

Vishesh Singh

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WORK EXPERIENCE

Indian Institute of Technology Roorkee

Junior Research Fellow

Roorkee, Uttarakhand

July 2021-Setp 2021

Department of Mechanical & Industrial Engineering

- Microfluidics Simulations, Micro Channel Preparation, 3D Printing, Mechanical Designing on Solid Works, Technical Report Preparation etc.

Indian Institute of Technology Guwahati

Junior Research Fellow

Guwahati, Assam

Mar 2021- July 2021

IITG Technology Innovation & Development Foundation (TIH Division), A Section-8 Company

- Designing on Solid works, 3D Printing, Lab Setup, Technical Report Preparation etc.

EDUCATION

| Qualification | Board/University | Branch/Specialization | %/CGPA | Year |
|------------------|--|---|--------|------|
| M.Tech | Delhi Technological University | Mechanical Engineering (Computational Design) | 88.80 | 2020 |
| B.Tech | Delhi Institute of Tool Engineering, Guru Gobind Singh Indraprastha University | Mechanical engineering (Tool Engineering) | 75.19 | 2018 |
| 12 th | Central Board of Secondary Education | Science | 81.20 | 2013 |
| 10 th | Central Board of Secondary Education | | 9.0/10 | 2011 |

INDUSTRIAL TRAINING/INTERNSHIPS

| Organization | Duration | Nature of Work | Location |
|--|---------------------|--|--------------------------------------|
| Bhabha Atomic Research Centre (Govt. of India) | June 2019-Aug 2019 | Design Drawing and Design Detailing on AutoCad | Anushakti Nagar, Mumbai, Maharashtra |
| Balaji Auto Parts Pvt Ltd | June 2017-July 2017 | Mould Design & Assembly on NX (Unigraphics) | Bhiwadi, Rajasthan |
| Balaji Auto Parts Pvt Ltd | June 2016-July 2016 | Machining on CNC- Vertical Milling Centre | Bhiwadi, Rajasthan |

TECHNICAL SKILLS

- AutoCAD 2D & 3D
- NX (Unigraphics)
- Solidworks
- Ansys Workbench
- Abaqus
- MasterCAM
- CNC Programming
- Lathe Machining

OTHER SKILLS

- Time Management
- Team Work
- Quick Learning

HOBBIES & INTEREST

- Cricket
- Running

LANGUAGES

- English
- Hindi

PROJECTS

- Design and Static analysis of mono composite leaf spring made of various types of composite materials using Finite Element Method on Ansys Workbench.
- Stress Analysis of Connecting Rod made of Aluminium Alloy using Finite Element Method on Ansys Workbench.
- Design & An Experimental study of Spring Back effect on heat treated & coated Aluminium sheets using bending operation.

PUBLICATION

- Published a Research paper titled “Design and Static Analysis of Mono Composite Leaf Spring made of various types of Composite Materials using Finite Element Method” in a Scopus indexed Journal of **“Material Science & Engineering” of IOP Science**.

ACHIEVEMENTS/CERTIFICATIONS

- Secured All India Rank **428** in **GATE 2022** (PI)
- Presented a Research Paper in **“International Conference on Integrated Interdisciplinary Innovations in Engineering (ICIIE-2020)”** held at Punjab University, Chandigarh.
- Completed NPTEL online Certificate course in **“Advance Machining Processes”** from IIT Guwahati with 81 %.
- Completed NPTEL online Certificate course in **“Computer Numerical Control CNC of Machine Tools and Processes”** from IIT Kharagpur with 62 %.
- Completed NPTEL online Certificate course in **“Joining Technologies for Metals”** from IIT Roorkee with 78 %.
- Completed NPTEL online Certificate course in **“Principles of Casting Technology”** from IIT Roorkee with 79 %.
- Participated in **“National Workshop on Advance Hybrid Materials Processing Technology”** held at Amity school of Engineering and Technology, New Delhi.
- Participated in International lecture series on **“Bond Graph Modelling and Simulation”** organized by TEQIP-III, Delhi Technological University, New Delhi.
- Participated in a e-course in **“Learning on Electoral Awareness and Democracy”** an initiative under systematic voters Education and Electoral participation programme.
- Participated in one day workshop on **“Research Writing”** held at Delhi Technological University.
- Participated in two-day workshop on **“Recent Trends in Welding Technology”** organized by the Department of Mechanical Engineering, Delhi Technological University.

EXTRACURRICULAR ACTIVITIES

- First Prize in Inter Zonal Cricket Tournament.
- Reading Books.
- Participated in DTU Cricket Tournament **“AAHVAAN”**.
- Participated in Delhi Inter-University Cricket Tournament organized by Netaji Subhas University of Technology.