

# Aidan Friedman

6045 Woodmont Rd., Alexandria, VA 22307 — (703) 939-0424 — [ajf246@cornell.edu](mailto:ajf246@cornell.edu)

## EDUCATION

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### Cornell University, College of Engineering

Ithaca, NY

Candidate for B.S. in Mechanical Engineering, Minor in Aerospace Engineering

Anticipated Graduation: May 2027

**GPA:** 4.18

### Gonzaga College High School

Washington, DC

Graduated May 2023

**GPA:** 4.42

Honors: AP Scholar with Distinction, President's Scholar, Sousa Piano Scholarship, National Merit Commended Student

## RELEVANT COURSEWORK

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|--------------------------------------|-----------------------------|-------------------------------------|
| • Statics & Mechanics of Solids      | • Propulsion of Spacecraft  | • Introduction to Mechanical Design |
| • Mechanics of Engineering Materials | • Fluid Mechanics           | • Multivariable Calculus            |
| • Thermodynamics                     | • Waves & Quantum Mechanics | • Differential Equations            |
| • Dynamics                           | • System Dynamics           | • Linear Algebra                    |

## TECHNICAL EXPERIENCE

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### CORNELL ROCKETRY TEAM

Ithaca, NY

October 2023–Present

Team Lead

- Responsible for leading a team of 50 students in building a high-powered hybrid rocket to compete at the International Rocket Engineering Competition in June 2026.

Co-Lead, Propulsion Subteam

- Led a team of 7 students developing flight hardware for the team's first ever hybrid propulsion system, successfully launching in April 2025 and placing third at the International Rocket Engineering Competition in June 2025.
- Developed and executed detailed procedures for 1 coldflow, 4 hotfires, and 2 launches of an N<sub>2</sub>O–HTPB hybrid rocket engine, increasing peak thrust from 300 lbf to 1,385 lbf through hardware and procedural iteration.

Propulsion Subteam Member

- Independently designed, built, tested, and operated hybrid fill station to support purge, oxidizer fill, and launch of Cornell Rocketry's first ever hybrid rocket.
- Assisted with fluid system and other mechanical modifications on hybrid test stand to facilitate the team's first sub-scale and subsequent full-scale hotfire tests.

## WORK EXPERIENCE

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### HOCKEY OPPORTUNITY CAMP

Sundridge, Ontario

Waterski Coordinator, Waterski Instructor, Waterski Counselor

Summer 2022–2025

- Responsible for leading a team of 10 instructors and counselors in delivering comprehensive instruction to over 1,100 campers over the course of 8 weeks.
- Responsible for instructing waterski classes, operating and maintaining a fleet of 7 ski boats, and ensuring waterfront safety.
- Trained member of the camp's emergency response team, deep-water search team, and spinal team.
- Waterski/Wakeboard Ontario Instructor Certified; US Red Cross and Canadian Bronze Cross Certified.

### AMERICAN POOLS

Alexandria, VA

Lifeguard, Pool Operator

Summer 2020–2021

- Monitored pool safety and maintained appropriate chemical levels.

## SKILLS & INTERESTS

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**Skills:** SolidWorks, Java, Python, ANSYS, R-Studio, 3D printing, Leadership, Teamwork

**Interests:** Piano, Cross Country Running, Barefoot Waterskiing