

Ariq Muldi

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Attn: Hiring Manager
Astera Labs
3174 Lower Residence Lane
Kelowna BC, V1V 1V8

Dear Hiring Manager,

I would like to present my application for the Astera Labs Firmware Engineer (Intern) role. As a fourth-year standing Bachelor of Science student majoring in Computer Science and minoring in Data Science, I am passionate about software and working in team environments to create efficient, practical applications. I love Astera Lab's involvement in making solutions designed to unlock the potential of AI and cloud infrastructure. AI and the cloud have always been a big interest of mine and would love to contribute to its development through this role. Enrolled in the Co-op program at UBC's Okanagan campus, I am available for 4, 8, or 12-month terms starting in May of 2025.

I have a strong academic foundation in Computer Science and a passion for embedded software development, with relevant coursework in computer architecture, operating systems, and networks. My technical expertise includes proficiency in C for firmware development, Python for scripting from personal projects, and experience with developer workflows such as Git. Additionally, I have worked with debugging tools and techniques when making projects, especially in team based environments to prevent software failures. From this, my hands-on experience with system-level programming and problem-solving aligns closely with Astera Labs' focus on high-performance connectivity solutions.

In my recent projects, I contributed to two impactful software solutions that highlight my technical and collaborative abilities. In a team of 3, I helped develop the Makerspace YK Management System, an automated membership management platform that optimized user data tracking, payment processing, and scheduling for over 1,000 members for the non-profit organization. Leveraging Prisma and PostgreSQL for the backend and Remix with Tailwind CSS for the frontend, I delivered a user-friendly system that improved operational efficiency and streamlined member onboarding. Additionally, I contributed development to LearnCoding, an adaptive e-learning platform benefiting over 500 students at UBC. I implemented Matomo Analytics to track user behavior, integrated the UBC Canvas API for seamless compatibility, and secured access controls for 60+ faculty members using PHP and MySQL. Both projects demanded a combination of technical proficiency, problem-solving, and strong communication skills, which I am eager to bring to the Astera Labs Firmware Engineer (Intern).

I am confident that my previous experience, projects, academic background, and passion for the technology will serve me well in this position, and would like to restate the interest I have in software development and the vision you have of transforming data-driven applications by offering cutting-edge, software-defined architectures. I would love to enjoy having the opportunity to discuss the other things I can contribute to Astera Labs. Thank you for your consideration.

Sincerely,
Ariq