



# MICHAEL ANDERSON

## Senior Propulsion Engineer

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### SUMMARY

A highly skilled Rocket Propulsion Engineer with over 10 years of experience in the aerospace industry, specializing in the design and optimization of propulsion systems for both launch vehicles and spacecraft. Demonstrated expertise in conducting advanced simulations and analyses to enhance performance and reliability of rocket engines. Proven track record in leading cross-functional teams to deliver innovative propulsion solutions that meet stringent safety and performance standards.

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### WORK EXPERIENCE

#### Senior Propulsion Engineer AeroTech Innovations

Jan 2023 - Present

- Led development of next-gen liquid propulsion systems, enhancing thrust-to-weight ratios by 15%.
- Conducted detailed performance analyses using ANSYS Fluent and MATLAB.
- Collaborated with manufacturing teams to streamline production processes, reducing costs by 20%.
- Authored technical reports and presented findings to executive stakeholders.
- Implemented rigorous testing protocols to ensure compliance with safety regulations.
- Mentored junior engineers, fostering a culture of innovation and excellence.

#### Propulsion Engineer SpaceLaunch Co.

Jan 2020 - Dec 2022

- Designed and tested hybrid rocket engines, achieving a 10% increase in efficiency.
  - Utilized LabVIEW for data acquisition and analysis during engine tests.
  - Coordinated with project managers to align propulsion development with mission objectives.
  - Developed simulation models in SolidWorks to predict engine performance.
  - Participated in failure analysis investigations, implementing corrective actions.
  - Contributed to patent applications for innovative propulsion technologies.
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### EDUCATION

#### Master of Science in Aerospace Engineering, MIT, 2011; Bachelor of Science in Mechanical Engineering, Georgia Tech, 2009

Sep 2019 - Oct 2020

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### ADDITIONAL INFORMATION

- **Technical Skills:** Propulsion design, CFD, MATLAB, ANSYS, project management, testing protocols
- **Awards/Activities:** Received the Engineering Excellence Award for outstanding contributions to propulsion design.
- **Awards/Activities:** Successfully led a team that launched the first commercial hybrid rocket in 2020.
- **Awards/Activities:** Published research in leading aerospace journals on advanced propulsion techniques.
- **Languages:** English, Spanish, French