

MOBISERVE

Urban Technician Mobility 2035

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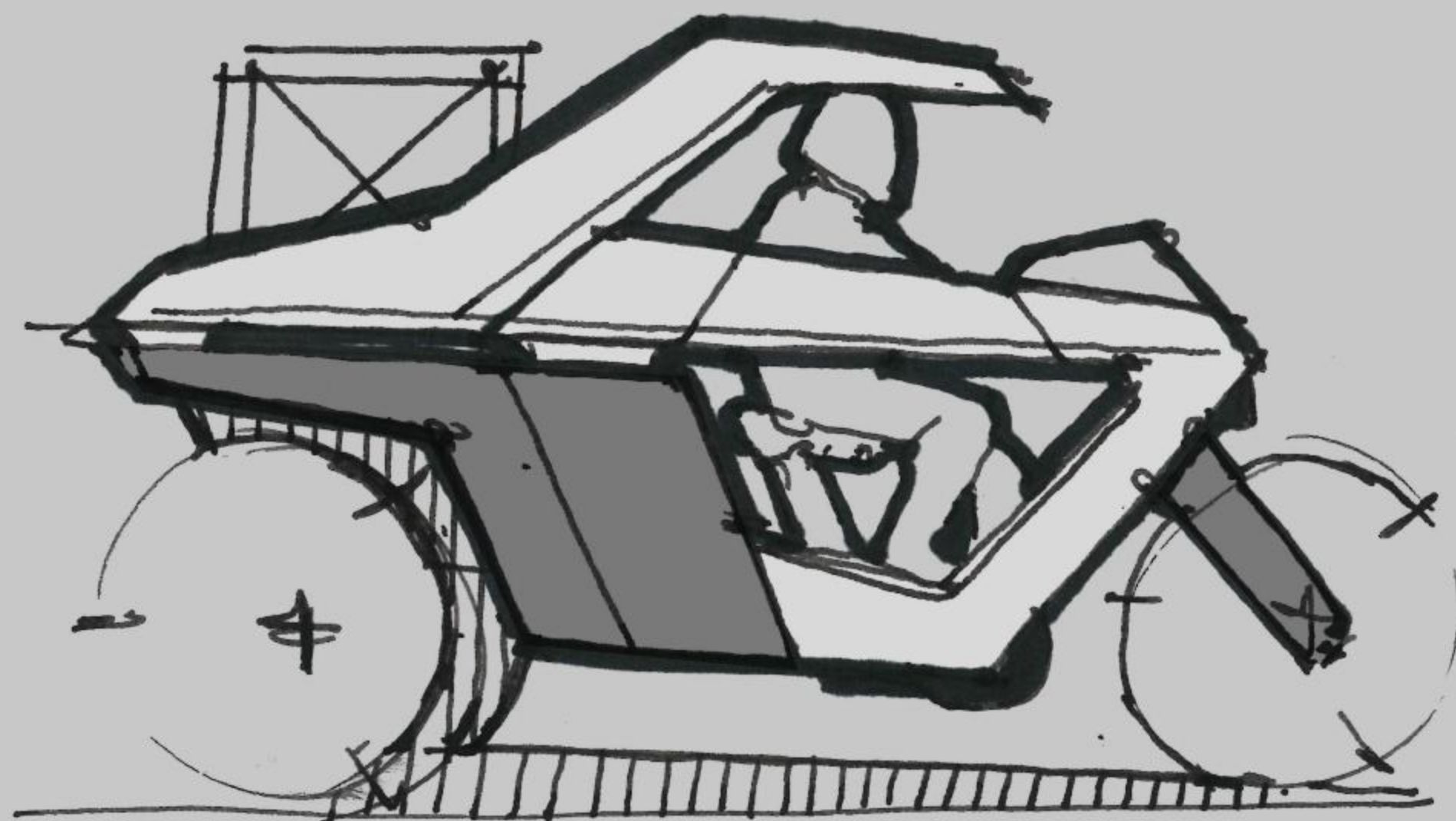


**Hochschule
Hof**

University of
Applied Sciences

BRIEFING

The central idea of "MOBISERVE" is to redefine urban technician mobility for the year 2035 by seamlessly merging heavy cargo transport with dual-passenger capability. Inspired by the urgent need to **replace bulky, emission-heavy conventional service vans**, the design principles focus on agility, sustainability, and modularity. The vehicle operates as a dynamic, dual-purpose platform, shifting between a "Cargo Mode" for one-stop appliance delivery and a "Crew Mode" for rapid team deployment, ensuring highly adaptable service operations within dense urban infrastructures.



CARGO MODE | ONE-STOP DELIVERY

This mode **combines appliance delivery and installation** into a single seamless journey. By utilizing dedicated **bike lanes**, technicians can bypass urban congestion, reduce delivery times, and eliminate the need for conventional service vans.



Length: 2.91 m
Width: 0.95 m
Wheels: 22" F / 24" R
Powertrain: Electric
Drivetrain: Pedal-by-Wire



CREW MODE | RAPID TEAM DEPLOYMENT

This mode enables **two technicians to travel together** with their essential tools, ensuring fast on-site response while **avoiding traffic delays and parking limitations** in dense urban environments.



GRAVITY RACER

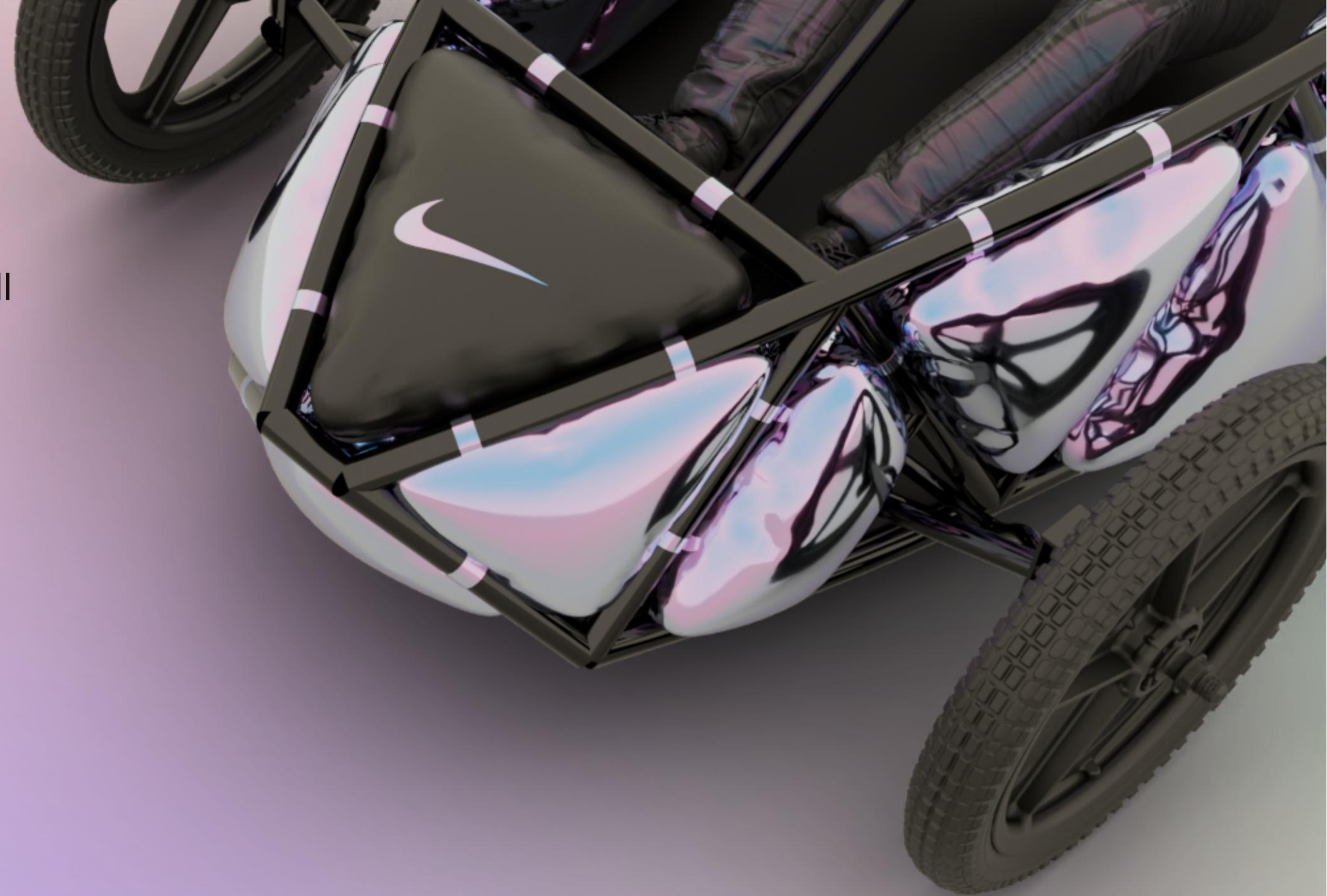


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Briefing

The aim is to design a gravity racing vehicle based on Red Bull Soapbox competition requirements, prioritizing technical design novelty over conventional theatricality.

The car should represent a non-automotive brand



Competition Rules

Brakes & Steering

Brakes independent of steering
Two-wheel braking on same axle

Driver Protection

Maximum two occupants
Rapid cockpit egress capability
Mandatory helmet and gum shield

Physical Constraints

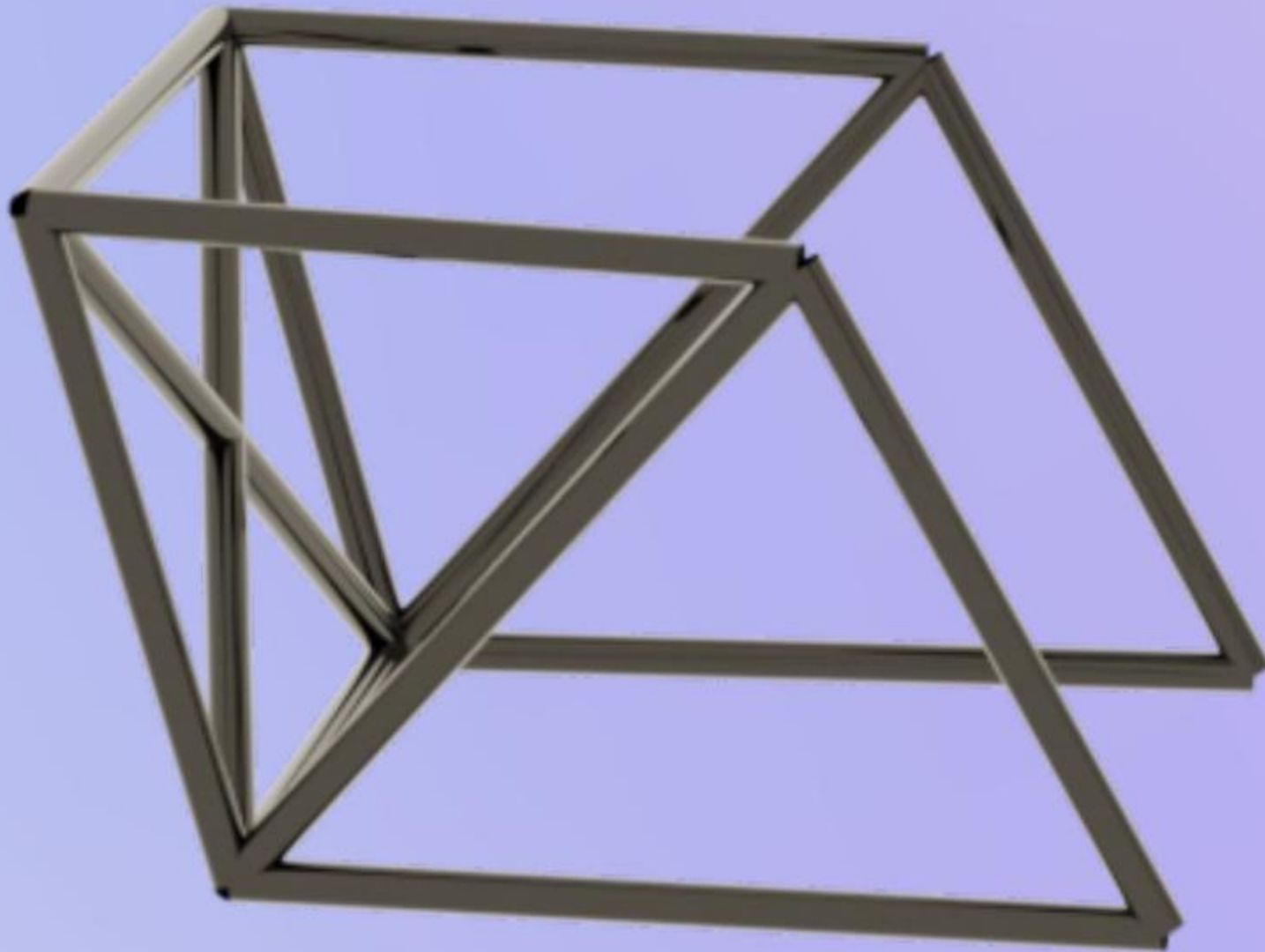
Maximum dimensions:
2m W x 2.5m T x 3.5m L
Maximum weight: 80kg (unloaded)
Ground clearance: 10cm minimum

Technical Specs

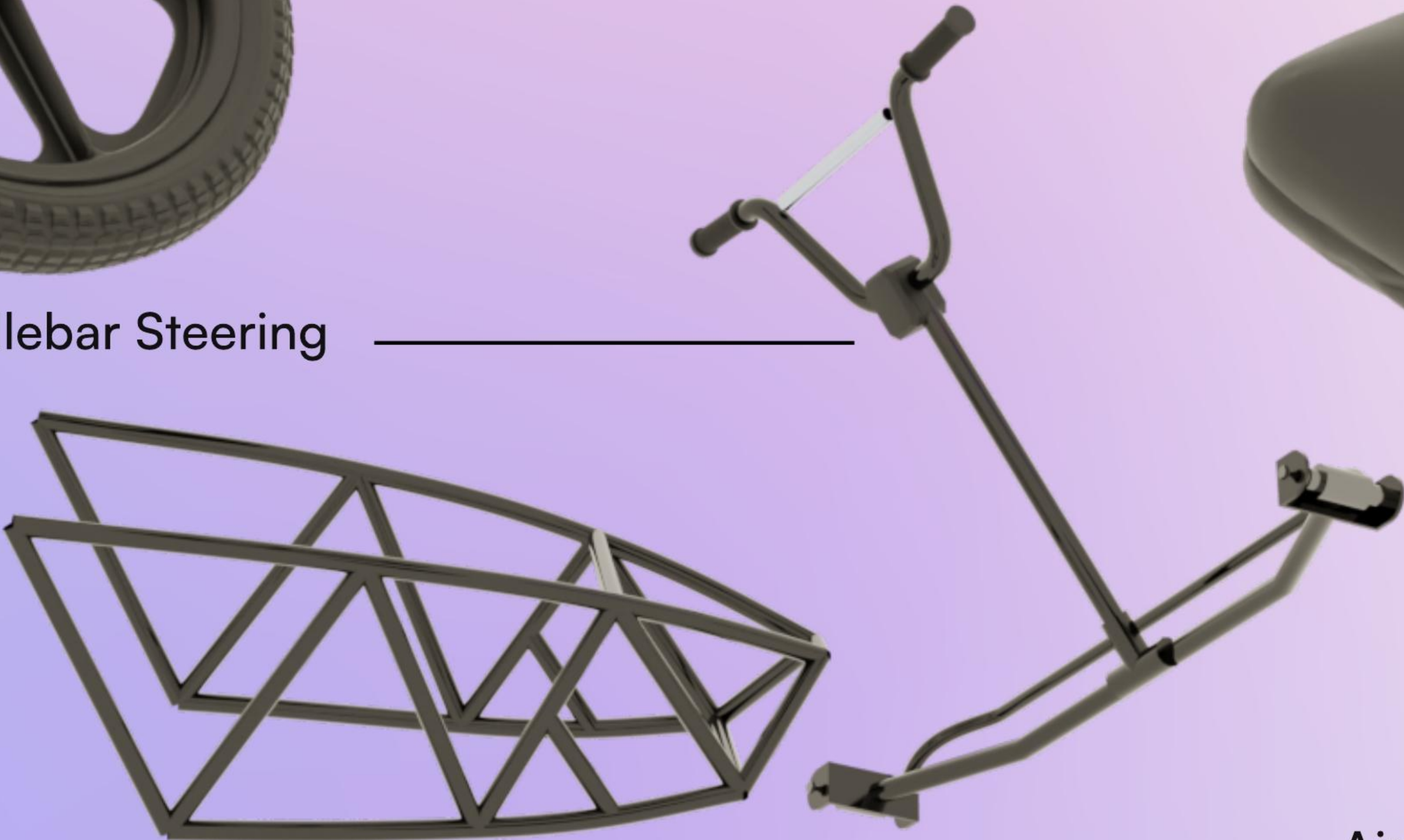
BMX MAG Wheels



Tube Frame Chassis



Handlebar Steering



Air Cushions



