

Suleman Ali

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CAREER SUMMARY

Electrical Engineer with hands-on experience in industrial automation, PLC-based control systems, and control panel commissioning. Skilled in interpreting electrical schematics, tracing signal flow from field devices to PLC logic, and working with VFD-driven motor systems. Experienced with Siemens TIA Portal, industrial communication protocols, and real-world automation systems including filling and printing processes. Strong interest in automation, commissioning, and industrial control systems.

WORK EXPERIENCE

Tritronix Industrial Solutions (TTIS) **OCTOBER 2023 – SEPTEMBER 2024**
Automation & Control Engineering Trainee **Karachi, Pakistan**

- Executed wiring validation and inspection of 8+ industrial control panels, reducing rework by 15% through systematic verification of terminal connections and schematics.
- Diagnosed faults in automation panels, sensors, and electrical instrumentation, improving system reliability during commissioning and maintenance.
- Interpreted industrial electrical schematics to trace control signals from sensors to PLC inputs and outputs, improving understanding of system behaviour and fault diagnosis.
- Integrated PLCs with HMI/SCADA systems using PROFINET and OPC UA, ensuring reliable signal communication.
- Performed voltage, resistance, and continuity tests on 15+ panels, preventing startup faults and improving reliability.
- Supported commissioning of 6 automation systems, contributing to smooth deployment and timely project completion.
- Assisted in inspection and maintenance of control panels including relays, power supplies, and protection components.
- Reviewed electrical schematics and basic circuit documentation using EPLAN Electric P8.
- Inspected and maintained control panels including relays, contactors, power supplies, and protection devices.

Hex **JULY 2023 – SEPTEMBER 2023**
Automation & PLC Engineering Intern **Karachi, Pakistan**

- Programmed Siemens S7-1200 PLC in TIA Portal, developing ladder logic for motor control and automation sequences.
- Designed start-stop interlocks and safety logic, improving system stability during prototype testing.
- Configured 80+ digital and analog I/O signals, ensuring accurate field communication and signal response.
- Integrated VFDs for motor speed regulation, optimizing performance under variable operational loads.
- Verified control panel wiring against electrical drawings, preventing signal mismatches during commissioning.
- Conducted functional testing of PLC programs, reducing troubleshooting time during deployment.
- Optimized PLC scan cycle logic, improving response time and control accuracy of systems.

General Electric **SEPTEMBER 2022 – FEBRUARY 2023**
Electrical Systems & Commissioning Intern **Karachi, Pakistan**

- Conducted protection and fault analysis for 10+ industrial feeders, improving electrical system reliability.
- Supported relay setting verification and transformer differential protection.
- Assisted in commissioning support activities, ensuring stable operation of protection systems.

EDUCATION

OTTO VON GUERICKE UNIVERSITY **OCTOBER 2024 – PRESENT (EXPECTED APRIL 2027)**
M.Sc. Electrical Engineering and Information Technology

SIR SYED UNIVERSITY OF ENGINEERING & TECHNOLOGY **SEPTEMBER 2018 – MARCH 2023**
B.Sc. Electrical Engineering (German Grade : 1.8 , ' GUT ')

Bachelors Thesis : ETAP-Based Protection Coordination for Mega City Karachi using GE P643 Relay

Academic Projects : Siemens S7 PLC-Based Conveyor Automation & Motor Control System, Industrial Motor Control Cabinet Design & Commissioning Simulation

TECHNICAL SKILLS

- **Automation & PLC:** Siemens S7-1200, TIA Portal, ladder logic programming, I/O configuration, signal validation, troubleshooting.
- **Control Cabinets:** Panel wiring, terminal blocks, relays, contactors, motor starters, wiring inspection, schematic verification.
- **Industrial Drives:** VFD configuration, motor control circuits, start-stop interlocks, overload protection, speed regulation.
- **Electrical Testing:** Multimeter testing, continuity checks, voltage measurement, I/O testing, FAT support, commissioning support.
- **Industrial Systems:** Pneumatics basics, sensors and actuators, field instrumentation, signal calibration, fault diagnosis.
- **Engineering Tools:** EPLAN, WS-CAD, ETAP, MS Office documentation and reporting.
- **Language:** English (C1) , Deutsch (B2)