# JEREMY E. BURKE

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## EDUCATION:

**Western New England University, Springfield MA**
**Bachelor of Science in Engineering, May 2026**
**Major:** Computer Engineering      **GPA:** 3.707

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## COURSEWORK:

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|---|---|
| Linear Circuits I & II | VHDL: Simulation and Synthesis |
| Computer Programming in C | Data Structures & Embedded Firmware Design |
| Signals and Systems | Intro to Digital Signal Processing |
| Honors MATLAB | Electronic Circuits |
| Real Time Embedded Kernels | Microprocessors I & II |

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## EXPERIENCE:

**Project Management Intern**          **May 2023 – August 2024**
Michels Power Inc., Pembroke, NH

- Worked with project managers on transmission and distribution projects in the Utility industry
- Made KMZ files on google earth for transmission line projects
- Created a Transmission lines database with over 2000 structures with longitude and latitude
- Used Dig Safe to call in mapping for projects
- In field experience surveying ongoing projects.

**Embedded Tutor / TA**          **Spring 2024**

- Teacher assistant for MATLAB computer programming class
- Helped students learn MATLAB coding language
- Helped professor in lectures
- Held weekly out of class review sessions

**Student Grader for Microprocessors I**          **Fall 2024**
**Electronic Controls Lab Assistant**          **Fall 2024**

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## COMPUTER SKILLS:

**AVR and Atmel Studio**
- Assembly Code
- Microprocessor Programming

**Visual Studio**
- C programming
- Python

**Arduino**
- Robot programming
- Algorithm learning

**MATLAB**
- Graphing
- Equation calculations

**LTspice**
- Circuit design
- Circuit testing

**LabView**
- Arduino Programming
- Algorithm testing

## ACTIVITIES:

**Freshman Bot Bash** – Robot programming and designing             **Dec. 2022**
- Project leader in a group of 5 teammates
- Placed 2nd place out of 40 freshman teams
- 1st place for maze solving robot
- Coded micro-switch and ultraviolet sensors in Arduino using Adafruit Bluetooth micro-controller

**Freshman Smart Project** – Product Design and Development    **May 2023**
- Designed an air quality sensor
- Presented in front of local businesses

**Sophomore Design Project** – 3 band audio equalizer        **Spring 2024**
- Simulated in LTspice
- Measured circuit on Analog Discovery Studio

**Jet Engine Controls Team**             **2024-Present**
- Working with juniors and seniors
- Designing a control system for a 200lb thrust jet engine
- Sensor testing
- Learning PCB design and microcontroller C programming

**Institute of Electrical and Electronics Engineers**    **2022-24**
- Competed with a group of 3 in the Micro-Mouse competition at MIT    **Oct. 2022**
- Vice President    **2024-Present**
- Helped host Alumni Connection Event
- Went to HackUMass    **Fall 2024**
- Hosting WNE Micro-Mouse Competition    **Spring 2025**

**WNE Rocketry Club**    **2023-Present**
- Founding member
- E-board Secretary
- Co-leader for the controls team
- Learning micro python

**DIII Collegiate level Golf**    **2022-Present**