




James Brown

Senior Aerospace Mechanical Design Engineer

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Professional summary

Experienced Senior Aerospace Mechanical Design Engineer with over 11 years of expertise in the design and optimization of mechanical systems for commercial and military aerospace applications. Adept at leading cross-functional teams to deliver complex aerospace components that adhere to the highest standards.

Experience

Senior Aerospace Mechanical Design Engineer August 2017 - Now

Boeing, Everett, WA

- Lead the design of new wing components for Boeing's 787 Dreamliner, achieving a 20% reduction in fuel consumption and improving the aircraft's aerodynamics.
- Manage a team of engineers to develop and implement innovative solutions that met FAA regulations and global aerospace standards.
- Conduct extensive simulations and testing to validate new components, ensuring they performed optimally under extreme conditions.

Aerospace Mechanical Engineer June 2014 - July 2017

Northrop Grumman, Redondo Beach, CA

- Designed and tested critical mechanical components for unmanned aerial vehicles (UAVs), improving flight reliability and reducing failure rates by 10%.
- Conducted material selection and stress testing to ensure components could withstand the harsh conditions of high-altitude flight.
- Coordinated with project managers and other engineering teams to ensure smooth integration of mechanical systems into the larger framework.

Education

Master of Science in Aerospace Engineering of University of Washington – Seattle, WA

Graduated: June 2014

Bachelor of Science in Mechanical Engineering of California Institute of Technology (Caltech) – Pasadena, CA

Graduated: May 2011

Skills

Aerospace CAD Software (CATIA, NX, SolidWorks)

Expert

Structural and Thermal Analysis

Expert

Finite Element Analysis (FEA)

Expert

Aircraft System Design

Expert

Component Testing and Validation

Expert

Aerospace Materials Science

Expert

Prototyping and Testing

Expert

Compliance with FAA Regulations

Expert

Project Management

Expert

Cross-Departmental Collaboration

Expert

Awards



Boeing Excellence Award (2021): Recognized for outstanding contributions to the 787 Dreamliner's fuel-efficient design.



Northrop Grumman Innovation Award (2016): Awarded for designing a novel propulsion system for UAVs that significantly improved fuel efficiency.