

Tariq Wadi (He/Him) Computer Engineering Student

Kelowna, British Columbia

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TECHNICAL SKILLS

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| <ul style="list-style-type: none">• Computer• Python• JavaScript• MATLAB• Verilog | <ul style="list-style-type: none">• Hardware• GitHub• ROS2• SolidWorks• Altium | <ul style="list-style-type: none">• Software• Arduino• Sensor Integration• PCB Design• Circuit Debugging |
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EDUCATION

University of British Columbia
Bachelor of Applied Science, Computer Engineering

Expected May 2028

Certification: CS50's Introduction to Programming with Python, Harvard University

July 2025

TECHNICAL WORK EXPERIENCE

The Scott-Morgan Foundation, Remote
Software Engineer Intern

September 2024 - Present

- Engineered a full stack tailored AI voice assistant prototype with ElevenLabs API, enabling hands-free interaction and optimizing performance to cut response latency by ~40%
- Established a standardized defect reporting and resolution workflow, improving bug fix quality and reducing recurrence by ~30%
- Revamped core application logic, enhancing responsiveness by ~35% and ensuring adherence to accessibility standards for an inclusive user experience

OTHER WORK EXPERIENCE

Tuesday Communications, Dubai, United Arab Emirates
Digital Communications Intern

June 2023 - August 2023

- Analyzed market trends in local industries and delivered data insights, guiding strategic direction for 3+ major client campaigns
- Collaborated with creative teams to refine 10+ marketing materials, maintaining consistent brand identity across campaigns and client deliverables

TECHNICAL PROJECTS

HandSpeak, Real-Time Hand Gesture Recognition, Personal Project

February 2025 - Present

- Developing a real-time sign language recognition system using TensorFlow and computer vision to improve accessibility for those hearing-impaired
- Implemented hand gesture recognition with deep learning models, achieving 70%+ accuracy in detecting and classifying sign language symbols

Bernard AI, Tailored AI Voice Assistant, The Scott-Morgan Foundation

May 2025 - May 2025

- Designed and developed an AI-based voice assistant, enabling hands-free interaction through speech-to-text and text-to-speech technologies, reducing response time by ~40% and improving prototype usability
- Integrated conversational memory and internet context for personalized responses



ENGINEERING STUDENT TEAMS

Marine Robotics, UBC School of Engineering

September 2025 - Present

Software Team Member

- Designing and implementing core ROS2 communication architecture for an AUV, ensuring low-latency data transfer between control systems and on-board hardware
- Developing firmware for embedded controllers, revamping real-time operation and reducing processing latency by ~30%
- Managing integration and coordination pipeline for sensor and actuator hardware, creating software interfaces to ensure precise timing and synchronized control

OK Motorsports, UBC School of Engineering

September 2023 - January 2025

Grounded Low Voltage GLV Team Member

- Designed and implemented PCB and digital circuits for low-voltage systems of an electric Formula SAE vehicle, enhancing system reliability and decreasing wiring complexity by ~25%
- Developed embedded systems for the Tract System and Steering Wheel Dashboard, revising vehicle control precision and enabling real-time data collection
- Led transition to EV by integrating low-voltage electronics into car's power and control systems

VOLUNTEER EXPERIENCE

Canadian Engineering Leadership Conference, Fredericton, New Brunswick

January 2025 - January 2025

UBC Delegate

- Represented UBC at Canada's premier engineering leadership conference, engaging with industry leaders and peers
- Engaged in professional development panels on innovation and leadership, applying strategies to increase efficiency across multiple engineering projects by ~40%
- Engaged in discussions on industry trends and future engineering education, applying insights to overhaul workshop design and participant engagement

NextGen STEM Outreach, Kelowna, British Columbia

January 2025 - January 2025

STEM Outreach Volunteer

- Led a hands-on coding workshop for kids, teaching game development concepts using Microsoft MakeCode
- Collaborated with a team of three volunteers to deliver an engaging and interactive coding experience

PROFESSIONAL AFFILIATIONS

Engineers and Geoscientists BC

January 2023 - Present

INTERESTS & ACTIVITIES

- Create marketing campaigns and graphics for the Arab Student Club on campus
- Developing 2D platformer game using elements inspired by largest titles in genre
- Discovering hiking trails in the Okanagan, exploring scenery
- Regular strength training and fitness as part of a personal health routine

