

ZENTIQSOLUTIONS

Automation & Electrical

Customer Introduction | Engineering Capabilities | Project Support
Consulting to Execution

From PLC & Drive programming and HMI development to commissioning, troubleshooting and modernization.

www.zentiqsolutions.in | Barnala, Punjab, India

Who We Are

A practical engineering partner for industrial automation projects

Zentiq Solutions Pvt. Ltd. is an owner-managed engineering consulting and execution firm focused on automation and electrical engineering.

- Cross-industry and international engineering experience
- Support from concept development to project engineering, management
- Practical, technology-driven problem-solving
- Automation and technical training for industrial teams

Our focus

Professional, reliable and technically strong engineering solutions.

Our approach

Root-cause analysis (RCA), bottleneck reduction and efficiency improvement.

Our promise

Support tailored to the customer's needs, from concept through commissioning and optimization.

Our Engineering Services

Modular support from a focused task to a broader project package

PLC Engineering

Siemens S7-1200 / S7-1500
Logic development and modification
Sequence and interlock updates

HMI & SCADA

HMI screen development
Alarm, status and diagnostics
Industrial visualization support

Drives & Integration

Drive commissioning support
PLC–HMI–drive integration
Fault analysis and optimization

Commissioning

Start-up and functional checks
I/O and sequence verification
Remote or on-site assistance

Troubleshooting

Structured fault finding
Trend and diagnostic analysis
Root-cause support

Modernization

Software upgrades
Legacy logic review
Documentation and knowledge transfer

Siemens Automation Capability

Engineering support across PLC, HMI, drives and connected systems

PLC Platforms

- Siemens S7-1200
- Siemens S7-1500
- Tags, I/O, logic and sequence structure

TIA Portal & PCS 7

- Project configuration
- PLC and HMI engineering
- Diagnostics, testing and change control

Machine Integration

- Sensors and actuators
- Interlocks and permissive
- Drive and HMI communication

Typical engineering workflow



Final scope depends on the installed platform, access, safety requirements and customer standards.

Application Experience & Engineering Context

Practical understanding of machine automation and production environments

Paper & Web-Handling Machinery

Automation support for PLC/HMI systems, drive-related functions, sequence changes, commissioning and troubleshooting.

Industrial Machinery & Processes

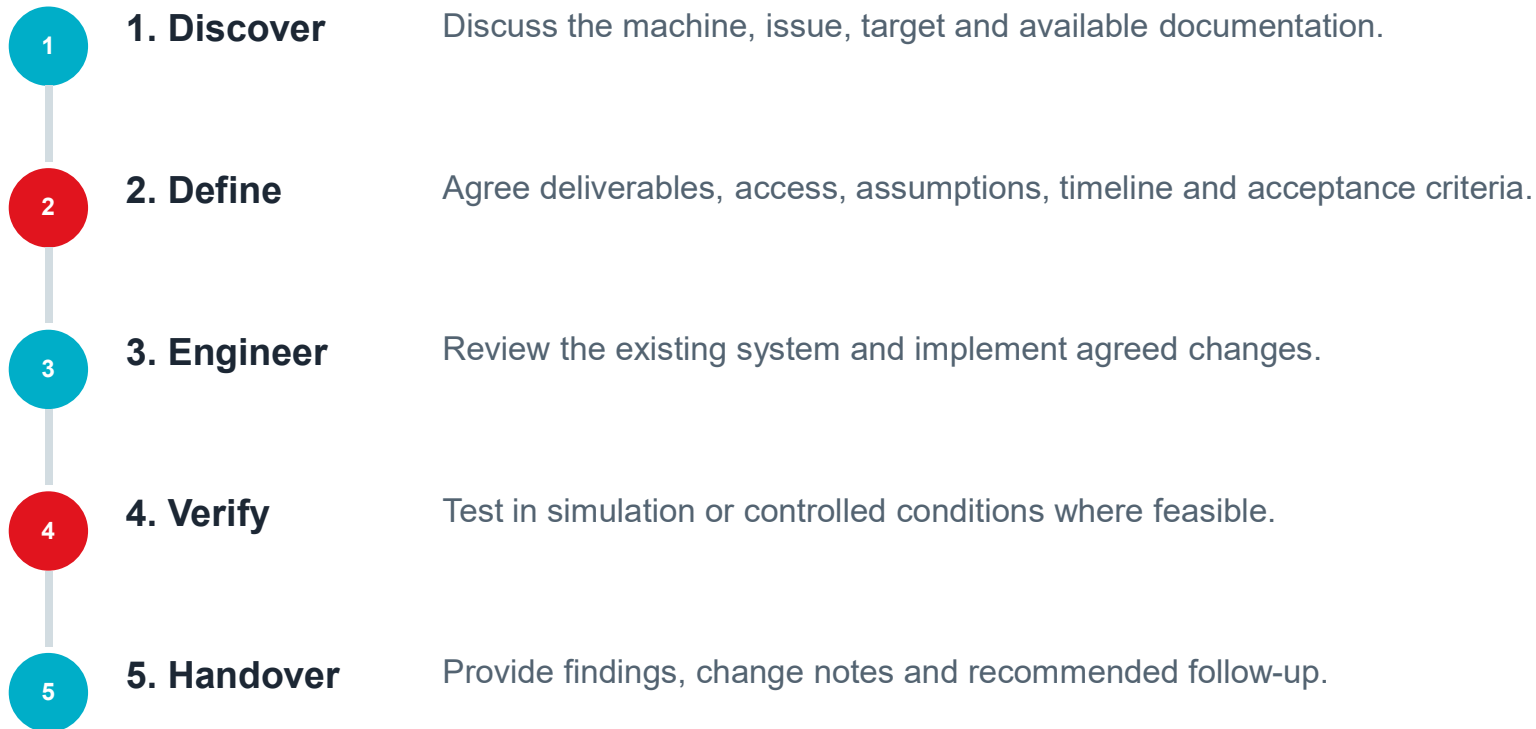
Machine sequences, interlocks, I/O checks, alarm handling, operator interfaces and coordinated equipment behavior.

Potential project tasks

- Sequence analysis and cycle-time improvement
- Trend review and fault investigation
- Software updates and functional testing
- Remote technical support and handover
- Commissioning preparation and site assistance
- Engineering documentation and training

How We Work With Customers

A transparent delivery process with clear scope and checkpoints



Flexible Support Model

Choose the delivery model that fits your plant and project

Remote Engineering

- PLC/HMI software review
- Online troubleshooting
- Logic changes and documentation
- Technical meetings and handover

On-Site Support

- Commissioning assistance
- I/O and functional checks
- Drive and machine diagnostics
- Operator / maintenance support

Combined Delivery

- Remote preparation
- Planned site intervention
- Follow-up and optimization
- Knowledge transfer to the team

Remote access, plant safety rules, change approval and backups are agreed with the customer before work begins.

On-site availability, travel and response times are confirmed case by case.

Value for Your Engineering Team

Support designed to help teams solve issues and keep knowledge in-house

Reduce troubleshooting time

Structured analysis of logic, alarms, trends and machine behavior.

Improve maintainability

Clear program structure, comments and change documentation.

Support production goals

Focus on cycle sequence, interlocks and repeatable machine operation.

Build team capability

Practical knowledge transfer for engineers, technicians and maintenance.

Specific outcomes and KPIs are agreed before work starts; results depend on system condition and project scope.

Working With Engineers & Technicians

Collaboration, coaching and practical skills development

We work alongside customer teams -not just on the software.

- Review existing logic and explain machine sequence behavior
- Support fault-finding using diagnostics and trend data
- Share good practices for PLC/HMI changes and testing
- Provide structured handover and practical guidance
- Adapt sessions to engineer experience and plant priorities

Example learning pathway

Foundation

PLC concepts, tags, I/O

Intermediate

Sequences, interlocks, HMI

Advanced

Diagnostics, drives, optimization

Training can be tailored to individual or corporate needs.

Engagement Options

Start small, then scale based on results and requirements

Defined Task

A specific PLC/HMI modification, diagnostic review, sequence analysis or documentation update.

Project Support

Engineering activities delivered against agreed milestones, reviews and acceptance criteria.

Ongoing Support

Planned remote support, engineering assistance and knowledge transfer by agreement.

Each proposal can define:

- Scope and deliverables • Required files/access • Timeline and availability
- Commercial model • Safety and cybersecurity conditions • Customer acceptance

Services Across the Project Lifecycle

Website service portfolio: consulting, project support, implementation and ongoing optimization

Automation & Electrical Consulting

Power systems, energy efficiency, safety audits and PLC/SCADA integration.

Basic Audit & Assessment

Inspection of electrical systems, energy usage and automation setups.

Design & Planning

System design, layout planning and preparation of technical drawings.

Project Support & Execution

Tendering, vendor management, project coordination and on-site supervision.

Implementation & Commissioning

Support during project execution, installation checks and commissioning.

Maintenance & Optimization

Troubleshooting, performance optimization and ongoing technical support.

Smart Monitoring, Training & Support

Additional offerings highlighted on zentiqsolutions.in

IoT-Enabled Monitoring & Analytics

Integration of IoT-enabled devices for real-time monitoring, predictive maintenance, data-driven analytics and smarter operations.

On-Site & Remote Training

Hands-on training and workshops covering automation practices, PLCs, drives and maintenance.

Technical Training Initiatives

Support for engineers, technicians and industrial teams; content can be tailored to experience and needs.

Maintenance Support

Practical troubleshooting and technical support to help plant teams maintain reliable operations.

Why Work With Zentiq Solutions?

Engineering-focused. Flexible. Practical.

- **Hands-on mindset** Solutions grounded in real machine behaviour and project constraints.
- **Flexible delivery** Remote, on-site or combined support based on the agreed scope.
- **Clear communication** Defined deliverables, change notes and technical handover.
- **Customer collaboration** Work with your engineering and maintenance teams to build capability.

Scope, schedule and expected results are agreed transparently before work begins.

Why Customers Choose Zentiq

Powering Efficiency, Electrifying Automation.

● Root-cause focus

Technical RCA aimed at reducing repeated problems.

● Industry experience

Experience across automobile and paper-machine industries.

● Safety, security & smart technology

An engineering approach informed by European industrial experience.

● Efficiency improvement

Identify process bottlenecks and opportunities to improve performance.

● Flexible support

Services tailored from concept and implementation to commissioning and optimization.

● Value-conscious delivery

Quality service with attention to cost and practical outcomes.

Support availability and response arrangements should be agreed for each engagement.

Let's discuss your next automation challenge.

Share your machine, system, issue or project goal.

Website

www.zentiqsolutions.in

Location

Barnala, Punjab, India

Email: info@zentiqsolutions.in | Phone: +91-94174 51983

ZENTIQ SOLUTIONS PVT. LTD.

Automation & Electrical Engineering - Consulting to Execution

[Learn](#) • [Engineer](#) • [Automate](#)