

Automotive Industry

Sarla Technologies has rich experience in Automotive and Mobility industry. For the past 18 years, We have delivered more than 100 major projects in Industrial Automation Engineering for Automotive and Mobility industry.

We have utilized our process expertise and technical know-how to serve leading companies with our proven engineering services and solutions for PLC, SCADA/ HMI, CNC, Robotics, Motion, Drives, Vision system, RFID, Barcode, etc. across the globe.

We have rich experience in various Automotive standards like Ford- FAST, GM- CCRW, Volkswagen- VKRC4, JLR- DCP, etc.



Our Experience on Various Automotive Systems

Machining

- Material Handling Systems
- Special Purpose Machines and Gauging Systems
- Gantry Automation
- Data Tracking (FIS, QTS, MES, RFID)
- Conveyors (Palletized, Buffer, Roller, Gravity, Slat)

Powertrain

- Engine Assembly Line
- Transmission Assembly
- Gear Box Assembly Line
- Press Machines, Vision Systems, Gauging, Leak Test, Oil filling, Vision
- In process verification

Body Shop

- Body In White (BIW)
- Robotic Arc Welding
- Robotic Spot Welding
- Robotic MIG Welding
- Robotic Hemming
- Robotic Dispensing

Paint Shop

- Body Wash
- Spray Booth
- Primer and Top Coat Application
- Conveyors
- Pre-treatment / Electro coating

Services and Solutions

Industrial Automation

- PLC & SCADA Development
- Testing & Validation
- Onsite Commissioning
- Third Party Interface
- Safety Validation/Production Support

Robotics

- Offline Programming
- Start-up & Commissioning
- Interfacing & Teaching
- Safety Validation
- Cycle Time Optimization

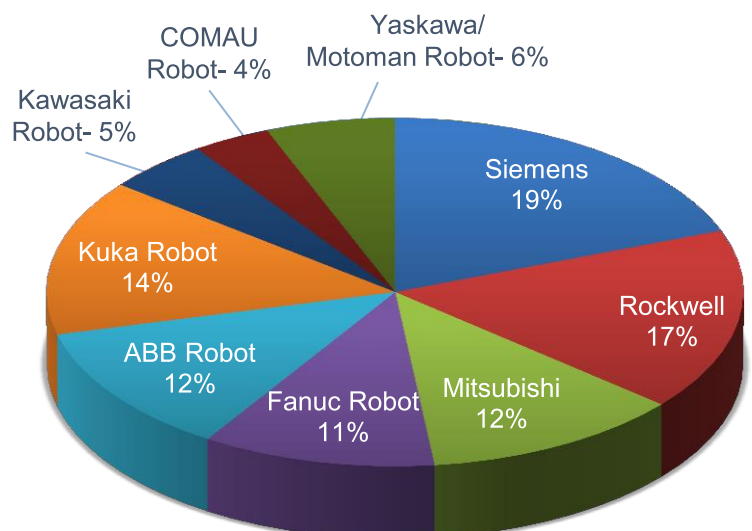
CNC Machining/ Mechatronics

- HMC/VMC/TC/Multi Axis SPM
- CNC Start up & Geometry Testing
- Part Program Development & Tool management
- CMM Report analysis
- Development, Batch & Mass production

Software & IoT

- Software & Mobile Application development
- Testing
- MES Enablement
- Integration Services
- Driver Development

Resource Pool & Skill Set



Our Success Stories in Automotive Industry

Robotic Automation Solution for Leading Car Manufacturer in Germany using Kuka Robots



End-Client Application: Robotic BIW Automation Line Up gradation for the new part variants.

Scope: Design and development of robot sequence, Configuration of robots, Cycle time optimization, Maintenance support & Training.

Hardware & Software: Robots- KUKA KRC 2 & KRC4, PLC- GuardLogix 1756-L73S.

Design & Development of Infinite Buffer Assembly Line for a Robotics OEM in USA

End-Client Application: Robotic Material Handling Automation for Cylinder Block Buffer Storage.

Scope: PLC & HMI Engineering, Simulation Testing, Installation & Commissioning, Interfacing with existing conveyors & System proving.

Hardware & Software: PLC- Siemens Safety PLC, HMI :- Siemens TIA Portal V13.

Robotics & Automation Engineering for a Leading Luxury Car Manufacturer in UK



End-Client Application: BIW, Spot Welding, Stud Welding, Panoramic roof, VIN marking, indscreen.

Scope: Developing Robotic & PLC program, I/O testing, Safety programming as per customer standards, Installation and Commissioning.

Hardware & Software: GuardLogix 1756L73, ABB Robot- 6400, IRC5 Controllers, RS Logix 5000 V20.

Engine Assembly Line Automation for a Leading Passenger Car OEM in France

End-Client Application: Main Engine Assembly Line and Material Handling System.

Scope: PLC & HMI Engineering, Integration with third party system, Testing, Debugging using simulator & Commissioning.

Software: Siemens S7 300, OP177 HMI, WinCC Flex, SICK barcode scan, Cognex, Moby RFID.

Our Value Propositions

Our Team's Strength

- Rich industry vertical & process expertise
- Platform independent services
- Proven Global delivery model
- Scalable & flexible business models
- Geographically flexible resources
- State of the art infrastructure facilities

Our Customer's Gains

- Reliable & scalable engineering partner
- One stop shop services & solutions partner
- Technical expertise to execute global projects
- Free up in-house talent for priority work
- Reduce cost & increase business volume
- Confidentiality of information, systems & processes

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