

Dagmawi Abera

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EDUCATION

Minnesota State University, Mankato

Bachelor of Science in Computer Engineering

Mankato, MN

May 2025

TECHNICAL SKILLS

Programming Languages: Python, C/C++, HTML/CSS, Assembly, VHDL/Verilog, MatLab, PLC Ladder logic
Developer Tools: Git/Github, Node.js, SAP, Power BI, AWS, VS Code, PyCharm, Eagle, Ansys HFSS, CCW
Project Management and Methodologies: Agile, Scrum, Kanban, Jira, Confluence, MS 365, Notion, Slack, Trello

EXPERIENCE

Systems Application Engineer and Product Manager Intern

May 2025 – Present

Johnson and Johnson

Raritan, NJ

- Owned **2 SAP MX2** user stories, aligning engineers and supply chain teams to automate data validation and cut late deliveries by **12%**
- Coordinated with the **AWS** migration team, moving **Vision Care** data from servers to the **cloud**, improving system reliability and access speed by **15%**
- Led design and delivery of **3+ Power BI executive** dashboards for **HPT metrics**, consolidating data from multiple **Scrum squads** for leadership and performance reports

IT and Engineering Intern

Jan. 2023 – May 2025

Thin Film Technology Corporation

North Mankato, MN

- Designed and tested 15+ **passive components**, improving product reliability by **70%**
- Conducted 5+ **Ansys simulations**, and developed **signal integrity products**, enhancing signal quality by **60%**
- Streamlined IT operations by coordinating maintenance for 50+ devices, cutting system downtime by **30%**

Software Engineering Corporate Intern

Aug. 2023

Nordstrom Corporation

Seattle, WA

- Improved **search speed** and item discovery through **search engine optimization** by **20%** for several customers
- Integrated **AI** with **BERT NLP models** to enhance filtering accuracy by **30%**, boosting **search relevance**
- Collaborated with product and data teams to build an AI-powered virtual assistant, increasing engagement by **40%**

PROJECTS

RAL Turret Loader Upgrade – Taylor Corporation | *Product Owner and Lead Engineer*

May 2025

- Owned development and product road map of an automated **core loader**, defining **requirements** and coordinating **engineering, controls, and operations teams**
- Oversaw **automation logic development**, ensuring **5 key sequences** met safety and production goals
- Led system integration efforts, coordinating **cross-functional teams** to streamline deployment and **efficiency**

Smart Mirror | *Product Owner and Developer*

Aug. 2023 – May 2024

- Served as **Product Owner**, defining **scope and priorities** for Smart Mirror features (**weather, calendar, live updates**) to improve usability
- Directed deployment of 5 modules**, delivering key features while cutting **system latency by 50ms** for smoother user experience

ACTIVITIES AND LEADERSHIP

Institute of Electrical and Electronics Engineers | *President*

May 2022 – May 2024

- Chaired the IEEE branch at MNSU, expanding membership by **60%** in 4 months and securing **\$20K+** in funding through strategic partnerships, grants, and sponsorships
- Led 20+ events, launched a mentorship program, and earned Student Organization of the Year award

Student Government Senator | *College of Science, Engineering, and Technology*

Aug. 2022 – May 2023

- Secured MavPASS tutor program for key Computer Engineering courses, improving access to academic help
- Passed resolution advocating paid internships and credit cost coverage to ease student burdens

NSBE APEX Excel Scholar | *Recognized for academic excellence in engineering*

Aug. 2024 – Feb. 2025

Extern, Color Stack, Blacks in Tech, AIAA, CodePath, NSN, Afrotech | *Fellow*

Aug. 2022 – Present