

ALI-ARYO OTUFAT-SHAMSI

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🔗 <https://github.com/Ali-Aryo>

Technical Skills

Languages: C++/C, Java, HTML/CSS, JavaScript, VHDL, Python, LaTeX

Developer Tools: VS Code, Eclipse, Git, Android Studio, Arduino IDE

Technologies/Frameworks: Linux, Windows, Mac OS, Ubuntu, GitHub, GitLab

Technical Experience

Firmware Developer

Sep 2022 – Present

Robot Soccer Club - Simon Fraser University

Burnaby, B.C. Canada

- Develop and optimize firmware in **C** for soccer-playing robot circuit boards, featuring an **atsame70q21**, an **ARM-based microcontroller**. Improving overall system performance and functionality by **debugging** and **unit testing** components such as DC/BLDC motors, kickers, and dribblers using **VS Code**. Calling various **class members** and utilizing **C pointers**.
- Streamline the version control process, reducing merge conflicts and increasing team productivity by collaborating through **Git** and **GitLab**, creating and managing branches, and performing thorough code reviews to maintain high-quality code standards.
- Enhance communication reliability between the robot and base station, ensuring robust command and control systems by integrating **UART** communication and utilizing **RF signals**, enabling seamless data transfer and coordination from the robot to the base station.

Projects

Website Portfolio | *Personal* | HTML, JavaScript, CSS, Git

Aug 2024 – Present

- Developing a responsive, multi-page portfolio website from scratch using **HTML**, **CSS**, and **JavaScript** to showcase my projects and skills, resulting in an engaging online presence that effectively demonstrates my technical expertise.
- Implemented **CSS** animations and transitions, such as hover effects and smooth scrolling, to improve user experience and visual appeal, increasing visitor engagement and retention on the site.
- Designing and structuring dynamic web pages with **JavaScript**, creating interactive elements and seamless navigation that enhance user interaction and accessibility.

Reminiscence Therapy App | *Software Engineering, SFU* | Java, Android Studio

Sep 2024 – Dec 2024

- Designing** and **developing** an **Android** app using **Java** and **Android Studio** that supports people with dementia (PWD) and their caregivers through reminiscence therapy, aiming to enhance the quality of life and cognitive engagement for users. Providing code that is up to **Software Engineering** standards.
- Ensuring seamless collaboration and code integration, resulting in efficient version control, by utilizing **Git** and **GitLab** to manage the project repository and coordinate contributions among team members using unique branches
- Achieve project milestones and team cohesion by taking a **leadership** role, using effective communication, time management, and organizational tools to meet deadlines.

Work Experience

Jr. Estimator

Jan 2024 – May 2024

EllisDon

Richmond, B.C. Canada

- Conduct quantity take-offs and pricing analysis, collaborating with subcontractors to support bid closings with accuracy and attention to detail.
- Participate in team meetings to discuss project updates and coordinate tasks, fostering teamwork and maintaining alignment on project goals and deadlines.

Mountain Bike Coach & Digital Marketing Manager

March 2022 – Aug 2024

Escape Adventures

North Vancouver, B.C. Canada

- Lead coach at Escape Adventures camps, providing personalized training and fostering a safe, enjoyable environment for mountain bikers of all skill levels.
- Developed and executed social media and digital marketing strategies, driving brand awareness, engagement, and leading traffic through compelling content across various platforms.

Relevant Coursework

- | | | | |
|------------------------|-----------------------|---------------------------|--------------------|
| • Data Structures | • Algorithms Analysis | • Artificial Intelligence | • Embedded Systems |
| • Software Engineering | • Software Design | • Computer Architecture | • Digital Logic |

Education

Simon Fraser University

Sep 2022 – Jun 2026

Bachelor of Applied Science - Engineering (BAS)

Burnaby, B.C. Canada