

Student Name

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Education

Bachelor of Science in Physics, Concentration in Astrophysics, Minors in Computer Science and Mathematics
Anticipated Graduation: June 2027 | Drexel University | GPA 3.xx

Coursework

Contemporary Physics I, II, III	Thermodynamics	Electromagnetism I, II
Calculus I, II, III, IV	Statistical/Classical Mechanics	Quantum Mechanics I, II

Experience

Physics/Engineering Co-op | Nova Photonics Inc. | April 2025 - September 2025

- Developed Lyot filter stages for a tunable birefringent optical filter.
- Created models to simulate the throughput of the Lyot filter and used them to characterize the filter.
- Characterized free-space multimode laser diodes, volume Bragg gratings, and lithium niobate crystals.

HERA VIP Engineering/Physics Research | Drexel University Physics Department | December 2024 - present

- Conducted astroparticle research in cooperation with the Nationwide Ballooning Project (NBP) as part of a Vertically Integrated Project (VIP).
- Learned the basics of 3D design using Free CAD software to design payloads for high-altitude balloons.
- Performed data analysis on experimental radiation, altitude, and pressure measurements.
- Presented research at the Student Leadership Council science fair.

Navigation, Estimation, and Controls Engineering Co-op | PSU ARL (NRDC) | April 2024 - September 2024

- Worked with a team of engineers in the research and development of navigation systems.
- Develop MATLAB code to simulate Inertial Navigation Systems with Kalman Filters.
- Reviewed and implemented information from academic journals and papers.
- Completed a background check conducted by National Background Investigation Services (NBIS) to obtain Secret level security clearances.

Undergraduate Researcher | STAR Scholars Program | June 2023 - September 2023

- Used software from NASA to conduct research with the Hubble Space Telescope's Exposure Time Calculator.
- Wrote Python code to process CSV files and extract relevant data.
- Created a machine learning training data set with ~100,000 entries through Selenium browser automation.
- Presented research at the AstroPhilly summit and the Drexel-hosted STAR Scholars Showcase.

Skills

Programming Languages: Python, MATLAB, C
Software: Microsoft Office Suite, Visual Studio Code, Jupyter Notebook, Free CAD

Honors/Awards

Dean's List	Drexel University, 2022-present
Pennoni Honors College	Drexel University, 2022-present
Presidential Scholarship	Drexel University, 2022-present
WR Coley Fund Scholarship	Drexel University, 2022-2023