Murtadha Nisyif

Kitchener, Ontario, Canada mnisyif@gmail.com— +1 (519) 502-8463 Website — LinkedIn — GitHub

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Hiring Team ATS Automation Cambridge, ON

Dear Hiring Team,

I am excited to apply for the Control Systems Software Designer position at ATS Automation. With solid foundation in software development and hands-on experience in designing and deploying integrated systems, I am confident in my ability to contribute to your team and help drive the continued success of ATS Automation.

In my recent role as a Machine Learning Engineer at the University of Guelph, I led end-to-end data acquisition, diagnosis, and analysis to uncover key latency and bandwidth correlations in real-time systems. This hands-on experience with edge-cloud environments strengthened my ability to design, deploy, and optimize intelligent systems under varying operational conditions.

Previously, as a Software Developer on an Assistive Robotic Feeding System built with ROS2, I tackled real-time hardware-software integration challenges. I also developed a Smart Door system, integrating ESP32 microcontrollers, PIR sensors, and geo-fencing features to provide seamless automation. In another role as an IT Analyst, I refined my problem-solving and infrastructure skills by reading electrical schematics, configuring Fortinet firewalls, and modernizing legacy network environments.

Beyond my formal roles, I am deeply engaged in embedded systems and industrial automation. I independently designed and built a low-cost, ESP32-based PLC, programming it in Structured Text and Ladder Logic using OpenPLC to support automation safety logic. In my homelab, I maintain a self-hosted environment where I automate lighting, HVAC, and security systems—deepening my expertise in real-time communication protocols, device interoperability, and fault diagnostics.

Throughout my work, I've leveraged C/C++, Python, Rust, and Java alongside Ladder Logic (PLC) to deliver robust, production-grade systems. My practical experience with tools like Git, Docker, Terraform, and Jenkins, as well as my attention to functional specifications and documentation, prepares me to contribute meaningfully to ATS Automation industrial automation projects—from system design through commissioning.

I am confident my experience, technical expertise, and proactive problem-solving approach make me a strong candidate for the Control Systems Software Designer role and align with ATS Automation's needs. I look forward to the opportunity to discuss how my background aligns with ATS Automation's mission. Please feel free to contact me at mnisyif@gmail.com or +1 (519) 502-8463 at your earliest convenience.

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Sincerely,

Murtadha Nisyif