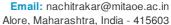


NEHA ARUN CHITRAKAR

B.Tech. - Mechanical Engineering

Ph: +91-7776013481

Fluid Mechanics CFD ANSYS





EDUCATION MIT Academy of Engineering, Pune 2019 - 2023 B.Tech. - Mechanical Engineering | CGPA: 8.64 / 10.00 Shraddha junior college, Ichalkaranji 2019 12th | MSBSHSE | Percentage: **67.53** / **100.00** Alore Highschool Alore, Ratnagiri 2017 10th | Percentage: **96.00** / **100.00 INTERNSHIPS IITR** 30 Jan. 2023 - Present research intern Key Skills: Air filteration experimentation Nanotechnology CFD for performing Aerosol and Nano-particle Technology laboratory-based experiments on Air Filter Testing (AFT). Saptasatij Industries Pvt Ltd 06 Jun, 2022 - 16 Jul, 2023 Design intern Key Skills: Manufacturing Quality Control AutoCAD Design CAD/CAM CATIA I have worked in design and manufacturing department in 6 weeks of internship period. MIT academy of engineering 01 Jun, 2021 - 31 Jul, 2021 dynamics team intern Key Skills: Mechanics Mechanism Design CATIA ANSYS Adams Material Selection worked in design and manufacturing department in 6 weeks of internship period. MIT academy of engineering 15 Jun, 2020 - 16 Jul, 2020 Design intern Key Skills: Fusion 360 Design Electronics Circuit Design CFD 1. RC Plane design 2. Design of Quad-copter 3. Use of ANSYS software **NITTTR CHANDIGARH START-UP** 01 Jun, 2020 - 06 Jul, 2020 Intern Key Skills: Fusion 360 AutoCAD Design INTERNSHIP ON "3D DESIGN" CONDUCTED BY ENOVATE SKILL VIA ICT MODE **PROJECTS**

Key Skills: Literature Mathematics Innovative CATIA Technical Documentation

Design and analysis of an innovative vertical axis wind turbine. And building a prototype for comparing numerical and experimental analysis results.

Designing steering system of ATV

Key Skills: Mechanics Gears Design CATIA Fusion 360 ANSYS Calculations

Designing and analysis of all components in a steering system with rack and pinion gearbox.

PUBLICATIONS / RESEARCH / WHITE PAPERS

Effect of surface roughness on boundary layer thickness

14 Dec, 2022

Numerical study | Journal of Flow Visualization and Image Processing, Begell House Inc. USA. (Applied Sciences & Engineering-

Springer) | Mentor: Prof. Pramod Kothmire | No. of Authors: 6

Key Skills: Fluid Mechanics CFD ANSYS

Presented paper at international FMFP conference at IIT roorkee on a numerical study of effect of surface roughness on boundary layer thickness.

ASSESSMENTS / CERTIFICATIONS

Our Energy Future

Key Skills: Sustainability Environmental Science Renewable Energy

Learnt issues of energy in the 21st century. Examined the emerging field of sustainable energy.

Computational Fluid Mechanics - Airflow Around a Spoiler

Aggregate: 80.0 / 100.0

Key Skills: CFD Fluid Mechanics ANSYS

Understanding cloud-simulation technology and How to set up an incompressible fluid flow simulation around a spoiler and post-process the results.

certificate of presentation in 9th international and 49th national conference of Fluid mechanics and Fluid power

Key Skills: CFD Fluid Mechanics ANSYS

Paper title- Effect of surface roughness on boundary layer thickness

Nature-based Solutions for Disaster and Climate Resilience

nature's many solutions for reducing the impacts from disasters and climate impacts.

programming for everybody (getting started with python)

Aggregate: 96.0 / 100.0

Key Skills: Programming Python Logic Programming

Basics of Python - 2020 (University of Michigan)

the fundamentals of digital marketing Key Skills: Digital Marketing Web Design

Key Skills: Digital Marketing Web Design

SEMINARS / TRAININGS / WORKSHOPS

FMFP Conference 2022 (14th to 16th December 2022 Roorkee, Uttarakhand, India)

14 Dec, 2022 - 16 Dec, 2022

Institute Name: Indian Institute of Technology Roorkee

Key Skills: Fluid Power Fluid Mechanics Aerodynamics CFD ANSYS

It was a fluid mechanics and fluid power conference where I presented my research work on aerodynamics domain.

Konnichiwa pune IJBC

17 Nov, 2022 - 17 Nov, 2022

Institute Name: Pheonix marketcity Pune

Key Skills: Organization Performance

IJBC know Japan

14 Oct, 2022 - 15 Oct, 2022

Institute Name: Pimpri Chinchwad College of Engineering

Key Skills: Japanese Career opportunities

Event was about the career and study opportunities in Japan.

Vishwapreneur 08 Jan, 2020 - 10 Jan, 2020

Institute Name: Vishwakarma Institute of Technology

Key Skills: Entrepreneurship

CO-CURRICULAR ACTIVITIES

- Vice- President Foreign language club MIT AOE
- Vice president : Goonj Music club MITAOE
- Club Mela- Anime Trivia Organizer at MITAOE
- Performance with music team in IJBC event
- Member of Team Niyudrath Racing (Autosports club MITAOE) Dynamics and Management Department (2021)
- Content Creator (Under25 member)

EXTRA CURRICULAR ACTIVITIES

• Performance and participant at IJBC event Pune 2022

PERSONAL INTERESTS / HOBBIES

- Singing
- Traveling
- Guitar

PERSONAL DETAILS

Gender: Female
Marital Status: Single

Current Address: A/P- Alore, Room No.- Td- 5/1, Tal- Chiplun, Alore,

Maharashtra, India - 415603

 $\textbf{Emails:} \ nachitrakar@mitaoe.ac.in\ ,\ nehachitrakar2608@gmail.com$

Date of Birth: 26 Aug, 2001

Known Languages: Marathi Hindi English

Permanent Address: A/P - Gargoti, Patgoan Road, Ghar Kr. 711,

Gargoti- 416209, Kolhapur, Maharashtra, India - 416209

Phone Number: +91-7776013481