

# 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  
University of Louisville, KY*

GPA: 3.0

## Skills

Schematic Capture  
MCU Development  
Web Development

PCB Layout (Altium)  
Workload Management  
Board Assembly/Rework

## Work Experience

### Forst and Associates

**May 2024 – December 2024**

*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