



Kevin N. Maranto

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Education

Georgia Institute of Technology **Atlanta, GA**
Master of Science | Aerospace Engineering | Est. Graduation Dec. 2026 | GPA 4.0 Fall 2025 - Present

- Student of Aerospace Systems Design Laboratory (**ASDL**)
- **Relevant Coursework:** Advanced Design Methods, Orbital Mechanics, Optimization for the Design of Engineered Systems, **Systems of Systems**, Aircraft Design

Bachelor of Science | Aerospace Engineering | May 2, 2025 | GPA 3.85 2021 - 2025

- **Relevant Coursework:** Jet and Rocket Propulsion, Vehicle Performance, System Dynamics, Controls, **Robotic Systems and Autonomy**, Space Flight Operations, Spacecraft Flight Dynamics, Structures, and Intro to Safety by Design

Extracurriculars: Yellow Jacket Flying Club, Musician's Network, GT Club Baseball, **AIAA**

Technical Skills

Intermediate: CFD (StarCCM+), Solid Modeling/**CAD, Python**, OpenMDAO, MATLAB, C++, Machining and Manufacturing, Unity Game Engine, Microsoft Suite, Technical Report Writing

Beginner: SysML (MagicDraw), GTAW Welding, Academic Software: FUN3D, POST2, FLOPS, ALCCA

Relevant Experience

Graduate Research Assistant **Atlanta, GA**
• Aerospace Systems Design Laboratory August 2025 - Present
- Utilized sophisticated CFD/ROM-in-the-loop software for novel aerodynamic simulations.

NASA OSTEM Intern **Huntsville, AL**
• Marshall Space Flight Center, Metal Processes and Manufacturing June 2025 - August 2025
- Shadowed the welding and manufacturing operations for NASA's Space Launch System (SLS).
- Learned about friction stir welding and hands-on GTAW welding techniques.

Undergraduate Student Researcher **Atlanta, GA**
• Aerospace Systems Design Laboratory January 2025 - May 2025
- Explored a design space for a small scale lunar sample return mission with a team.
- Developed a python script to size thermal protective layers using phase change materials.
• Carbon Neutral Energy Solutions Laboratory May 2024 - December 2024
- Researched magnetoplasmadynamic thrusters with advanced hardware, software, and optics.
- Set up and calibrated laboratory equipment, such as lasers and vacuum chambers.

Undergraduate Research Assistant (Laser Optics) **Atlanta, GA**
• Sensing Technologies Research Laboratory January 2023 - May 2024
- Developed laser diagnostic tools for high-speed flows and contributed to research papers on FLDI, schlieren, and digital holography imaging techniques.
- Helped write and publish paper (<https://doi.org/10.1364/OL.520660>).

Associate Engineering Technician **Marietta, GA**
• Stanley Black and Decker, Cribmaster June 2023 - August 2023
- Built and tested prototypes for smart (RFID) tool storage solutions.
- Utilized CREO CAD extensively for 3D modeling.
- Documented technical progress and contributed to product development reports.

Projects

Academic Coursework 2025-2026
• Developed excel tool for conceptual design of aircraft using **sizing and synthesis** methodology.
• **Designed conceptual aircraft** from Embraer 190 baseline to meet stakeholder and derived system requirements through iteration in semester-long group project using advanced design principles.

Grand Challenges 2025-2026

- MDAO for Collaborative Mobility Aircraft Design. (Sponsor: Air Force Research Lab (AFRL))
- System of Systems Architectures for Fighting Wildfires. (Sponsor: SAAB)

Georgia Institute of Technology (GT) Carbon Reduction Challenge 2024

- Researched the impact of motion sensors in campus dorms to reduce carbon emissions.
- Presented findings to expert staff at the GT Office of Sustainability.

Achievements

8th Annual GA Tech Carbon Reduction Challenge 1st Place Winner 2024

Eagle Scout of Boy Scouts of America 2020