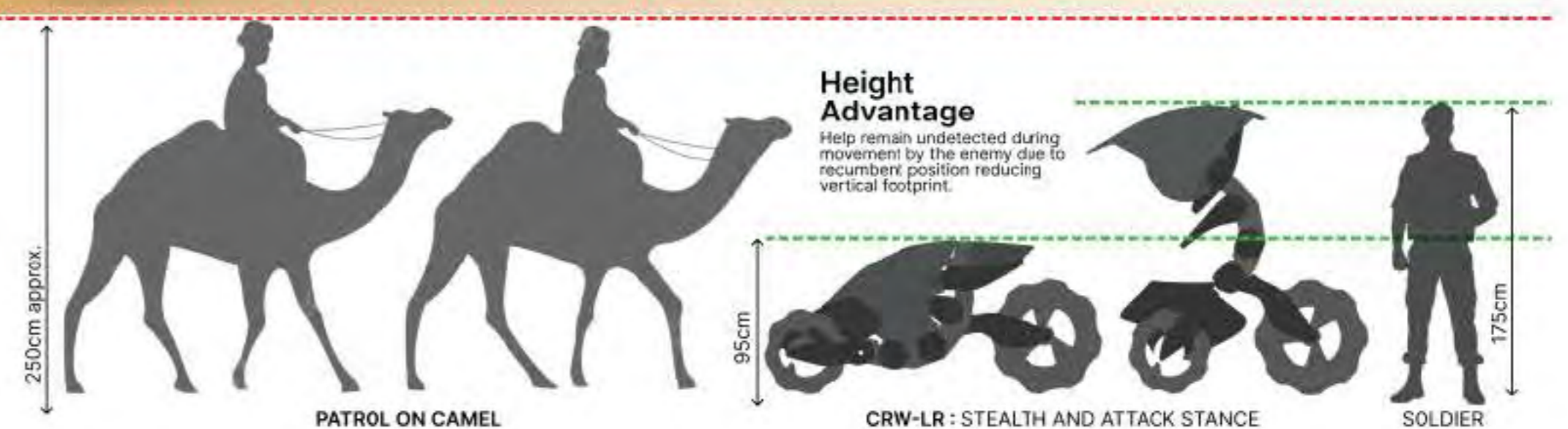


DESIGN STORY

The Thar desert of Rajasthan shares its borders with neighboring countries and our Warriors are hard at work ensuring our safety and peace. BSF use a combination of foot, vehicle, and camel-based movement. I took upon the challenge to reduce the dependency of BSF on camels for movement by developing a purpose built mobility solution that can tackle the extreme conditions on the borders of Thar desert.

KEY FEATURES

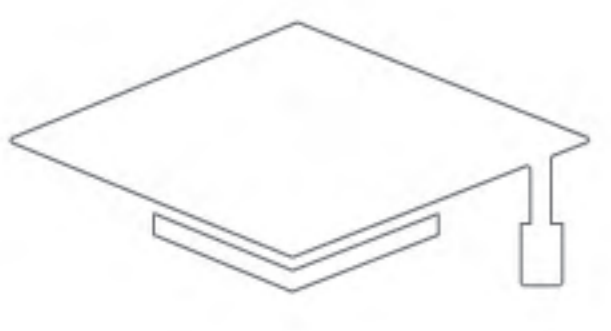
The CRW-LR features two stances. The first one being it's Attack stance, displayed when the vehicle is docked at the base and when the soldier has reached the battlefield, makes it easier and quicker for soldiers to enter with gear when compared to mounting on a camel. The second stance being Stealth, the vehicle morphs into a recumbent position which reduces the vertical footprint thus helps remain incognito during enemy encounters. CRW-LR also has swappable batteries, solar charging and Hydration packs built in to be a much versatile mobility solution at the border.



ABHIJITH MS

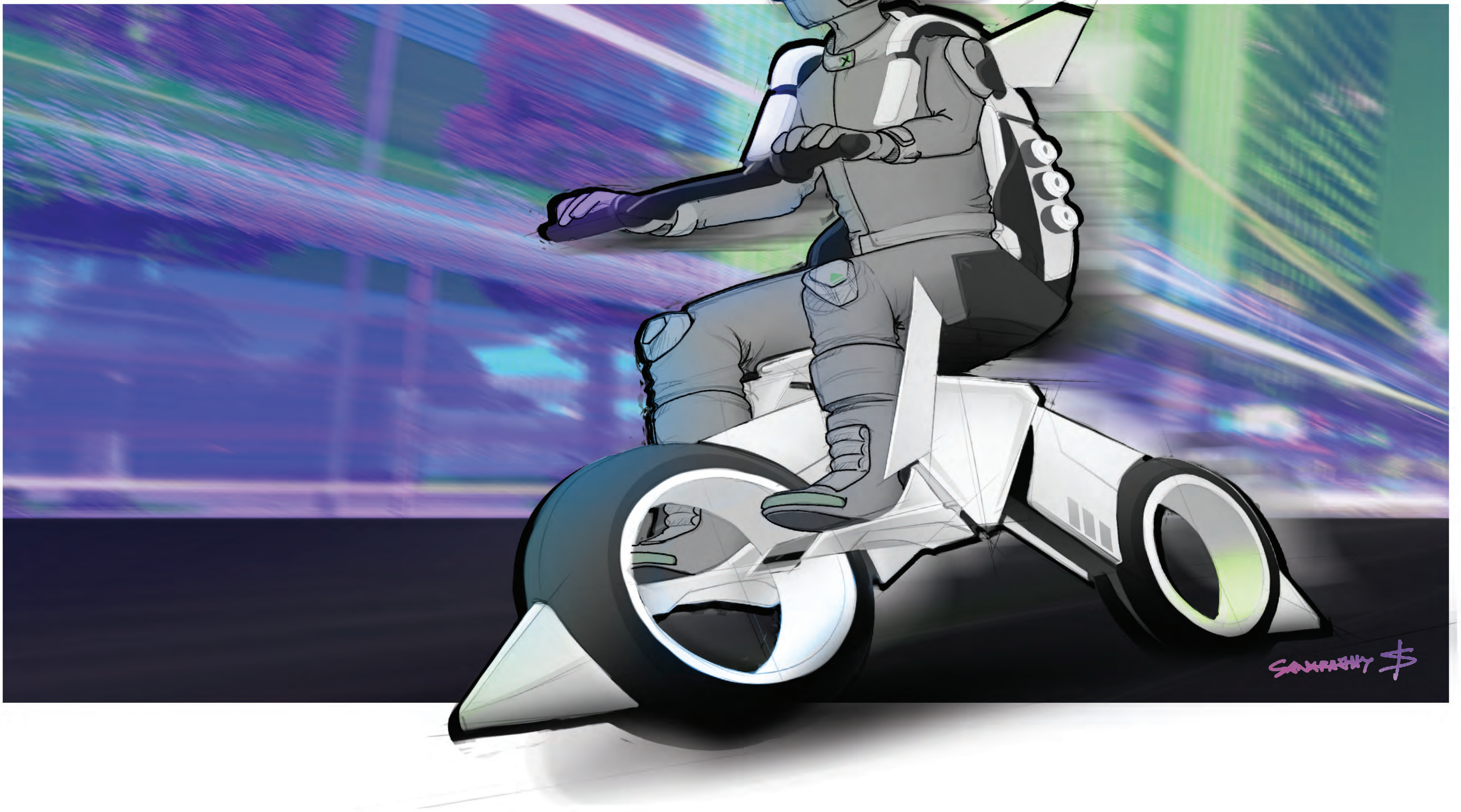
Institute - IDC IIT Bombay
Category - Design Students
Email ID - abhijithms.2010@gmail.com





EVOLV-e

Born to Transform



The concept began with a simple question

WHAT IF MOBILITY COULD EVOLVE AS QUICKLY AS WE DO?

Inspired by nature and future technology, this vehicle is made for a generation that never stays still. Its compact design moves easily through busy cities, and when roads limit freedom, it transforms to take flight.

Like a living organism, it adapts to its surroundings steady on the ground or expressive in the air. The design reflects the spirit of youth in 2047 bold, flexible, and constantly seeking new ways to experience the world.

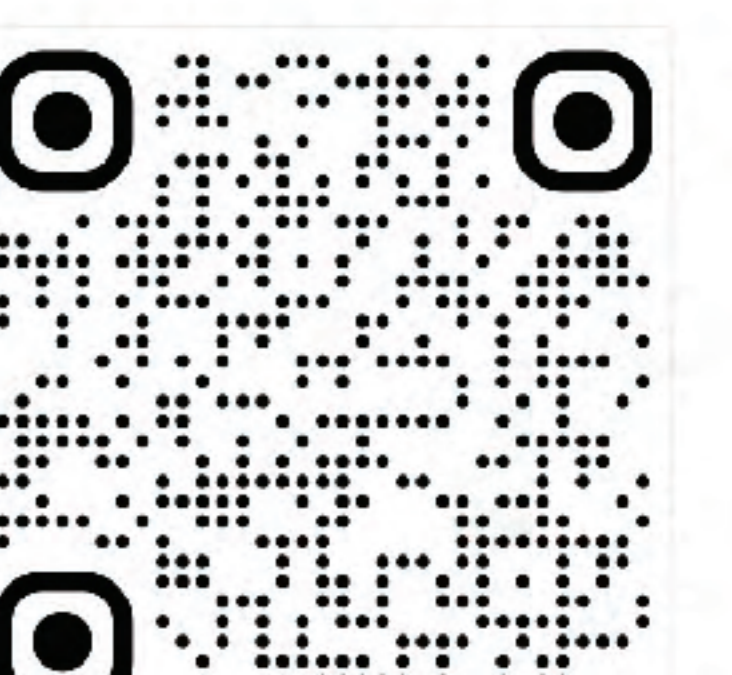


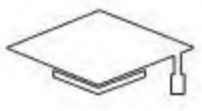
Explore Diverse Landscapes



GANAPATHY IS

Institute - Avantika University
Category - Design Student
Email ID - ganapathy.s@avantika.edu.in





G.AD

Ionized by the Ghats.



ONE LINE DESIGN STORY / WRITE UP

In 1667.... a single ride by a Maratha scout from Rajgad exposed the critical weakness of Kondhana Fort (Sinhgad), paving the way for its legendary 1670 recapture and we will be riding that exact, historic warrior's route..

KEY FEATURES

Forget gas or heavy batteries, this bike runs entirely on ionized Sahyadri salt. Just swap a cartridge for instant power. The frame is 3D-printed from local minerals, making it ultralight and easy to fix right on the trail. With suspension built for the rocks and rally-grade navigation, it's the ultimate tool for conquering the Western Ghats.



VEDANT BARVE

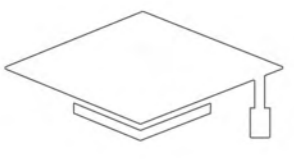
Institute - MIT Institute of Design, Pune

Category - Design Student

Email ID - vedant08barve@gmail.com



REDBOOKGUY



PROJECT TAN

Take the tangent, escape the matrix



Design Intent

In a city where every inch of space matters, this concept reimagines mobility through the armadillo's natural elegance—a TVS monowheel that folds tangentially into itself, adapting seamlessly to Mumbai's dense terrain and vertical lifestyle. Designed for the commuters of tomorrow, it merges biomimicry with intelligent engineering to offer a futuristic yet grounded vision of personal transport—a machine that moves with purpose, folds with grace, and embodies the spirit of India 2047's evolving urban rhythm.

Key Features

Tangent Fold Mechanism – Inspired by the armadillo's curl, the seat and windshield fold along a tangential axis, transforming the monowheel into a compact, elevator-friendly form.

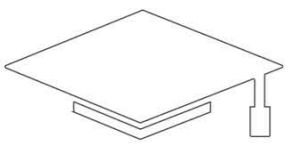
Dock & Switchable Pedal Mode – The base doubles as a smart charging dock, while switchable pedals replace footrests to enable fitness-powered riding—recharging the bike and feeding excess energy back to the grid.



Megh Bhatt

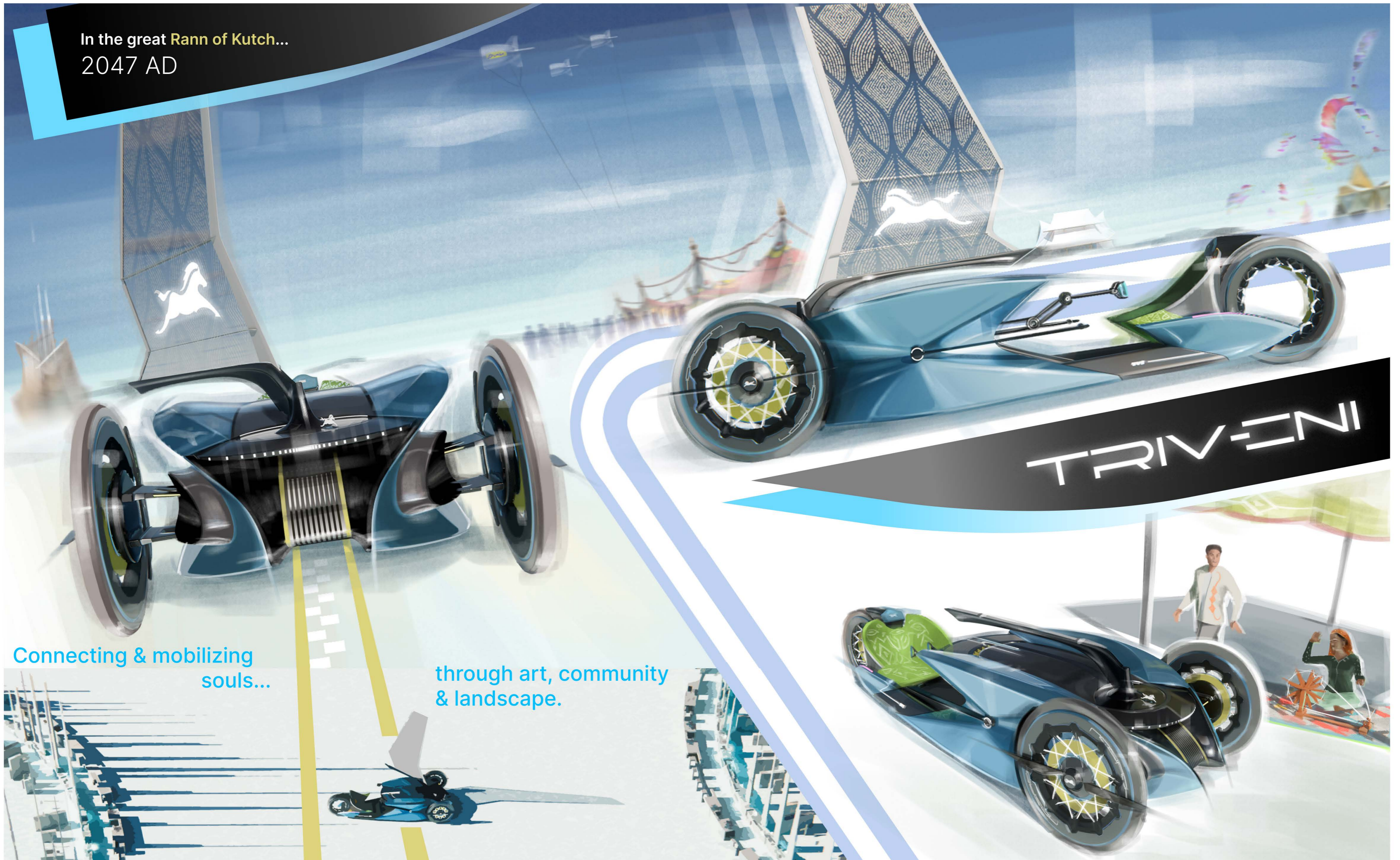
Institute - IED - Istituto Europeo di Design
Category - Design Student
Email ID - meghbhatt96@gmail.com

QR code



TRIVENI

A moving confluence of art, community & landscape



MOBILITY FOR THE CREATORS OF TOMORROW

Triveni is designed for the next shift in communal living in human society. This new way of living would be influenced by the realization of the importance of sustainability and a connection with nature as being vital to the future of humanity.

KEY FEATURES

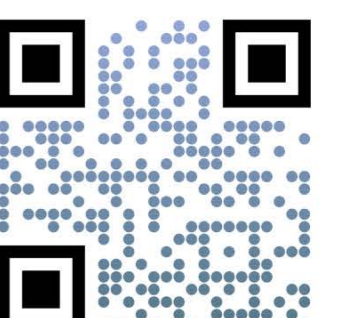
Powered by the wind and the sun, the original sources of life force on our planet, Triveni makes for the perfect solution for a vehicle made to build and sustain new frontiers in places like the Kutch salt flats.

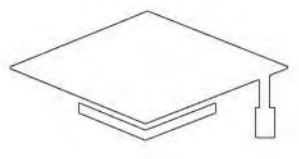
Triveni also provides the freedom and independence that an individual needs to quench their yearning for exploration. Perfect for the nomadic lifestyle of the future.



SIDDARTH S

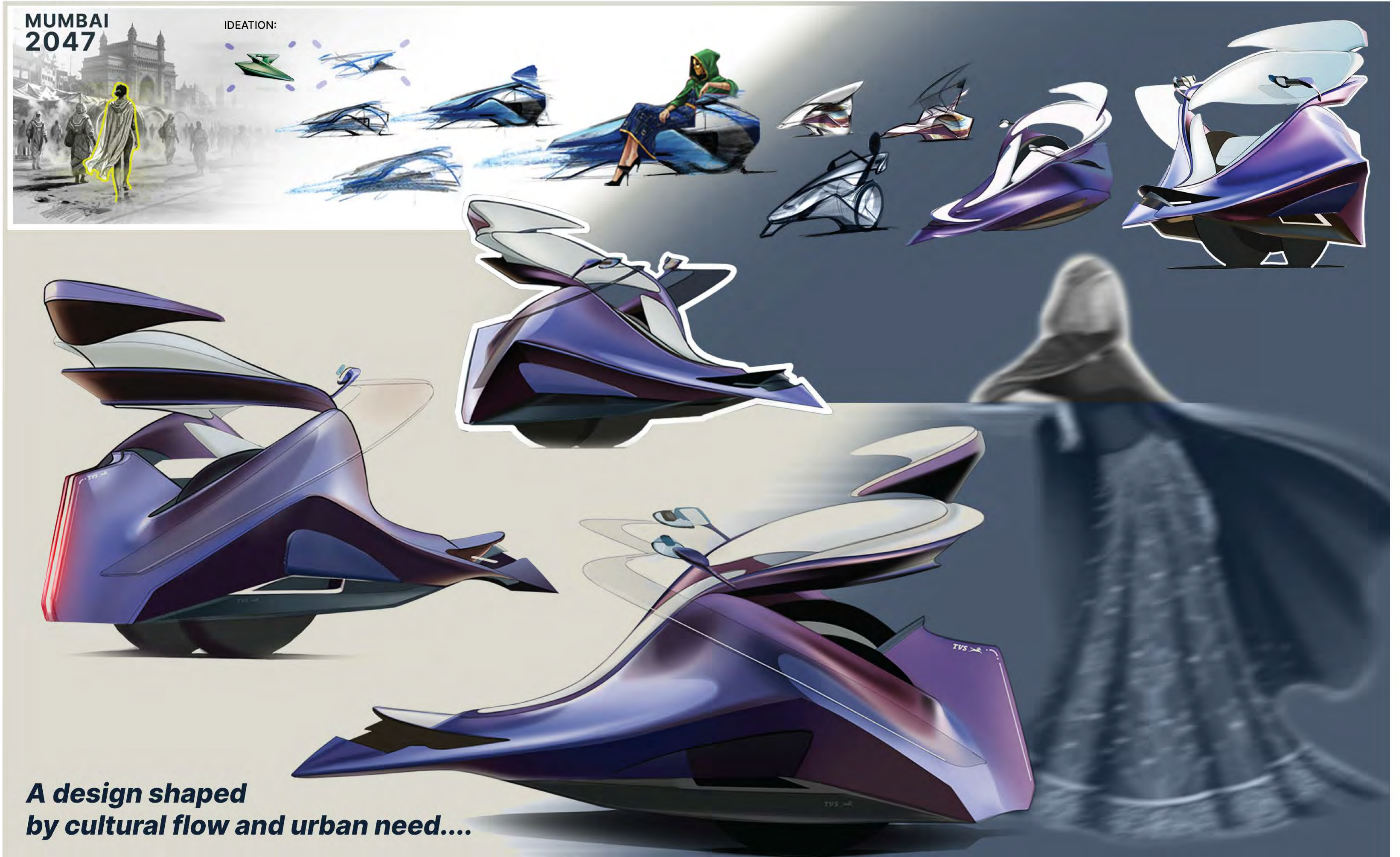
Institute - MIT Institute of Design
Category - Design Student
Email ID - ssiddarth121@gmail.com





VIRASAT

"Let your style flow."



A design shaped by cultural flow and urban need....

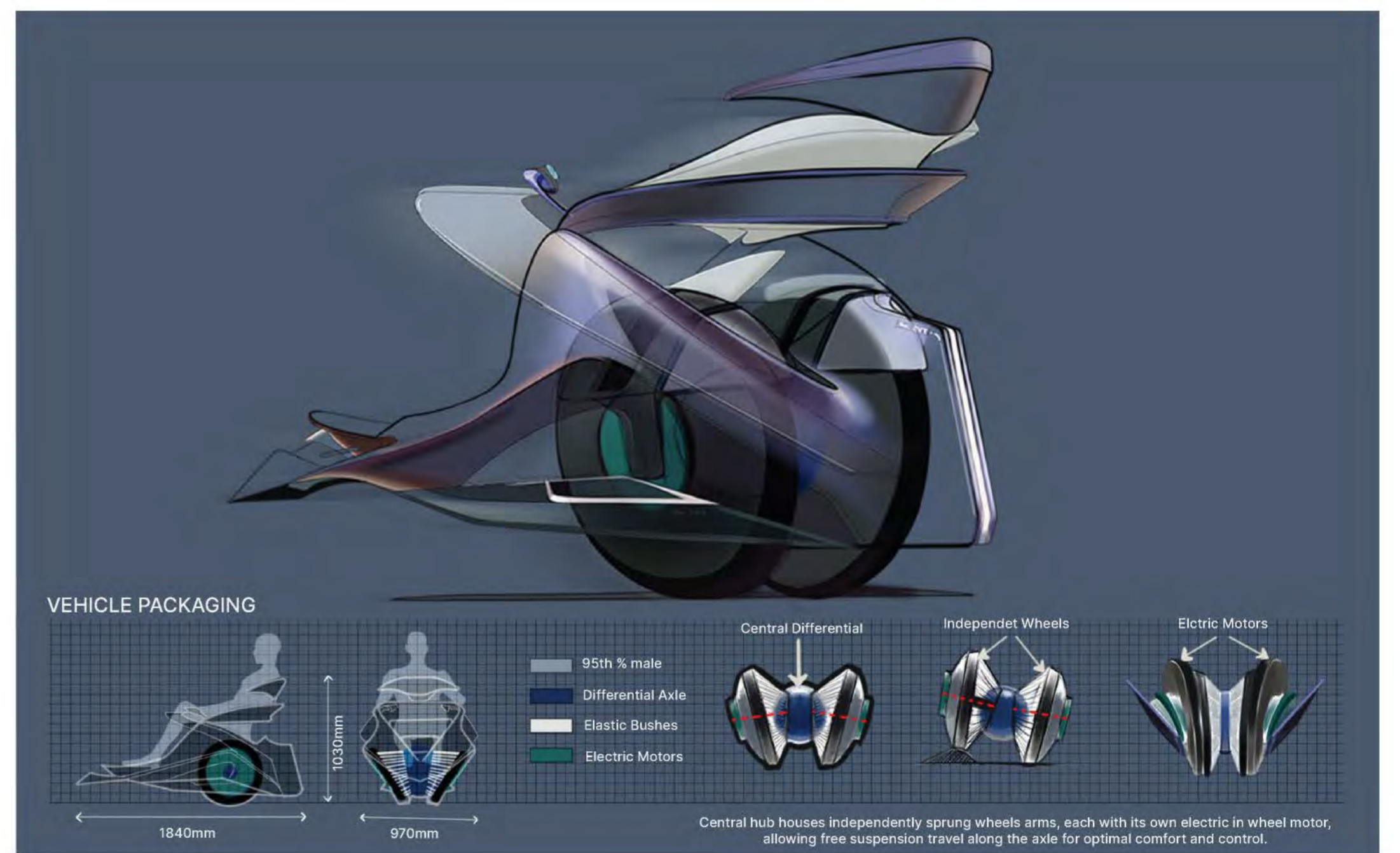
THE IDEA IN ONE GLANCE:

Mumbai 2047: a climate-strained city where heat, humidity and congestion push people toward airy, unstitched garments that shield from the sun and stay elegant. This concept reimagines mobility as a bridge between Harappan draped heritage and future urban transport, gliding through tight streets instead of fighting them. It turns everyday commuting into a quiet statement of culture, comfort and resilience.

CONCEPT HIGHLIGHTS:

The exposed frame and seat cradle subtly showcase flowing outfits instead of hiding them. Handlebars grow as an extension of the body line, echoing Mumbai's rich neo-classical curves.

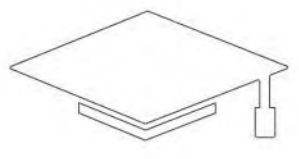
Together, the stance and silhouette evoke a contemporary chariot for the urban future. Dual-wheel hubs work like an integrated differential, enabling tight, confident turns in congested streets.



BATTULA RAKESH KUMAR

Institute - MIT Institute of Design
Category - Masters Student
Email ID - rakeshkumarbattula@gmail.com





YATRA

Explore. Score. Repeat



ONE LINE DESIGN STORY / WRITE UP

This concept transforms travel into an interactive, gamified experience where travelers actively design personalized adventures. Through engaging missions and AR challenges that blend exploration with play, users connect deeply with local people, crafts, and stories. Every moment becomes meaningful, making travel personal, playful, and purposeful turning exploration itself into a memorable story.

KEY FEATURES

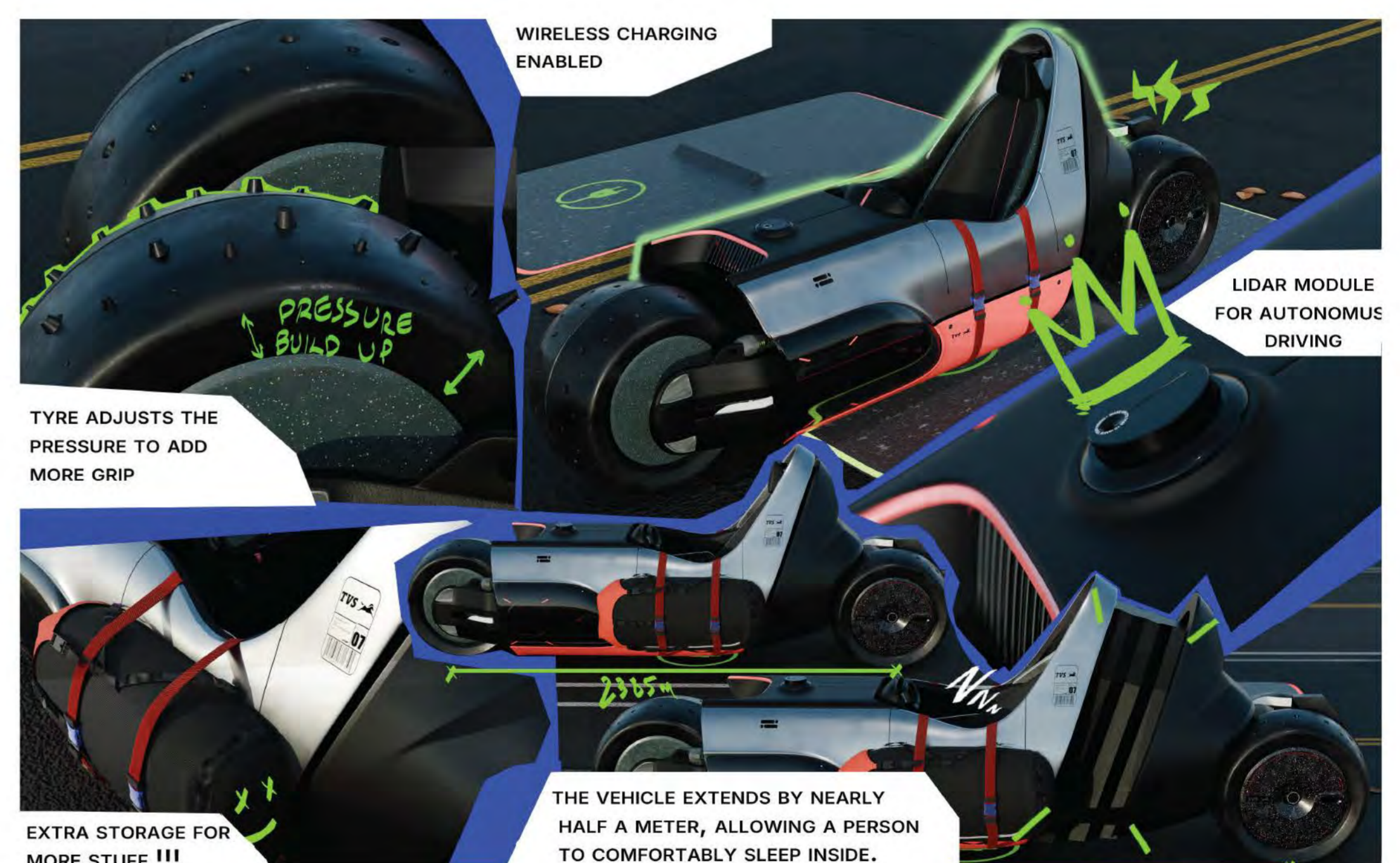
AR Capability transforms real-world exploration into a gamified adventure by merging surroundings with interactive digital challenges and clues.

Wireless charging for convenient, cable-free power transfer

Extra storage buckle for increased space efficiency

Autonomous driving capabilities for fully automated driving.

Expandable Design vehicle extends by nearly half a meter to allow comfortable sleeping space inside



IVIN DAVIS

Institute - National Institute of Design, Gandhinagar

Category -Student

Email ID -ivindaviskk@gmail.com

