ANMOL CHAUDHARY

Aerospace Engineer

Toulouse, France

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Summary of Qualifications

- Aerospace Engineer and PhD Researcher specializing in **Structural Dynamics, Loads, and Non-linear Aeroelasticity** for HALE drones and commercial aircraft.
- Advanced proficiency in simulation tools (**MSC Nastran, ASWING**, Patran) and **Python/MATLAB automation** for optimizing complex aeroelastic workflows and sizing criteria.

Experience

Airbus   **Apr. 2024 – Oct. 2024**

Loads and Aeroelastic Engineering Intern   *Toulouse, France*

- Collaborated with the 'Loads and Aeroelastics' department to assess loads on major aircraft components and evaluate aeroelastic behavior.
- Designed and implemented a Load Alleviation Function (LAF) for Airbus A320, achieving a **10%** reduction in wing root bending moments.
- Contributed to a project that led to a potential **1.5%** reduction in CO_2 emissions, improving both performance and sustainability of aircraft design.

ISAE SUPAERO   **Jun. 2023 – Aug. 2023**

Research Assistant in Aeroelasticity   *Toulouse, France*

- Engineered aeroelastic models for strut-braced wings to assess and enhance performance based on geometric optimization.
- Automated ASWING model generation using a Python wrapper, reducing simulation setup time by 50% and improving workflow efficiency.

Technical Skills

Simulation & Analysis: Nastran-Patran, ANSYS, Abaqus
3D Modeling & Drafting: SolidWorks, CATIA V5, HyperMesh
Programming & Scripting: Python, MATLAB
Others: Linux, Latex, Git Control, MS Office Suite, Google Workspace

Education

École de l'Air et de l'Espace   **Nov. 2025 – Present**

PhD in Aerospace Engineering (Non-linear Aeroelasticity)   *Salon-de-Provence, France*

Institut Supérieur de l'Aéronautique et de l'Espace (ISAE SUPAERO)   **Sep. 2022 – Dec. 2024**

Master's in Aerospace Engineering   *Toulouse, France*

Anna University   **Aug. 2016 – Sep. 2020**

Bachelor's in Aeronautical Engineering   *Chennai, India*

Relevant Coursework

- Composite Structures
- System Engineering
- Manufacturing
- Structural Dynamics
- Flight & Ground Loads
- Aerodynamics
- Aeroelasticity
- Mechanics of Materials
- Computational Solid Mechanics

Research Projects

Master's Research Projects | *Aeroelasticity, ASWING*   **Dec. 2022 - Mar. 2024**

- **Global model of aircraft design from performance requirements towards architecture optimization**
  -Simulated flutter effects of battery placement on Lilienthal gliders using ASWING, identifying optimal mid-span configurations to mitigate instability.

Bachelor's Thesis | *Aeroelasticity, ANSYS*   **Dec. 2019 - Apr. 2020**

- **Design and Analysis of an Aeroelastic Morphing Wing using CFD**   -Conducted a study comparing the aerodynamic efficiency of a morphing wing with conventional wings using ANSYS Fluent.

Languages

Nepali Native | English Fluent (C1) | French Intermediate (A2/B1) | German beginner (A1)