

Ethan Dhomnic

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EDUCATION

University of Michigan

Aug. 2025 – May 2029 (expected)

Bachelor of Science in Engineering (BSE), Computer Engineering

Ann Arbor, MI

- **Coursework:** MATH 215 (Calc III), ENGR 100, EECS 203 (Discrete Math), MATH 216 (Calc IV), PHYSICS 140 (Mechanics)
- **Recipient of the BASF Corporation National Merit Scholarship**

EXPERIENCE

DTE Energy

May 2026 - Aug. 2026

Vantage Information Technology Operations Intern

Detroit, MI

- Spearheaded development of an automated AI-powered data pipeline (PowerShell, Power Automate, Copilot Studio) to process **Rockwell FactoryTalk Historian SE and AVEVA PI data**, reducing daily manual SCADA tag/server health checks time by hours
- Built AI agents in Microsoft Copilot Studio with custom **MCP** integrations to streamline Confluence and Smartsheet searches, reducing manual research effort across the team
- Led daily infrastructure health monitoring across DTE Vantage's **On-Site Energy** plant portfolio, gaining hands-on experience with PI System Management, Rockwell FactoryTalk, TrendMiner, and Progress WhatsUp Gold
- Developed working knowledge of plant **SCADA/HMI/PLC** architecture, firewall/DMZ considerations, and the engineering design lifecycle through active participation in technical design meetings
- Supported IT helpdesk operations, including asset management, e-waste processing, and Cisco switch/access point configuration
- Assisted Server Engineering team with server deployment at the Detroit Data Center

Killer Bees Robotics (FIRST Team 33)

Aug. 2021 – May 2025

Club President, Student Control Systems Lead

Auburn Hills, MI

- Worked with a team of high school students and professional engineers to develop a unique high-performance robot year after year within a **six week** time constraint
- Helped recruit and acclimate >5 new members, a notable number as team size and interest had been dropping for years
- Managed the development and health of robot control system components (FRC Control System) and worked with mentors to develop robust software architecture for high robot performance
- Gained professional engineering experience while working out of a large corporate engineering environment (**Stellantis US Headquarters**)
- Nominated in 2024 by mentors for the prestigious **FIRST Dean's List Award**

PROJECTS

Wastescape, ENGR 100 Student Team Project

- Worked with a team of 3 other students to develop a smart trash can monitoring system to combat trash overflow utilizing AI-powered workflows and IoT integrations
- Earned a score of **100 percent** in the project's 'Engineering' category, the highest in the class

SKILLS

Languages : Java, Python, MATLAB, C++

Tools/Frameworks : n8n, Particle Cloud, Git/GitHub, VS Code, Raspberry Pi, Miro, CATIA, Onshape, Microsoft Office, SCADA, Power Automate, MCP