

# Noah Coleman

noah.coleman@mnsu.edu • [www.linkedin.com/in/noahcoleman42](http://www.linkedin.com/in/noahcoleman42) • [noahcoleman42.github.io](https://github.com/noahcoleman42)

## Objective

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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

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**Bachelor of Science**, Minnesota State University, Mankato  
Major in Computer Engineering (ABET-accredited)

*Aug 2018-Dec 2020*  
*Dean's List final 3 semesters | Major GPA: 3.43*

## Technical Skills

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**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

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### 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 scraper 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

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### 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

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- 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.