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.