

# TARUN YARRAMSETTI

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## SUMMARY

A dedicated mechanical engineering student with hands-on experience in ANSYS Structural Analysis and Fluent, with a strong interest in Design, and thermal-fluid systems. Skilled in applying simulation and analysis tools to solve engineering challenges and improve product efficiency. Enthusiastic about learning and contributing to projects in industries such as automotive, aerospace, and energy, with a focus on developing practical and innovative engineering solutions.

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## EDUCATION

**Bachelor of Technology in Mechanical Engineering**

**NOV 2021-Nov 2025**

VIT-AP UNIVERSITY , AMARAVATHI

- Relevant coursework in Design , Thermal-fluid Systems
- CGPA : 8.53

**INTERMEDIATE BOARD OF SECONDARY EDUCATION**

**Aug 2019 - May 2021**

Sri Chaitanya College

- Percentage : 82.8%
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## WORK EXPERIENCE

**1) Operations Intern , DANA Anand India Pvt Ltd- Hosur**

**Feb 2025 - Jun 2025**

- Analyzed and Forecasted Inventory Demand: Used Python to develop a demand forecasting model for aftermarket parts, helping improve stock availability and reduce overstock. Mapped the
- Supply Chain Flow: Documented and analyzed the flow of materials from suppliers to dispatch, identifying potential areas for lead time reduction and efficiency improvement. Studied Safety Acts
- and Converted Them to Visual Formats: Converted important labor and safety acts (like the Maternity Benefit Act, Child Labour Act, etc.) into video-based formats using PowerPoint for worker awareness and compliance training.

**2) Mechanical Maintenance Intern , JSW STEEL - VIJAYANAGARA**

**Oct 2025 - Feb-2026**

- Working as an Engineering Intern (Mechanical Maintenance) at JSW – Lime Calcination Plant (LCP) with hands-on exposure to plant equipment and breakdown maintenance.
  - Actively participated in 300 TPD kiln capital shutdown, handling maintenance planning, execution support, and coordination with technicians to ensure timely completion.
  - Guided and supervised technicians in hydraulic and pneumatic systems, blowers maintenance, conveyors, valves, and thermocouple installations/calibration.
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## PROJECTS

**Title: Heat Transfer Analysis for LI-Ion Battery**

- CFD Simulation & Analysis: Used ANSYS Fluent to study heat transfer and airflow in a battery thermal management system (BTMS).
  - Cooling Optimization: Designed air-cooled BTMS with advanced airflow configurations to improve battery cooling and prevent thermal runaway.
  - Performance Evaluation: Analyzed temperature distribution, Nusselt number, pressure drop, and skin friction coefficient to assess cooling efficiency.
  - Future Enhancements: Proposed heat pipe integration and optimized vehicle designs for better thermal management.
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## ADDITIONAL INFORMATION

- **Technical Skills:** AutoCAD, Ansys Fluent, openFOAM, Solid works, MATLAB , Python(basics)
- **Languages:** English, Telugu, Hindi
- **Certifications:** AutoCAD, Web Development , Project Intern (RINL-Vishakhapatnam)