

Brent Porter

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Graduate electrical engineer (BS/MS) with experience in PCB design, embedded systems, programming, robotics applications and multidisciplinary team leadership. Searching for a full time opportunity after graduation. Driven to make a positive impact on the world.

Education

Rochester Institute of Technology

Electrical Engineering BS/MS, Robotics Focus Area, Communications Immersion

Expected Graduation: May 2026

Work Experience

Applied Materials

- Electrical Engineering Co-op
- May 2025 - August 2025
 - Designed PCB schematics, created diagrams and documentation, then gave a presentation on the project

Caliber Imaging and Diagnostics

- Electrical Engineering Co-op
- June 2023 - January 2024
 - Breadboarding, programming microcontrollers and FPGAs, PCB schematic, layout, then testing

Skills

- Printed Circuit Board (PCB) Design
 - Schematics and Layout
 - Software Used: KiCAD, PADs Professional, LTSPICE
- PCB Testing and Troubleshooting
 - Bench Equipment: Oscilloscope, Digital Multimeter (DMM), Function/Waveform Generator
 - Soldering
- Technical Documentation and Writing

Northern Lights Candles

- Manufacturing Engineering Co-op
- June 2024 - August 2024
 - Technical documents and tutorial videos for machinery and processes
 - Assembly and calibration of machinery

Wegmans

- Sub Shop and Pizza Employee
- March 2021 - Present
 - Customer service and cash handling
 - Team-building and informally training new hires

Embedded Systems

- Microcontroller and Peripheral Programming: Arduino, C++, Assembly
- FPGA Programming: Verilog, VHDL, Quartus, Vivado

Programming

- Python, MATLAB, C

Soft Skills

- Problem Solving, Public Speaking, Teamwork, Leadership

Major Labs and Projects

Multidisciplinary Senior Design, Electrical Project Manager - Robot Arm for Boston Dynamics SPOT Robot

Biorobotics/Cybernetics - Neural Signal + Machine Learning (ML) Controlled Prosthetic Thumb

Digital Systems II - Reduced Instruction Set Computer (RISC) in Verilog

Embedded Systems - IEEE Formatted Paper on Microcontroller ADC User Interface

Personal Project - 3D Printed Automatic Fish Feeder

Personal Project - Arduino Controlled Robot Car Kit

Awards and Honors

Dean's List - Rochester Institute of Technology

Salutatorian - Alfred-Almond Central School

Wegmans Scholarship - Wegmans