



Michael ANDERSON

INSTRUMENTATION ENGINEER

As a passionate Space Instrumentation Scientist with 8 years of experience, I focus on developing innovative solutions for space exploration. My background in mechanical engineering has equipped me with the technical skills necessary for the design and implementation of instrumentation systems. I have worked on several projects involving optical instruments used in satellite missions, where I applied my knowledge of photonics and materials science to enhance performance.

CONTACT

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- 📍 San Francisco, CA

SKILLS

- Optical Engineering
- Prototyping
- Testing
- Data Processing
- Team Collaboration
- STEM Outreach

LANGUAGES

- English
- Spanish
- French

EDUCATION

**BACHELOR OF SCIENCE IN
MECHANICAL ENGINEERING,
UNIVERSITY OF CALIFORNIA,
BERKELEY**

ACHIEVEMENTS

- Received the Northrop Grumman Innovation Award for the development of a novel imaging system.
- Contributed to a successful satellite launch that improved Earth observation capabilities.
- Participated in outreach programs that increased interest in STEM careers among local students.

WORK EXPERIENCE

INSTRUMENTATION ENGINEER

Northrop Grumman

2020 - 2025

- Designed and built optical instruments for satellite applications, achieving a 15% increase in data accuracy.
- Conducted rigorous testing to validate instrument performance under varying environmental conditions.
- Collaborated with software teams to develop data processing algorithms that enhanced image quality.
- Managed project timelines effectively, delivering results on schedule.
- Participated in cross-functional design reviews, contributing to product improvements.
- Presented technical findings to stakeholders, facilitating informed decision-making.

JUNIOR ENGINEER, SPACE INSTRUMENTS

Raytheon Technologies

2015 - 2020

- Assisted in the development of sensor systems for Earth observation satellites, gaining hands-on experience.
- Supported testing and calibration efforts to ensure compliance with mission requirements.
- Worked with senior engineers to troubleshoot instrument issues, learning best practices.
- Contributed to the documentation of testing procedures and results.
- Participated in team meetings to discuss project progress and challenges.
- Engaged in professional development activities to enhance technical knowledge.