Candace Do

Aerospace engineering student passionate about spacecraft design and space exploration. Proficient in CAD and programming. US Citizen.

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EDUCATION

Princeton University, GPA: 3.9 **expected May 2024**

B.S.E. Mechanical and Aerospace Engineering, minors in Computer Science and Robotics & Intelligent Systems
Relevant coursework: Mechanical Design, Automatic Controls, Solid Mechanics, Fluid Dynamics, Thermodynamics, Engineering Dynamics, Algorithms and Data Structures, Machine Learning

Newport High School (dual-enrolled at Bellevue College), GPA: 4.0 **Jun. 2020**

EXPERIENCE

Research Assistant at **Intelligent Robot Motion Lab** Princeton, NJ **Aug. 2022 - Present**

- Creating depth estimation capabilities from RGB imaging for the Crazyflie drone to be used in implementations of safety guarantee theory.

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.

Software Engineering Intern at **Arine** Remote **May 2021 - Apr. 2022**

- Developed Python algorithms and unit tests to make medical recommendations for patients.

SKILLS

- **CAD**: PTC Creo, Siemens NX, Fusion 360
- **Programming**: Python, Java, C++, MATLAB
- **Other**: Altium Designer, Git/GitHub, LaTeX, Microsoft Office, Jira/Scrum

EXTRACURRICULARS

- Princeton Rocketry Club (Spaceport America Cup co-Lead)
- Princeton Robotics Club
- *The Daily Princetonian* (Head Photo Editor)
- Society of Women Engineers
- Badminton Club

SELECTED AWARDS & PROGRAMS

- SWE Alma Kuppinger Forman scholarship (2021)
- NASA L'SPACE Proposal Writing Academy and Mission Concept Academy (2020)
- NAR Gleda Estes Scholarship (2020)
- Yale Summer Program in Astrophysics (2019)
- 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