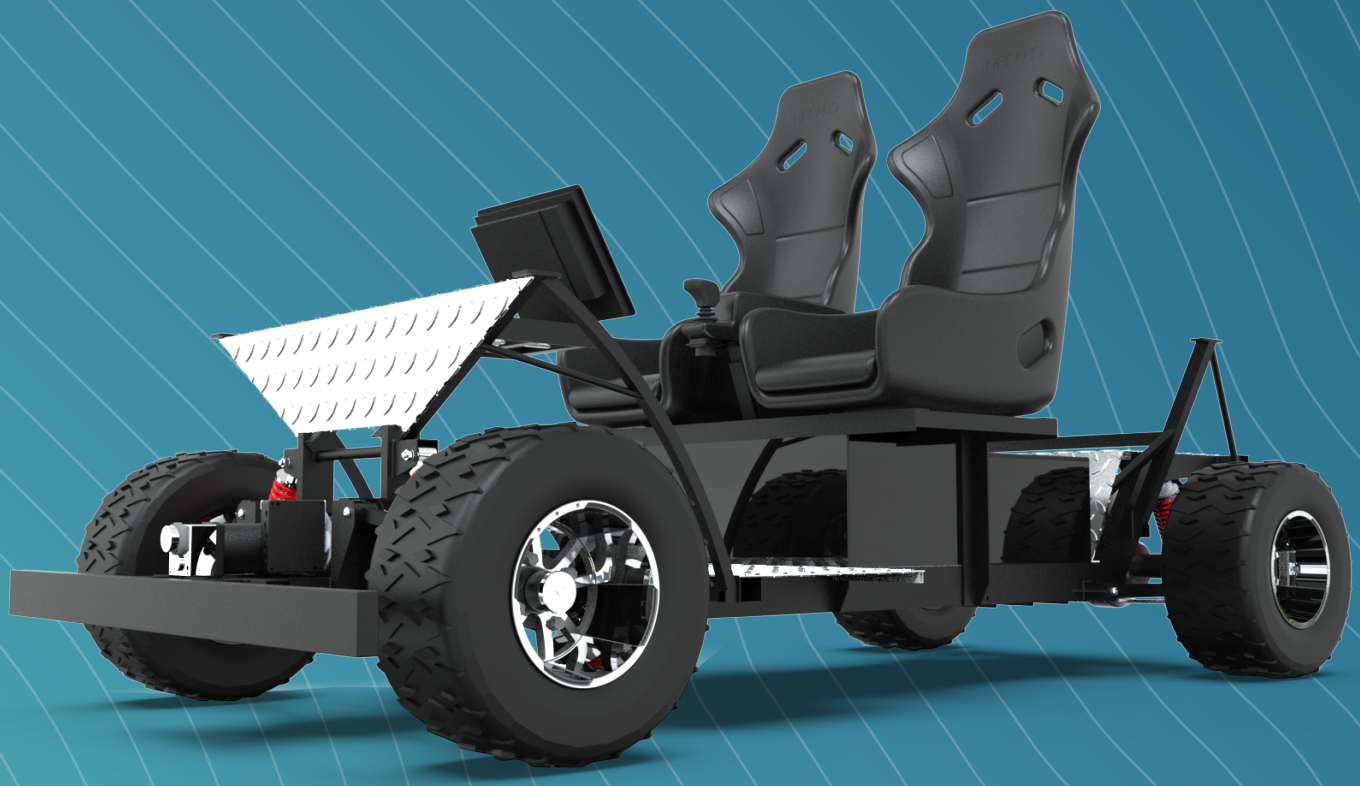
BARO ENGINEERING



Building the bridge to autonomous vehicles

BARO CAV PLATFORM

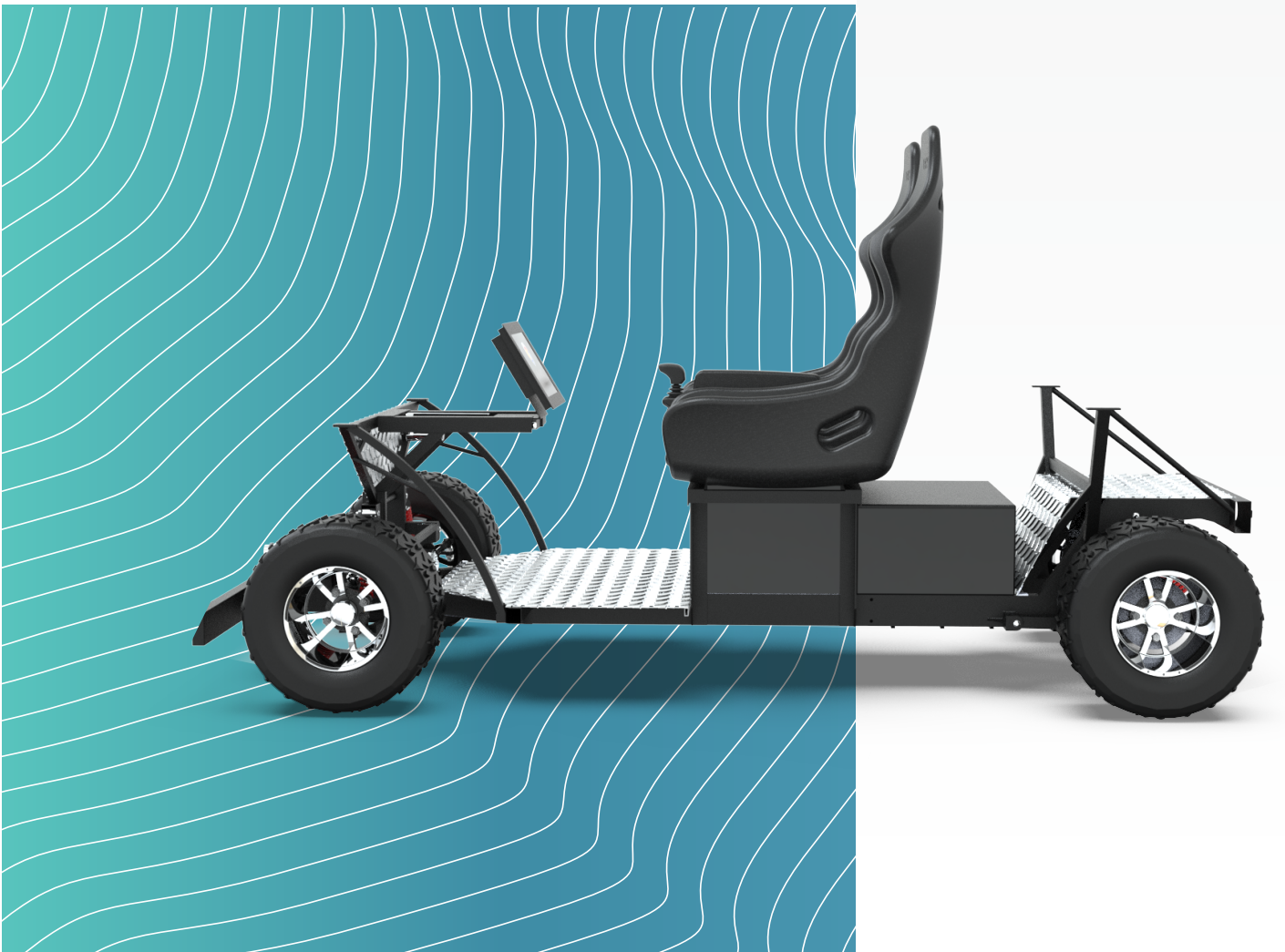
The most advanced framework in the market specifically designed to develop autonomous vehicles and robots

ABOUT BARO CAV-P

Baro CAV-P is the most advanced framework in the market specifically designed to develop autonomous vehicles and robots. This platform is a great option to whom develops software for next-generation cars and to be used as the main structure of low-speed autonomous vehicles. A complete chassis, with the ultimate engineering ready to install stand-alone software, includes a new human-machine interface with a joystick connected to an artificial brain for manual driving and a tablet that provides a visual interface integrated with the system.

Features

- Human - Machine Interface
- Special Networking
- Advanced framework



GENERAL SPECIFICATIONS

BARO ENGINEERING

Processor	◆ LITA AI Computer (NVIDIA Module)
Networking	◆ CAN-FD with encryption 5 mbits and compatible CANBUS with 1 Mbit/s ◆ BUS Ethernet Gigabit
Perception	◆ 3 Cameras FLIR with SONY senso ◆ 2 Radar operating at 68-71 gigahertz in front and rear connected by CAN-FD ◆ Optional LiDAR 16/32 Beams with 360-degree coverage ◆ GPS Ublox and IMU
HMI (Human - Machine Interface)	◆ Joystick connected with CANBUS ◆ Tablet 12” with graphical software to show how the car is receiving the information
Mechatronic	◆ BARO Drive-by-wire system with CAN-FD interface and steering angle sensor ◆ Digital Pedals to control the accelerator and brake with CAN-FD Interface and speed sensor ◆ Lights controller with CAN-FD Interface
Power Supply / Drive Train	◆ Motor: Permanent magnet axial flux DC· ◆ Output rating: 8.6 kW· ◆ Batteries: Lithium-Ion pack with BMS· ◆ Transaxle: Oerlikon Graziano - Two step reduction
Mechanical Platform	◆ Steering: Rack and pinion with the electric motor. Drive by wire system· ◆ Front suspension: Double wishbone suspension, with automotive parts and coil overs· ◆ Rear suspension: Rear axle mounted with trailing links, Panhard bar and automotive shock absorbers/coil springs· ◆ Service Brake: Regenerative braking system· ◆ Parking Brake: Automatic Electro-Magnetic & Brake Drums

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