Thomas Noll

thomas.noll@uky.edu

EDUCATION

University of Kentucky, College of Engineering — **Lexington, KY**
Bachelor of Science in Computer Engineering — *Expected May 2024*

- Minor: Theater
- Cumulative GPA: 3.64
- Completed the Scholars in Engineering and Management program through the Lewis Honors College
- Provost Scholarship, Thomas Lester Engineering Scholarship, Raymond Scholarship

Henry Clay High School — **Lexington, KY**
August 2016 - May 2020

- Cumulative GPA: 3.97
- President of Math Peer Tutoring, Student Leader in Theater Department
- National AP Scholar, National Honors Society, Kiwanis Cup Award

PROFESSIONAL EXPERIENCE

Neural Interfaces and Signal Processing Lab — **Lexington, KY**
Undergraduate Research Assistant — *September 2023 – Present*

- Developing a Convolutional Neural Network to localize the seizure onset zone in patients with refractory epilepsy
- Conducted a literature review on the application of machine learning algorithms to seizure source localization

Infineon Technologies — **Lexington, KY**
Verification Engineer — *May 2023 – August 2023*

- Owned and managed a project to compare vendor tools for their use as a System Verilog testbench linter
- Performed Quality Assurance on verification IP and internal software tools

Lexmark International Inc. — **Lexington, KY**
Electrical Print Systems Engineer — *December 2021 – January 2023*

- Built a platform for large-scale testing and tuning of an experimental algorithm using Python and MySQL
- Developed an internal software tool to monitor and archive oscilloscope and multimeter measurements over long-term tests
- Credited as a Co-Inventor on a U.S. patent for contributions to a technology that calculates toner mass from toner current
- Received Manager Appreciation Award, August 2022

Sav's Restaurant — **Lexington, KY**
Kitchen Staff — *April 2021 – August 2021*

- Managed inventory, food preparation, cleaning, and employee training

PROJECT EXPERIENCE

ModuSense
Team Member — *August 2023 – Present*

- Developing a set of modular electronic toys for children with special needs
- Produced design schematics, WBS, AHP tables, and Gannt charts based on interviews with education professionals

Megaminx Solver
Programmer — *August 2023 – October 2023*

- Created a working Megaminx toy in python with an interactive GUI and an auto-solver using the A-star algorithm

Bottle Buddy
Team Member — *January 2023 – May 2023*

- Produced and sold a line of customizable bottle openers that capture and store bottle caps throughout use
- Handled front and backend development of a website to receive and track customer orders

Phantom Mansion
Team Member — *April 2022, February 2023*

- Programmed a roguelike videogame with random level generation and pathfinding enemies
- Won first place overall at Cat Hacks VIII Hackathon and presented at the University of Kentucky Engineering Day

SKILLS AND INTERESTS

- C, C++, C#
- Simulink, SPICE
- Soldering
- Python, Ruby, Java
- MATLAB
- Raspberry Pi Pico
- HTML, JavaScript, CSS
- System Verilog