MICHAEL ANDERSON

LEAD MACHINE DESIGN ENGINEER

CONTACT

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San Francisco, CA

SKILLS

- CATIA
- SolidWorks
- FEA
- aerospace standards
- project management
- teamwork

LANGUAGES

- English
- Spanish
- French

EDUCATION

MASTER OF SCIENCE IN AEROSPACE ENGINEERING, GEORGIA INSTITUTE OF TECHNOLOGY, 2011

ACHIEVEMENTS

- Awarded 'Best Design' at the International Aerospace Exhibition for innovative UAV designs.
- Reduced production costs by 20% through effective design optimization strategies.
- Played a key role in developing a UAV that won the 'Innovation Award' at the National Drone Conference.

PROFILE

Innovative Machine Design Engineer with a decade of experience in aerospace engineering, focusing on the design and testing of complex mechanical systems. I have honed my skills in CAD design, particularly with CATIA and SolidWorks, to create high-performance components that withstand extreme conditions. My experience includes collaborating with multidisciplinary teams to enhance product efficiency and reliability, ensuring compliance with stringent industry standards.

EXPERIENCE

LEAD MACHINE DESIGN ENGINEER

AeroDynamics Corp.

2016 - Present

- Designed and tested aircraft structural components, ensuring compliance with FAA regulations.
- Employed CATIA for 3D modeling and simulations, enhancing design accuracy and performance.
- Collaborated with aerodynamicists to optimize designs for reduced drag and improved fuel efficiency.
- Conducted rigorous testing on prototypes, leading to a 25% reduction in failure rates.
- Led design reviews, providing critical feedback to junior engineers on design processes.
- Implemented design changes based on test results, improving product reliability significantly.

MACHINE DESIGN ENGINEER

Skyward Technologies

2014 - 2016

- Developed complex mechanical assemblies for UAV systems, contributing to a 40% increase in operational efficiency.
- Utilized SolidWorks to create detailed design documentation and assembly instructions.
- Worked closely with the manufacturing team to optimize production processes, reducing lead times by 15%.
- Participated in design validation processes, ensuring all products met customer specifications.
- Facilitated workshops to promote best practices in design and engineering methodologies.
- Achieved significant cost savings through material selection and design optimization initiatives.