

Braden Zingler

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EDUCATION

University of Wisconsin | College of Engineering

Madison, WI

Bachelor of Science in Electrical Engineering and Computer Science (In Progress) / GPA: 3.8

May 2026

- **Certificates:** Electrical Engineering Machine Learning and Data Science Pathway (In Progress)
- **Awards/Honors:** College of Engineering Deans Honor List (Recipient in Fall 2022, Spring 2023)
- **Relevant Coursework:** Object oriented design, algorithms, linear and hierarchical data structures, signals, circuits, logic control programming, machine and assembly language programming, computer organization and design, combinational logic design.

WORK EXPERIENCE

Sinclair Digital (Sinclair Broadcast Group)

Seattle, WA

Software Development Intern

May 2023 – August 2023

- **Built AI headlines feature for producers** by utilizing OpenAI's API for GPT-4 and AWS Lambda. The API would make requests with the producers' stories and develop applicable headlines based on a style the producer could select. Helped build the front-end and the API request to GPT-4 and built a data visualizer to show all AI headlines used by producers.
- **Designed and implemented SQS architecture** for AI narrated stories. I developed a complex processing system consisting of three lambda functions and two queues to process the story text and generate the audio for the story.

Cardinal IG (Glass manufacturing)

Tomah, WI

Electrical Engineer Intern

May 2022 – January 2023

- **Replaced overhead conveyor drive replacement** by wiring an electrical box and its' PLC, implementing safety features such as emergency stop buttons, and programming the boxes' PLC to correctly stop at the correct stations. I communicated with production and team electricians to schedule a time to install the box.
- **Installed semi-automatic caulk application for sealing of windows** by assisting engineers with testing and adjusting the new application. Adjusted parameters in Ladder Logic program to experiment with different values and problem solve different problems with the new caulk applicator.
- **Fixed safety issue in assembly line** after a recordable injury occurred by helping to remove manual emergency stop button and integrate a light curtain to automatically shut off machine when user is too close.
- **Rebuilt old DOS computers** by finding spare DOS computers and rebuilding them manually, then testing and labelling them. Replaced broken computers in the assembly line with the rebuilt computers.

Kwik Trip (Convenience store)

Tomah, WI

Coworker

August 2020 – May 2022

- **Checked out guests** and learned effective communication skills.
- **Learned every position available** to increase my value to my coworkers and company.
- **Cooked food** for guests and properly implemented food safety.

LEADERSHIP EXPERIENCE & ACTIVITIES

Freshmen Involvement Network within Engineering (FINE)

Madison, WI

Board Member

May 2023 - Present

- **Organize events for freshmen in College of Engineering**

MadHacks Hackathon

Madison, WI

- **Built app to notify students of bus arrivals via text message based on their schedule**

March 2023

SKILLS & INTERESTS

Software: Java, JavaScript, Python, HTML, CSS, Gitlab, frontend development, Node.js, React.js, AWS, Jira

Hardware: Circuit design, signal analysis, computer organization and design, basic logic design

Skills: Communication, leadership, teamwork | **Interests:** Programming, Skiing, Reading, Computer Design, Hackathons

