

Tanisha Chitlur

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EDUCATION

Purdue University, College of Engineering

West Lafayette, IN

Bachelor of Science, Industrial Engineering

May 2028

- **Relevant Coursework:** Python for Data Science, Technical Project Management, Mechanics, Engineering Economics

PROFESSIONAL EXPERIENCE

Tesla Motors

Austin, TX

Process Engineering Intern

May 2026–August 2026

- Architected and deployed a custom AI agent integrated with Tesla's internal software to streamline line-level work instruction management across the Austin, Fremont, and Berlin gigafactories.
- Engineered two internal web apps, including a real-time OEE and JPH simulation dashboard to model cycle times and a training platform aligning supervisor execution with process engineering standards.
- Analyzed manufacturing performance across Model Y and Cybertruck lines using MODAPTS studies and dynamic Excel datasets to pinpoint bottlenecks, cycle time variances, and utilization gaps.
- Instructed a weekly technical seminar on implementing AI tools within process engineering, authoring guides, slide decks, and reference reports for 40+ engineers, technicians, and managers.

Stellantis FCA

Auburn Hills, MI

Systems Engineering Intern

May 2025–August 2025

- Diagnosed systemic electrical failures across 75+ vehicles by analyzing CAN data, wiring integrity, and ECU interactions, accelerating root-cause identification and reducing diagnostic time.
- Analyzed complex vehicle electrical architectures and process standards to understand failure propagation across subsystems, supporting manufacturing and validation workflow improvements.
- Authored a core diagnostic workflow and tooling framework that standardized troubleshooting procedures across the team; document is now used for onboarding, training, and process consistency.
- Leveraged hands-on plant exposure to bridge electrical design with manufacturing operations, collaborating with cross-functional teams to present diagnostic findings and improve triage accuracy.

Biamp Systems LLC.

Portland, OR

Electrical Engineering Intern

May 2023–August 2023

- Triaged Cambridge Active Emitter field failures to ensure optimal performance, isolating PCB design flaws affecting continuity, range, and frequency response.
- Performed hands-on PCB modification to identify failure-causing components and validate corrective actions.
- Collaborated with engineers and customers to communicate technical findings and strengthen relationships.

Oregon Health and Science University - Horak Lab

Portland, OR

Biomedical Engineering Research Assistant

May 2022–January 2023

- Conducted gait trials with 50+ Parkinson's patients using motion sensors to evaluate treatment efficacy.
- Facilitated movement trials for 40+ patients, creating protocols to evaluate motor functions and aid research.
- Developed standardized testing protocols to ensure data consistency and repeatability across trials.

LEADERSHIP AND INVOLVEMENT

Oregon Lines for Life - Youth Line | *Crisis Helpline Shift Lead*

- Supervised 15-person volunteer teams, coordinating operations during high-pressure situations.
- Applied structured decision-making and de-escalation frameworks to support 700+ contacts globally.

180 Degrees Consulting | *Consultant*

- Diagnosed operational bottlenecks, delivering data-backed recommendations to improve efficiency.
- Translated ambiguous goals into actionable implementation plans and deliverables to drive alignment.

TECHNICAL & ANALYTICAL SKILLS

Data & Analysis: Python, Excel, GitHub, PowerBI, SQL, MATLAB, AI development tools (Cursor, Claude, VS Code, Streamlit, GitHub Copilot), Java, C

Manufacturing & Systems: process standardization, workflow documentation, failure analysis, cross-functional troubleshooting, MODAPTS studies

Communication: technical documentation, crisis intervention, training development, cross-team presentations