Oliver Harrison

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Professional Summary
Highly motivated and detail-oriented engineering student specializing in aerodynamics and aerospace systems. Experienced in ANSYS simulations, safety protocol design, and Python development. Proven ability to optimize rocket designs and deliver innovative solutions in high-stakes environments.

Education
University of Toronto — May 2028
Bachelor of Applied Science, Engineering Science — CGPA: 3.91

Experience
Secondary Safety Officer, Airframe Member - Rocketry — Jul 2024 – Present
University of Toronto Aerospace Team

- Performed 5+ ANSYS studies to validate component performance and enhance rocket stability.
- Implemented safety procedures, leading to a zero-incident record during 5+ engine tests.
- Conducted research on feasible design solutions and collaborated with team members to address challenges.
- Supervised engine testing campaigns to ensure compliance with safety standards.

Volunteer Researcher — May 2024 – Present
Centre for Addiction and Mental Health (CAMH)

- Designed an NLP pipeline that improved text classification accuracy.
- Documented methodologies and outcomes in detailed reports.
- Presented findings to 200+ attendees at the CADS 2024 conference in Innsbruck.

Instructor/Guard — Jun 2022 – Aug 2024
City of Waterloo, Township of Wilmot, City of Toronto

- Instructed 200+ students in lifesaving skills.
- Responded to 15+ first-aid incidents, delivering timely care and ensuring patron safety.
- Provided constructive feedback to students of all ages, evaluating progress to published standards.

Projects
Flight Planner - Python — May 2019

- Developed an algorithm to optimize flight routes using wind currents.
- Implemented an interactive map to visualize the optimal route.

Skills

- **Programming:** Python (Fluent), MATLAB (Intermediate), C++ (Intermediate), C (Intermediate)
- **Simulation Tools:** ANSYS (Fluent), SolidWorks
- **Other Tools:** AutoCAD, Git, Microsoft Office Suite
- **Certifications:** WHMIS, First Aid/CPR

Technical Interests

- Aerodynamics Optimization
- Blended Wing Body (BWB) Aircraft Design
- Propulsion Systems
- Computational Fluid Dynamics (CFD)