

Umair Fatimi

linkedin.com/in/umair-fatimi | umair.fatimi19@gmail.com | 604-505-4974

TECHNICAL SKILLS

Programming	C, C++, SystemVerilog, Python
Developer Tools	Quartus & ModelSim, Altium Designer, MATLAB & Simulink, git
Digital Systems	Computer Architecture, VLSI, Computer Communications

EDUCATION

University of British Columbia Bachelor of Applied Science – Electrical Engineering • GPA: 80% • Computer Architecture: A+ • Electrical Engineering Design Studio: A+	May 2026
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WORK EXPERIENCE

University of British Columbia , Vancouver, Canada Teaching Assistant • Taught signals & systems concepts to a class and demonstrated practical use cases • Graded assignments and provided targeted feedback for mistakes based on flaws in understanding • Utilized office hours to guide students by using examples and analogies to ground concepts to the real world	Jan 2025 – Present
Telus , Vancouver, Canada Junior Marketing Consultant • Cooperated with the team to maximize customer reach leading to an increase in sales • Identifying and providing personalized offers to customers based on needs, increasing customer satisfaction • Trained new members on marketing methodologies and communication giving rise to more informed marketing	May 2023 – Aug 2023

TECHNICAL PROJECTS

5-Bar Robot , UBC • Designed a digital circuit to read a motor's position with a resolution of 1200 counts per revolution • Modeled the mechanical system using SolidWorks and MATLAB to improve the control system leading to a 50% slash in rise time • Cooperated with team to design an image processing algorithm to convert any image into array of angles for motors to draw desired image
ARC4 Cracking Circuit , UBC • Cooperated with partner to design a ARC4 cracking circuit in SystemVerilog to decipher a 255-byte encrypted string • Implemented multiple decryption modules to crack the message in parallel leading to a large decrease in cracking time per message.
Light Rendering Engine , Personal Project • Designed in Python using object-oriented design principles to make engine more scalable and easier to upgrade • Optimized engine to simulate light rays and their interactions with objects in 3D with a 0.3 second render time
Remote Control Car , UBC • Designed a communication protocol using C between car and remote setting latency to below 50ms • Collaborated with analog team to hone circuit design and communication frequency, leading to a further 40% improvement in communication range

AWARDS

Dean's Honour List	2024
Outstanding International Student Award	2021
AP Scholars With Distinction	2021