Noah Coleman

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Objective

Computer engineering graduate looking for a position where I can apply my knowledge of programming to support community growth. I am a highly self-motivated individual with a record of exceeding goals. My education, skills, and proven results qualify me for a computer engineering position in a collaborative environment.

Education

Bachelor of Science, Minnesota State University, Mankato *Aug 2018-Dec 2020*
Major in Computer Engineering (ABET-accredited) *Dean's List final 3 semesters | Major GPA*: 3.43

Technical Skills

Languages: Embedded C, C++, C#, Assembly (MIPS and AVR), Verilog, VHDL, Python, Java, HTML
Relevant courses: Microprocessor Engineering I & II, Real-time Embedded Systems, Electronics, Smart Sensor Systems, Computer Architecture, Operating Systems, Data Structures, Algorithms

Projects

Web-Controlled Thermostat *Dec 2020-Present*

- Developing a web-controlled thermostat in Python that leverages cloud technology using a Raspberry Pi hosting a Flask web server to make heating your home more convenient.

Craigslist Web Scraper *November 2020*

- Developed a Selenium-based web crawler in C# that displays information about Craigslist posts to users on an ASP.NET web application for quicker search results.
- Learned the fundamentals of HTML.

Senior Design Project – CNC Milling Machine *Aug 2019-May 2020*
Minnesota State University, Mankato

- Worked with a team of three students to successfully design and build a portable sized Computer Numerically Controlled machine using 3D printed parts to carve wood and aluminum.
- Responsible for designing and modeling 3D printed parts in Fusion 360.
- Independently completed the project despite pandemic circumstances.

Junior Design Project – Bike Alert *Sept 2018-May 2019*
Minnesota State University, Mankato

- Worked with a group of three to design and build a controller that implements a computer vision algorithm to automatically alert pedestrians of a biker's presence, providing convenience for bike riders and improving pedestrian safety.
- Learned the fundamentals of Python and TensorFlow.
- Continually improved functionality and design of the device after the course ended.

Work Experience

Electronics Research Assistant – Universal and Scalable Smart Grid Power Converter *Aug 2019-Nov 2020*
Minnesota State University, Mankato *(Partially Remote)*

- Designed and built an electric vehicle to test the proof-of-concept bi-directional grid-compatible power converter.
- Collaborated with graduate students to design a current sensor PCB for the converter in Altium and communicated individual progress to a cross-functional team.
- Provided technical documentation including project references and reports.

Activities

- Reconstructing run-down bikes to be donated to kids and adults through Key City Bike in Mankato, MN.
- Volunteer at a local food shelf that helps feed over 50 families each month.
- Avid cyclist and guitar player. Hobbyist 3D model designer.