

Dhruv Kekin Toprani

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EDUCATION

Michigan State University, College of Engineering (Honors College)

Expected: **May 2027**

Major: Bachelor of Science, Computer Engineering | **Minor:** Entrepreneurship & Innovation | **GPA:** 3.9/4.0

Awards: Dean's List (4/4), Presidential Scholarship (**Top 1% @ MSU**), Dr. Kun Mu Chen Memorial Scholar (**ECE Excellence**)

SKILLS

Data & Programming: Python, SQL, JavaScript, APIs, Pandas, NumPy, Flask, Firebase

Product: Roadmapping, A/B Testing, Agile/Scrum, Design Thinking, Market Research, PRD writing, User Interviews

Project Tools: Power BI, Tableau, Azure DevOps, GitHub, Figma, Confluence, Jira, Notion, Excel, Adobe Creative Suite

EXPERIENCE

MSU Research Foundation

Grand Rapids, MI

Entrepreneurial Fellow

Sep 2025 – Present

- Organized UX testing and interviews for 15+ users; data driven prioritization reduced step-2 drop-off by 35%.
- Analyzed emerging trends across 6 sectors; surfaced whitespace and aided product strategy for 20+ portfolio startups.

Dewpoint

Lansing, MI

Technical Product Intern

Jun 2025 – Aug 2025

- Conducted market analysis to size a \$1.2M per year opportunity; authored PRD and defined product strategy.
- Launched Network Operation Center in 6 weeks; aligned cross-functional teams to shape features and drive adoption.
- Built KPI dashboard (Power BI + Python) to track product metrics, translating raw data into business insights.
- Translated technical complexity to business value for non-technical stakeholders, integrated feedback into roadmaps.

Consumers Energy

Jackson, MI

Software Engineering Intern

May 2025 – Jul 2025

- Interviewed 10+ stakeholders to identify process gaps; led agile sprint to build a workflow tool; cut delays by 40%.
- Developed a tool (C#/.NET + SQL) to improve storm worker coordination by 35%, enhancing system reliability.
- Created AI-copilot for contract analysis; cut query time by 70%, wrote technical documentation to support adoption.
- Identified \$300K/mo gap in surfacing rebates; built AI tool to match user data to eligibility, driving savings and trust.

D-CYPHER Lab (Focus: Human-AI Alignment)

East Lansing, MI

Research Intern

Feb 2024 – Present

- Automated experiment validation using AI-driven systems; accelerated tests by 400%, enabling rapid iteration.
- Simulated 1,000+ task allocation trials; analyzed collected data and applied results to real-world team models.
- Ran A/B tests vs. state-of-the-art benchmarks; analyzed tradeoffs to optimize task-specific algorithm selection.

PROJECTS

WattX | (HackDearborn 3 Winner)

- Built an automated P2P microgrid simulation to model decentralized energy exchanges and measure system load impact.
- Coded full-stack MVP in 24 hrs. (Python, Flask, Supabase, Fetch.ai); led product design and pitch for a 4-person team.

Work Design for AI Agents | (Research Paper, AI in Business Conference @ Ohio State University)

- Pioneered the first theoretical framework for work design in AI agents, integrating organizational behavior & AI research.
- Created parametric platform to generate large scale datasets to validate theory through analysis across leading AI tools.

LEADERSHIP

MSU VEX-U Robotics Team | Technical Program Lead

Aug 2023 – Aug 2025

- Planned and led sprints across software and hardware teams; qualified for VEX Worlds (top 5% globally).
- Directed 10+ K-12 outreach events; mentored 20+ volunteers and introduced 1,500+ youth to robotics.

Tower Guard Honor Society | President

May 2024 – May 2025

- Led 80 members across 6 sub-teams; coordinated 6,000+ volunteer hours and raised \$20K to expand disability resources.
- Presented a case to the Board of Trustees, securing leadership buy-in for accommodations in 60% of course offerings.