MICHAEL
ANDERSON

Trajectory Optimization Engineer

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As a passionate Celestial Mechanics Scientist with 3 years of experience, I specialize in spacecraft trajectory analysis and optimization. My academic background in physics and engineering has provided me with a strong foundation in the principles of celestial dynamics. I have worked on various projects that involve the modeling of satellite orbits and their interactions with gravitational fields.

WORK EXPERIENCE

Trajectory Optimization Engineer | Lockheed Martin   Jan 2022 – Present

- Performed analysis of satellite trajectories, optimizing paths to reduce fuel consumption by 15%.
- Developed algorithms for real-time trajectory adjustments during satellite operations.
- Collaborated with mission planners to ensure alignment of satellite movements with operational goals.
- Utilized simulation tools to model satellite behavior in various orbital conditions.
- Presented findings to technical teams, facilitating informed decision-making.
- Participated in cross-disciplinary teams to enhance satellite deployment strategies.

Graduate Intern | NASA Ames Research Center   Jul 2019 – Dec 2021

- Supported research on orbital mechanics for upcoming missions, contributing to trajectory analysis.
- Utilized MATLAB for data processing and simulation tasks.
- Participated in team meetings to discuss research developments and findings.
- Assisted in the preparation of technical reports for project stakeholders.
- Engaged in outreach initiatives to promote interest in aerospace careers.
- Contributed to the development of educational materials on celestial navigation.

SKILLS

Trajectory analysis   MATLAB   Algorithm development   Data processing   Team collaboration   Simulation tools

EDUCATION

Bachelor of Science in Aerospace Engineering   2015 – 2019
University of Michigan

ACHIEVEMENTS

- Developed a trajectory optimization tool that improved satellite deployment efficiency.
- Recognized for outstanding performance during internship, leading to a full-time role.
- Contributed to a project that won the Lockheed Martin Innovation Award.

LANGUAGES

English   Spanish   French