AMAN NIJJAR

Fourth Year Computer Engineering Undergraduate

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LETTER OF INTENT - ENGINEERING CO-OP, ELECTRICAL & INSTRUMENTATION

To Fortis BC,

My name is Aman Nijjar and I am a 4th year computer engineering student from the University of Victoria, located in Victoria, BC Canada. I wish to start a Co-op with your company this upcoming September. A little about myself: I enjoy hiking around the local lakes, trying different foods, and helping out at my uncles auto shop. My peers describe me as spontaneous, confident, and motivated because of my ability to execute activities with little to no planning time. A 24-hour local expedition eating foods in different parts of Vancouver BC, an early morning picnic at Cadboro Bay, and after-hours basketball sessions with the old team-mates are a few instances.

That said, I am a motivated student experienced with preparing documents/reports from my time as President of an underwater robotics club, comfortable speaking and explaining technical work, and have learned a wide-range of skills after taking an electrical drive and power class at UVic. I am experienced with SolidWorks in regards to 2D/3D drafting software and I have a clean, class 5 driver's licence. I am currently pursuing an internship with the Autonomous Underwater Vehicle Interdisciplinary Club (AUVIC) as a Junior Electronics Engineer with my main task being to integrate a CAN bus into the next autonomous underwater vehicle, Trident. To that end, I built an affordable USB-to-CAN dongle to test sending messages to the embedded controllers.

In my electrical drive class, I had the opportunity to design a weight-shifting system for an aircraft with the same requirements and information my professor was given when he took the job. This system's purpose was to minimize the pitch induced by gusts of wind by shifting a cart along a 2m long track. My team came up with the solution to use a pulley system with a chain to push/pull the cart; technically correct as we justified our design, however it was not the preferred solution. long-story short, we did very well and I learned instead of designing something ground-up, I should spend more time finding a good existing design and tweak it to fit my requirements.

Thank you for taking the time to read my application. If my background, skills, and experience is in line with what Fortis BC looks for in their co-op students, please feel free to contact me at anijjar@uvic.ca.

All the best,

Aman Nijjar