
ABDELRAHMAN(ABOD) ABBAS

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Education

Bachelor of Science: Electrical Engineering And Computer Science
University of Calgary

Expected in 05/2025
Calgary, AB

- Double Major in Computer Science and Electrical Engineering
 - Minor in Computer Engineering
 - Dean's List
 - GPA: 4.0/4.0
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Skills

- Skilled in C, C++, JavaScript, Java, Rust and Python
 - Mobile Development: React Native
 - Web Development: React, Flask, Django, Vue, PHP
 - Embedded Systems: Arduino, AVR, STM32
 - Testing and debugging
 - Databases: MySQL, Postgresql, MongoDB
 - AWS, Google Cloud
 - GitHub/Git/Bash, Docker Hub
 - Machine Learning: TensorFlow, OpenCV, SciKit, PyTorch
 - Unity Game-development
 - VR/AR Development
 - Agile Development
 - Solidity, Smart Contracts
 - Docker and Kubernetes
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Work Experiences

Undergraduate Research Assistant (NSERC)
University of Calgary

05/2021 to 09/2021
Calgary, AB

- Took active role in research projects under the guidance of Dr. Behrouz Far, a Software and Electrical Engineering professor at the University of Calgary.
- Used Flask and Python to develop forms, databases, serial-port connections, and many more web features.
- Conducted research in the field of machine learning and software engineering using science kit and tensor flow.
- Prepared data and trained machine-learning algorithms.
- Applied research findings into real-life cases in remote health.
- Fully developed and incorporated multiple functionalities of a multiagent dashboard UI application, as well as, pursued a 60 hour long machine learning course.

Software Team Member
University of Calgary - Extracurricular Clubs

09/2020 to Current
Calgary, AB

- SOAR Satellite: ensured all satellite functions are adapting as needed and that the on-board computer must be able to receive instructions as well as carry out pre-defined functions for assigned cases.
- Tech Start: worked on a note summarizer app to assist students with time-management
- Schulich Space Rover Team: developed the website and the backend-system, such as mapping waypoints for the rover, displaying various camera and sensor inputs, as well as controlling the movement of the rover-arm and rover itself
- Go Baby Go: supported children living with limited mobility using ride-on adaptive toy cars
- Schulich Racing: Contributed to the successful design, manufacturing, assembly and testing of a two-third size Formula 1 racing car

- Overall, I was able to meet challenging project deadlines within multiple team-oriented workplaces.

Community Service

09/2020 to Current

University of Calgary - Extracurricular Clubs

Calgary, AB

- Junior president for Schulich Ignite: Offered free introductory Python workshops to high school students where they were able to explore the fundamentals of coding in a fun and interactive environment
- Student and Alumni Commissioner for the ESS: responsible for inclusivity events and connecting students to the services of the Engineering Students' Society
- VP Academic for the Competitive programming club: Organized a couple of western Canada wide competitive programming contests
- Emergency Volunteer for Islamic Relief: Organized huge fundraisers/gathering of all kinds every two-weeks, contributing a big population of the Muslim community in Calgary to help both raise money for countries in crises, like Kashmir or Palestine, and bring many of the Muslim community together in joy and learning.

Technology Camp Counselor

06/2020 to 09/2020

Coded-Minds

Calgary, AB

- Collaborated with other camp counselors to plan and design fun and enriching STEM curriculums/activities for campers.
- Communicated with parents about campers' activities and reported concerns and suggestions to Supervisor.
- Coordinated and led Lego-Mindstorms, Web Design, and Arduino Camps for both small and large groups.
- Factored-in abilities, needs and interests of participants in development of events and programs.
- Kept students on-task with proactive behavior modification and positive reinforcement strategies.

Other Involvements

High School Research:

- I was involved as a Research Assistant at the UofC in quantum information theory research, inverted pendulum research, and HoloLens development research as a high school student.

Basketball:

- I was the captain of my high school basketball team which placed first in provincial tournaments 2 years consecutively.
- Founded a men's league team where I applied for and received \$1000 in funding.

Sunday School:

- Developed a flexible business plan to successfully raise an annual profit of \$6,000 through various fundraisers initiatives for my Sunday School,
- In return, this funded an annual community event that celebrated 1000 parents, teachers, and students for a successful and eventful year of teaching.

Awards and Scholarships

- Antje Graupe Pryor Award, 2022 (UofC)
- Trajan and Florica Nitescu Scholarship, 2021 (UofC)
- Louise Mckinney, 2021 (UofC, GPA in top 350 students at the University).
- NSERC – Undergraduate Student Research Award, 2021 (NSERC)
- Owen Heart Foundation Honorarium, 2020 (The Calgary Foundation)
- President's Admission Scholarship, 2020 (UofC).
- BME-Schulich Award (Declined), 2020 (UofC)
- Schulich School of Engineering Dean's Entrance Scholarship, 2020 (UofC).
- Alexander Rutherford Scholarships, 2020 (Alberta Government).