Fawwaz Hameed

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EDUCATION

University of Alberta | Edmonton, AB **May 2028**

B.S.c Mechanical Engineering Co-Op | GPA: 3.3/4.0

- **Courses:** Mechanics of Materials, Material Science, Fluids Mechanics, Heat Transfer, Mechanical Design, CAD

TECHNICAL SKILLS

CAD: SolidWorks, AutoCAD, Fusion360
Simulation: Ansys Discovery, Ansys Mechanical, Ansys Fluent
Programming Languages (ordered by proficiency): Python, C/C++, C#, MatLab
Software & Development Tools: Git/Github, Azure DevOps, Visual Studio

RELEVANT EXPERIENCE

Ansys | Waterloo, ON (Remote) **Aug. 2025 - Present**

Software Testing Co-op Student

- Gained deep hands-on experience with **Ansys Discovery,** applying FEA and CFD Fundamentals to perform R&D Verification
- Applied software testing and QA methodologies to validate new features, assess usability, and ensure release consistency
- Identified, reproduced, and documented defects with clear test cases and logs, collaborating with developers to verify fixes
- Maintained automated regression tests, ensuring that tests matched newly developed features.

University of Alberta Aerial Robotics Group (UAARG) | Edmonton, AB **March 2024 - Present**

Senior Airframe & Software Team Member

- Acted as a key contributor to **hardware-software integration**, coordinating between all sub teams to ensure system reliability before takeoff.
- Developed **mavctl-python**, an open-source library for MAVLink-based device interactions, streamlining communications with our UAS Platforms
- Managed electronics and software sub-projects, providing mentorship and guidance to newer team members.

HACKATHON AND ENGINEERING COMPETITION EXPERIENCE

GrayScale| *2nd Place UAEC Junior Design Project* **2024**

- Prototyped a suite of extreme winter survival products in a short period of time, including a self-orienting flare gun and orientation device, emergency heat-pad integrated clothing, and a navigation module to assist in extreme winter survival rescue

YouTube Video Compiler | *1st Place MecSimCalc Hackathon Project* **2023**

- Created an application capable of taking an input search term and compiling a range of short clips to assist in video editing
- Applied OOP, network protocols and parallel programming to allow for concurrent sessions to occur with minimal impact to the user