

# Chetan Sanjay Khole

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## Objective

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Final-year B.E. Instrumentation & Control Engineering student with hands-on training in PLC programming, SCADA HMI development, VFD integration, and industrial control systems. Experienced with Siemens TIA Portal and Allen Bradley Studio 5000 platforms. Strong interest in Building Automation Systems (BAS) and HVAC control systems. Seeking to contribute to BAS global projects through design support, application engineering, and quality-focused project execution while gaining industry experience.

## Technical Skills

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- **PLC Programming:** Siemens TIA Portal, Allen Bradley Studio 5000
- **Automation Logic:** Ladder Logic, Function Block Diagram (FBD)
- **Building Automation:** BAS/BMS Fundamentals, HVAC Control Basics
- **Industrial Hardware:** Sensors, Actuators, Process Instrumentation
- **Drives and Motion:** VFD (PowerFlex 525), Servo Control Basics
- **Industrial Communication:** Modbus, EtherNet IP, MQTT, BACnet
- **Engineering Tools:** AutoCAD Electrical (Basic), Node-RED
- **Industrial Skills:** Panel Wiring, I/O Mapping, Control System Integration
- **Soft Skills:** Analytical Thinking, Observation Skills, Team Collaboration, Communication

## Internships & Training

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### Diploma in Industrial Automation (On-Site)

Just Engineering

Feb 2025 – Sept 2025

- Hands-on training in PLC programming, SCADA/HMI development and VFD integration.
- Worked with Siemens and Allen Bradley automation platforms.
- Experience in I/O testing, control panels and industrial automation workflows.

### Industrial Automation Virtual Internship

Eduskills AICTE

Oct 2024 – Dec 2024

- Learned industrial automation fundamentals and PLC-based system design concepts.

## Projects

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### Multi-Domain Hybrid Automation Node (Sponsored by B&R Automation)

- Integrated PLC with ESP microcontroller using Modbus communication.
- Implemented sensor-based sorting system using robotic arm and conveyor mechanism.
- Developed HMI interface for real-time monitoring and automation control.

### Two-Axis PLC Pick-and-Place Automation System

- Designed and virtually commissioned an automated pick-and-place system using Studio 5000 and Factory I/O.
- Developed modular ladder logic for motion control sequences.
- Implemented safety interlocks and synchronized conveyor operation.

### Arduino Controlled HVAC Mini Automation Model

- Developed a small-scale HVAC automation concept model using Arduino.
- Implemented temperature and humidity based control logic.
- Automated fan and heater operations demonstrating BAS environmental control concepts.

### Conveyor Belt Automation System

- Implemented PLC-based conveyor automation with VFD speed control.
- Used sensors and pneumatics to sort objects based on set parameters.
- Configured PLC I/O mapping and automation sequences.

## Education

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### B.E. Instrumentation & Control Engineering

D. Y. Patil College of Engineering, Akurdi, Pune (SPPU)  
2022-2026

CGPA: 8.10

### HSE – 12th (2022)

Junior Science College, Akola  
MSBSHSE Board

76.50%

### SSC – 10th (2020)

St. Joseph's English High School, Buldhana  
CBSE Board

70%

## Achievements & Activities

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- Winner – A1 Fence Case Study Launchpad National Competition
- Active Linkidin contributor with 2000+ followers sharing knowledge and projects
- Winner – Avishkar 2024 College Level Project Competition
- NSS Volunteer – Leadership and documentation responsibilities
- Electronics Team Member – UAV Research and Development Team