

# Ryan Doyle

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## EDUCATION

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### Michigan State University

*B.S. in Computer Engineering, 3.03 GPA*

**East Lansing, MI**

*Graduation Date: Apr 2022*

## WORK EXPERIENCE

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### Health Alliance Plan

*IT Intern*

**Troy, MI**

*Mar 2020 - Jul 2020*

- Built and imaged laptops for entire company staff in need; Pushed and supported software for each individual employee dependent on their role.
- Consistent help desk support and troubleshooting for all software and hardware issues for all employees in the company, from the highest-tiered positions to the lowest
- Optimized the refresh process and established a queue for which team member would help certain blocks of employees, resulting in a month-long spare which allowed my team to focus on supporting employees.

### Dakota Integrated Systems

*Engineering Intern*

**Brownstown, MI**

*Aug 2017 - Dec 2017*

- Shadowed senior electrical and computer engineers on the warehouse floor and in office and gained experience with documentation, power tools, and various warehouse vehicles.
- Assisted in creation of engineering documentation of product placement, executed implementation of signs on the warehouse ceiling to assist with the transition of pallets.
- Re-purposed and designed custom rollers from parts harvested from old equipment on multiple occasions, saving company thousands of dollars on new equipment.

### Ebay

*Store Owner*

**Plymouth, MI**

*May 2020 - Present*

- Self employed while attending school and part time work.
- Maintained 100% positive feedback rating on Ebay store with over 100 transactions.
- Offered a variety of collectibles for sale, ranging from vintage toys to rare cards.

## PROJECT EXPERIENCE

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### Michigan State University

*Digital Signal Processing Machine Learning Speech Recognition Project*

**East Lansing, MI**

*Jan 2022 - Mar 2022*

- AI algorithm development to train the software to recognize and pair voices between .wav files.
- Hands on use of NumPy, Matplotlib, and SciPy Python libraries for calculations, vector quantization, and to display the outcome of the Machine Learning algorithm.
- Guided my partner through complex thought process and ended with a success rate of 75% recognition, which aligned with my partner and I's goal of mimicking the human ear.

### Michigan State University

*Senior Design Project with TECNIX Wind Turbines*

**East Lansing, MI**

*Jun 2021 - Oct 2021*

- Key role in software integration team to optimize company software in C++ using Atom and Platform/IO for embedded software within our Arduino, closely following and adding Github updates from the Tecnix software lead.
- Added two new sensors to the device to account for temperature and humidity and pick up readings in real time and integrated them into our stack.
- Created a server at first using MariaDB and Docker, then ending up on a Raspberry Pi hosted through Apache, with a front end for our database created with Java and plots created with Python.

### Michigan State University

*Virtuoso Microprocessor Design (VLSI Design)*

**East Lansing**

*Dec 2021 - Mar 2022*

- Worked in a team of 3 to design the entire schematic of an 8-bit microprocessor and bring it to life using Cadence

Virtuoso for low-level logic design to high-level connection.

- Created and deployed a test environment to ensure our microprocessor's components were functioning properly along the way to bringing them all together.
- Participated in an Intel-sponsored group challenge to display and explain our microprocessor to various industry professionals and professors.

## LEADERSHIP EXPERIENCE

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### SkyZone LLC

Canton, MI

*Maintenance Lead*

*Nov 2017 - Jul 2018*

- Responsible for diagnosing and facilitating maintenance/repairs of all equipment used by staff and customers and monitoring my maintenance team.
- Prepared park for new construction by removal of previous trampoline sections with my team.
- Performed daily inspections for safety standards on all trampoline equipment.

## SKILLS & INTERESTS

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**Skills:** Python, C++, OOP, C, Linux, SQL, Javascript, HTML5, CSS, Docker, AWS, Hardware/Communications

### Current Projects

: HP ProLiant DL160 G6 Server (VMware ESXi installed), Windows & Linux VMs, Web Development Bootcamp, SQL Bootcamp, AWS Certification Curriculum, LeetCode Daily Challenge (Python), Member of CodingGroup in Discord, Hosting of Personal Site