

# Aidan Friedman

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

## EDUCATION

### Cornell University, College of Engineering

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

Ithaca, NY

Anticipated Graduation: May 2027

GPA: 4.18

### Gonzaga College High School

Graduated May 2023

Washington, DC

GPA: 4.42

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

## RELEVANT COURSEWORK

- Statics & Mechanics of Solids
- Mechanics of Engineering Materials
- Thermodynamics
- Dynamics

- Propulsion of Spacecraft
- Fluid Mechanics
- Waves & Quantum Mechanics
- System Dynamics

- Introduction to Mechanical Design
- Multivariable Calculus
- Differential Equations
- Linear Algebra

## TECHNICAL EXPERIENCE

### CORNELL ROCKETRY TEAM

October 2023–Present

Ithaca, NY

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

### HOCKEY OPPORTUNITY CAMP

Waterski Coordinator, Waterski Instructor, Waterski Counselor

Sundridge, Ontario

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

Lifeguard, Pool Operator

Alexandria, VA

Summer 2020–2021

- Monitored pool safety and maintained appropriate chemical levels.

## SKILLS & INTERESTS

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

Interests: Piano, Cross Country Running, Barefoot Waterskiing