



# ISRAR Engineering Automation Services

Empowering Industries with  
Intelligent Automation



Innovating Today for a Smarter Tomorrow

[www.israrengineering.com](http://www.israrengineering.com)



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# Automation Solutions

## Transforming Industries With Intelligent Automation

ISRAR Engineering offers cutting-edge automation solutions for industrial sectors. With expertise in SCADA, PLC systems, and energy management, we ensure smooth operations through advanced technology.

Our comprehensive services improve efficiency, reduce operational costs, and enhance decision-making.

Discover how ISRAR Engineering provides innovative and customized solutions to empower businesses and drive success.

### ISRAR Engineering Automation Services

Where precision meets efficiency

Our automation solutions enhance your workflow and cut costs





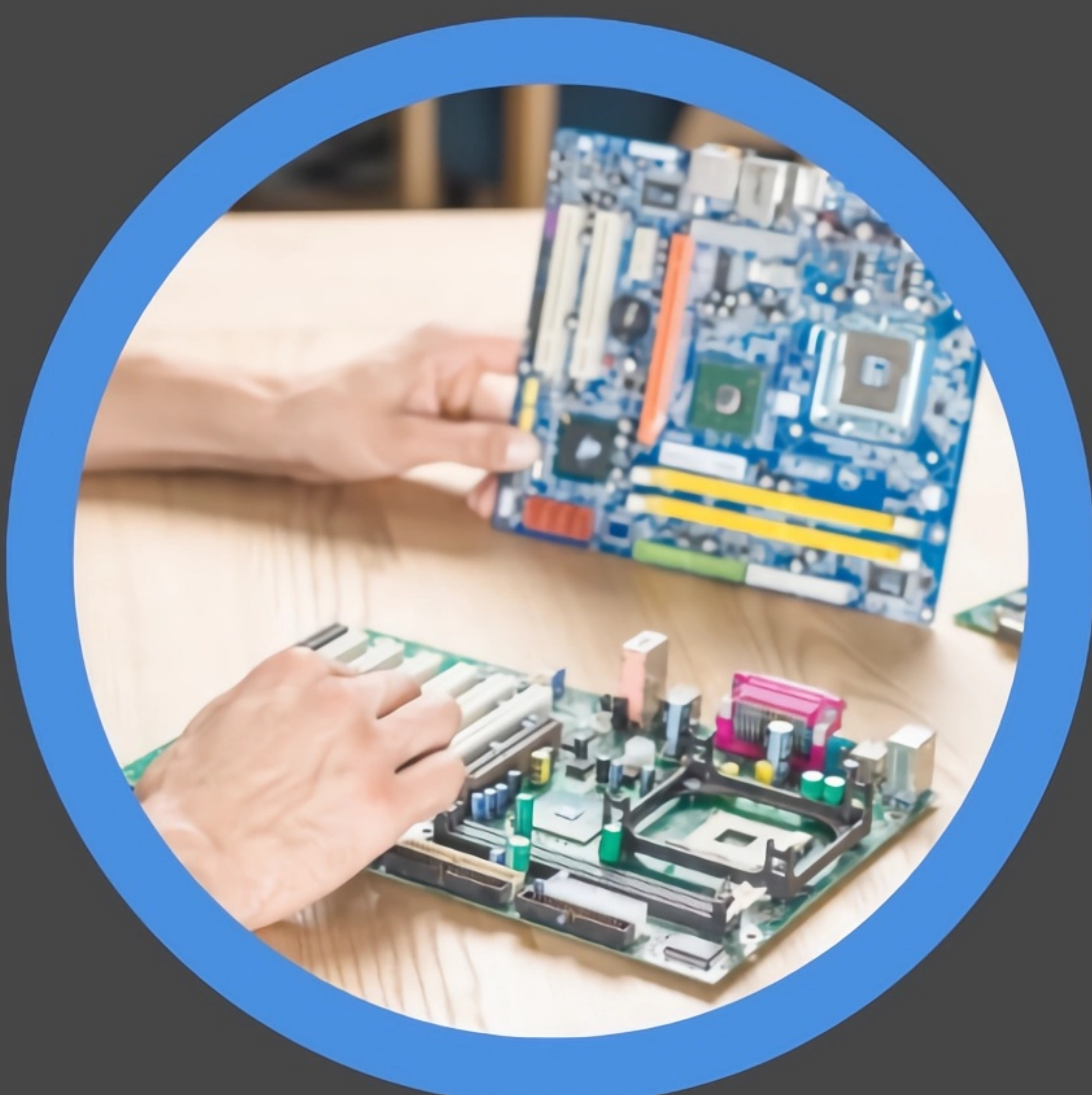
# Industrial Automation

Optimized Automation for Maximum Efficiency

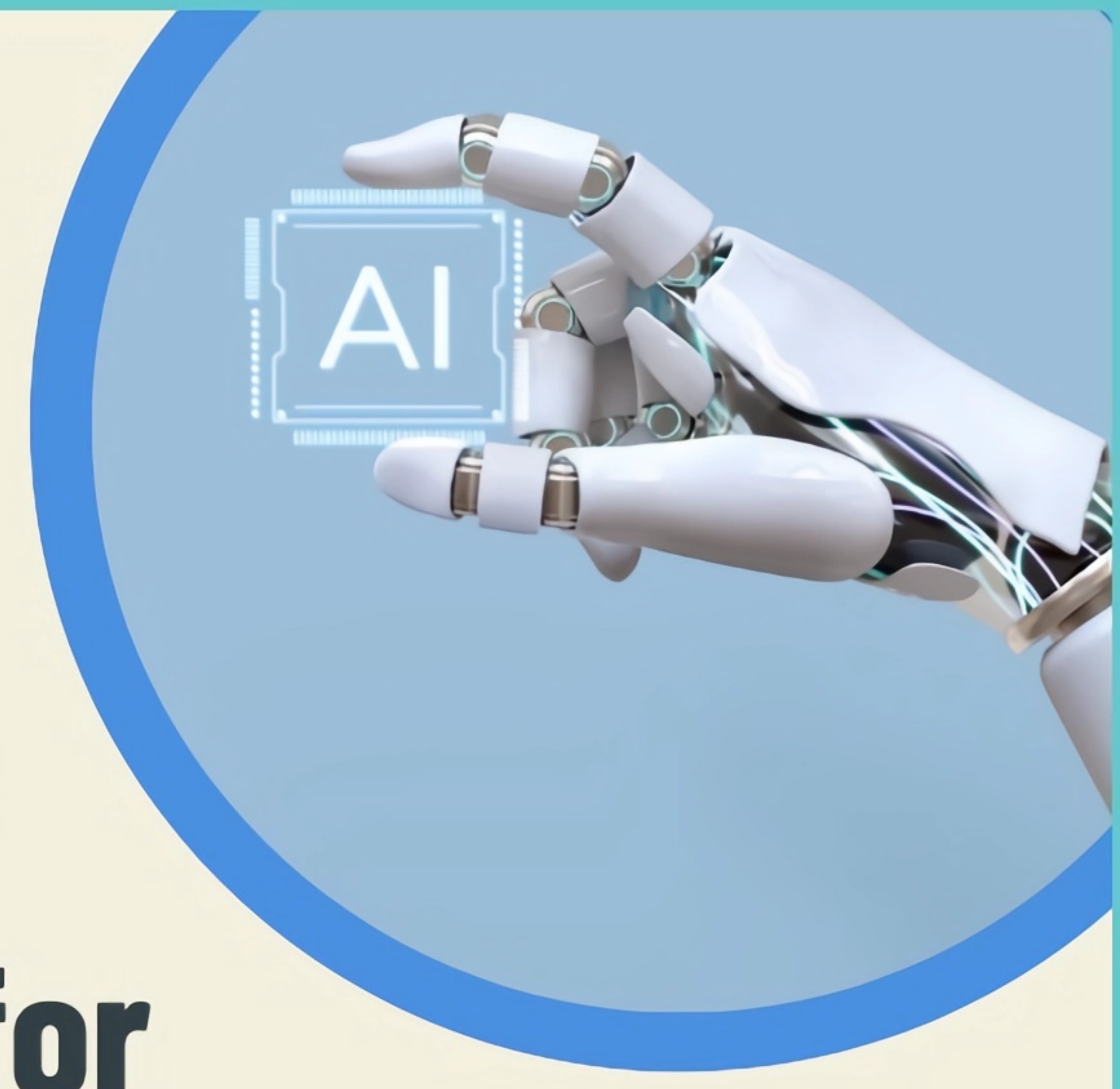
Streamline Your Operations With Technology That Works As Hard & Smart As You Do

Our industrial automation services cover a wide array of applications, including machine and process automation, data acquisition, and real-time monitoring.

From integrating PLCs to customizing SCADA systems, Israr ensures streamlined, error-free operations across manufacturing, utilities, and energy management industries.



Industrial Automation Solutions offers customizable, rugged low-power systems with advanced HMI, multimedia, and wireless connectivity. These solutions seamlessly integrate with manufacturing equipment, enhancing production networks by improving efficiency, quality, and data accuracy. Designed for flexibility, our systems deliver reliable hardware and software to boost productivity in industrial environments.



## Comprehensive Automation Solutions for Smarter Operations

### Machine Automation

Our machine automation solutions are designed to increase efficiency, reduce costs, and minimize human error by building custom, engineered-to-order systems. We integrate advanced technologies for measurement, control, and safety to improve your operational processes.

### Data Acquisition

Data acquisition systems digitize real-time data for improved performance and cost efficiency. Using SCADA, they enable better process control, reliable machinery, and fast issue resolution. These systems reduce data redundancy, minimize errors, and automate data management, ensuring quality control and seamless integration for optimized operations.

### SCADA System

The SCADA system offers a cost-effective solution for monitoring solar plant performance, linking hardware and software to detect faults and minimize energy loss. It boosts productivity, enhances quality, and reduces operational costs. Key features include remote monitoring, alarms, and data-driven decision-making. The system supports remote control, PLC interfacing, and material handling, with adjustable alarms, historical logging, and event-triggered notifications for seamless management.

### Building Management System

Our intelligent BMS system integrates key building services like HVAC, lighting, and security into a unified network, offering real-time monitoring and energy management. With advanced communication protocols, it ensures remote access globally, optimizes energy use and enhances operational efficiency. The system detects faults early and integrates fire alarms, CCTV, access control, and environmental monitoring, ensuring safety and optimal building performance.

# Cloud Automation

## Empowering Businesses with Cloud-Driven Automation

Israr's cloud-based automation solutions allow for real-time monitoring, data storage, and analysis. By integrating cloud platforms with industrial systems, we enable remote control, predictive maintenance, and enhanced scalability, all while reducing IT overhead and increasing operational agility.

## Your Operations, Anytime, Anywhere, Cloud Automation For 24/7 Control

### Real-Time Data Management for Smarter Decisions

ISRAR's IoT-based cloud data management system provides real-time project oversight, enhancing decision-making and optimizing industrial processes. By streamlining operations and reducing administrative costs, it improves service efficiency. This solution leverages the power of data to boost operational performance and drive smarter, more informed decisions.

### Smart Automation Solutions for Enhanced Efficiency

Israr's automation solutions integrate software and hardware to reduce manual workloads and enhance service consistency. Utilizing cloud infrastructure for remote data storage and analysis, these systems improve project agility, reduce errors, and lower IT costs. Key solutions include:

- **AMR and Billing Server:** Simplifies invoice creation for project owners and grid operators.
- **SCADA System:** Offers an intuitive interface for efficient monitoring.
- **Online PV SCADA:** Cost-effective remote monitoring for photovoltaic substations.
- **Power Plant Monitor:** Optimizes performance and investment security with remote flexibility.



## Management Solutions



Israr's management solutions seamlessly integrate software, hardware, and automation to digitally transform business operations, ensuring greater efficiency, enhanced security, and optimized control. Key offerings include:



- **ERP & CRM:** A comprehensive solution for remote business management that strengthens owner-client relationships, fostering customer loyalty and improving overall business performance.
- **CMMS (Operations & Maintenance Module):** Integrated with ERP & CRM, this module streamlines operations and maintenance tracking, significantly reducing effort and costs in plant management.
- **CMMS Interconnectivity:** The CMMS can be fully integrated with our SCADA system, providing seamless connectivity for enhanced operational oversight.

## Empowering Efficiency, Driving Innovation, Enhancing Performance

### Application Servers

Israr's application servers integrate IoT solutions for seamless data collection, transfer, and analysis. Supported by web-based software, they enable efficient communication, data forecasting, and easy cloud access. Key components include:

- **Modbus TCP-Modbus RTU:** Stable, reliable, and adaptable for industrial use.
- **IEC 104/101-Modbus:** Cost-effective and configurable for smooth device management.
- **DNP3-Modbus:** Efficient solution for DNP3 and Modbus device integration.
- **DLMS-Modbus:** Innovative protocol converter for seamless integration.
- **Field Datalogger:** Remote monitoring and data logging.
- **Power Plant Controller:** Standardized solution for PV site regulation.
- **PV Zero Export:** Combines data analysis, logging, and control for optimal functionality.





# Israr's Strengths

With years of experience, a dedicated team of professionals, and cutting-edge technology, Israr provides tailored automation solutions that meet your industry's specific needs. We excel in delivering long-term support and leveraging the latest innovations to drive success.

## Professionalism In Every Solution, Precision In Every Step

### Experienced Team

Years of industry expertise with a dedicated professional team

### Tailored Solutions

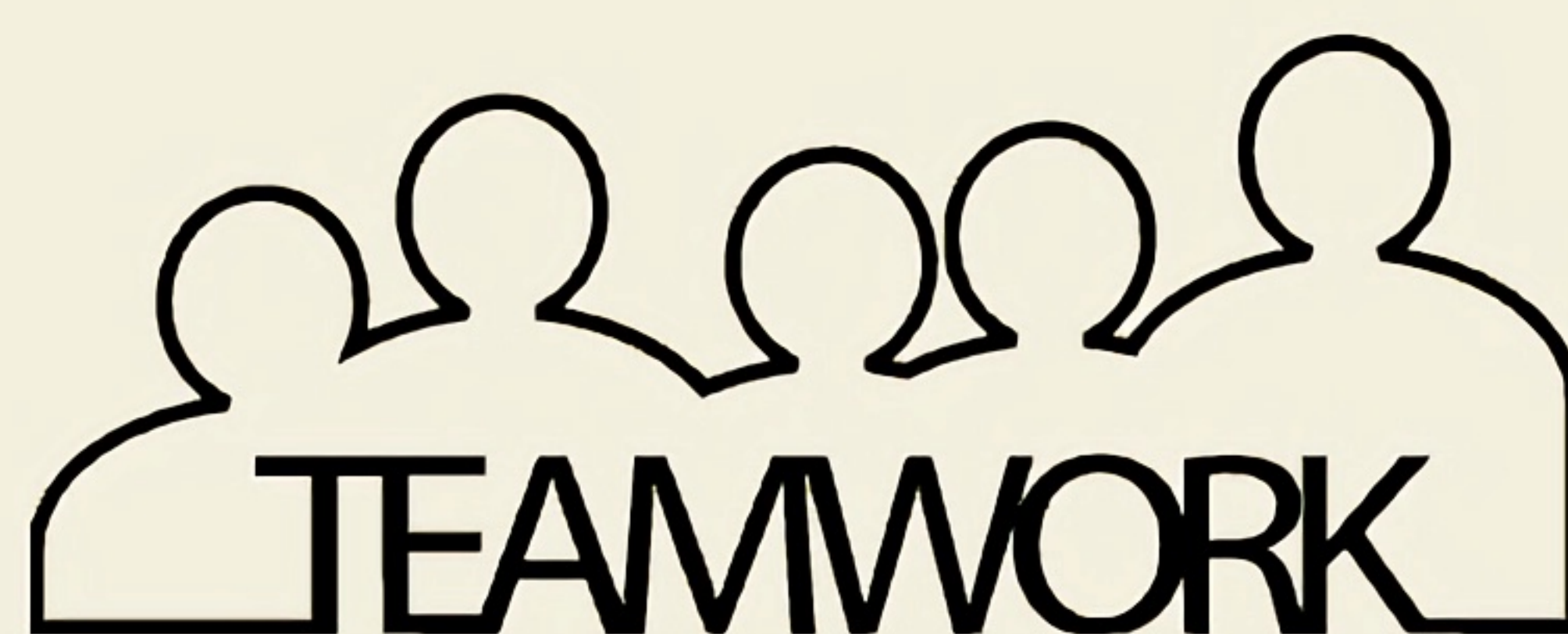
Custom automation systems designed for specific industry needs.

### Innovation-Driven

Utilizes cutting-edge technology to stay ahead of industry trends

### Long-Term Support

Commitment to continuous support and successful project outcomes.



### Collaborative Work

Team-focused approach ensuring high-quality, integrated solutions.



# **ISRAR**

## **E n g i n e e r i n g**

### **Let's Build Your Future Together**

Israr Engineering is your trusted partner for industrial automation solutions, offering cutting-edge technologies and comprehensive services.

Contact us to discover how Israr Engineering can revolutionize your industrial processes. Our team is ready to provide consultation, project planning, and implementation tailored to your needs.

## **ISRAR Engineering**

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