



Vinankara Joshi
Mechanical Engineering
Indian Institute of Technology Bombay

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B.Tech.
Gender: Female
DOB: 21/2/2003

Examination	University	Institute	Year	CPI / %
Graduation	IIT Bombay	IIT Bombay	2024	

ACHIEVEMENTS

- Bagged an All India rank of **1225** among **0.25 million** aspirants in JEE Advanced exam conducted by IIT Delhi ['20]
- Obtained **99.80** percentile among **0.94 million** candidates in JEE Mains examination conducted by NTA ['20]
- Recipient of the prestigious Kishor Vaigyanik Protsahan Yojana (**KVPY**) fellowship with All India Rank of **773** ['19]
- Awarded the **State topper** of Kerala in National Standard Examination in Physics among **54k** candidates ['19]
- Awarded **Best Cadet of the year 2021**, NCC, by the director of IIT Bombay on the 73rd Republic day ['22]
- Secured **first rank** in 10th standard Board Examination, ICSE Board and secured a percentage of **95.6%** ['19]

PROFESSIONAL EXPERIENCE

Content Creation Intern | *Physics Wallah* [May'22 - Jul'22]

- Created and renewed content for the subjects of Physics and Chemistry according to the JEE and NEET syllabus
- Provided solutions to past year JEE Mains, Advanced and NEET questions for Engineering and Medical aspirants
- Provided written explanation for doubt solving and conceptual clarity of these aspiring students

POSITIONS OF RESPONSIBILITY

Culturals and Social Head | *National Cadet Corps, IIT Bombay* [Jul'22 - Present]

- Responsible to impart leadership and other skills and NCC training for B and C certificate to 270+ cadets
- **Leading** a team responsible for the complete ideation, planning, and execution of yearlong activities and events
- Awarded the rank of Junior Under Officer, the 2nd highest rank that can be given to any NCC cadet.
- Leading a 3-tier council of 25+ members responsible for the overall functioning of NCC IIT Bombay.

Culturals and Events Secretary | *National Cadet Corps, IIT Bombay* [Jul'21 - Jul'22]

- Selected out of **45** aspiring candidates on the basis of the skills evaluated through a rigorous **interview** process.
- Responsible for the complete **ideation and execution** of Cultural GC for **180+** cadets constituting **10+** genres.
- Accountable for organization of **inter-college** Cultural Competition among **300+ cadets** during **Annual Camp**.

Company Captain | *National Cadet Corps, IIT Bombay* [July'21- July'22]

- Awarded with CQMS, the **highest arm badge** of NCC, on the basis of exceptional performance during CTC
- Responsible for overall development of 200+ cadets and to impart Drill, Sports, Fitness and Obstacle training
- **Leading and guiding** a contingent of 70+ cadets acting as their first point of contact in all the various aspects

Department Academic Mentor | *Mechanical engineering, IIT Bombay* [May'22-Present]

- One of 43 members selected of 140 applicants via rigorous procedure consisting of SoP, peer reviews and interview
- Providing counsel to 6 sophomore students for their holistic development and cope up with academic difficulties

KEY PROJECTS UNDERTAKEN

Obstacle Manoeuvring Bot | *Institute Technical Council* [Sept'21]

XLR8 Competition, Electronics and Robotics Club, IIT Bombay

- Facilitated the use of **L293D motor driver** for enforcing differential mechanism to execute smooth turns of the bot
- Controlled the bot using **android application** bluetooth remote control system using an **AT-Tiny Microcontroller**
- Successfully manoeuvred the bot along complex obstacle-ridden path using **wireless bluetooth module HC-05**

Student Design Experiment | *Solid Mechanics Course Project, IIT Bombay* [Mar'22]

- Performed an experiment on **rotating beam bending fatigue test** with cantilever loading using the **RBF apparatus**
- Tested samples of Aluminium and Mild Steel under different conditions on Rotating Beam Fatigue Testing Machine
- Plotted the data on the **S-N curve** and calculated **endurance limit** and the various factors affecting it

Image Processing | *Manufacturing Processes Course Project, IIT Bombay* [Mar'22]

- Performed an experiment for Mould damage Detection using image processing in a team of 5
- Scanned the mould to obtain its 3-D surface map using **Micro-Epsilon scanCONTROL 29XX** laser scanner
- Implemented a **deep-learning** based model for damage detection giving reasonable amount of accuracy.