Danial Lariei

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Highlighted Qualifications

- Strong knowledge of SCADA systems, industrial automation, and control systems with experience in PLC programming (Allen-Bradley Logix) and SCADA HMI platforms (CopaData Zenon).
- Hands-on experience with networking, including Ethernet/IP, BACnet, TCP/IP, and industrial networking.
- Persistent work ethic with strong problem solving skills and a focus on prioritized solutions.
- Skilled in creating IoT solutions integrating hardware and cloud technologies, improving system efficiency.

Education

McMaster University, Hamilton, Ontario   Expected Dec 2025

Bachelor of Technology in Automation Engineering, Minor in Business Management

Courses: Advanced PLC, Control Systems, Networks and Databases, Project Management, Embedded Systems

Lab work: SCADA, IoT Projects, Cloud Integration, Instruments (sensors, valves, and gauges), HMI, PLC

***Vice-President of Finance**, AIMED (Artificial Intelligence in Medicine Student Society)*   Sep 2022 – Present
***Varsity Fencing,** Ontario University Athletics*   Sep 2023 – Present

Projects

Arduino Robot Arm with Smartphone Control |SolidWorks, Arduino, C++, Electronics   Aug 2023

- Designed and built a functional Arduino-powered robot arm controlled via a custom Android app.
- Developed and integrated a wireless control system using an HC-05 Bluetooth module, enhancing usability.
- Assembled and programmed servo-driven robotic components, including a gripper mechanism.
- Successfully implemented smartphone control, showcasing advanced mechatronics and IoT integration.

Smart Alarm Clock IoT | Arduino, C++, MQTT, LabVIEW   Nov 2024

- Developed a smart alarm clock integrating sensors and actuators for interactive alarm and snooze features.
- Programmed a buzzer and servo motor for tactile alarm feedback, enhancing user interaction.
- Enabled cloud connectivity using MQTT to track user behaviour and visualize data trends over 30 days.

Experience

Sales and Technical Coordinator, CanaControl Automation Inc – Toronto, ON   Sep 2024 – December 2024

- Represented CanaControl at international trade exhibitions (ACHEMA, SPS), engaging with over 30 suppliers and clients and leading to new partnerships and insights into automation solutions.
- Delivered technical insights and promoted IoT and Industry 4.0 technologies to potential clients.
- Conducted market research to align business strategies for the $3.5bn Canadian market.

Project Coordinator, Technology, Plan Group – Vaughan, ON   Jan – Sep 2024

- Led coordination across AV, Networking, Electrical, and Mechanical teams on high-stakes P3 projects, achieving client satisfaction by delivering a fully integrated design and estimations.
- Automated project tasks with Python and VBA, reducing overhead by 60% and accelerating data access for faster decision making.
- Managed AV maintenance at Corner Brook Acute Care Hospital, achieving swift issue resolution within 48 hours and strengthening client trust through proactive support.
- Overhauled documentation workflows, reducing change request processing time by 30% and boosting project visibility for stakeholders.

Skills

Programming: PLC, Python, C++, C, VBA, JavaScript, HTML, CSS, MySQL
Developer Tools: MS Project, Arduino, Enterprise Architect, MATLAB, LabView
Mechanical Design: Fusion 360, SolidWorks, AutoCAD
Networking: MQTT, LoRa, DeviceNet, Ethernet IP, BACnet, TCP/IP, PROFIBUS, EtherCAT
Data Analysis: Minitab, Microsoft Excel, Python