[First Last Name]

[City, State] | [email@example.com] | [+1 (555) 555-5555] | [LinkedIn URL] | [Portfolio or GitHub URL]

PROFESSIONAL SUMMARY

Detail-oriented **Aerospace Engineer** with [X] years of experience in the design, analysis, and testing of **aircraft and spacecraft structures, propulsion, and control systems**. Proven track record leading cross-functional teams through the full product lifecycle from conceptual design to qualification testing and certification. Skilled in **finite element analysis (FEA)**, aerodynamic modeling, and systems integration using industry-standard tools and methodologies. Adept at translating complex engineering requirements into robust, manufacturable solutions that improve performance, reliability, and safety.

PROFESSIONAL EXPERIENCE

[Senior Aerospace Engineer] | [Leading Aerospace Company]
[Month YYYY] – Present | [City, State]

- Led the structural design and analysis of [airframe/spacecraft subsystem], reducing component weight by [X%] while maintaining compliance with [FAA/EASA/DoD/NASA] safety and reliability requirements using [ANSYS/Nastran/Patran].
- Developed and validated high-fidelity aerodynamic and aeroelastic models in [MATLAB/Simulink/CFD tool] to support performance prediction and flight envelope expansion, improving prediction accuracy by [X%] against wind tunnel and flight test data.
- Coordinated cross-functional design reviews with systems, manufacturing, and test teams, resolving [X+] critical design issues and shortening the design iteration cycle by [X%] through implementation of standardized analysis templates and checklists.

[Aerospace Engineer] | [Aerospace & Defense Manufacturer]
[Month YYYY] – [Month YYYY] | [City, State]

- Performed detailed stress and fatigue analyses of primary and secondary structures using [FEMAP/NASTRAN/HyperMesh], supporting certification of [aircraft/rotorcraft/spacecraft] under [FAR Part XX/MIL-STD-XXXX] with clear documentation and traceability.
- Supported propulsion and systems integration activities, including interface definition, tolerance analysis, and vibration assessments, resulting in a [X%] reduction in integration-related non-conformances during ground and flight test campaigns.
- Authored engineering reports, test plans, and technical presentations for internal design reviews and external regulatory authorities, ensuring timely approval of [X] key milestones and adherence to program cost and schedule baselines.

EDUCATION

[Master of Science in Aerospace Engineering] | [Top Technical University]
[Month YYYY] – [Month YYYY] | [City, State]
Thesis: “[Thesis Title Related to Aerodynamics/Structures/Controls]” | Focus: [Aerodynamics / Structures / Propulsion / Guidance, Navigation & Control]

[Bachelor of Science in Aerospace Engineering] | [Accredited Engineering University]
[Month YYYY] – [Month YYYY] | [City, State]
Relevant Coursework: [Aircraft Design], [Flight Dynamics], [Spacecraft Systems], [Propulsion], [Finite Element Analysis]

SKILLS

- **Technical:** [Aerodynamics], [Structural Analysis], [FEA], [CFD], [Flight Dynamics], [Propulsion Systems]
- **Tools & Software:** [ANSYS], [NASTRAN], [MATLAB/Simulink], [CATIA/SolidWorks], [FEMAP/HyperMesh], [Python]
- **Modeling & Simulation:** [Multi-body Dynamics], [Aeroelastic Analysis], [Control System Modeling], [System Identification]
- **Standards & Processes:** [FAR/EASA Regulations], [DO-160/DO-178 Exposure], [MIL-STD Requirements],

[Systems Engineering (INCOSE)]

- **Project & Collaboration:** [Requirements Management], [Design Reviews], [Configuration Control], [Risk Management]
- **Soft Skills:** [Technical Communication], [Cross-Functional Collaboration], [Problem Solving], [Mentoring/Coaching], [Time Management]

SELECTED PROJECTS

[Advanced UAV Airframe Optimization] | [Internal R&D / Graduate Capstone]
[Month YYYY] – [Month YYYY]

- Designed and optimized a [fixed-wing/VTOL] UAV airframe for extended endurance, applying multi-disciplinary optimization techniques to balance aerodynamic efficiency, structural weight, and manufacturability.
- Built integrated aerodynamic and structural models using [ANSYS Fluent / XFOIL / NASTRAN], achieving a [X%] improvement in lift-to-drag ratio and [X%] reduction in structural mass compared to baseline configuration.

[Spacecraft Attitude Control Simulation] | [University Research Lab / Industry Collaboration]
[Month YYYY] – [Month YYYY]

- Developed a high-fidelity 6-DOF simulation environment in [MATLAB/Simulink] for a [small satellite / CubeSat] attitude determination and control system, including reaction wheels and magnetic torque rods.
- Implemented and compared [PID/LQR] control laws under realistic disturbance torques and sensor noise, demonstrating improved pointing accuracy by [X%] relative to the existing baseline controller.