

Amina Patel

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SUMMARY

Detail-oriented and innovative aerospace engineer with a solid foundation in aerodynamics and propulsion systems. Proven ability to apply engineering principles to real-world projects, optimize performance, and contribute to collaborative team environments.

EXPERIENCE

Aerospace Engineering Intern

Jun 2022 - Present

Blue Sky Innovations, Seattle, WA

- Contributed to a team project that reduced fuel consumption by 15% through aerodynamic modifications in UAV design.
- Developed and tested propulsion system prototypes, achieving a performance increase of 10% over previous models.
- Utilized CAD software (SolidWorks) to create detailed designs and simulations, improving workflow efficiency by 20%.

Research Assistant

Sep 2021 - May 2022

University of Washington, Seattle, WA

- Assisted in the development of a novel wing design that enhanced lift-to-drag ratio by 12%.
- Conducted wind tunnel testing and data analysis, providing key insights for a senior design project.
- Collaborated with a multidisciplinary team to implement project management methodologies, reducing project timelines by 25%.

Engineering Co-op

Jan 2020 - Aug 2020

Aerospace Dynamics Corp., Portland, OR

- Participated in the design review process for new aircraft components, ensuring compliance with FAA regulations.
- Developed software scripts (Python) to automate data processing, reducing analysis time by 30%.
- Supported senior engineers in troubleshooting and testing systems, contributing to the successful launch of two aircraft models.

EDUCATION

Bachelor of Science in Aerospace Engineering

May 2022

University of Washington, Seattle, WA • GPA: 3.7

SKILLS

Technical Skills: Aerodynamics, Propulsion Systems, Fluid Dynamics, Structural Analysis

Tools & Frameworks: SolidWorks, MATLAB, ANSYS, Python