Erick White

Integrity ~ Honesty ~ Collaboration ~ Perseverance

Contact

(719)-301-8932
erickwhitebusiness@gmail.com
erickwhitedev.github.io

Education

University of Colorado Boulder

Engineering Honors Program
Undergraduate (Class of 2026)
Major: Aerospace Engineering
Minor: Computer Science
Minor: Applied Mathematics
GPA: 4.0

Key Skills

Bilingual (English/Italian)
Semi-fluent in Spanish

Programming Experience
(MATLAB, C++, Java, Python)

CAD/CAM (SolidWorks)

LaTeX

SP/2 Machining Certified

References

[Available upon request.]

Objective

Hardworking student seeking an opportunity to learn and grow in a team environment with exceptional interpersonal skills and ability to communicate effectively; hoping to explore the aerospace field (especially astrodynamics and interplanetary research) through both academia and industry.

Experience

Undergraduate Research Assistant (August 2024 – Present)

- Researching and developing methods for mass-generating spectrograms from Van Allen Probe magnetometer data capable of clearly showing plasma wave events
- Investigating effectiveness of using machine learning models to detect plasma wave events in Earth's magnetosphere

NASA CARA Analysis Intern (May 2024 – August 2024)

- Continued work from summer 2023 internship researching and developing a new method of visualizing satellite conjunction events
- Researched and developed tool for beyond-near-Earth orbital propagation
- Wrote 26-page paper on conjunction visualization for submission to AIAA/AAS ASC

NASA CARA Analysis Intern (June 2023 – August 2023)

- Developed new and expanded upon existing unit tests for NASA's CARA SDK
- Developed a new highly customizable visualization program for satellite conjunction events to be used by CARA in training and mission analysis

Communication

NASA CARA Analysis Team Presenter – *A Showcase and Comparison of Three Methods for Visualizing Near-Earth Satellite Conjunction Events* (August 2023)

- Presented results of several months of research and development into satellite conjunction visualization building on previous work and incorporating various new methods and techniques
- Presented visualizations of several conjunctions of interest with unique geometries

NASA CARA Ops Team Special Topics Presenter – *Visualizing Conjunction Events Using Monte Carlo Animations* (August 2023)

- Presented results of several weeks' worth of research and development into a new method for visualizing satellite conjunction events
- Demonstrated utility of new tool for previously un-visualizable conjunction events
- Presentation led to discussion of use for tool in a large-scale environment and eventual public release
-

Leadership

University of Colorado Boulder:

- Outreach Lead – CU Astronomy Club – 2022-Present
- Recitation Leader – Critical Encounters – Fall 2023