Satven

Creating 'Intelligent Mechanical Systems' together

For over two decades, we have had success foraying into new solution areas across continents, even while steadily growing in conventional ones.

With ever-changing market trends, we are more aware than before about the need to embrace newer technologies and disciplines and realize 'intelligent' mechanical systems.

Whether it is model-based design, electromagnetic simulations, EV Crash Simulations, Statistical Energy Analysis (SEA) applications for EV Noise and Vibration, Thermal Management of electronics, Advanced Mechatronics Systems Design, Digital Manufacturing & Digital Factory Simulations, Virtual Benchmarking, or Digital Twin, Satven is ready and willing to partner with our customers to raise our collaboration to higher orbits.

1600 engineers dedicated to creating "Intelligent Automotive Mechanical Systems"

Leading pure-play Automotive Engineering Solutions provider since 2000

Serving 8 of the top 15 Global Auto OEMs & 8 of the top 20 Global Auto Tier-1 suppliers

CAE-Driven development, Crashworthiness, Occupant Safety, Pedestrian Protection, Noise and Vibration, MBD, CFD, Electromagnetic Simulations, and Thermal Management of Electronics To drastically reduce physical testing and development times

Certified for: QMS : ISO 9001:2015
ISMS : ISO/IEC 27001: 2013
EMS : ISO 14001 : 2015
OHSMS : 45001 : 2018

80 % of solutions delivered from centers in India

Fully vehicle Teardown & Benchmarking facility to offer value added solutions

High-end Digital Manufacturing support

Mechatronics lab, a dynamic, fully-service space for Embedded design including HW, SW, MBD development and testing with ISO26262 complaint, ground breaking new accelerator POC's like V2X communication, Path tracking with 4WS, Collaborative research in BEMS.

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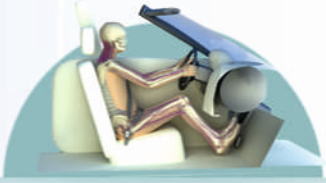
DOMAIN EXPERTISE

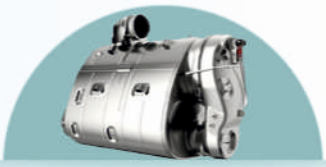
BODY CONTROL SYSTEMS



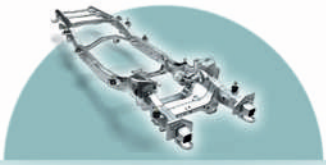
OCCUPANT SAFETY SYSTEMS

STEERING SYSTEMS

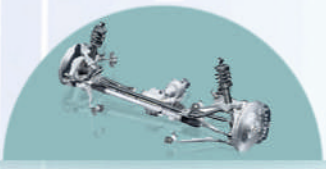
BRAKING SYSTEMS



EXHAUST SYSTEMS



CHASSIS SYSTEMS



SUSPENSION SYSTEMS

POWERTRAIN

EXTERIORS

BODY ENGINEERING

INTERIORS

LIGHTING SYSTEMS

SEATING SYSTEMS

CLOSURES

ROOFING SYSTEMS

SEALING SYSTEMS

Service Offerings

Design

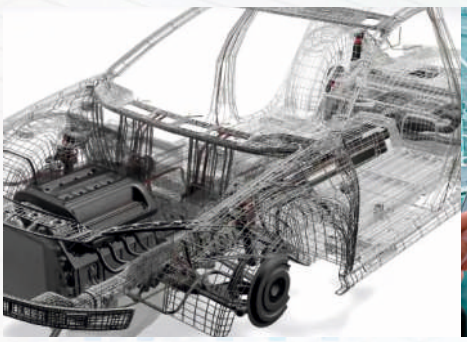
- Product Design & Engineering
- CAD Modeling & Detailing
- Engineering Change management
- Dimensional management with Tolerance Stack Analysis
- VAVE

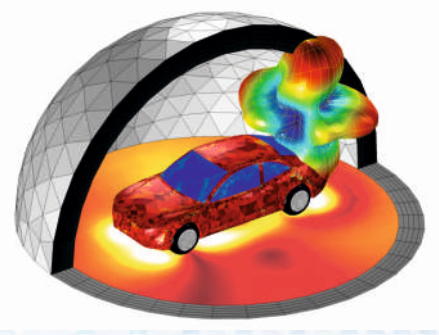
Manufacturing Engineering

- Process Engineering
- PFMEA
- Tool & Fixture Design
- Tool Management
- Manufacturing Simulator
- Digital Manufacturing

Simulation

- Stiffness, Strength, and Life calculations
- Dynamic characterization and Noise Engineering in low and high frequency spectrum for structure and air borne scenarios
- Fluid flow and Thermal Calculations
- Active and passive vehicle safety
- Design of restraint systems
- Electromagnetic analysis
- Road dynamics and stability engineering
- CAE Automation and Methods Development
- AI-based Design Optimization





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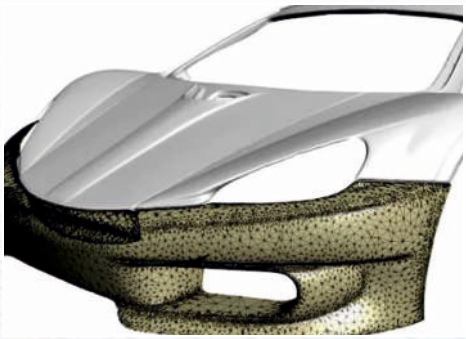
Service Offerings

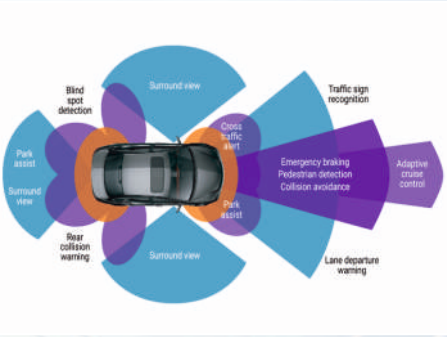
Solutions

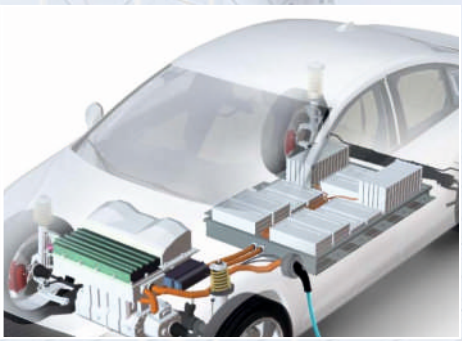
- Reverse Engineering
- Product Teardown
- Competitive Benchmarking
- Vendor Development
- Homologation Support
- Model Based Design & Development
- Knowledge Based Engineering

Mechatronics

- PCB Layout Design
- SIL/HIL/MIL Testing
- Hardware design for Automotive ECUs
- ADAS
- Connected Vehicles
- Model Based Design
- Battery Management System
- Data logger
- Power Management System







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