

- :Resume: -

ATUL VASANT KARANJKAR



CONTACT DETAILS



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QUALIFICATIONS

Ph.D. (Mechanical Engg.)- NIT Durgapur, W.B., India,

AREAS OF INTEREST

Vibration Based Condition Monitoring, Machinery Dynamics, Noise Control Design, Mechatronics.

EXPERIENCE

- **Industry:** 5 Yrs.
- **Academics:** 19 Years

ADDITIONAL INFORMATION

- **Engineering Courses Taught:** Dynamics of Machinery, Theory of Machines, Strength of Materials, etc.
- **Professional Association:** ISTE - LM125468

JOURNAL PUBLICATIONS

1. Prediction of CI Engine Performance and Emission Characteristics Powered by WPO and Diesel Fuel Blends by ANN, *JMMF*, 72(12):1307–1318, 2024.
2. A Python-Based GUI Approach for Efficient Component Design of Compound Die for Composite Material: 3D and 2D CAD Modeling, *JMMF*, 72(10):1075-1091, 2024
3. Multi response optimization of process parameters in titanium alloy minimum quantity lubrication drilling operation, *ERE*, 6(3):1-9, 2024.
4. A Review: Nanofluids in Machining for Performance and Sustainability, IOP Publishing, 2763(1):012012 (1-14), 2024.
5. Enhancing Ti-6al-4v Drilling Efficiency: Optimization Through Hybrid Nanofluid Lubrication And Microstructural Analysis, *IEJ*, 53(2)4:149-157, 2024.
6. Performance Optimization of Compression Ignition (C.I.) Engine Powered by Recycled Plastic Oil Using Advanced Optimization Algorithms, *IJME*, 11(5):87-98, 2024.
7. Dynamic programming-based control system development for advanced electric power drive, *IJPEDS*, 14(3):1356-1367. 2023
8. Determination of localized spot weld rupture between inner and outer panels of car bonnet, *IJDE*, 12(2):115-126., 2023
9. Inductance Estimation of PMSM Using Extended Kalman Filter, *IJEER*, 11(1):138-142, 2023
10. Drones as a Technology-Based Key Aid for the Development of Rural India, *AJET*,

- 11(2):1-6. 2022.
11. Design of a Smart Baby Cradle Using Blynk and Local Customer Priorities, *SAMRIDDHI*, 14(2): 159-165, 2022.
 12. Modal Analysis of Diagonally Hat Stiffened Square Plate to Distinguish Spot Weld Rupture, *SAMRIDDHI*, 14(3): 280-284, 2022.
 13. Optimum Design of Pressure Vessel Using Johnson's method, *IJAST*, 29(8s):3314-3329. 2020.
 14. A Frequency based Free Vibration Analysis of a Hat Stiffened Plate for Identification of the Damage, *IJMPERD*, 7(6):53-62, 2017.
 15. Experimental and Finite Element Investigation of Free Vibration Behaviour of Car Bonnet, *IREME*, 11(7):448-453. 2017.
 16. Wind Induced Vibration Analysis of Hat Sectioned Highway Sign Pole for Legibility, *JRTM*, 4(3):22-29, 2019.

INTERNATIONAL CONFERENCES (Last 5)

1. Challenges and Approaches for 3w EVs to Be a Most Preferred Vehicle in India: A Review IC-AMCE, 2023.
2. 6th Generation Aircrafts, IC-AMCE, 2023.
3. Manufacturing Flexibility Measures, The Critical Factors Adoption and Its Roles Towards the Sustainability of the Enterprises Considering Different Uncertainties, IFERP, 2023.
4. A Review: Nanofluids in Machining for Performance and Sustainability, ICAME, 2023
5. Waste Plastic Oil as a Source of Fuel for Diesel Engine: A Review, ICRAMEN, 2024.