

AMAN ZAVERI

647-676-8981 | a2zaveri@uwaterloo.ca | [LinkedIn](#) | [GitHub](#)

Dear Hiring Manager,

I am writing with immense enthusiasm to express my interest in the Software Engineering Co-op position at Electrans Technologies Ltd. Your company's commitment to innovation in robotic systems for the commercial vehicle industry deeply resonates with my passion for developing cutting-edge technology solutions. The opportunity to contribute to the entire product lifecycle, from concept to production, at a dynamic company like Electrans Technologies Ltd is incredibly appealing.

My experience in developing and deploying production-ready software aligns perfectly with the responsibilities outlined in the job description. For instance, I engineered a tire-pressure system in C++ using HAL and AIDL, achieving sub-second alerts and 99% reliability. This demonstrates my proficiency in firmware development and my ability to deliver robust and dependable solutions for embedded systems, which I believe would be directly applicable to Electrans' automotive mechatronic products.

Furthermore, my experience enhancing data handlers through asynchronous queues and lock-free buffers to boost throughput by 45% showcases my understanding of computer networking fundamentals and performance optimization. I am also adept at database management, as evidenced by my development of a real-time React analytics platform with Flask and PostgreSQL, serving 1,000 enterprise users. My ability to design and implement data-driven solutions would be valuable in supporting the development and maintenance of Electrans' database systems.

I am confident that my skills in C, Python, Linux, Git, and my familiarity with embedded communication protocols, combined with my passion for innovation, make me a strong candidate for this co-op position. I am eager to learn from and collaborate with the Electrans Technologies team. Thank you for your time and consideration. I look forward to hearing from you soon.

Aman Zaver