

Omar Sinno

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Aerospace professional with industry experience at Bombardier, Airbus, and Bell Textron, skilled in flight controls, aerodynamics, propulsion systems, and developing advanced engineering tools.

SUMMARY OF SKILLS AND QUALIFICATIONS

Operating Systems | Windows • IOS

Applications | Microsoft Office • Google Apps

Programming | C++ • Python • VBA • MATLAB/Simulink.

Platforms | CATIA • Enovia (Beginner) • AutoCAD • SolidWorks • Ansys • Simcenter Amesim

Technical Skills | Project Management • Manufacturing • Materials and Processes • Procedure Writing • Aerodynamics • Propulsion • Aircraft Design • Data Visualization • Requirement definition • Tool Creation

Interpersonal Skills | Time Management • Communication • Flexibility • Autonomy • Teamwork • Problem Solving • Dynamic • Load Management • Operating Under Pressure

Languages | **French:** Spoken & Written • **English:** Spoken & Written • **Arabic:** Spoken & Written.

Licenses & Certifications | Student Pilot License

EDUCATION

Bachelor of Engineering – Aerospace Engineering

2021- 2026 (Expected)

Concordia University, Montreal, QC

- Member of the Institute for Co-operative Education
- Award: 1st and 2nd Year: Honor: Dean's List.
- Relevant Courses: Aircraft Design • Thermodynamics • Space and Flight Systems • Project Management • Aerospace design project • Fluid Mechanics • Heat Transfer • Control Systems • Aircraft Hydro-Mechanical and Fuel Systems

Lebanese Baccalaureate – Scientific

June 2021

College Louise Wegmann, Beirut, Lebanon

- Graduated within top 1% of my class.
- Activities: Basketball Varsity Team.

WORK EXPERIENCE

Advanced Product Development Intern

September 2024 – Present

Bombardier, Dorval, Quebec

- Developed a Python-based tool to size actuators and mounts for future aircraft primary flight controls.
- Supported requirements organization and documentation for a key project.
- Defined and delivered all project deliverables on schedule.
- Coordinated meetings and follow-ups with project stakeholders.

Sales Engineer Intern

January 2024 – September 2024

Bombardier, Dorval, Quebec

- Created range maps for different aircraft with different conditions and assumptions.
- Conducted several route studies out of limiting and non-limiting airports to conclude if operation is possible and if stops are needed.
- Created highly technical comparisons between bombardier aircraft and competitor aircraft.
- Supported the team in overall operations where needed.

Propulsion System Engineer Intern

September 2023 – January 2024

Airbus, Mirabel, Quebec

- Developed Team tools using JavaScript, html, and Google Suite.
- Collaborated with other departments and suppliers (Pratt & Whitney) and attended meetings to facilitate information flow and ensure project milestones were met.
- Conducted multiple engine vibration analyses and reports during test flights, monitoring vibration levels of the N_1 , N_2 and N_f rotors on the PW1500G.

Systems Engineer

March 2023 – August 2023

Space Concordia, Montreal, Quebec

- Developed and maintained detailed requirement lists for different systems on spacecraft projects.
- Collaborated with other departments and attended meetings to facilitate information flow.
- Demonstrated strong project management skills by managing multiple tasks and priorities simultaneously in a high-pressure environment.

Aircraft Certification Engineer Intern

January 2023 – April 2023

Bell Textron, Mirabel, Quebec

- Assisted Transport Canada delegates in materials testing.
- Verified the compliance of materials with engineering test specifications.
- Organized technical documentation for materials testing, which will be submitted to Transport Canada for certification.
- Aided planner buyers in material contract execution.
- Developed organizational tools and procedures within the engineering department to optimize workflow and efficiency.

Aerodynamics Team Engineer

September 2022 – September 2023

SAE Aero design (Concordia), Montreal, Quebec

- Worked on wing-sizing, tail sizing, and design while conducting aerodynamic analyses to maximize efficiency.
- Performed multiple stability analyses of the designed plane to perfect controllability.
- Control surfaces sizing (Ailerons, Rudder, Elevator).
- Attended weekly team meetings in the presence of Structures and Systems teams.

Aircraft Maintenance Engineer Support

May 2022 – August 2022

Middle East Airlines, Beirut, Lebanon

- Conducted comprehensive analysis on the IAE V2500 engine, electrical power system, hydraulic power system, and landing gear of A320 and A321neo aircraft.
- Performed duties in accordance with applicable standards and regulatory guidelines to promote safe environments.
- Maintained, troubleshot, and prepared Full Flight Simulator devices (A320 CAE7000XR).

AWARDS & DISTINCTIONS

2 Scholarships from The University of Toronto, Awarded based on high school performance. March 2021

VOLUNTEER WORK

- Cleaned debris off the streets after the 4th Of August Beirut blast, cleaned people's homes, fixed windows.
- Donated food and water to those who are in need and to construction workers, especially after the 4th Of August blast.

INTERESTS

Passions

Aviation, Aerospace Industry: Since I was young, I had a deep interest in aviation and was always eager to learn more. My initial ambition to pursue a career as a pilot has transformed into a passion for the aviation industry, and I am committed to advancing my involvement in all aspects of this field.

Reading

Self-development books, business books.

Investing

Stock Market, Mutual Funds, Real Estate.

Basketball

Varsity Basketball team at school as well as Al Riyadi U18 Team.