

# VARUN ATTRI

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## CAREER SUMMARY

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Aerospace engineering graduate 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

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**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

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**Concordia University** | *Master of Engineering in Aerospace Engineering*

Montréal, QC | 2025

- CGPA: 3.9/4.3
- **Key Skills:** Mechanical design, finite element analysis, CAD modeling, and engineering automation.

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

Dubai, UAE | 2020

- First-class Honours classification (GPA: 3.8/4.0)
- **Key Skills:** CAD/CFD, Thermodynamics, Aerodynamics, Project Engineering

## RELEVANT EXPERIENCE

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**Bombardier Aerospace** | **Advanced Structures Engineering Intern** Montréal, QC | **Sept 2023 – Jan 2025**

- Supported mechanical and structural design activities on primary aircraft components by performing static analysis to validate design concepts and guide design decisions.
- Defined and maintained material data, section properties, and design parameters to ensure alignment between CAD models, analysis setups, and released engineering documentation.
- Automated structural calculations and reporting using Python, reducing report time by 30%.
- Developed and refined Finite Element models in HyperWorks, improving stress prediction accuracy by 20%.

**Emirates Aviation University** | **CAD Teaching Assistant**

Dubai, UAE | **Jan 2020 – Oct 2020**

- Supported undergraduate engineering design coursework by assisting students with 3D CAD modeling and assemblies using CATIA V5 and SolidWorks.
- Reviewed student CAD models and drawings to help correct geometry, constraints, and basic design intent issues.
- Assisted in design-focused labs and project sessions, reinforcing fundamentals of mechanical design, documentation, and modeling best practices.

**Emirates Aviation Services LLC** | **Aircraft Line Maintenance Intern** Dubai, UAE | **Dec 2019– Feb 2020**

- Performed aircraft inspections and supervised minor corrective tasks in accordance with approved maintenance manuals, gaining hands-on exposure to structural components, fasteners, and installation constraints.
- Completed 110 hours of Aircraft Familiarization Training in line maintenance operations
- Developed practical understanding of accessibility, clearances, and maintainability considerations that inform design-for-maintenance decisions.