

SHASHANK SHEKHAR

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Education

Program	Year	Institution/Board	%/CGPA
M.Tech. (Mechanical Engineering)	2021-23	Indian Institute of Technology Kanpur	8.25/10
B.Tech. (Mechanical Engineering)	2016	Babu Banarasi Das University Lucknow	80.95%
CBSE(12)	2011	Delhi Public School Kalinga, Cuttack	63.80%
CBSE(10)	2009	Radiant International School, Patna	88.00%

M.Tech Project

- Experimental Investigation of Methanol with Ignition Improver for Diesel Engines.** Dec 2021 - Present
(M.Tech / Guide: Prof. Avinash Kumar Agarwal) IIT Kanpur
 - Feasibility study of **MD97 (Methanol-97%)** in a Kirloskar single cylinder engine in **Direct Injection** Mode.
 - Study performance, emission characteristics, and comparison with the conventional diesel engine.

Professional Experience

- Turbine Overhauling.** July 2017- May 2019
(Ritweek Engineering Consultancy Services Pvt. Ltd.)
 - Perform initial/ongoing **maintenance inspections.**
 - Creating documentation of analysis.
 - Impact:** Saved **7% of the total budget** in the planning and execution phase.
 - Make a maintenance **floor plan.**
 - Identify inefficiencies and develop improvement solutions.
- 3 Wheeler ATV.** Jan 2016-May 2017
(Ritweek Engineering Consultancy Services Pvt. Ltd.)
 - Design, Fabrication, and Development of an ATV for off-road applications.
 - Key Roles:** **Independent Suspension Systems, Modified Steering Systems, Resource Management.**

B.Tech Project

- Personal Human Transporter.** Jan-June 2015
(B.Tech / Guide: Mr. Vivek Kumar Verma) Babu Banarasi Das University Lucknow
 - Designed and fabricated an ATV.
 - Worked on additional designs to make it suitable for physically impaired people, Police & Security forces.
 - Technical Head** of the team.

Industrial Training

- Study of Tunnel Boring Machine at NTPC hydropower Project** July 14 - 1 month
Mentor: Mr. Avtar Rawat(Asst. Manager(HR)) Tapovan Vishnugad Hydropower Project
- Power Plant Erection Activities and Familiarization at NTPC.** July 13 - 2 weeks
Mentor: Mr. RC Gupta(AGM-ME) Nabinagar Power Generating Company

Certifications

- SQL Boot-camp, **MATLAB** (2022)
- Project Management Boot-Camp
- Microsoft **Excel.**
- Business Analysis Fundamentals - 2022.

Technical Skills

- Programming Language: Python, MATLAB
- Tools:** AutoCAD, SolidWorks, SketchUp.
- Database System: pgAdmin, PostgreSQL
- Latex, Microsoft Office, **Power BI**

Positions of Responsibility

- Teaching Assistant** for Manufacturing Science & Technology, Dr. Mohit Law, IIT Kanpur (July - Present, 2022).
- **Additive Manufacturing & 3D-Printing** Technologies. - Operate Coordinate Measuring Machine.
- President** of "TechnoVibes"- Student's Club BBDU (2015).
- Responsible for **organizing events** and administrating the needs of **150+ students** in "TechnoVibes."

Academic and Co-Curricular Achievements

- GATE 2021, **AIR 1087/120594.**
- First Runner up at Event Organized by **Mahindra & Mahindra** Design Quotient
- 1st in UTKARSH,15 for **"Design & Innovation"** event.
- 1st position in UTKARSH,15 for the **"Best Student's Club President** - TechnoVibes."