

Harshal Shinde

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Summary

Final-year Mechanical Engineering student with hands-on experience in Finite Element Analysis (FEA), CAD modeling, and mechanical maintenance through internships at 512 Army Base Workshop and Vishwanath Automobiles (Authorized John Deere Dealer). Proficient in ANSYS, SolidWorks, CATIA, and AutoCAD, with practical experience in engine overhaul, stress analysis, and engineering design. Passionate about solving real-world mechanical engineering problems and eager to contribute to design and manufacturing teams.

Skills

Engineering Design: ANSYS, SolidWorks, CATIA, AutoCAD, Programming: Python (Basic), Mechanical Skills: FEA, Engineering Drawing, Electronics: Arduino, Sensors

Experience

512 Army Base Workshop | Pune, Maharashtra Mechanical Engineering Intern | 12/2025 - 01/2026

- Conducted Finite Element Analysis (FEA) of a **T-90 Tank Track Pad** using **ANSYS**, evaluating stress, strain, and total deformation.
- Developed and validated a 3D CAD model of the T-90 Tank Track Pad by applying appropriate material properties, boundary conditions, and loading conditions.
- Performed mesh quality analysis and optimized the simulation model to improve the accuracy and reliability of FEA results.

Vishwanath Automobiles (Authorized John Deere Dealer) | Shahada, Maharashtra Mechanical Engineering Trainee | 06/2023 - 12/2023

- Assisted in engine overhaul, inspection, and assembly of tractor engine components.
- Participated in suspension system maintenance, repair, and troubleshooting activities.
- Worked with senior technicians during preventive and corrective maintenance of agricultural machinery.

Education

Savitribai Phule Pune University Mechanical Engineering | 04/2027

Government Polytechnic Nashik (Diploma) | Nashik, Maharashtra Automobile Engineering | 02/2024

Languages

English, Hindi, Marathi