MOHAMED FAYAZ PEER MOHAMED

Email: fayaz0899@gmail.com| **Phone:** 8135996911
Location: Tampa, FL 33613 | **LinkedIn:** linkedin.com/in/mohamedfayazp

PROFESSIONAL SUMMARY

Enthusiastic and technically skilled **PLC Programmer / Automation Engineer** with hands-on experience in industrial automation using **Siemens TIA Portal**, **Allen-Bradley Micro850**, **Factory I/O**, and **Ignition SCADA**. Completed multiple projects including automated filling, sorting, and monitoring systems using ladder logic and sensor-actuator integration. Familiar with OPC server-client setups and SCADA communication for real-time control. Eager to contribute to dynamic engineering teams and grow in the field of industrial automation and control systems.

EDUCATION

Master of Science in Electrical Engineering *Aug 2023 – May 2025*
University of South Florida (USF), Tampa, FL
Cumulative GPA: 3.54

Bachelor of Engineering in Electronics and Communication Engineering *Aug 2017 – May 2021*
Rajalakshmi Engineering College (REC), Tamil Nadu, India
Cumulative GPA: 3.36

SKILLS

Programming Languages: C, Python, MATLAB, RAPID, ROS
PLC Software: RSlogix500**,** RSLogix 5000, Siemens TIA Portal, Allen Bradley PLCs, Siemens S7-1200 PLCs, Factory I/O, Connected Components Workbench
SCADA & HMI Tools: Ignition SCADA, FactoryTalk View ME, PanelView, Wonderware InTouch
Robot Programming & Simulation: ABB Robot Studio, RAPID, Factory I/O
Data Analysis & Visualization: Power BI, Tableau, SQL, PostgreSQL
Simulation & CAD: MATLAB/Simulink, Autocad Electrical, Revit Electrical, Fusion 360
Operating Systems: Windows, Linux

RELEVANT EXPERIENCE

Graduate Teaching Assistant, University of South Florida, FL *Jan 2024 – May 2025*

- Conducted hands-on labs in robotics and PLC programming, teaching ladder logic, HMI design, and automation concepts.
- Configured and troubleshot Allen-Bradley and Siemens PLCs, integrating them with sensors, actuators, and SCADA platforms.
- Designed and deployed robotics demonstrations using ABB RobotStudio and robotic manipulators to showcase industrial automation.

Control Systems Engineer (Training & Projects), AGIIT, Chennai, India *Jun 2021 –Dec 2022*

- Programmed and tested **Allen-Bradley (RSLogix 5000) and Siemens (TIA Portal) PLCs** to automate industrial processes.
- Designed and deployed HMI interfaces, linked them with SCADA systems, and integrated PLCs by creating tag databases and performing live system testing for real-time process monitoring and operator control.
- Applied **industrial communication protocols** such as Ethernet/IP, Modbus, and Profinet.
- Implemented **motor control solutions with VFDs**, optimizing energy use and enabling variable-speed operations.
- Worked extensively with **24V DC PLC systems**, wiring I/O modules and configuring control circuits.
- Assisted in preparing and verifying **Bills of Materials (BOMs)** for automation panels and project builds.
- Interpreted **electrical schematics** to guide wiring, installation, and troubleshooting of control panels.
- Worked with **both electrical and mechanical PLC-driven systems** to support industrial automation setups.
- Supported **system troubleshooting, commissioning, and documentation**, ensuring reliable handover to operations teams.

KEY PROJECTS

Height-Based Sorting System – Siemens TIA Portal (S7-1200), Factory I/O *June 2025*

- Developed PLC logic in TIA Portal to detect and sort boxes by height using sensors and actuators, reducing sorting cycle time by 30%.
- Implemented fully automated logic with no manual intervention, ensuring consistent throughput and system reliability.
- Performed virtual commissioning in Factory I/O, achieving 15% higher simulation accuracy through refined sensor-actuator integration.

Water Tank Automation System – Micro850 PLC, Connected Components Workbench, Factory I/O *July 2025*

- Programmed a tank control system using Micro850 PLC; initiated 15-second fill cycle on Start command and tank discharge on Stop command.
- Integrated with Ignition SCADA via Cogent DataHub OPC client-server, enabling real-time monitoring and remote operation.
- Validated control logic through Factory I/O simulation for reliable valve control, tank level management, and system response.