

# Chris Ridenour

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## OBJECTIVE

To obtain a full-time computer engineering position in winter 2022-23.

## EDUCATION

**Purdue University**, West Lafayette, Indiana

December 2022

*Bachelor of Science in Computer Engineering, Minor in Political Science*

## SKILLS

Programming: C, Python, MATLAB, VB.Net, SQL / MySQL, ControlLogix, SystemVerilog, LaTeX, Java, Fortran, C#  
Technical Skills: PLCs, Robotics, Level I/II Manufacturing Systems, PCB Design, VMWare, GitHub, Microsoft Office, Microsoft Message Queuing (MSMQ), Adobe Photoshop/Lightroom, Neural Networks, Encryption  
Relevant Coursework: ASIC Design, Artificial Intelligence, Compilers, Data Science, Data Structures

## PROFESSIONAL EXPERIENCE

**Cleveland-Cliffs Steel**, East Chicago, Indiana

*Associate Engineer – Electrical Intern, Process Automation*

May – August 2022

- Networked PLCs to a level II system to monitor the health of steam exhaust fans using accelerometers.
- Constructed ControlLogix ladder logic code to monitor fan vibration using over 500,000 data points per day.
- Implemented a Microsoft Message Queuing and VB.net-based alarm system for a radiation monitoring device.

*Associate Engineer – Electrical Intern, Process Automation*

June – August 2021

- Developed a Python program to parse flat files from a welder and input 108 data points into a SQL database.
- Created a neural network model using Python and information from a SQL database to evaluate weld quality.
- Analyzed neural network data using principal component analysis to develop a quality assessment model.

**Domino's Pizza**, Laurel, Maryland

*Delivery Expert*

May – August 2020

- Sanitized and inventoried service and kitchen areas, prepped food for orders, and delivered food to customers.
- Engaged and communicated effectively with customers when delivering and taking orders.

**Black Rocket Productions**, Arnold, Maryland

*Assistant Instructor*

May – August 2019

- Educated children on various STEM topics, including robotics, programming, and app development.
- Troubleshooted issues with faulty technologies while ensuring children were supervised and safe.

## LEADERSHIP AND INVOLVEMENT

**Association for Computing Machinery – Purdue Chapter**, West Lafayette, Indiana

*Vice President*

April 2021 – April 2022

- Contributed towards executive, financial, and project-related decisions for the organization.

*SIGBots Lead*

April 2020 – June 2021

- Represented SIGBots as an organization on the board, provided updates, and made decisions for SIGBots.

*General Member*

August 2018 – Present

**Purdue ACM SIGBots**, West Lafayette, Indiana

*President*

April 2020 – June 2021

- Oversaw the construction and programming of robots, a wiki, OS development, and other projects.
- Managed finances, events, and communication with the university and their computer science department.

*Vice President*

June 2021 – April 2022

- Responsible for all mechanical, COVID-19, and other safety aspects of the team.
- Maintained communications with the university and filled in for the president whenever necessary.

*Strategy Subteam Lead*

April 2019 – April 2020

- Brainstormed strategy and design options for hardware and software and directed documentation efforts.
- Assisted leading the team to win the 2020 VEX U Robotics World Championship.

*General Member*

August 2018 – Present

- Designed and manufactured mechanical aspects of robots and performed necessary maintenance on them.
- Composed and reviewed documentation for mechanical and software facets of projects.
- Operated robots during competitions, including the 2019 VEX U World Championships.