



Hemant Chopra

UG (IV Year II Semester)
B.Tech. (Mechanical Engineering)
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Registration No: 18117036/2022

Indian Institute of
Technology
Roorkee



VERIFIED

Area of Interest

Data Structures, Software development

Education

| Year | Degree/Examination | Institution/Board | CGPA/ Percentage |
|------|--------------------------|--|---------------------|
| 2022 | B.Tech. 4th Year | Indian Institute of Technology, Roorkee | 7.321 |
| 2018 | Intermediate (Class XII) | V.I.P International School, Neemrana (C.B.S.E) | 93.60 % |
| 2016 | Matriculate (Class X) | M.D.V.M (Parle) School,Neemrana(C.B.S.E) | 10.000 |

Internships

PERSONAL MENTORSHIP | Tecuto Education Solutions Pvt. Ltd.

April 2020 - July 2020

- Mentored 10+ Mentees from Different Parts of the Country to help them in cracking JEE Advanced with academics, developing Strategy, and identifying the needs and demands of Paper.
- Few of the Mentees successfully cracked the JEE 2020 (few in NIT).

DATA ANALYTICS CONSULTING | KPMG International

April 2021 - May 2021

- Analyzed Quality of Raw data provided with help of Microsoft Excel and handed a detailed report of suggestions.
- Developed a Rating Parameter to categorize Customers and helped to identify Potential Customer Behaviour for implementing a better Sales/Marketing Strategy.
- Build PowerBI Dashboard to visualize Data and develop Insights regarding Business.

Projects

Computational Analysis of Converging- Diverging Nozzle | Prof. Ankit Bansal

September 2020 - November 2020

- Analysis was done on ANSYS Fluent and parameters analyzed are Mach number, Velocity Pressure, temperature, and density contours.
- Simulation results were verified with the theoretical and numerical calculations.

Static And Dynamic Analysis of Piezoelectric Based Functionally Graded Beam Using FEA | Prof. V H. Saran

September 2021 - Present

- The aim of the project is to model a Piezoelectric based functionally graded beam.
- Mathematical modeling of beam- using different material graded laws of Euler Bernoulli and Timoshenko.
- Basic Properties such as Young Modulus, density are varied along thickness section. Dynamic and Static Analysis will also be done.
- Parametric Studies will be carried out for different YMR, DR, AR, and boundary conditions.

Student Management and Hotel Management System | Mentortca Technology Ltd.

July 2019

- Console Application using OOPS, Sorting, File handling techniques in C++ on Student and Hotel database
- Data is entered in Console, written in the file, and sorting of Hotels done by few parameters(Price, Rating location).

Awards / Scholarships / Academic Achievements

- International Maths Olympiad,2015- Rajasthan Zone- 135th Rank
- NTSE Stage-I Qualified (Rajasthan) : State Merit-205.

Skills

| | |
|--------------------|---|
| Computer languages | C/C++, |
| Software Packages | Microsoft Office, VS Code,Ansys,COMSOL Multiphysics |
| Additional Courses | Coursera- Algorithmic Toolbar, Data Structures. |
| Languages Known | Hindi(SRW), English(SRW) |

Positions of Responsibility & Extra Curriculars

EVENT MANAGER | Inter IIT Tech Meet 8.0

December 2020

- Overall Manager of event SAC(Student Academic Conference).
- Managed the 200+ Participants and 30+ Jury Members during the event.
- Planned the New Structure for this whole event with proper Precautions and Strategy for the first time ever.

Joint Secretary | Society of Automotive Engineers, IIT ROORKEE

May 2020 - April 2021

- Group of Self-Enthusiast Automotive technology Lovers, currently Serving as Vice Chairperson of Group(Managing Overall functioning of Group).
- Project Lead at one of the SAE projects in Shristi -2020 (Quadcopter).
- Planning new ways to reach out to Automotive Enthusiast. (AutoByte is one of Successful Strategy).
- Headed the Engine section of the lecture series and Senior Member of Aero team.

References

Prof. V HUZUR SARAN

Professor

Mechanical and Industrial Engineering, IIT ROORKEE

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