

PROFESSIONAL SUMMARY

Entry-Level Automation / Mechatronics Engineer with hands-on experience in industrial automation, PLC programming, SCADA, HMI, robotics, and embedded systems. Skilled in machine automation, PLC-based control systems, sensors and actuators, pneumatic systems, commissioning, and troubleshooting electronic & mechanical equipment. Completed internships at INQUBE Global and SLINTEC. Seeking an Automation Engineer / PLC Engineer role in a technology-driven organization.

EDUCATION

- Bachelor of Science (Hons) in Mechatronics Engineering | SLTC Research University Aug 2020- Dec 2025
Relevant Coursework: Industrial Automation | PLC Programming | Robotics & Automation | Mechatronics System Design | Sensors & Instrumentation | Industrial Electronics | Computer Systems Architecture | Manufacturing Processes | Electrical & Electronic Circuits | CAD/CAM | Embedded Systems | Industrial Control Systems | Pneumatics & Hydraulics | Fluid Mechanics | Power Electronics.

Academic & Practical Exposure:

- Hands-on experience in PLC programming, control panel design, industrial wiring, and industrial automation laboratory practices.
 - Design and integration of mechanical, electrical, and embedded systems, with application of control theory, PID control, and motion control systems.
- G.C.E. A/LEVEL | SIRISAMAN M.M.V | Deraniyagala. 2019 / 2014
Combined Mathematics – C | Physics – C | Chemistry - S.

PERSONAL PROJECTS

- Automated Pharmaceutical Sorting System. Oct 2025
Final Year Project
 - Designed an automated pill dispensing system using Raspberry Pi, Arduino, stepper motors, and sensors, integrating mechanical, electrical, and embedded systems for accurate dispensing.
- PLC-Based Heat Press Machine Automation. Apr 2024
For INQUBE Global (Pvt) Ltd.
 - Automated a heat press machine using PLC control and pneumatic actuation, improving temperature control accuracy and reducing manual setup time by approximately 25%.
- AC Servo Conveyor Sorting System. Jun 2022
SLIR Academy
 - Developed a PLC-controlled conveyor sorting system using an AC servo motor and pneumatic sorting mechanism, achieving consistent positioning accuracy and improving sorting cycle time by approximately 20%.
- Grid Following Robot with Pick & Place Arm. Mar 2022
SLTC Robot Club Event
 - Designed and implemented an Arduino-based grid-following robot with a pick-and-place mechanism using PID control.
- Designed, Assembled, and controlled wire inserter machine. Feb 2024
For INQUBE Global (Pvt) Ltd.
 - Designed, assembled, and controlled an automated wire inserter machine using PLC, stepper motor, pneumatic cylinder, and Arduino microcontroller.

PROFESSIONAL EXPERIENCE

- **Brandix INQUBE Global (Pvt) Ltd** Jan 2024 – Jun 2024
Automation Engineer Intern On - Site
- Designed and automated industrial machinery using XINJE XD3 PLCs, stepper motors, sensors, pneumatic systems, and microcontrollers, supporting multiple production-line automation projects.
 - Developed a label-attaching automation system for JUKI AMS 221EN, reducing manual operation time by 30% and improving overall line efficiency and consistency.
 - Assisted in PLC wiring, control panel assembly, testing, and commissioning, contributing to successful machine handover with minimal downtime.
 - Performed system troubleshooting and fault diagnosis, helping reduce machine stoppages during trial and production runs.
 - Contributed to the development and testing of a fully automated laser cutting machine, assisting in mechanical setup, control integration, and performance testing.
- **SLINTEC (Pvt) Ltd** Oct 2023 – Dec 2023
Maintenance Engineer Intern On - Site
- Performed preventive and corrective maintenance on electrical, mechanical, and automation systems, improving machine reliability and uptime.
 - Assisted in troubleshooting PLC, motor, sensor, and pneumatic system faults, supporting faster fault resolution and reduced production delays.
 - Worked closely with senior engineers during machine inspections and repairs, gaining hands-on experience in factory maintenance operations.

TECHNICAL SKILLS

- **Programming Languages**
C/C++ / Python / HTML+CSS
- **PLC & Automation**
PLC Programming (XINJE XD3) / Ladder Logic / SCADA / HMI / Industrial Automation
- **Embedded Systems**
Raspberry Pi / Arduino / ESP32 / ESP8266 / Sensors & Actuators
- **Industrial Systems**
Pneumatics / AC Servo Motors / Stepper Motors / Control Panels / Electrical Wiring / Preventive Maintenance
- **Designing Software & Web Tools**
SOLIDWORKS / AutoCAD / Fusion 360 / MATLAB / Proteus / PCB Design / Git / GitHub / VS Code / AI Tools
- **Soft Skills**
Problem Solving / Team Collaboration / Analytical Thinking / Communication / Quick Learning

CERTIFICATIONS

- **CNC Machine Shop Practical Training** | ACECAM Technologies(Pvt)Ltd. Jul 2024
 - CAD/CAM software, machine setup.
 - Programming (G-code, CAM software).
- **Robotics & Industrial Automation** | SLIR Academy , Pannipitiya. Jan - Jun 2022
 - PCB Design.
 - Micro-controller Programming.
 - Industrial Automation.
 - IOT & web development.
- **ROAD TO CODEMANIA** | SLTC Research University, Padukka. Jan - Jan 2021
 - PYTHON Programming.

REFERENCES

References available upon request.