

Alaa Elshokri

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SUMMARY OF SKILLS AND QUALIFICATIONS

Operating Systems | Windows 8 • IOS

Applications | Microsoft Office: Word • Excel • PPT

Programming | C++ (beginner) • MATLAB

Other | AutoCAD (beginner) • CATIA • SolidWorks • openVSP • SU2 • XFLR5/ xFoil • Gmsh • Paraview

Languages | French | Spoken & Written • English | Spoken & Written • Arabic | Spoken & Written

Licenses & Certifications | Valid driving permit • WHIMS (valid till march 2025)

EDUCATION

Bachelor of Engineering – Aerospace Engineering (Aerodynamics and Propulsion) Co-op **2021- 2025 (Expected)**

Concordia University, Montreal, Québec

- Member of the Institute for Co-operative Education
- Relevant Courses: Introduction to Flight and Aerospace System, Mechanical Drawing, Fluid Mechanics, Modelling and Control Systems, Introduction to Aircraft Design, Aerospace Engineering Design Project

CAE Immersion Program (micro-stage)

2022

Concordia University, Montreal, Québec

- CIADI (Concordia Institute of Aerospace Design and Innovation) work-integrated learning experience

Computational Aerodynamics 101 (micro-stage)

2021

Concordia University, Montreal, Québec

- CIADI (Concordia Institute of Aerospace Design and Innovation) work-integrated learning experience

DEC in Health Science

2021

Champlain College, St-Lambert, Québec

- Honor Roll Student (2020,2021)

WORK EXPERIENCE

Validation of Assembly Instruction Sheet Intern

September 2022 – December 2022

Pratt & Whitney Canada, Saint-Hubert, Québec

- Worked with the team to maintain the aftermarket assembly instruction sheets
- Consulted engineering documentation as necessary to validate and update the instruction sheets
- Witnessed the assembly process and verified the instructions and tools for the creation of new instructions

Core Competencies: teamwork, problem solving, analysis

Teaching Assistance and Marker

September 2022 – Present

Concordia University, Montreal, Québec

- Taught different tutorial classes and marked the exams
- Communicated with the Professor about expectations and improvements to the tutorial problems
- Helped students to prepare for examination and addressed their questions regarding marking

Core Competencies: public speaking, mentorship, fairness

Pret a Manger Associate/ Supervisor

July 2018 – May 2021

IGA Extra Supermarché Gilles Bariteau inc., Saint-Hubert, Québec

- Accomplished teamwork by constantly communicating with the employees about the daily tasks
- Learned how to manage a small group by supervising and distributing the tasks between employees
- Learned conflict resolution by solving conflicts between employees
- Accomplished client service by working with clients and solving any problem that may occur

Core Competencies: decision-making, teamwork, problem solving

PROJECTS

RC Plane Design and Manufacturing

September 2023 - Present

Concordia University, Montreal, QC

- Designed a remote-control plane with respect to SAE competition rules for 2023-2024
- Analyzed the conceptual design for aerodynamics to ensure stability and maneuverability
- Collaborated with structures team for manufacturing and with systems team for propulsion

Core Competencies: Design, Critical thinking, Problem assessment and analysis

Research Project of Fidelity Level Comparison of CFD Solvers

July 2023 – October 2023

Concordia University, Montreal, QC

- Compared low, medium, and high-fidelity computational fluid dynamics software to experimental data
- Worked with Dr. Brian Vermeire for analysing the results
- Researched the physics behind the software and the different methods used for the analysis

Core Competencies: Research, Problem assessment and analysis

Amphibious Aircraft Conceptual Design – Academic Aircraft Design Proposal and Presentation

April 2023

Concordia University, Montreal, QC

- Accomplished the preliminary conceptual design phase for an eco-friendly flying boat
- Designed the aircraft on openVSP and CATIA
- Analyzed the environmental impact and the cost of the design

Core Competencies: Design, Critical thinking, Problem assessment and analysis

Bamboo Tires- Academic Innovation Proposal April 2022

Concordia University, Montreal, QC

- Focuses on the possibility of using bamboo to replace carbon black in tires
- Discusses the potential of implementing bamboo to replace carbon black in tires
- Highlights the feasibility of having a greener tire without an increase in price

Core Competencies: Critical thinking, Problem assessment and analysis

AWARDS & DISTINCTIONS

Community Builder, Being part of the multi-Culture crew and leading different events

March 2021

Leadership, Being part of the leadership and integration program

February 2021

PROFESSIONAL ASSOCIATIONS

SAE Aero Design – Aerodynamics Team

September 2022– present

SAE Concordia, Montreal, Québec

- Collaborating with the team to provide the best RC plane for the SAE International Competition

VOLUNTEER WORK

Recreational Activities Volunteer

March 2018-March 2019

CHSLD Juif de Montreal- Jewish Eldercare Center, Montreal, Québec

- Helped the elders with different activities such as praying, singing, attending concerts

INTERESTS

Passions

I like music and travelling. I enjoy everything that pushes me outside of my comfort zone, like skydiving and bungee jumping.