Nishant Rathore

Mechanical Engineer & Technical Professional

nishanthrathore@gmail.com | +91 9929784989
Jaipur, Rajasthan — 302012 | linkedin.com/in/nishant-rathore-94439a17

CORE SKILLS

- CAD / AutoCAD
- Workshop Mgmt
- PTC Creo 3.0
- Abaqus FEA
- Python / C++
- GeM Portal
- PTC Thingworx
- PLC Ladder Prog.

LANGUAGES

- English ●●●●●
- Hindi ●●●●●
- Tamil ●●●○○

PROFILE

- DOB: 20 Aug 1996
- Nationality: Indian
- Notice Period: 30 days

HONOURS & AWARDS

- Runners-up, Table Tennis — All India Inter-NIT Tournament (NIT Hamirpur)
- FIDE Rated Chess Player — National & District Champion, The Nilgiris
- Inter-NIT Sports Representative — NIT Jalandhar & MANIT Bhopal
- Best Performer of the Month — Indian Material Handling Corp.
- Guitar Grade 1 — Trinity College London
- Volleyball District Winner — The Nilgiris, Tamil Nadu
- Research Paper Published — *Mechanisms and Machine Science*
- Paper Under Review — *Life Cycle Reliability & Safety Engg.* (SCI)

RESEARCH

- **Published:** Springer Conference — *Mechanisms & Machine Science*
- **Under Review:** SCI Journal — *Life Cycle Reliability & Safety Engg.*
- **M.Tech:** Cyber-Physical Systems & Digital Twins at MNIT Jaipur

PROFESSIONAL SUMMARY

Proactive mechanical engineering professional with **4+ years** of permanent service at MNIT Jaipur (Pay Level 3, Central Institute of National Importance). Skilled in workshop management, laboratory administration, and government procurement via GeM. Combines hands-on engineering expertise with a forward-looking grasp of **Cyber-Physical Systems, IIoT, and Digital Twins**. Experienced in NBA accreditation, institutional compliance, and multi-lab technical leadership — committed to driving efficiency and modernisation across academic and engineering infrastructure.

EXPERIENCE

Technician — Mechanical Department

Aug 2021 – Present

MNIT Jaipur — Malaviya National Institute of Technology *· Permanent · Pay Level 3*

- Technical Staff in the Intelligent Automation & Robotics Lab and Technical In-charge of the Heat Transfer Lab; oversees all lathe, welding, and foundry workshop operations.
- Manages the Mechanical Departmental Store and maintains advance approval records for all UG, PG, and PhD student projects.
- Handles NBA accreditation documentation, official Notesheets, and DUGC committee records with full institutional compliance.
- Executes procurement through Government e-Marketplace (GeM) — raises availability certificates, purchase orders, and approval files end-to-end.
- Leads planning and development of future lab infrastructure and expansion initiatives in the Mechanical Department.
- Pioneered new laboratory set-ups and supported digital-twin oriented efficiency mapping of all workshop assets.

Maintenance & Production Engineer

Jul 2019 – Aug 2021

Indian Material Handling Corp., Jaipur *· Regular*

- Supervised machining shop operations covering lathe, drilling, cutting, and shaper machines for full-scale industrial production runs.
- Managed fabrication and precision assembly of heavy-duty EOT Cranes and Hoists to client specifications and delivery timelines.
- Awarded Best Performer of the Month for consistent operational excellence and measurable output quality improvements.

Business Development Executive

Dec 2018 – Dec 2019

Extramarks Education India Pvt Ltd *· Regular*

- Streamlined customer interaction workflows and recommended process improvements that measurably grew B2C sales conversion rates.
- Expanded the company's digital and social media presence to attract and engage a broader target customer base.

EDUCATION

10th — Science (ICSE) — **69%**
Riverside Public School, Kotagiri — The Nilgiris — 2013

12th — PCM (CBSE) — **65.6%**
Tagore Public School, Jaipur — 2015

B.Tech — Mechanical Engineering — **8.02 CGPA**
JECRC University, Jaipur · First Division — 2019

M.Tech — Industrial Engineering — **Pursuing**
MNIT Jaipur · Research: Cyber-Physical Systems & Digital Twins — In Progress

Nishant Rathore

Technical Competencies · Research · Professional Strengths

TECHNICAL COMPETENCIES

CAD / AutoCAD	PTC Creo 3.0, 2D/3D modelling
FEA — Abaqus	Structural & thermal simulation
Python · C++	Scripting & automation tasks
PTC Thingworx	IIoT platform & dashboards
PLC Ladder Logic	Programmable logic control
GeM Portal	Procurement & order management
Digital Twins	Cyber-Physical Systems R&D
Workshop Ops	Lathe · Welding · Foundry · Drilling
Lab Administration	NBA, DUGC, Store management
IIoT Integration	Sensor data & live monitoring
MS Office Suite	Word, Excel, PowerPoint
Technical Writing	Reports, Notesheets, Records

RESEARCH & PUBLICATIONS

- **Published:** Research paper in *Mechanisms and Machine Science* (Springer Conference Proceedings) — mechanical systems modelling.
- **Under Review:** Submitted to *Life Cycle Reliability and Safety Engineering* (SCI-indexed journal) — peer review ongoing.
- **M.Tech Research:** Cyber-Physical Systems & Digital Twins — active thesis at MNIT Jaipur, Industrial Engineering programme.
- Focus: IIoT integration, digital twin frameworks, and real-time efficiency mapping of manufacturing assets.
- Deployed PTC Thingworx for live asset monitoring and operational dashboards in MNIT lab environments.

KEY ACHIEVEMENTS

- Runners-up, Table Tennis — All India Inter-NIT Tournament (NIT Hamirpur)
- FIDE Rated Chess Player — National & District Champion, The Nilgiris
- Inter-NIT Sports Representative — NIT Jalandhar & MANIT Bhopal
- Best Performer of the Month — Indian Material Handling Corp.
- Guitar Grade 1 Certified — Trinity College London
- Volleyball District Winner — The Nilgiris, Tamil Nadu
- Pioneered new lab infrastructure at MNIT Jaipur Mechanical Dept.
- Streamlined GeM procurement workflows improving departmental efficiency.

PROFESSIONAL STRENGTHS

- **Technical Leadership:** In-charge of Heat Transfer Lab and Intelligent Automation & Robotics Lab; oversees lathe, welding, and foundry operations across all workshops.
- **Institutional Compliance:** Deep expertise in NBA accreditation documentation, DUGC committee records, and end-to-end government procurement via GeM portal.
- **Research Orientation:** Active M.Tech researcher with Springer-published and SCI-submitted papers bridging industry practice with CPS and digital twin innovation.
- **Digital Proficiency:** Skilled across IIoT (PTC Thingworx), FEA (Abaqus), CAD (PTC Creo 3.0), PLC ladder programming, and Python / C++ scripting.
- **Procurement & Administration:** Hands-on experience with GeM portal, departmental store management, and project advance approval records for UG / PG / PhD scholars.
- **Multilingual:** Fluent in English and Hindi; working knowledge of Tamil across spoken and written contexts.

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

Place: Jaipur, Rajasthan

Nishant Rathore