

# HUZAIF SHAIKH

## Electrical and Automation Engineer

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### Summary

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Industrial Automation trainee with hands-on experience in PLC programming, HMI development, SCADA, and control panel design. Strong foundation in Electrical Engineering and Industrial Control systems.

### Skills

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**PLC Platforms :** Schneider Electric Modicon M221 / M340, Ladder logic Programming, FBD Logic Development

**HMI and SCADA:** Vijeo Designer, AVEVA Plant SCADA, EcoStruxure Operator Terminal Expert, Alarm and Trend Configuration, Tag Creation and Graphics Design

**Automation Software:** EcoStruxure Control Expert Classic, EcoStruxure Machine Expert Basic, Vijeo Designer Citect Studio, AVEVA Plant SCADA

**Industrial Communication Protocols:** Modbus RTU, TCP/IP, Ethernet Communication, PLC Networking

**Electrical and Control Systems:** Control Panel Basics, Sensors and Actuators, Relay Logic

### Experience

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#### Industrial Automation Intern

Feb 2026 – May 2026

*Schneider Electric COE VTU, Belagavi*

*Tools Used: PLC, HMI, SCADA*

- Assisted in PLC programming, HMI screen development, and SCADA monitoring for industrial automation applications using Schneider Electric platforms.
- Developed and tested ladder logic programs for automation exercises involving motor control, timers, counters, and industrial process control.
- Gained hands-on experience in control panel components, VFD operation, electrical protection systems, and industrial troubleshooting.
- Worked with Schneider electric Modicon PLCs and industrial communication protocols for automation and control applications.

### Projects

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#### PLC-Based Water Treatment and Distribution System | Schneider electric CoE

April 2026 – May 2026

- Developed a PLC-HMI-SCADA based automation system for water treatment and distribution.
- Designed ladder logic for pump control, tank level monitoring, and automatic water distribution.
- Configured HMI and SCADA for real-time visualization, alarm handling, and process monitoring.
- Implemented automatic tank filling and distribution logic based on water level sensors and operational requirements.

#### A low-Cost Non-Invasive Anemia Detection and Prediagnosis Using Arduino Uno | March 2025 – Dec 2025

##### – Major Project / KSCST Sponsored By Govt Of Karnataka

- Developed a low-cost, non-invasive anemia screening system using Arduino Uno and optical sensing techniques to estimate hemoglobin-related parameters without blood sampling.
- Designed and implemented sensor interfacing, signal acquisition, and data processing for real-time health parameter monitoring.
- Sanctioned and sponsored by KSCST and subsequently selected for the State-Level Project Exhibition.

### Awards & Certifications

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- **Fundamentals of Electrical Engineering – Coursera (2026):** Developed a strong understanding of electrical circuits, power systems, instrumentation, and concepts relevant to industrial automation and control.
- **Best Final Year Project – 2026, Secab I.E.T:** Received departmental recognition for developing a low-cost non-invasive anemia detection system; sponsored by KSCST

### Education

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#### B.E in Electronics and Communication Engineering

Graduated: 2026

*S.I.E.T, Vijayapura (VTU Belagavi)*

*CGPA: 8.4 / 10*