

# Omar Sinno

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Aerospace professional with industry experience at Bombardier, Airbus, and Bell Textron, skilled in aircraft integration, flight controls, 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 • 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: 1<sup>st</sup> and 2<sup>nd</sup> 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 class.
- Activities: Basketball Varsity Team.

## WORK EXPERIENCE

### Advanced Product Development & Aircraft Integration

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.
- Supported the Chief architect in all aircraft integration activities, ensuring requirements & objectives compliance.
- Followed and coordinated cross functional plans, scope of work, trade studies and decision schedules.

### Sales Engineer Intern

January 2024 – September 2024

Bombardier, Dorval, Quebec

- 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 for customers.
- Assessed aircraft range and produced range maps according to assumptions and conditions.
- Supported the team in delivering sales presentations.

**Propulsion System Engineer Intern**

Airbus, Mirabel, Quebec

**September 2023 – January 2024**

- Developed Team tools using JavaScript, html, and Google Suite.
- Collaborated with other departments and suppliers (Pratt & Whitney) and organized and attended supplier 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<sub>1</sub>, N<sub>2</sub> and N<sub>r</sub> rotors on the PW1500G.

**Aircraft Certification Engineer Intern**

Bell Textron, Mirabel, Quebec

**January 2023 – April 2023**

- 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.

**Aerodynamics Team Engineer**

SAE Aero design (Concordia), Montreal, Quebec

**September 2022 – September 2023**

- 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, troubleshoot, 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.