

Pranuti Venkat Devisetty

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Education

Purdue University, West Lafayette, IN: College of Engineering

Major: Mechanical Engineering

Expected Year of Graduation: 2026

GPA: 3.73/4.0 (Dean's List and Semester Honors x3)

Experience

Manufacturing Lead of Mechanical Team and Suspension System Member, Purdue Solar Racing

(Since August 2022)

- Effectively manage manufacturing schedules to align with the diverse requirements of a team of 30 members.
- Design parts, optimize designs to ensure manufacturability and ease of assembly, run simulations using finite element analysis.
- Work on suspension geometry using vehicle dynamics principles and ensure documentation of process.

Project-Based Research, Purdue University Mechanical Engineering

(June 2023 - August 2023)

- Designed assemblies and produced precise technical drawings with appropriate tolerancing to guide manual machining processes involving lathes and mills.
- Devised toolpaths through the implementation of Mastercam and manufactured on CNC machines.
- Authored CNC mill and lathe guides, complete with instructional videos, describing toolpath generation parameters on Mastercam and simplifying machine setup procedures for enhanced comprehension.

Machine Shop Staff, Purdue University Mechanical Engineering

(Since August 2023)

- Assist students with manual and CNC mill/lathe operation.
- Work on projects to improve practices in the shop.

Engineering Design Project, Transforming Ideas to Innovation II

(August 2022 – December 2022)

- Employed design process to conceptualize and prototype device for testing soil parameters with a goal of bettering food insecurity in the Kakuma Refugee Camp in Kenya.

CFO of Business Idea, TiE Entrepreneurs Program

(June 2020 – August 2020)

- Conceptualized business pitch to decrease size of supply chain in India's agricultural industry; communicated with and resolved team issues.
 - Analyzed and calculated components for the balance sheet.
 - Conducted market research through surveys, receiving over 500 responses; primary research by speaking to possible stakeholders.
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Additional Activities

Boiler Gold Rush Team Leader

(August 2023)

- Interacted with new students and helped them get acquainted with the new environment.

Co-Author of Historical Fiction Book

(August 2018 – August 2021)

- 80 copies sold in 4 countries; 10% of revenue donated to Sparsha Trust (Bangalore, India).

Co-host of Deep-ish Podcast

(Since August 2021)

- Experience with growing up multi-culturally; 100 listeners, 6 countries.

Piano

- Auditioned for and attended music festival in Narni, Italy (2019); Merit in Grade 6 Trinity College London exam.

Languages: Telugu (Native/Bilingual Proficiency), Spanish (Limited Working Proficiency), German (Elementary Proficiency)

Software: Fusion360, NX, Mastercam, MATLAB, Ansys, MS Excel, MS Word