Telore Ketan Kailas

Roll No.:244103440
M.Tech - Machine Design
Department of Mechanical Engineering
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Education

Degree/Certificate	Institute/Board	CGPA/Percentage	Year
M.Tech.	Indian Institute of Technology, Guwahati	8.39 (Current)	2024-Present
B.E.	Savitribai Phule Pune University, Pune	9.01	2023
Diploma	Maharashtra State Board of Technical Education	85.56%	2019
Secondary	SSC Board, Pune	73.40%	2016

Experience

- **TATA Motors Passenger Vehicle Limited** *May 2025 - Jul. 2025*
  Summer Intern Pune, Maharashtra
  – Developed a Robot **Health Monitoring System** for early detection of KUKA robot failures.
  – Learned and implemented KUKA Robot Language (KRL) to write backend control code for robots.
  – Successfully tested and deployed on **300+ BIW robots**, enhancing fault detection and minimizing downtime.
- **ABB India Limited** *Jun. 2021 - Aug. 2024*
  Quality Specialist Nashik, Maharashtra
  – Resolved defects on-line and at the supplier's end, conducted Root Cause Analysis (RCA) & 8D.
  – Led special process awareness sessions with suppliers (PC, LP, surface preparation, etc.).
  – Developed alternative suppliers and customer-specific components to reduce manufacturing and inspection costs.
  – Acted as a **digitization lead** for the Quality Team.
- **ABB India Limited** *Aug. 2019 - Jun. 2021*
  Operation Specialist Nashik, Maharashtra
  – Planned commodities required for production i.e. Fabrication part with suppliers.
  – Coordinated manufacturing activities with internal and external stakeholders.
  – Anchored entire process from Production planning to Dispatch activity including customer FATs.

Projects

- **Design and Fabrication of 3-DoF Prosthetic Wrist Assembly** *Jan. 2025 - Present*
  Prof. Shyamanta M. Hazarika, IIT Guwahati Click Here
  – Design a novel 3-DoF prosthetic wrist assembly optimized for heavy payload.
  – Perform structural and motion analysis in **ANSYS 2025 R2** to validate design feasibility and reduce actuator count.
  – Develop a control system for full wrist assembly based on angular motion inputs.
- **Vibration Analysis of Submarine Propeller Shaft** *Sept. 2024 - Nov. 2024*
  Prof. Santosha Kumar Dwivedy, IIT Guwahati Click Here
  – Conducted Transverse and Torsional Vibration Analysis of Propeller shaft using **MATLAB 2024b.**
  – Performed Modal analysis of the system using Modal Analysis in **ANSYS 2024 R2**.
  – Achieved **94%** correlation between analytical and simulation results.
- **Audit Portal for ELDS Nashik** *Nov. 2023 - Aug. 2024*
  ABB India Limited
  – Designed Audit portal from audit planning to audit closure in a single platform. (by Azure Services)
  – Single portal for conducting all types of audits like Critical components, green channel and supplier process audit.
  – Streamlined the project and ensured for smooth supplier trials.
- **Rejection PPM Reduction Exceeding 60%** *Nov. 2022 - Dec. 2023*
  ABB India Limited
  – Tackled high rejection rates with PPM at 22,302 and escalating quality costs followed by process optimization.
  – Achieved **67%** cost reduction (Rs.862.8 lakh) and PPM drop to 7,389 in 2023.
- **Optimization of Landing gear Mechanism using Generative Design** *Sept. 2022 - Mar. 2023*
  Prof. Keshav Pagar, GCOERC Nashik Click Here
  – Studied the landing gear mechanisms, materials, aircraft selection and optimization focus.
  – Review conducted on Design Optimization & Load Analysis.
  – Developed, analyzed and iteratively generated the model using CAD, **Solidworks 2021** and simulated in **Fusion 360**.
  – Explored additive manufacturing and implemented for Fabrication.
- **Solar Water Distillation Device** *Sept. 2018 - Apr. 2019*
  Prof. Kiran Suryawanshi, GGSP Nashik Click Here
  – Enhancement observed in solar water distillation rate based on altitude and location of the plant.
  – Use of mirrors instead of black paint and addition of a specialized reflection increment tray resulted in increased rate of evaporation.

Technical Skills

- **Programming languages**: C, MATLAB 2024b, KRL, Simulink
- **Modeling and Simulation**: Fusion 360, ANSYS 2025R2, CREO 10, Solidworks 2021, AutoCAD Mechanical 2024
- **Softwares**: SAP RP1 (MM & QM), Office 365 (Advance Excel, Power BI)
- **Lean Six Sigma**: White Belt, Yellow Belt and Green Belt

Key courses taken

- Robotics & Robot Applications, Mechanical Vibrations, Finite Element Methods in Engineering, Continuum Mechanics, Advanced Mechanics of Solids, Rotor Dynamics, Computer-Aided Design/Manufacturing, Introduction to Composite Materials.

Positions of Responsibility

- **Saathi Peer Mentorship Coordinator**, Saathi Club, IIT Guwahati — *Jul. 2025 – Present*
- **Teaching Assistant**, Mechanical Vibration Laboratory, IIT Guwahati — *Jul. 2025 – Present*
- **Teaching Assistant**, Engineering Mechanics, IIT Guwahati — *Jan. 2025 – May 2025*

Achievements & Certificates

- **MATLAB Onramp**, Completed basic training on Matlab R2024b. — *Mar. 2025*
- **Team Building for Tough Times**, Completed 2 days training at Symbiosis Institute Management — *Jan. 2024*
- **Top-3 Graduate**, Achieved 3rd Rank in Overall Graduation Course — *Aug. 2023*
- **Research Paper**, Optimization of Landing Gear Mechanism using Generative Design, iJRASAT — *Apr. 2023*
- **Review Paper**, Review Paper on Aircraft Landing Mechanism, iJRASAT — *Feb. 2023*
- **Patent filed**, Solar Water Distillation Device, Application No. **201921022165** — *Jun. 2019*