

# Ritik Jain

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## Summary

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- Passionate Mechanical Engineer pursuing a post graduation in Industrial Engineering and Management. Skilled in innovative solutions, advanced tech, Project Management and optimizing production processes. Proven in designing and implementing solutions for complex challenges, with a knack for cross-functional collaboration and leveraging emerging technologies for operational efficiency.

## Education

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**Maulana Azad National Institute of Technology**

08-2023 – 06-2025

*M.Tech in Industrial Engineering and Management - CGPA - 8.57*

*Bhopal*

**Government Indira Gandhi Engineering College (M.P)**

2019 – 2022

*Bachelor of Technology in Mechanical engineering - CGPA - 8.1*

*Sagar*

## Government Projects

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**ISRO -Programmable Automated Field Deployable High Frequency Rainwater Sampler** [Link](#)

- \* • As the Design and Fabrication Head at ISRO project, I led the creation, development, and assembly of components for an innovative automated rainwater sampler, ensuring adherence to specifications and quality standards.
- Received a two-year grant of Rs. 8,60,000 for developing a remotely operated programmable rainwater sampler under the guidance of mentors from Physical Research Laboratory.
- Leading an interdisciplinary team of 11 members towards the fabrication of three marketable models.
- Responsible for budgeting, evaluation of quarterly goals, and liaison with mentors from ISRO. Optimization and Caused

**FCI-Food corporation of India - Optimization and Caused based analysis of National Agri-food Supply Chain**

- \* • Appended Hub-and-Spoke model to existing Agri-food distribution.
- Facility layout optimization using MCDM in warehouse management systems.
- Studied principal of contracts for ground transport in National food supply chain.
- Identified the optimum solution for intra-city supply chain.

## Project

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### Secondary Mass Vibration Absorber (SMVA)

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- Engineered a secondary mass vibration absorber (SMVA) system to mitigate earthquake-induced vibrations in structures, enhancing stability and safety.
- Optimized SMVA to oscillate near the structure's resonant frequency, effectively shifting problematic excitation frequencies and increasing damping to reduce vibration amplitudes.
- Focused on preventing discomfort, damage, or structural failure during seismic events by integrating the SMVA system into existing structures, improving their resilience to seismic activity.

## Technical Skills

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• Project Management • Value Stream Mapping • Lean Manufacturing • Six Sigma Methodologies DMAIC,DMADV • Solid works • Kaizen • MS-Office (Word, Power point, Excel) • lingo and lindo • Additive Manufacturing • witness simulation • Machine Learning • Supply chain and management • Quality Function Deployment • DFMAS • SQL

## Certifications

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- Certified in Introduction to Project Management by coursera [Link](#)
- Certified in Introduction to Electric Vehicles by Great Learning [Link](#)
- Certified in Lean Manufacturing by Simplilearn : [Link](#)
- Certified In Six Sigma by simplilearn: [Link](#)
- Certified in Supply Chain Management by Great Learning [Link](#)
- Certified in Training Workshop in MS Excel using AI and ChatGpt : [Link](#)
- Certified in Product life cycle Management by Great Learning [Link](#)

## Roles and Responsibilities

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- Coordinator at Training and Placement cell NIT Bhopal
- Member of E-summit cell at NIT Bhopal
- Member of Student Council at Govt. Polytechnic College , Khurai
- Training and Placement cell Head at IGEC College sagar

## Training Attended

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- Vocational Trainee at Bharat Heavy Electrical Limited , Bhopal [Link](#)

## Areas of Interest

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Operation Research, Electric Vehicles, , Thermal Engineering ,Supply Chain Management, Lean Manufacturing, Project Management, Industry4.0, Kaizen, AHP , Game Theory , uncertain Decision making , Automobile Engineering,