# Hunter Muench

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## EDUCATION

**University of Michigan** **Ann Arbor, MI**
*Bachelor of Science in Engineering in Computer Science* *May 2024*
GPA 3.89/4.00
Coursework: Structures and Algorithms; Introduction to Computer Organization; Theory of Computation; Computer Vision; Machine Learning; Web Design, Development, and Accessibility

## EXPERIENCE

**University of Michigan** **Ann Arbor, MI**
*Instructional Aide for EECS 370 (Intro. to Computer Organization)* *August 2022 – Present*

- Teaching students in a weekly discussion section about ISAs, CPUs design, caches, and virtual memory in addition to programming in C and Assembly
- Holding weekly office hours to assist students on homework and projects to improve students' understanding of concepts and enhance my skills in explaining the topics
- Discussing the meeting agenda and student concerns during weekly staff meeting to ensure course is running smoothly and to resolve any issues discovered

*Research Assistant (Working under Dr. Xinyu Wang)* *May – August 2022*

- Developed a top-down enumerative search algorithm to solve the problem of generating TensorFlow code from different inputs and the desired output
- Implemented the algorithm within a tool that works with user specified inputs and returns the generated code after processing the inputs and running the algorithm on the inputs
- Participated in weekly meetings with teammates to discuss algorithm, implementation of the algorithm in python, and the theory of context-free grammar that underlies the project

**Clearwater Pool Management** **Yorktown, VA**
*Supervisor* *May 2021 – August 2021*

- Trained lifeguards on expectations and duties including rule enforcement, proper cleaning methods and requirements (in general and due to COVID-19), and pool water chemistry testing
- Composed a daily written report of pool issues and daily tasks for Leadership and other supervisors

## PROJECTS

Pipelined Datapath Simulator *March 2022*

- Created a simulator to simulate an CPU that processes LC2K assembly code instructions
- Implemented a pipelined data path to demonstrate how a CPU can process multiple instructions simultaneously to increase efficiency and decrease total time to execute the program

## ACTIVITIES

Tau Beta Pi - Gamma Chapter – nominee *September 2022*
Eta Kappa Nu – Beta Epsilon Chapter *September 2021 – Present*
*Projects Officer* *January 2022 – Present*

- Organize volunteer opportunities that benefit UofM and the Ann Arbor community
- Mentor a group of electees – orient and familiarize electees with honor society

*Website Chair* *September 2021 – September 2022*

- Periodically updated and maintained both the front- and back-end of our chapter's website

LEAD Scholar, *2020 Cohort* *August 2020 – Present*

## COMPUTER SKILLS

*Platforms:* Windows 7, Mac OS, Linux
*Languages:* Python, C/C++, HTML/CSS, JavaScript, MATLAB, Rust
*Applications:* Jupyter Notebook, Excel