

PRINCE KUMAR

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OBJECTIVE

Third-year Mechanical Engineering student (5th semester), seeking an internship to gain hands-on experience in production, manufacturing, and product design. Interested in 3D modeling, simulation, and heat transfer analysis, with a focus on applying classroom knowledge to real-world engineering problems.

EDUCATION

National Institute of Technology, Jalandhar
Bachelor of Technology in Mechanical Engineering

2023 – 2027
CGPA: 7.37/10

SKILLS

Mechanical Engineering: AutoCAD, SolidWorks, Fusion 360, ANSYS, Abaqus, Product Design, Heat & Fluid Analysis

Mechatronics (Beginner): Arduino, Sensors, Actuators, Tinkercad, Basic Robotics/IoT

Programming & Tools: Python (Full Stack and AI/ML), Git, VS Code, MS Office, Canva, AI Tools for automation/design

PROJECTS

Pipe Vice Design and Manufacturing
Academic Project

April 2025
NIT Jalandhar

- Modeled and assembled a Pipe Vice in SolidWorks, including major components (Fixed Jaw, Movable Jaw, Spindle Screw).
- Applied basic tolerance analysis, material selection, and fabrication methods (turning, milling, welding).

Hatchery Shed Optimization (Ongoing)
Research Project

Aug 2025 – Present
NIT Jalandhar

- Optimizing the layout and design of a hatchery shed for efficient heat flow management.
- Maintaining ideal temperature and humidity levels using simulation and design analysis tools (ANSYS, SolidWorks).

EXTRA-CURRICULAR ACTIVITIES

Hackflash - NIT Jalandhar
Team Competition

2025
NIT Jalandhar

- Secured 1st place among 15 teams in a 3-hour rapid development challenge by building and deploying a functional prototype under time constraints.

Hackathon - NIT Jalandhar
Team Hackathon

2025
NIT Jalandhar

- Participated in a 36-hour hackathon, collaborating with diverse teams to develop a live end-to-end solution addressing real-world problems.