Anushasan Tukaram Banate

A dedicated and adaptable educator with experience as a contractual assistant professor, committed to creating an engaging and inclusive learning environment. Leveraging my strong organizational skills and technical expertise in mechanical engineering, I aim to inspire and empower students while contributing to academic excellence and curriculum development in engineering education.

Work Experience

Contractual Faculty (Assistant Professor) 07/2024 - Current

Shri Guru Gobind Singhji Institue of Engineering & Technology - Nanded, Maharashtra

- Engaged students through lecture and discussion, increasing classroom interaction to build inclusive learning environment.
- Maintained student engagement through creative subject delivery and learning activities.
- Designed collaborative learning exercises to capitalize on students' resources and skills.
- Structured assignments with clear goals and criteria for assessment.

Product Development Engineer (CAE Engineer)
11/2023 - 01/2024

Simulation Lab - Remote

- Conducted over 60 Simulations for getting desired results.
- Managed documentation and reports for each new simulations.
- Managed project documenting results for the final presentation.

Project Intern 08/2022 - 08/2023

Kennametal India Ltd – Bengaluru, Karnataka

- Conducted research to assist with routine tasks and special projects.
- Produced professional reports, documents and presentations for project needs.
- Acquired knowledge of industry trends and developed solutions and strategy through effective research.

Contact

Anushasan Tukaram Banate
House no 32a, Jay Nagar, Taroda (Bk) road
Nanded, Maharashtra, 431605.
Contact – 7775974213, 9373392656
anushasanbanate620@gmail.com

Skills

Technical Skills

- Finite Element Analysis
- Modal Analysis
- Linear Static Analysis
- Research
- Active Listening
- Teamwork and Collaboration

Tools/Sofware

- Auto Cad
- Hypermesh
- Ansys Workbench
- Ansys Fluent
- Siemens NX

Languages

- Marathi
- English
- Hindi

Certification/Short Courses

- Complete Altair Hypermesh & Optistruct Course
- Internship & Job Preparation Training
- Programming with Python Training
- Siemens NX Training

Projects

- **Feature on Wing Flap to Enhance Aerodynamic Efficiency (Subsonic Aircraft Internship)**

  This internship project focuses on optimizing aerodynamic efficiency through a groundbreaking wing flap feature. This innovative technology aims to enhance the aircraft's performance, minimizing drag and maximizing fuel efficiency.

- **Establishing a Simulation Setup of Liquid Carbon Dioxide for the application of Machining (M. Tech)**

  The main objective of the project was to capture the trend of liquid carbon dioxide as it exhibits from nozzle and observe its behavior by using ANSYS FLUENT software.

- **Manufacturing of Carbon Collector from Engine Exhaust (B. Tech)**
  In this project, a carbon collector design with a filter element has been presented to reduce air pollution from engine exhaust. The carbon collector would be installed in the engine's exhaust system, trapping carbon particles (soot) and so lowering air pollution.

- **Clutch Operated Automatic Gear Shifting in Two Wheeler (Diploma)**

  The pair of buttons in this work are used to activate the two electromagnetic coils, which are connected to the gear rods at the two ends, causing the gear to shift.

Educational Background

Machine Design (M. Tech):

REVA University - Bengaluru, India
2021 - 2023

- Post Graduation with Distinction, [4 Semester, 2023]
- Thesis Paper: Liquid Carbon Dioxide: A Promising Alternative To Conventional Cutting Fluid For Improved Machining Performance
- 8.89 GPA/CGPA

Mechanical Engineering (B. Tech):

Dr. Babasaheb Ambedkar Technological University - Lonere, India
2018 - 2021

- 8.27 GPA/CGPA

Automobile Engineering (Diploma):

Gramin Polytechnique - Nanded, India
2014 - 2018

- Final Grade: 58.61%

Additional Information

Submitted a research paper titled Liquid Carbon Dioxide: A promising alternative to conventional cutting fluid for improved machining performance to the prestigious International Conference held in REVA University Bengaluru, in collaboration with the Journal of Mines, Metals and Fuels (JMMF).

Area of Interest

- Strength of Material
- Machine Design