



Ravi Shankar Pandey

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[utm_source=share&utm_campaign=share_via&utm_content=profile&utm_medium=android_ap](https://www.linkedin.com/in/ravi-shankar-pandey-a28969240?utm_source=share&utm_campaign=share_via&utm_content=profile&utm_medium=android_ap)

Objective

Detail-oriented Mechanical Engineer with strong hands-on experience in CAD design, GD&T, and product development. Currently pursuing M.Tech in Thermal Engineering, with a proven ability to create, redesign, and enhance mechanical systems. Eager to contribute to innovative mechanical design solutions at HYTORC, where analytical thinking, precision, and cross-functional collaboration are valued.

Experience

- National Thermal Power Corporation** 06/2022 - 07/2022
Vocational Trainee
 - Observed operations and system layouts for thermal equipment.
 - Analyzed cooling tower efficiency and contributed to performance reporting.
- Brahmashira Astra Bharat Privat Limited** 01-09-2022 - 30-09-2022
Intern
 - Collaborated on custom design solutions for mechanical subassemblies.
 - Developed prototypes and assisted in BOM creation and revision updates.
 - Generated SolidWorks part drawings, applied GD&T, and ensured design feasibility.
 - Worked closely with manufacturing to address real-world challenges and improve manufacturability.

Education

- National Institute of Technology, Kurukshetra** 2026
M.Tech (Thermal Engineering)
6.46
- Dr. A.P.J. Abdul Kalam Technical University** 2023
B.Tech (Mechanical Engineering)
7.31
- B.Dubey College, Bihia, Bhojpur** 2019
Intermediate
72
- D.A.V. Public School , Arrah, Bhojpur** 2016
Matriculation
83.6

Technical Skills

- CAD Software: SolidWorks (Part Design, Assembly, Motion Study), AutoCAD (2D and 3D Drafting), CATIA V5 (Product Design, Surface Modeling, Sheet Metal)
- Documentation Tools: SolidWorks EPDM (familiar), BOM creation, Revision Control
- Design Knowledge: Custom mechanical parts, GD&T, machine design, DFM principles
- Prototyping & Troubleshooting: Hands-on experience building and testing mechanical systems
- Simulation & Analysis: ANSYS (Structural, Modal, Thermal), Tolerance Stack-up
- Soft Skills: Cross-functional teamwork, Design troubleshooting, Record keeping, Project urgency

Projects

- Bobcat Compact Loader – Design and Simulation Project**
 - Designed and assembled a compact loader using SolidWorks; applied motion study and GD&T.
 - Created manufacturing-ready drawings; built physical prototype using fabricated components.
 - Drafted service and technical documentation with AutoCAD.
- Design & Analysis of Avalanche Resistance Structure Cum Shelter for Troops and People at High Altitude Regions.**
 - Applied SolidWorks and ANSYS for mechanical modeling and environmental analysis.

- Focused on custom structural parts and real-time design validation.
- **Mechanical Floor Cleaner – Prototyping Project**
 - Designed and hand-built a low-cost floor cleaner from recycled parts.
 - Emphasized sustainability, assembly feasibility, and mechanical durability.

Publications

- **Avalanche Resistance Structure Cum Shelter for Troops and People at High Altitude Regions.**
The Patent Office Journal No. 05/2023, Page No.- 8126". (Under Examination)
- **Ravi Shankar Pandey, Pramod Kumar, Sarim Reyaz, Sajid Khan, Girendra Bhati (2022), A Review on the Effects of Avalanches in India, ,EKANSH JOURNAL, ISSN: 2230-9756, pp- 58-64**

Certifications

- AutoCAD: 2D and 3D modelling
- SolidWorks: Part Design, Assembly, Motion Simulation
- CATIA V5: Product Design, Surface Modeling, Sheet Metal
- ANSYS: Structural, Modal, and Thermal Analysis
- Soft Skills: Communication, leadership, team management

Interests

- Playing Football
- Listening songs
- Writing Quotes

Activities

- E-STC on Advances in Manufacturing: Materials, Processes & Systems (AMMPS-25), NIT Kurukshetra, March 2025.
- Corporate training program completed with 'A+' grade

Languages

- English
- Hindi
- Bhojpuri

Reference

- **Mr. Rupesh Kumar Jha - Educaed Designs Pvt Ltd**
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