

ANDREW KURTZ

Physicist


Electrical Engineer

Mathematician


PROFILE

Electrical Engineer with a strong foundation in physics, power systems, and data-driven modeling, specializing in industrial process analysis, electronics, and performance optimization. Experienced with Python and MATLAB for system evaluation and technical research. Seeking engineering or research roles in nuclear energy, reactor systems, or advanced power and controls environments.

CONTACT

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 <http://afkurtz.github.io>

EXPERIENCE

DSM-Firmenich, Newark

Chemical Engineering Summer Intern

JUN 2025 – AUG 2025

Analyzed reactor and batch process data using Seeq and PI DataLink, identifying performance trends and supporting process optimization initiatives. Collaborated with cross-functional engineering teams to troubleshoot production inefficiencies and improve batch reliability.

Seton Hall University

Teaching Assistant

SEP 2023 – MAY 2024

Conducted labs for Introductory Physics II, Electronics, and Advanced Laboratories. Created and guided lab experiments, including circuit analysis and radiation safety.

SKILLS

- Python
- MATLAB
- C/C++
- Process Data Analysis
- Power Systems
- Linux
- Electronics & Circuits
- Technical Problem-Solving

AWARDS

- Eagle Scout | Boy Scout Troop 84
- Sigma Pi Sigma, Physics and Astronomy Honor Society
- NASA New Jersey Space Grant Consortium Academic Fellowship - Fall 2023

EDUCATION

Stevens Institute of Technology

SEP 2024 – DEC 2025

M.E. Electrical Engineering, Concentration in Power Engineering | Certificate in Robotics and Autonomous Systems Engineering

Seton Hall University

SEP 2021 – MAY 2024

B.S. Physics | Minor in Applied Scientific Mathematics