Joe Maloney

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Education

Bachelor of Science in Electrical Engineering — Expected May 2026

J.B. Speed school of engineering — GPA: 3.0
University of Louisville, KY

Skills

Schematic Capture	PCB Layout (Altium)
MCU Devlopment	Workload Management
Web Devlopment	Consistency

Work Experience

Forst and Associates   **May 2024 – December 2025**
Electrical Engineering Intern   *Louisville, KY*
- Coordinated with clients throughout the design process to produce construction drawings for new buildings and renovations aligning with client needs
- Evaluated existing building conditions and created designs compliant with electrical codes and client needs

Olive Garden Italian Restaurant   **June 2023-Present**
Cook, To-Go Server   *Louisville, KY*
- Communicate with guests, plan and coordinate production and delivery of large orders weeks in advance
- Cook: Worked on a team to assemble orders quickly
- Handled cash and maintained accuracy

Cracker-Barrel Restaurant   **April 2020-June 2023**
Server, Cook, Dishwasher, Production Cook   *Louisville, KY & Franklin KY*
- Communicated with guests, attended to guest needs
- Worked on team to assemble orders at high-volume
- Trained new employees at various positions

Applied Experience

LED Matrix Display Clock
- Programmed bootloader and application using memory mapped configuration and I/O (C++)

ESP32 Based IoT Follower/Subscriber counter
- Designed with Altium Designer
- Built google cloud backend (Typescript) and embedded application (C++) to fetch data

Christmas light controller
- Used MCU and relays to design and build 16 channel light controller

Embedded Electrical Design
- Designed Spartan-7 FPGA development board
- Designed Small (3cm X 4cm) thermocouple thermometer
- Designed and assembled high power (90W) PWM led driver
- Designed premium calculator

Activities & Honors

Work 30 hours per week throughout college
Eagle Scout