

# Joe Maloney

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**Portfolio:** [joemaloney.dev](http://joemaloney.dev)

602 Ruggles Pl. Louisville,  
KY 40208

**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 Development Workload Management  
Web Development Board Assembly/Rework

**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