Erick White

Integrity ~ Honesty ~ Collaboration ~ Perseverance

Contact

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Education

University of Colorado Boulder
Boulder, Colorado, USA

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

Thomas B. Doherty High School
Class of 2022 – Valedictorian
GPA: 4.6389 (4.0 unweighted)

Key Skills

Bilingual (English/Italian)
Semi-fluent in Spanish

Programming Experience (Java, Python, HTML+CSS+JS, MATLAB, C++)

CAD/CAM (SolidWorks, Inventor)

LaTeX

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 gain experience for future work in an aerospace or computer science field and eventual work as a NASA astronaut.

Experience

Participant, Interdisciplinary Contest in Mathematical Modeling – 2023

- Researched and developed an algorithm to prioritize the United Nation's Sustainable Development Goals for maximum impact in the next decade
- Wrote a 25-page paper analyzing methods (weighted undirected graph model), sensitivity analysis (proof that algorithm developed is not chaotic), and analysis of meaning and applicability of results

Volunteer, Colorado Springs Astronomical Society – 2013-2022

- Public outreach work, including presentations, operating telescopes for public use, and interactive demonstrations

World Alternate Finalist, Conrad Challenge – 2020

- Finished 7th worldwide from over 30 teams in the aerospace category for the project "From Gas to Gas: Emission-Based Fuels," chosen as alternate finalist in event that one of the top five teams could not make the finals
- Highly positive comments from judges

Communication

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

- 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

Keynote speaker at Black Educator's Network Literacy Festival (fall 2021 and spring 2022) – *Setbacks, Success, and Strength*

- Meant for audience range from child to adult, but focused on teens and young adults
- Massively positive reception, particularly from adults with extensive public speaking experience

Leadership

University of Colorado Boulder:

- Outreach Lead – CU Astronomy Club – 2022-Present

Thomas B. Doherty High School:

- President – National Honor Society – 2021-2022
- President – Aerospace Club – 2020-2022