Streamlining Factory Operations with End-to-End Industrial Automation

Industry: industrial automation

Client: Precision Component Manufacturer, Pune, India

The Challenge

- ✓ Manual machine tracking
- ✓ Unplanned downtime
- ✓ Quality control bottlenecks
- ✓ No centralized performance dashboards

Our Approach

We began with a shop floor time-motion study and **partnered with internal IT to deliver:**

- ✓ Real-time IIoT machine monitoring
- ✓ PLC-based repetitive task automation
- ✓ Vision-based AI defect detection
- ✓ SCADA dashboards + ERP material sync

Key Solutions

- ✓ IIoT Machine Monitoring
- ✓ Automated AI Quality Control
- ✓ SCADA-Based Production Dashboard
- ✓ Material Movement via PLC-ERP Link

Tech Stack

SIEMENS | OpenCV | python | Azure | node.js | Power BI

Impact Summary

Metric	Before	After
Throughput	700 units/day	950 units/day
Downtime	20%	4%
Quality Accuracy	78%	96%
Real-Time Visibility	NO	YES

Results at a Glance

35%	80%	60%	98%
production boost	less downtime	improvement in defect detection	live visibility across shifts

Qematic secures industrial ecosystems—end to end.

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Start Your Journey Towards Smarter Operations

Ahmedabad | Rajkot | Nadiad | Delhi | Bhopal | Pennsylvania | Toronto | London

Phone:
+91 98983 30717
+1 323 455 4591

Email:
hello@qematic.com

Website:
www.qematic.com

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