

Amina Patel

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SUMMARY

Results-driven Senior Aerospace Engineer with over 8 years of experience in designing and developing advanced aerospace systems. Proven expertise in project management and aerospace technologies, with a focus on optimizing performance and reducing costs.

EXPERIENCE

Senior Aerospace Engineer

Jan 2022 - Present

AeroTech Innovations, Los Angeles, CA

- Led a team in the development of a new propulsion system that improved fuel efficiency by 15%, saving the company \$2 million annually.
- Implemented a project management framework that reduced project delivery times by 25%, enhancing client satisfaction.
- Developed advanced simulation models using MATLAB and ANSYS, leading to a 30% improvement in design accuracy.

Aerospace Engineer

Jun 2018 - Dec 2021

Skyward Aerospace, San Diego, CA

- Contributed to the successful design and testing of a next-generation UAV, achieving a flight range increase of 20%.
- Collaborated on cross-functional teams for the integration of new avionics systems, enhancing operational capabilities by 40%.
- Utilized CATIA and SolidWorks for 3D modeling, resulting in a 15% decrease in material costs through optimized designs.

Junior Aerospace Engineer

Aug 2015 - May 2018

Flight Dynamics Corp, Houston, TX

- Assisted in the development of flight simulation software that improved pilot training efficiency by 50%.
- Conducted aerodynamics research that contributed to a patent for a new wing design, improving lift-to-drag ratio by 10%.
- Participated in design reviews and testing of aerospace components, ensuring compliance with FAA regulations.

EDUCATION

Bachelor of Science in Aerospace Engineering

May 2018

California Institute of Technology, Pasadena, CA • GPA: 3.7

SKILLS

Technical Skills: Finite Element Analysis (FEA), Computational Fluid Dynamics (CFD), Project Management, Aerospace Systems Design

Tools & Frameworks: MATLAB, ANSYS, CATIA, SolidWorks, Agile Methodology