

ERIN O'CONNOR

CONTACT

Phone

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Email

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Location

New Brunswick New Jersey

SKILLS

- Solidworks
- Python & MATLAB
- Data Analysis
- Laboratory Operations
- Automotive and Mechanical Repair
- Prototyping
- Building Construction and Repair
- French Proficiency
- Clothing Fabrication

ACTIVITIES

- Makerspace Club
- Swing Dance Club
- Acting: New Rude Mechanicals
- Tai Chi Yang Style Long Form



Looking for internships in the STEM field, with a particular focus on sustainable solutions in engineering.

Research work or laboratory positions are preferred.

RESEARCH EXPERIENCE

Researcher in the Advanced Manufacturing Processes Laboratory: Researching fabrication techniques primarily utilizing 3D printing technologies in the Rutgers Department of Engineering Labs. Projects include:

- DIW Printing: designing and assembling a customized 3D printer for direct ink writing, to be used in carbon capture and element-scaling analysis.
- Rolled-Print Analysis: studying void presence in prints created using a heated rolling method of 3D printing.
- Camera Mounts: prototyping and creation of photographic and thermal camera mounts used alongside multi-nozzle 3D printer.

Greenhouse Power Systems Project: Completed as the thesis project for Sustainability Associate's. Worked towards 100% renewable energy usage by college hydroponic greenhouse, incorporating wind and solar. Established and monitored power systems, compared against data from Rutgers' PAM Station.

- Presented findings at Middlesex College's Science Symposium alongside research report and final paper.

ACADEMICS

Rutgers University New Brunswick: pursuing a Mechanical Engineering Bachelor's Degree from the School of Engineering, since fall 2023. Currently with a 4.0 GPA.

Middlesex College: Graduated with Highest Honors in May 2023. Earned 3 associates degrees with 3.97 GPA, awarded Dean's List every semester. Received Highest Academic Achievement award for Physics degree.

- *Triple Majors:* Engineering Science, Sustainability Science, Physics
- *New Jersey Water Environment Association Scholarship & Membership*

EMPLOYMENT

Panera Bread: Team Manager at College Ave café, ServSafe certified. Responsible for customer service, food preparation, store finances, schedules and team training.

- Associate: 2019 – 2020
- Team Lead: 2020 – 2021
- Team Manager: 2021 – present