

P
O
R
T
F
O
L
I
O

Muhammad Huzaifa

Automation & OT Engineer

syedmuhammadhuzaifa2000@gmail.com

+92 332 1304560

Karachi City, Pakistan



www.muhammadhuzaifa2000.github.io

I am an aspiring Automation and OT Engineer with a background in Industrial Electronics and hands-on experience in control systems, instrumentation, and industrial automation. My journey so far includes developing real-time profiling systems, working with PLCs, SCADA, and laser triangulation methods, as well as gaining practical exposure to industrial environments during internships.

I am skilled in tools such as TIA Portal, SIMATIC Step 7, MATLAB/Simulink, LabView, and Proteus, and have experience with PLC wiring, sensor integration, and system optimization. I enjoy solving problems where hardware, software, and industrial operations meet, and I'm eager to grow in the fields of automation, operational technology, and smart manufacturing. With a foundation in engineering and a strong drive to specialize in OT, I aim to contribute to projects that enhance efficiency, reliability, and innovation in modern industrial systems.



ABOUT ME

PROFESSIONAL SUMMARY

- 2023** ○ AutoCon Control System Integrators
- 2024** ○ Pakitex Boards (Pvt) Ltd.
- 2024** ○ NED University of Engineering Technology (BE)
- 2025** ○ The Automators (Pvt) Ltd

500+ Hours worked

4 projects completed

Automation & Control Systems

Proficient in PLC programming (Siemens TIA Portal, SIMATIC Step 7) and SCADA system design. Hands-on experience with industrial wiring, sensor integration, and implementing real-time control solutions.

Operation Technology

Understanding of industrial communication protocols, system reliability, and bridging IT with OT for secure, efficient operations. Passionate about applying OT concepts to optimize modern industrial processes.

Instrumentation & Measurement

Experienced with sensors, transducers, and data acquisition systems. Designed and implemented a laser-based real-time profiling system for plywood thickness measurement.

Simulation & Circuit Design

Skilled in MATLAB/Simulink, NI LabView, and Proteus for system simulation, modeling, and testing. Strong background in circuit design, debugging, and practical implementation.

Programming & Embedded Systems

Practical knowledge of Arduino IDE and microcontroller programming. Built small-scale automation projects, focusing on efficiency, reliability, and real-world application.

Data Visualization & Analysis

Practical knowledge of Arduino IDE and microcontroller programming. Built small-scale automation projects, focusing on efficiency, reliability, and real-world application.

SKILLS