

Sarthak Jethi

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Authorized to work in the United States without visa sponsorship

EDUCATION

The Pennsylvania State University

Bachelor of Science in Industrial Engineering

University Park, PA

May 2025

EXPERIENCE

Penn State Capstone — Echogen Power Systems

Industrial Engineering & Project Scheduling Lead

(Lockheed Martin Best Project Award · 1st of 105 teams)

University Park, PA

January 2025- May 2025

- Collaborated on the development of a TPMS-based heat exchanger core using additive manufacturing (AM) methods, developing the AM workflow in 3DXpert for future LPBF metal production, aligning with scalability and production readiness goals
- Scoped, scheduled, and tracked all project milestones for a cross-functional team designing the heat exchanger, coordinating deliverables across mechanical, manufacturing, and cost analysis workstreams, directly mirroring management workflows
- Performed capital cost analysis for full-scale production (evaluating Inconel 625 material costs, DMP 500 printer throughput, and auxiliary system requirements) to support capital planning

Larsen & Toubro Heavy Engineering

Industrial Engineering Intern

Surat, India

June 2023- Aug 2023

- Collaborated cross-functionally with production, maintenance, and quality control teams to investigate and resolve operational bottlenecks, achieving a 16% OEE improvement in 3 months
- Communicated regularly with various departments, including production, maintenance, and quality control, to ensure seamless operations and timely project execution
- Assisted in the implementation of Total Quality Management initiatives and the evaluation of different departments, contributing to a culture of continuous improvement within the organization

Nittany Motorsports

Chassis Engineer

University Park, PA

September 2022- May 2025

- Contributed to design, manufacturing, and testing of the carbon fiber monocoque, nosecone, and roll hoops improving structural integrity through recurring testing of materials
- Coordinated with suspension and electronics subsystems to integrate mounting points for the drivetrain team and accommodate design changes through continuous cross-functional communication and change management

PROJECTS

Technical Program Manager (TPM) Dashboard

sarthakjethi.com/projects/tpm

April 2026

- Engineered a program management system on real Tesla vehicle software update data, structuring 1,782 features across 7 groups, 20 subgroups, lifecycle stages, and a risk register with date-aware filtering across 118 software versions from January 2023 to April 2026
- Built end to end from a Python web scraper to a deployed web application, enabling point-in-time visibility into feature status, engineer workload, and open risks at any date or version window

TECHNICAL SKILLS

Python, Git, Linux (CLI), Claude Code, Lean Six Sigma Green Belt, MATLAB, SolidWorks, 3DXpert