

# Joe Maloney

270-586-1286		jgmalo01@louisville.edu Portfolio: <a href="http://joemaloney.dev">joemaloney.dev</a>	602 Ruggles Pl. Louisville, KY 40208
Education	Bachelor of Science in Electrical Engineering J.B. Speed School of Engineering		Expected May 2026 University of Louisville, KY
Skills	Schematic Capture Embedded Development PCB Testing/Troubleshooting	PCB Layout Workload Management Board Assembly/Rework	
Work Experience	<div><div>Forst and Associates</div><div>May 2024 – December 2024</div><div>Electrical Engineering Intern</div><div>Louisville, KY</div><div><ul style="list-style-type: none"><li>Developed a deep understanding of AutoCAD, finding optimizations for our workflow and creating guides for company-wide implementation</li><li>Managed project files, creating scripts for ingesting and normalizing CAD files from other platforms, greatly increasing the speed that clients can provide updates to our teams</li><li>Communicated with clients in-person, via email, and over the phone to ensure our designs stayed aligned with their needs</li><li>Created electrical construction drawings with AutoCAD, researching electrical codes and industry best practices to produces quality, code-compliant designs</li></ul></div></div> <div><div>Olive Garden Italian Restaurant</div><div>June 2023-Present</div><div>Cook, To-Go Server</div><div>Louisville, KY</div><div><ul style="list-style-type: none"><li>Planned and coordinated production, packaging, and delivery of large catering orders weeks in advance</li><li>Managed relations with guests over the phone and in person</li><li>Handled cash and maintained accuracy</li><li>Created a new salad making process to increase production to 100+ salads per hour</li></ul></div></div> <div><div>Cracker-Barrel Restaurant</div><div>April 2020-June 2023</div><div>Server, Cook, Dishwasher, Production Cook</div><div>Louisville, KY &amp; Franklin KY</div><div><ul style="list-style-type: none"><li>Trained new team members in various positions</li><li>Communicated with guests and attended to guest needs</li></ul></div></div>		
Applied Experience	<div><div>Custom Calculator</div><div><ul style="list-style-type: none"><li>Schematic Capture in Altium designer, implements new MagPack DC-DC converter from TI to reduce PCB footprint</li><li>Used multi-board design features in Altium to avoid errors interfacing STM32 control/power supply board, keyboard, and OLED display driver board</li><li>Troubleshooted and tested design with multimeter and oscilloscope to determine needed updates to new revisions</li></ul></div></div> <div><div>ESP32 IoT Follower/Subscriber counter</div><div><ul style="list-style-type: none"><li>Utilized EAGLE for schematic capture and board layout</li><li>Built google cloud backend (Typescript) and embedded application (C++) to fetch data, reducing the need for OTA updates when adding new features for users</li></ul></div></div> <div><div>Embedded Electrical Design</div><div><ul style="list-style-type: none"><li>Schematic capture and board layout of Spartan-7 FPGA development board</li><li>Schematic capture and board layout of small (3cm X 4cm) thermocouple thermometer</li><li>Schematic capture, board layout and assembly of high power (90W) PWM led driver</li><li>Built relay-based exterior lighting controller for Christmas lights with Arduino</li><li>Built LED matrix display clock, developed application code with Platform IO (C++)</li></ul></div></div>		
Activities & Honors	Work 30 hours per week throughout college Eagle Scout		

