Candace Do

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EDUCATION

B.S.E. Mechanical and Aerospace Engineering, Princeton University, GPA: 3.91 **expected May 2024**
Minors in Computer Science and Robotics & Intelligent Systems

Newport High School (dual-enrolled at Bellevue College), GPA: 4.00 **Jun. 2020**

EXPERIENCE

Mechanical Engineering Intern at **Rocket Lab** Long Beach, CA **May–Aug. 2023**

- Space Systems Vehicle Design team; selected as part of the Matthew Isakowitz Fellowship Program.
- Designed a satellite bus mass simulator for proof-loading ground support equipment.
- Designed vibration fixtures for avionics enclosures and solar array hinges.
- Designed harness brackets for flight model and structural/thermal model (STM) of satellite bus.

Undergraduate Researcher at **TigerSats Lab** Princeton, NJ **Jan. 2023–present**

- Designed and built a motorized shaker table for CubeSat vibration testing, which achieved vibration levels seen in launch environments for the same cost as a single outsourced test. Advised by Michael Galvin.

Undergraduate Researcher at **Intelligent Robot Motion Lab** Princeton, NJ **Aug. 2022–Jan. 2023**

- Demonstrated absolute depth estimation capabilities for small first-person view drones using monocular RGB images. Advised by Prof. Anirudha Majumdar.

Spacecraft Avionics Intern at **Firefly Aerospace** Cedar Park, TX **May–Aug. 2022**

- Developed software and hardware for automated testing of 30+ harnesses on the Blue Ghost lunar lander.
- Designed, managed production of, and tested circuit boards for radiation testing of a critical component.
- Analyzed, sourced quotes, and designed harnesses for shock testing of the Blue Ghost avionics boards.
- Supported design verification testing, created block diagrams, managed inventory, soldered PCBAs, and wrote procedures and other documentation.

Research Assistant at **Space Physics Group** Princeton, NJ **Apr. 2021–May 2022**

- Assisted Prof. David McComas in designing calibration systems for NASA flight instruments.
- Acquired laboratory skills including SIMION, data analysis, and cleanroom procedures.

SKILLS

CAD: Siemens NX, PTC Creo, Fusion 360
Programming: Python, C++, MATLAB, Arduino
Other: Altium Designer, Git, LaTeX, Jira, Scrum

EXTRACURRICULARS

Rocketry Club Spaceport America Cup Lead
Society of Women Engineers
The Daily Princetonian Head Photo Ed. Emeritus
Badminton Club

AWARDS & PROGRAMS

- Matthew Isakowitz Fellowship Program (2023)
- SWE Alma Kuppinger Forman scholarship (2021)
- NASA L'SPACE Proposal Writing Academy and Mission Concept Academy (2020)
- NAR Gleda Estes Scholarship (2020)
- Presidential Service Award, Gold (2019)
- NASA SEES High School Internship (2018)
- NAR High Power Rocketry Level 1 Cert. (2018)
- 4x AIME Qualifier, Math Prize for Girls Qualifier