Dr. Rajesh Kumar

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PROFESSIONAL SUMMARY

Mechanical Engineer (Ph.D.) with **13+ years of experience** in engineering education, laboratory management, and applied mechanical systems. Strong expertise in **mechanical workshops, thermal systems, IC engines, CFD analysis, and equipment handling**. Experienced in **lab setup, maintenance, student training, and academic administration**. Skilled in **measurement techniques, safety compliance, and technical problem-solving**, seeking to contribute as **Technical Superintendent (MME) at LNMIIT**.

CORE TECHNICAL SKILLS

- Mechanical Workshop Operations (Lathe, Drilling, Fabrication, Fitting)
- Thermal Systems: IC Engines, Heat Transfer, Fluid Mechanics
- CAD & Simulation: AutoCAD, ANSYS Fluent, ICEM CFD
- Measurement Tools: Vernier Caliper, Micrometer, Dial Gauge
- Laboratory Setup, Maintenance & Equipment Handling
- Inventory Management & Procurement Processes
- Basic Electrical Troubleshooting (Lab Equipment)
- Safety Compliance & Lab Supervision
- Student Practical Training & Project Guidance

PROFESSIONAL EXPERIENCE

Assistant Professor – Lovely Professional University, Punjab

(Current)

- Conducted practical sessions in mechanical and thermal engineering labs
- Guided students in **hands-on experiments and project work**
- Managed lab equipment, ensuring **maintenance and smooth operation**
- Supported departmental activities, lab coordination, and technical training

Assistant Professor – NIT Kurukshetra / NIT Karnataka / Alliance University Bangalore / Medicaps University Indore

(Combined Experience: 13+ Years)

Key Responsibilities:

- Delivered practical and theoretical instruction in core mechanical subjects
- Supervised laboratory sessions involving **fluid mechanics, thermal systems, and design**
- Guided **B.Tech, M.Tech, and PhD student projects**
- Maintained lab infrastructure and ensured **safe operation of equipment**
- Assisted in **academic planning, lab setup, and accreditation processes (NAAC/NBA)**

Workshop & Technical Exposure (Integrated Experience)

- Hands-on exposure to **machining, fabrication, and engineering labs**
- Experience with **IC engines, fluid flow systems, and thermal setups**
- Conducted simulations using **ANSYS & CFD tools for engineering analysis**
- Familiar with **equipment calibration, testing, and troubleshooting**

EDUCATION

- **Ph.D. (Mechanical Engineering)** – NIT Kurukshetra
- **M.Tech (Thermal Engineering)** – NIT Kurukshetra (Distinction)
- **B.Tech (Mechanical Engineering)** – MDU Rohtak (Honours)

TECHNICAL EXPERTISE

- CFD Analysis & Simulation
- Heat Transfer & Thermodynamics
- IC Engines & Fluid Flow Systems
- Manufacturing & Design Fundamentals
- Artificial Intelligence (NPTEL Certified)

RESEARCH & ACADEMIC CONTRIBUTIONS

- 10+ International Research Publications
- 4 Book Chapters
- 1 Patent Published
- Experience in guiding **PhD scholars & research projects**

ACHIEVEMENTS

- GATE Qualified (Twice)
- Strong academic record (Distinction & First Division)
- Extensive multi-institution teaching experience

ADMINISTRATIVE & TECHNICAL MANAGEMENT

- Experience in **departmental coordination and lab management**
- Academic planning, execution, and technical supervision
- Exposure to **NAAC, NBA, ABET accreditation processes**

JOB ALIGNMENT STATEMENT

I possess strong hands-on exposure to mechanical engineering laboratories, workshop practices, and thermal systems. My experience in guiding students, managing lab infrastructure, and handling technical equipment aligns well with the responsibilities of Technical Superintendent at LNMIIT.

I hereby declare that the above information is true and correct to the best of my knowledge and belief.