

Automotive Industry

Sarla Technologies is an ISO 9001:2015 certified Engineering Services and Solution organisation. We have been serving the Automotive industry for the past 18 years. We have helped major Automotive Original Equipment Manufacturers (OEMs), System Integrators (SIs), Engineering Procurement & Construction (EPC) and Solution to serve Leading Automotive companies.



We have rich experience on end-to-end processes in Automotive Industry from design and development to commissioning and production support. We have knowledge on various standards like Ford-FAST, VW VASS, GM-CCRW and OEM specific standards.

Services and Solutions Portfolio

Industrial Automation

Application Development- PLC, DCS, SCADA & HMI, Safety

Control System Migration & Upgrade

Integrated Testing

FAT, SAT

Commissioning

24x7 Support

Design Engineering

Detailed engineering- Plant, Process and Equipment

2D drafting and 3D modeling

Mechanical, Piping and Structural

Electrical & Instrumentation

Migration / data conversions

Analysis and Simulations

Plant IT & Software Development

Microsoft: C#, VB .NET, C, C++, WPF, SQL Server

Open Source: Python, AngularJS, Java

MES, ERP integration

Integration with RFID and Barcode Scanners

Plant Analytics and Reporting

Our Experience on Various Automotive Systems, Processes and Equipment

Machining

CNC machines for Blocks, Cylinder head

Gantry Automation

Data tracking

Conveyors

Material Handling

Special Purpose Machines

Powertrain

Engine Assembly Line

Transmission Assembly

Press Machines, Vision Systems

Gauging Systems

RFID based tracking

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

Our Success Stories in Automotive Industry

Engine Assembly Line for new RFF Engine for Leading Car Manufacturer in USA

Processes: Retooling of existing engine assembly line & testing of the new part variants.

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

Hardware & Software: Schneider Unity Pro XL, SEW Drives, Sick CDS 3.6.8

CNC Machining Line -Cylinder Head & Block Leading Car Manufacturer in China

Processes: Cylinder Head, Cylinder Block machining line in the plant.

Scope: CNC Installation & commissioning, NC Part program debug & testing, auto sequence testing & handover

Hardware & Software: : HMC Machines with Siemens 840dsl CNC Controller

Transmission Assembly Line for Leading Car Manufacturer in Germany

Processes: Transmission assembly line of Car manufacturing plant

Scope: Commissioning, Interfacing with existing conveyors & System proving, punch points closing & handover

Software: PLC- Siemens S7-1500, HMI- TIA Portal V15.

Crankshaft Machining -Automation Leading Car Manufacturer in UK

Processes: Crankshaft machining line Automation in the plant

Scope: PLC & CNC Programming, Drives commissioning, Integration with third party system, Testing, Handover

Hardware & Software: Siemens CNC 840dsl, Siemens Distributed Safety.

Key Enablers

In-house PLC Labs & Experience Center: Industrial skid with sensors, valves, drives. PLC labs with Siemens, Rockwell, Mitsubishi, etc.

Online Project Management Tool: Cloud based project and quality management tool to track the development of the projects.

Quality Management Systems: ISO 9001:2015 certified quality management system and practices.

State of the art Infrastructure: Reliable IT and network system with secured FTP, VPN, back-up servers, networking & in-house IT support teams.

Our Value Proposition

One Stop Shop: For various Engineering Skills- Automation, Design, Plant IT projects.

Automotive Expertise: Rich process knowledge and experience in standards like FORD, GM, Chrysler, ISA-88, ISA-95, etc.

Specialists in Migration & Upgrade: Rich knowledge of various tools for migration & upgrades.

Absorption of Variable Project Load: Engaging on projects from few man-weeks to multi-year contracts.

Cost Efficient Engineering: Proven Remote Engineering Model with cost competitive resources.

Let's connect

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