

AMAN ZAVERI

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

Dear Hiring Manager,

I am writing to express my enthusiastic interest in the Electrical Engineering Coop position at University of Waterloo, as advertised through Electrans Technologies Ltd. (ETL). ETL's commitment to innovation and sustainability in the commercial vehicle industry deeply resonates with my passion for developing cutting-edge electrical powertrain and robotic systems. The opportunity to contribute to a multidisciplinary team in a fast-paced environment, bringing a product from concept to reality, is incredibly exciting.

My experience in designing and developing electrical systems, combined with my proficiency in embedded software and vehicle communication protocols, aligns perfectly with the responsibilities outlined in the job description. For example, I engineered a tire-pressure system in C++ using HAL and AIDL, achieving sub-second alerts with 99% reliability. This project demonstrates my ability to design robust and reliable embedded systems, which I believe is directly applicable to developing electrical systems and PCBs for ETL's mechatronics vehicle system.

Furthermore, my experience with automotive protocols such as CAN, as well as my proficiency in Python and C/C++ programming for embedded systems (particularly for NXP S32K), makes me confident in my ability to contribute meaningfully to the team. I have also developed Wi-Fi validation pipelines in Python/C++ integrated with Jenkins CI/CD, resulting in a 40% reduction in test time. This experience highlights my ability to design, implement, and test efficient systems, ensuring product performance and reliability, key requirements of this role.

I am eager to apply my skills and knowledge to contribute to the success of Electrans Technologies Ltd. and am confident that I can quickly integrate into your team and make a significant impact. Thank you for considering my application. I look forward to hearing from you soon.

Aman Zaveri