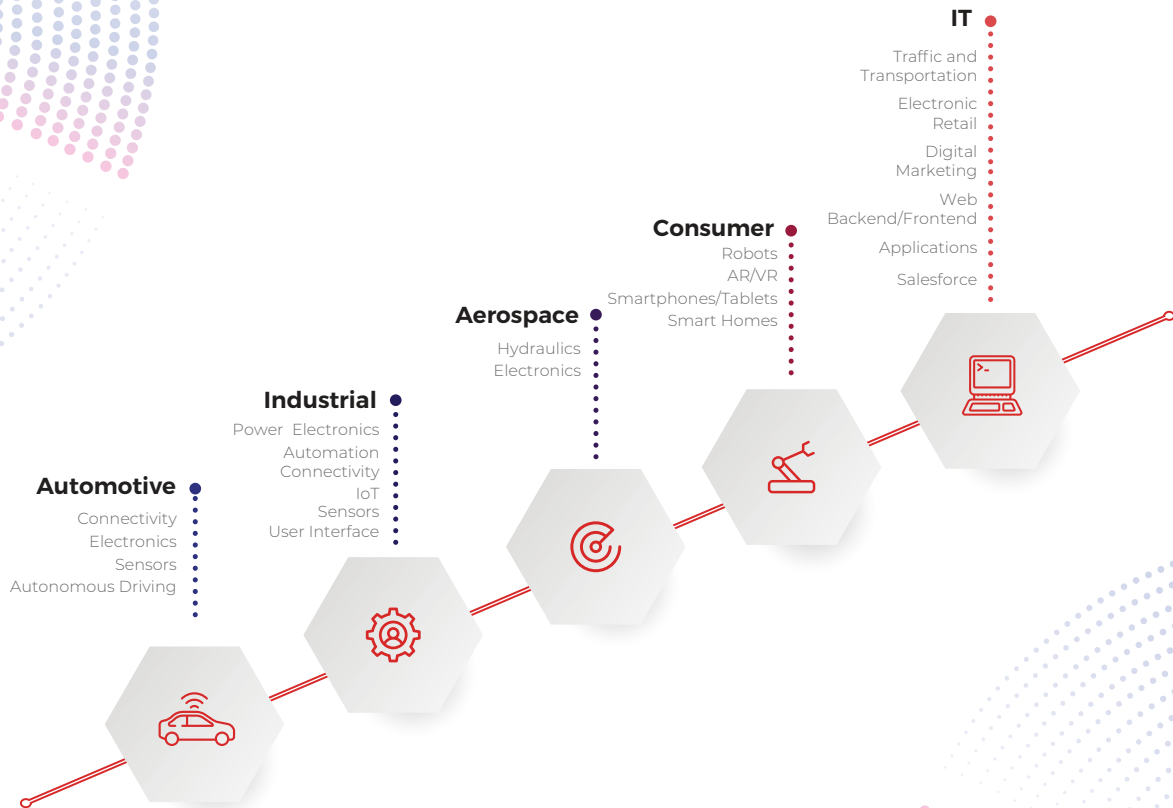


HIGH TECH ENGINEERING SERVICES

OUR INDUSTRIES



OUR ENGINEERING EXPERIENCE

Embedded Systems

- Embedded - HW, FW and SW Design
- Embedded Systems Testing
- Demonstrators and Prototyping
- Product Design

AMS & RF & mmWave IC Design

- System Design
- AMS IC Design
- RF & mmWave IC Design
- IC Verification

mmWave Antenna and PCB Designs

- Planar and metallic antenna systems
- μ Wave and mmWave Transitions and Packaging
- 3D-model lump extractions
- 3D EMC & Field Propagation Design
- Antenna Design and Validation

SoC FPGA & ASIC & DSP

- Modelling
- RTL Design and Simulation
- ASIC & FPGA Implementation Chain
- SW Development and Testing Tools
- Verification & Validation

Mechanical Engineering

- Design and Modelling
- Design and Calculations
- Simulations
- PLM

SW Services

- Machine Learning
- IoT with Cloud Full Stack Development
- Mobile/Web DevOps

COMPETENCIES IN DETAIL

AUTOMOTIVE

ELECTRONICS

ECU Diesel Engine
Seat Electronics
Steering

AUTONOMOUS DRIVING

Blind Spot Detection
Autonomous Parking

SENSORS

Radar sensor
Battery management sensors
Ultrasound sensor
Data logger
Tire pressure measurement
MEMS

CONNECTIVITY

Wired and Wireless
DAB Receiver
LIN and CAN buses
Power Line Communication for battery charging

INDUSTRIAL

POWER ELECTRONICS

Hardware in Loop systems
Motor control units
Operational technology
Electrical Machines

IoT

Remote metering units telemetry
Support for cloud infrastructure

SENSORS

Radar sensor, Encoder processing unit, ToF, Flow metering, Hall Sensor, MEMS sensor

CONNECTIVITY

Power Line Communication
802.11xx customization
Bluetooth

USER INTERFACE

HMI
Industrial keyboard
Industrial camera
GUI

AEROSPACE

HYDRAULICS

Design of hydraulic axial piston pumps and motors
CFD calculations

ELECTRONICS

Housing Designs
Component Management
Hardware Development

IoT

ROBOTICS

Algorithms development
Sensor fusion
Indoor navigation

AV/VR

Module algorithm development
Sensor fusion

SMARTPHONE/TABLETS

Algorithm development for MEMS sensors
Sensor fusion

SMART HOMES

Interfaces and connectivity
IoT infrastructure
Sensors

IT SERVICES

LOGISTICS AND TRANSPORTATION

Fleet Management System

ELECTRONIC RETAIL

Cloud infrastructure
Database management
E-payment

DIGITAL MARKETING

Website and social media

WEB BACK/FRONT -END

Java/PHP/Python/HTML Development and Design
Full stack cloud development

APPLICATIONS

Mobile App Development
Web App Development
Cross-platform Development

SALESFORCE

Development
Data Management
Integration
CRM and ERP Integration
Payment Integration
Process automation

AV INFOTAINMENT

TV Set-Top-Box
IoT

NOVELIC Milestones

