

Aditya Chahar

 Aditya Chahar |  Chaharaditya2003@gmail.com |  +917820080963

SUMMARY

Mechanical Engineering student at Dr. B.R. Ambedkar National Institute of Technology Jalandhar with practical experience in manufacturing and project management. Proficient in SolidWorks, ANSYS, and CFD. Experienced in design and fabrication projects, including box coupling, hydrodynamic bearings, and metal emissivity measurement. Eager to leverage technical skills and problem-solving abilities.

WORK EXPERIENCE

Reliance Industries Jamnagar

Jun 2024 - July 2024

Project 1: Refurbishment of the DEMAG AC-200 Tyre Mounted Crane

- **Inspection and Evaluation:** Assessed the condition of the DEMAG AC-200 Tyre Mounted Crane, identifying mechanical and structural issues.
- **Repairs and Upgrades:** Executed necessary repairs and implemented upgrades to ensure the crane's functionality and safety.
- **Practical Experience:** Gained hands-on experience in crane maintenance and refurbishment, enhancing problem-solving skills and technical knowledge.

Project 2: Design Solution For Fatigue Failure of Manitou Man Lift Baskets

- **Problem Identification:** Analyzed fatigue failure issues in Manitou man lift baskets, identifying key stress points and failure modes.
- **Design Solution:** Developed and proposed design modifications to enhance structural integrity and reduce the risk of fatigue failure.
- **Implementation and Testing:** Validated the new design through physical testing, ensuring improved durability and safety of the lift baskets.

PROJECTS

Bio-mimicking of Bird Shapes for Solar Air Heating Devices

Optimized solar air heating devices using bird-inspired shapes, resulting in improved aerodynamic and thermal performance.

Foldable Table for Upper Berths in 3rd AC and 2nd AC Railway Coaches

Designed a compact, foldable table for upper berths, improving space utilization and passenger convenience in railway coaches.

Design of the Rack and Pinion for Terrain Vehicles

Developed a rack and pinion mechanism optimized for durability and performance in off-road conditions. Enhanced steering precision and maneuverability on rugged terrain.

Analysis of Cycle Chain Failure Points and Force Analysis

Identified key failure points in cycle chains and conducted force analysis to enhance chain durability and performance.

VOLUNTEER EXPERIENCE

SOME(Society Of Mechanical Engineers)

Role: Head Of Society

NCC

Role: Core Member

Zeal Society

Role: Corporal

EDUCATION

2021 - present	B.Tech in Mechanical Engineering, Dr. B.R Ambedkar National Institute of Technology, Jalandhar 8.41/10)	(CGPA:
2021	Class 12th, CBSE Board	(93.2%)
2019	Class 10th, CBSE Board	(86.4%)

SKILLS

Technical Skills	SolidWorks, ANSYS, EXCEL (Beginner level)
Soft Skills	Problem-Solving, Team Collaboration, Project Management, Communication, Leadership