

Aamir Mohamed

India / Oman / Canada | **in** Aamir Mohamed |  aamirmohamed.com |  contact@aamirmohamed.com

EDUCATION

University of Alberta

B.Sc. Computer Engineering (Nanoscale System Design), Co-op

Edmonton, Canada

Sept 2022 – Present

GPA: 3.9/4.0, Dean's List, First Class Standing | CAD \$75K+ Merit Scholarships

Competitive Awards: Champion – **Innovative Design** at the University of Alberta Engineering Competition 2024, Western Engineering Competition 2025 and Canadian Engineering Competition 2025.

PROFESSIONAL EXPERIENCE

NVIDIA

Hardware Engineering Intern, Co-op

Edmonton, Canada

Sept 2025 – Present

- Developed **Python** automation pipelines and **digital twin** simulation workflows supporting next-generation semiconductor manufacturing analysis.
- Processed nanoscale simulation datasets to improve engineering workflows and enable data-driven collaboration with global semiconductor partners.

National Research Council Canada - National Institute for Nanotechnology

Fabrication Research Officer & Research Analyst, Co-op & Part-time

Edmonton, Canada

May 2024 – Aug 2025

- Conducted **semiconductor materials** and **nanofabrication** research across two co-op terms with continued part-time contributions between placements.
- Supported fabrication workflows, experimental analysis, device characterization, and technical documentation for advanced device development.
- Co-authored **two internal peer-reviewed research publications**.

DiscoverE, Faculty of Engineering, University of Alberta

Curriculum Specialist & Instructor

Edmonton, Canada

Jan 2024 – Apr 2024

- Designed and delivered **ECE** and **robotics** curricula for Grades 8–11, creating hands-on STEM experiences focused on engineering design, technical problem-solving, and innovation.

LEADERSHIP & GOVERNANCE

Engineering Students' Society, University of Alberta

Sep 2022 – Mar 2025

President

May 2024 – Mar 2025

Led one of Canada's largest engineering student organizations representing **5,000+ students**, managing a **CAD \$500K annual operating budget** and coordinating **150+ volunteers**. Directed strategy across academic advocacy, governance, stakeholder engagement, and industry partnerships. Initiated the ESS's **first three-year strategic planning framework** to improve long-term organizational continuity.

Vice President (External Relations)

May 2023 – Apr 2024

Led a **25-member** team responsible for corporate partnerships, sponsorships, and industry engagement. Increased employer participation by **45% (58→84 companies)** and sponsorship revenue by **75% (CAD \$60K→\$105K)**, while leading successful **CFES conference bids** that secured hosting rights for the **2026 Western Engineering Competition** and **2027 Canadian Engineering Leadership Conference**.

University Governance Representative, University of Alberta

Students' Union Councillor & General Faculties Council Representative

Jan 2023 – Dec 2025

Elected representative on the **UASU Students' Council** and **General Faculties Council**, the university's highest student and academic governance bodies. Contributed to decisions on academic policy, curriculum, and a **CAD \$15M annual student union budget**. Chaired and served on committees spanning finance, policy review, undergraduate funding, elections, and academic affairs while leading multiple governance initiatives.

SPECIALIZED SKILLS

Technical: Python, C++, MATLAB, VHDL, Git, Linux, Digital Logic Design, Computer Architecture, FPGA Development, Digital Twin Simulation, Ansys Lumerical, COMSOL Multiphysics, Semiconductor Manufacturing, Nanofabrication, Semiconductor Characterization, Process Optimization, Circuit Analysis, KiCad, LTSpice, Simulink.

Strategy & Governance: Strategic Planning, Stakeholder Management, Organizational Leadership, Corporate Partnerships, Governance, Project Management, Cross-Functional Collaboration, Public Speaking.