

September 4, 2024

Zaber Technologies Ltd., Human Resources
Vancouver, British Columbia

Dear Hiring Manager:

I am writing to express my strong interest in the Embedded Software Developer Co-op at Zaber Technologies. As a software engineering student at the University of Victoria, I am eager to apply my experience in low-level programming and full-stack development to contribute to Zaber Technologies's projects. This opportunity excites me because it offers the chance to work on embedded systems and real-world motion control solutions that align with my career goals.

Throughout my academic and project work, I have developed a solid foundation in software engineering, with specific experience that aligns well with the requirements of this position:

- **C++ and Embedded Systems:** I have worked extensively with C++ and have experience programming microcontrollers and developing systems where performance and resource constraints are critical. Additionally, I've worked on hardware-related projects like a 3D Rubik's Cube simulation using C++.
- **Mechatronics and Real-Time Systems:** I am excited to contribute to motion control systems. My coursework and experience in real-time systems have equipped me with the skills to handle time-sensitive tasks and interact with hardware components.
- **Testing and Documentation:** I have a strong background in unit and integration testing, using tools like JUnit, pytest, and Postman. I prioritize clear and thorough documentation to ensure maintainability and ease for future developers.
- **Full-Stack Development and Collaboration:** My full-stack development experience includes technologies such as TypeScript, React, and Python. I have collaborated with peers through hackathons, coding workshops, and mentorship roles with the Engineering Students Society and VikeLabs.

I am currently available for a **4-month or an 8-month** work term and would be open to the possibility of participating in more than two consecutive terms. Thank you for considering my application. I look forward to the possibility of speaking with you further about this role.

Most Sincerely,



Arfaz Hossain (He/Him)
Software Engineering Student,
University of Victoria