

VARUN ATTRI

Montréal, QC | varunattri00@hotmail.com | (438) 468-7696 | Portfolio: varunattri.site | linkedin.com/in/varun--attri

CAREER SUMMARY

Aerospace engineering professional with 1+ years of OEM experience performing static structural analysis and finite element modeling on complex assemblies. Experienced working from CAD geometry, interfacing with design teams, and producing structured engineering documentation in regulated engineering environments.

SKILLS

Engineering Design & Analysis Tools: CATIA V5, SolidWorks, AutoCAD, Nastran/Patran, HyperWorks, ANSYS

Programming: Python, MATLAB, C++

Project & Data Tools: Teamcenter, MS Office, MS Project, Power BI

Methodologies: Lean Engineering/Manufacturing, Continuous Improvement, Six Sigma, Concurrent Engineering

EDUCATION

Concordia University | *Master of Engineering in Aerospace Engineering*

Montréal, QC | **2025**

- CGPA: 3.9/4.3

Emirates Aviation University | *Bachelor of Engineering in Aerospace Technology*

Dubai, UAE | **2020**

- First-class Honours classification (GPA: 3.8/4.0)

ENGINEERING EXPERIENCE & DEVELOPMENT

Independent Engineering Projects & Technical Development

Montreal, QC | **Jun 2025 – Present**

Portfolio: varunattri.site

- Built an engineering portfolio website showcasing mechanical projects, CAD models, and analysis summaries.
- Recreated earlier AutoCAD projects in CATIA V5 and SolidWorks as 3D parts, assemblies, and drawings.
- Developed Nastran/Patran skills and studied Niu/Bruhn-based preliminary aircraft structural sizing.
- Completed Project Management 101 certification covering scope, scheduling, planning, and execution.

Bombardier Aerospace | **Advanced Structures Engineering Intern**

Montréal, QC | **Sept 2023 – Jan 2025**

- Performed static analysis on primary aircraft structures to support design validation.
- Managed material data, section properties, and design parameters across CAD and analysis documentation.
- Automated structural calculations and reporting using Python, reducing report time by 30%.
- Developed HyperWorks FE models, improving stress prediction accuracy by 20%.

Emirates Aviation University | **CAD Teaching Assistant**

Dubai, UAE | **Jan 2020 – Oct 2020**

- Assisted students with 3D CAD modeling, assemblies, and engineering drawings using CATIA V5 and SolidWorks.
- Reviewed CAD models for geometry, constraints, design intent, and documentation quality.
- Supported design labs focused on mechanical design principles and modeling best practices.

Emirates Aviation Services LLC | **Aircraft Line Maintenance Intern**

Dubai, UAE | **Dec 2019– Feb 2020**

- Performed aircraft inspections and minor corrective tasks per approved maintenance manuals.
- Gained hands-on exposure to structural components, fasteners, installation constraints, and design-for-maintenance considerations.