Erick White

Integrity ~ Honesty ~ Collaboration ~ Perseverance

Contact

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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

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

2023 SIAM Front Range Student Conference – *We Put the "UN" in "FUN": The Mathematical Guide to Saving the World* (February 2023)

- Presented method and results used in 2023 Interdisciplinary Contest in Modeling entry (prioritizing United Nations Sustainable Development Goals using a weighted graph model to predict goal achievement success in the future)
- Received well by both other students and by professors

Leadership

University of Colorado Boulder:

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