

CURRICULUM VITAE

NAVPREET KUMAR

Vill. + PO: Baijnathpur, PS: Sitamadhi,
Nawada, Bihar 805103, INDIA
Email: navpreetkr1234@gmail.com
Mobile No.: + 91-7070806780



Education:

2018-2022:	B.Tech. (Mechanical), School of Engineering and Technology Hemvati Nandan Bahuguna Garhwal University Garhwal-246174, UK, India	First Class
2015-2017:	Higher Secondary Examination (Physics, Chemistry, and Math) Bihar School Examination Board (BSEB) Nardiganj College, Nawada, Bihar, India	First Class
2015:	Secondary Examination Central Board of Secondary Education (CBSE) Nalanda Public School, Nawada, Bihar, India	First Class

Work Experience:

2023/12-Till Date	Mechanical Engineer Maintenance, Inspection, and Design tasks across various functions within the Company Core Project Engineers and Consultants Pvt. Ltd., Amravati-444606
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Work:

- Designing and optimizing machinery that extracts valuable metals from ores through biological processes.
- Develop preventive maintenance strategies, implement condition monitoring technologies, and design machinery with durability in mind. This helps minimize downtime, reduce maintenance costs, and enhance the overall performance and lifespan of biomining machines.

2023/04-2023/11	Project Trainee, Design and development of Electro-Mechanical Solar Panel Cleaning Prototype CSIR-NEERI, Nagpur – 440020, India
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Research:

- Develop the mechanical components of the cleaning system, ensuring they can effectively remove dirt and debris from solar panels.
- Utilize Computer-Aided Design (CAD) software to create detailed 3D models of the proposed prototype.
- Design the electrical components, including sensors, actuators, and control systems to automate and optimize the cleaning process.

2022/01-2022/06	Project Trainee, Fabrication and Characterization of Egg Shell Particle Reinforced Polymer Matrix Composites HNBGU, Garhwal - 246174, India
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Research:

- Development of eggshell powder (ESP) based polymer and subsequently replacing the use of synthetic rubber.
- Characterisation of Egg Shell Particle Reinforced Polymer Matrix Composites
- Tensile, compressive, and wear behavior of the developed composite was also taken under consideration.

2021/12-2022/01 Industrial Training
Internal Combustion Engine at ONGC Academy
Oil and Natural Gas Corporation Limited
ONGC Academy, Dehradun-248003, India

Research:

- Cognizance of various types and operations of an internal combustion engine.
- Development and application of an internal combustion engine were taken into consideration.
- Various control systems and cooling systems were envisaged for the best maintenance of the developed engine.

2021/11-2021/12 Vocational Training
Overview of Hydroelectric Power Plant
GVK Industries Ltd.
Madhi Chauras, Naur, Uttarakhand 249161

2021/06-2021/07 Summer Internship
Design of Engine Piston
Hemvati Nandan Bahuguna Garhwal University
Srinagar (Pauri Garhwal) Uttarakhand-246174

Awards and Academic Achievements:

- **State Level Gold Medalist** in Uttarakhand State WUSHU Championship, 2021.
- **Secured 1st position in Model Exhibition** during GREEN ENERGY CONGREGATION 2019, organized by THE ENERGIEA at Hemvati Nandan Bahuguna Garhwal University
- **Secured 2nd position in Poster Competition** on the occasion of “World Water Day” 2019.
- **Participation Certificate in Quiz and Poster Competition** on the eve of World Ozone Day – 2018 on the theme “A healthy atmosphere, the future we want”.
- **Gold Medalist** in Bihar State Science Project Competitions, 2015.

Technical Skills:

- Practical Skills of handling various equipment such as **Brinell Hardness Testing, CNC, UTM, Vernier Calipers, Pin-On-Disc, Sample Mounting, Lathe, SEM.**
- **Participated and gained knowledge** about nature and properties of material by attending **Online Training Course on Know your Materials selection in Engineering design, non-mechanical properties and Laboratory demonstration**, organized by NPTEL, Hemvati Nandan Bahuguna Garhwal University, Garhwal, 2020.
- **Attended the three-day training course on “AutoCAD and Inventor with ProModel Simulation to Optimize Factory Layouts”** at HNBGU, Garhwal on July 30th to August 2nd, 2019.

Computer Skills:

- **Platform:** WINDOWS
- Proficient with different type of software packages like **Bluej Java, C++, Minitab, Autocad, Edraw, Catia, SQL, MS Office (Word, Excel, Powerpoint).**

Management Skills:

- Designing and modeling of reactors.

- Coordinating group activities and teamwork

Language Skills:

Language	Read	Write	Speak
English	Fluent	Fluent	Fluent
Hindi	Native	Native	Native

I hereby declare that the information furnished above is true to the best of my knowledge

Navpreet Kumar