



MECHANICAL SYSTEMS DESIGN

EDUCATION

Year	Degree/Exam	Institute	CGPA/Marks
2023	M.TECH	IIT Kharagpur	7.61 / 10
2021	B.E Mechanical	Modern Education Society's College of Engineering, Pune	7.57 / 10
2017	Intermediate	Nowrosjee Wadia College	65.85%
2015	Matriculation	J.N. Petit Technical High School	87.20%

COURSEWORK INFORMATION

- Applied Elasticity | Vibration Analysis | Advance of Mechanics Solids | Fundamentals of Electronic Packaging | Lubrication and Rotor Dynamics | Mechatronics Lab | Mechanics of Human Body | Finite Element Methods | Machinery Fault Diagnostics and Signal Processing | Logistics Systems And Management | Automatic Control | Strength of Materials | Fluid Mechanics

SKILLS AND EXPERTISE

- Programming Languages:** Python | **Skills:** Machine Learning, SQL, ANSYS, Solidworks, LabVIEW, MS PowerPoint, and Excel

PROJECTS

Analysis of Conventional & Composite Leaf Spring | B.E Project, Prof. V. S. Mane, MESCOE Pune [Jul'20 - May'21]

- Modelled leaf spring used in vehicles by utilizing Solid Works as my modeling software and used ANSYS for studying the component
- Compared different properties of leaf springs made up of composite material and conventional steel using various loading conditions

Obstacle Avoidance Robot | Course Project, Prof.A.K.Samantaray & Prof.CS.Kumar, IIT Kharagpur [Feb'22 - Apr'22]

- Designed an obstacle-avoiding walking robot by using the Theo Jansen mechanism and instructed it by using Arduino UNO and code
- Recycled cardboard, nuts, and bolts for the fabrication of the final working model of our obstacle-avoidance walking robot

Octave Analysis of Noise Data for Fault Diagnostics | MTP, Prof. Amiya Ranjan Mohanty IIT Kharagpur [May'22 - Ongoing]

- Calculated Sound pressure Level and performed Octave Analysis on the Data Acquired from the Microphone sensor

POSITIONS OF RESPONSIBILITY

General Secretary Sports and Games, MMM Hall of Residence, IIT Kharagpur [Sep'21 - Jun'22]

- Formulated and managed an overall budget of **8.20 Lakhs** for upgrading sports facilities and equipment along with player's requirements
- Coordinated sports events and teams of MMM hall, working along with 15 captains and 8 secretaries, and also organized inter-hall competitions
- Managed to bag the athletics cup (Jr) for the first time, silver in badminton and chess & bronze in cricket and football (after 10 years) during my tenure

INTERNSHIPS

Industrial Trainee, DAEBU Automotive Seat India Pvt.Ltd [June'21 - Aug'21]

- Completed Internship in Supply Chain Management Learning

AWARDS AND ACHIEVEMENTS

- Secured an All India Rank of 708 in GATE mechanical engineering, 2021 out of 120594 students with a score of 785 out of 1000

CERTIFICATIONS

- Mathworks Website Courses - MATLAB On-Ramp, Simulink On-Ramp
- Machine Learning Stanford University | Google Data Analytics Professional Certificate.
- Python Data Structures | Programming for Everybody.

EXTRA CURRICULAR ACTIVITIES

- Represented SPPU at the **National level All India Football Championship** finishing **13th** in the overall points table amongst the 16 teams
- Represented Pune city football team west zone in **State-level** Football competition and secured **4th place**
- Captain of the MMM hall Football team and Athletics contingent of 30 players Secured **Third Position** in Football
- Secured **First** Position in Long Jump and **100 m** sprinting event, **Second** Position in **200 m** sprinting event, and **First** Position in 3 team relay events.
- Represented the IIT Kharagpur football team in the 55th inter-IIT sports meet held in Dec-2022, hosted by IIT Roorkee and IIT Delhi.