

# Avram Dreyer

ajd335@cornell.edu | (201) 898-9735 | Hillsdale, NJ | <https://www.linkedin.com/in/avramdreyer/>

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## EDUCATION

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### Cornell University

Aug. 2025 - May 2029

*Bachelor of Science, Mechanical Engineering*

*Ithaca, NY*

- **GPA: 4.06/4.3;** ASME, Studio Photography Club, Amateur Radio Club
- **Relevant Coursework:** MATH 1920, MATH 2930, ENGRD 2020, CS 1112, ENGRI 1100, CHEM 2090

### Bergen County Technical High School - Teterboro

Sep. 2020 - Jun. 2025

*High School Diploma, Aerospace Engineering*

*Teterboro, NJ*

- **GPA: 3.99/4.0;** National Honor Society, High Honor Roll, Departmental Award for Physics
- **Relevant Coursework:** AP Calculus BC, AP Physics C, AP Computer Science Principles, Digital Electronics, Applied Aerospace Engineering

## WORK EXPERIENCE

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### New Jersey Center for Teaching and Learning (NJCTL)

Nov. 2024 - June 2025

*Course Development Intern*

*Remote*

- Educational organization focused on improving K-12 physics educational materials.
- Worked as a part-time intern improving NJCTL's online physics courses in AP Physics 2.
- Created answer keys and explanations for physics exercises using Moodle software.

### Stevens Institute of Technology

Sep. 2024 - June 2025

*Research Intern*

*Hoboken, NJ*

- Private research university with a strong focus on engineering and technology.
- Interned under Professor Nicholas Parziale's research group, conducting hypersonic fluid dynamics research.
- Studied hypersonic boundary layers using Krypton Tagging Velocimetry (KTV) in the Mach 6 Stevens Shock Tunnel.
- Contributed to graduate-level fluid dynamics research for the US Navy Office of Naval Research (ONR).

### Camp Wigwam For Boys

Jun. 2024 - Aug. 2024, Jun. 2025 - Aug. 2025

*Camp Counselor*

*Waterford, ME*

- A summer camp offering various outdoor activities and educational programs.
- Led and mentored a bunk of campers while managing an activity area.
- Educated kids in model rocketry and other STEM projects.
- Assisted in the successful construction and launch of a high-powered I-engine model rocket.

## PROJECTS

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### NASA HUNCH CubeSat Satellite Thermal Heatsink

Sep. 2024 - Apr. 2025

- Collaborated to design and build a novel prototype of a spacecraft thermal management system for a 1U CubeSat satellite.
- Competed in the NASA HUNCH space hardware design competition.
- Selected as one of five finalists for its category and chosen to be presented at Johnson Space Center in Houston, TX, to NASA engineers.

## CERTIFICATIONS, SKILLS & INTERESTS

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- **Technologies:** Python, Autodesk Fusion 360, Autodesk Inventor, MATLAB, ANSYS Mechanical, Arduino
- **Skills:** Soldering, Digital Electronics, Numerical Simulation, 3D Design, Analytical Reasoning
- **Interests:** Hiking, Electronic Music, Climbing, Reading