

Max Gustin

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Education

University at Buffalo, The State University of New York,

Bachelor of Science, Electrical Engineering:

Expected May 2024

Overall GPA: 4.0/4.0, 6x Dean's List, Honor's College

Skills

Technical Skills: Microsoft Office, MATLAB, C, C++, Python, Altium LTspice, NI Multisim, Oscilloscopes.

Related Coursework: Electronics Lab 1/2, Applied Electromagnetism, Fundamentals of Energy Systems

Professional Affiliations

National Society of Professional Engineers

Nov 2020-Present

Institute of Electrical and Electronics Engineers

Sept 2021-Present

Projects

Homemade Guitar Pedal:

Aug 2022-Present

- Research and design different types of guitar pedals based on how they change guitar sound.
- Determine necessary parts and troubleshoot wiring to get the pedal working.

Work Experience

Electronics Design Engineering Intern

Sept 2023-Present

Moog Inc, East Aurora, NY

- Work in a specialized group of design engineers building schematic designs and board layouts.

Systems Engineering Intern

June 2023-Aug 2023

Northrop Grumman Inc, Baltimore, MD

- Hold a secret-level security clearance while creating documentation of the system as specified by customers.
- Review all changes to the system and communicate this information between teams.

Electrical Product Engineering Intern

May 2022-Aug 2022

Moog Inc, East Aurora, NY

- Coordinated with engineers to troubleshoot electrical equipment based on schematics.
- Wrote numerous Python scripts to automate tasks and efficiently compile data from test equipment.

Leadership Activities

Command and Data Handling Sub-System Lead

April 2022-Present

University at Buffalo Nanosat Lab, Buffalo, NY

- Lead a small group of students to design computer hardware and internal connections for a small satellite.
- Work with interdisciplinary teams to design the satellite while following the standards of the AFRL.

School of Engineering and Applied Sciences TA

Aug 2021-Present

University at Buffalo, Buffalo, NY

- Teach two labs of about 30 students weekly to teach the fundamentals of engineering.
- Grade weekly assignments with a grader team to ensure consistent standards.

National Society of Professional Engineers President

Nov 2020-Present

University at Buffalo, Buffalo, NY

- Found a student chapter by organizing events with local professionals and recruiting members.
- Organize off campus events with local organizations to enable opportunities for UB students.

Honors and Awards

- First-Year Engineering Design Team Award- Dec 2020