Dhruv Kekin Toprani

topranid@msu.edu | +1 (517) 202-6898 | East Lansing, MI 48825

LinkedIn: www.linkedin.com/in/dhruvtoprani | Portfolio: dhruvtoprani.vercel.app

Summary: I'm a product-driven builder with a systems mindset and engineering depth. I ship fast, lead cross-functional teams, and bring clarity to complex systems. I have a track record of learning rapidly, communicating technical ideas clearly, and driving user centered solutions. Currently focused on high impact technological products improving human lives.

EDUCATION

Michigan State University (Honors College)

Aug 2023 – Dec 2026

Majors: Bachelor of Science, Computer Engineering and Electrical Engineering

GPA: 3.9/4.0

Highlights: Minor in Entrepreneurship & Innovation, Dean's List (x4), Presidential Scholarship (Top 1%)

Involvement: Tower Guard Honor Society, President | Honors College Deans Advisory Council, Public Relations Officer

SKILLS

Technical: Python, JavaScript, HTML/CSS, MATLAB, Git, SQL, Firebase, Rest APIs, NumPy, Pandas

Product: Product Strategy, MVP Scoping, Agile, User Research, A/B Testing, Stakeholder Alignment, Customer Discovery

Tools: Power BI, PowerApps, Power Automate, Lucidchart, Confluence, Jira, Notion, Miro, Adobe Creative Cloud **Hardware**: PCB Design, Arduino, Raspberry Pi, Breadboard Prototyping, Oscilloscope, Function Generator

EXPERIENCE

Dewpoint Technology

Lansing, MI

Jun 2025 – Present

Technical Product Intern

- Shipped Network Operations Center in 6 weeks; led cross-functional milestone planning and execution.
- Built executive dashboard (Power BI + Python) to surface key metrics; documented for future handoff and iteration.
- Led stakeholder discovery across 3 teams; translated insights into roadmap and feature priorities.
- Ran live demos for leadership; pitched technical solution to enterprise clients as cross-functional rep.

Consumers Energy

Jackson, MI

Software Engineering Intern

May 2025 – Jul 2025

- Launched internal logistics tool (C#/.NET + SQL) to support field ops; reduced dispatch errors by 35%.
- Spearheaded 2-week sprint across 5 engineers; scoped and shipped end-to-end internal tool.
- Created AI-powered knowledge base for contract queries; streamlined analyst workflows and cut query time by 70%.
- Identified inefficiency during demo; proposed MVP with 75% cost savings and secured leadership buy-in.

D-CYPHER Lab (Focus: Human-Robot Interaction)

East Lansing, MI

Research Intern

Feb 2024 – Present

- Built AI-driven validation loop; 5× faster test cycles enabled rapid experimentation.
- Ran 1,000+ task allocation trials; tested reward strategies in multi-agent drone coordination systems.
- Conducted A/B tests vs. benchmarks; mapped tradeoffs to task-specific algorithm selection.

MSU VEX-U Robotics Team

East Lansing, MI

Technical Program Lead

Aug 2023 – Present

- Planned sprints across electrical, software, and mechanical teams; qualified for VEX Worlds (top 5% globally).
- Built Python telemetry tool for match replay; enabled root cause analysis and improved scoring by 20%.
- Directed 10+ K–12 outreach events; mentored 20+ volunteers and introduced 1,500+ youth to robotics.

PROJECTS

6Dot | (MSU Designathon Winner)

East Lansing, MI

- Engineered a Braille phone attachment with Bluetooth + solenoid-based output; achieved 98% tactile accuracy.
- Delivered working prototype + pitch in 36 hours after interviewing visually impaired users to guide design.

Multi-Agent Task Planner | Human-Robot Simulation

East Lansing, MI

- Simulated human-drone tasking with combinatorial bandits; optimized tasks based on capability and learned preference.
- Modeled multi-agent coordination under dynamic constraints for human-robot interaction research.