RESUME

Madhu K S

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Objective

To work in a time sensitive fast paced challenging environment and make best use of my technical and research skills to provide value to my employer, for reaching the organizational goals and enhance my personal knowledge by growing with the organization.

Education					
Course	Year of Passing	Institution	Board/University	Result	
Ph.D (Investigations on Mechanical Properties and Wear Behavior of Aluminium-7029 Hybrid Composites)	2022	Malnad College of Engineering	VTU, Belgavi	Awarded	
M.Tech [Computational Analysis in Mechanical Sciences]	2013	Government Engineering college, Hassan	VTU,Belgaum	77.64 %	
B.E.[Mechanical Engineering]	2010	Malnad College of Engineering, Hassan	VTU,Belgaum	72.42 %	

Technical Skills

- ANSYS, SOLID WORKS, Mini Tab, Artificial Neural Network
- ➢ MS Office

Publication

Journals

- Sharath, B. N., Karthik, S., Madhu, P., Madhu, K. S., & Pradeep, D. G. (2023). Predictive Analysis of Slurry Erosion Behaviour in Aluminium-Based Hybrid Metal Matrix Composites: Experimental and Machine Learning Approach. Journal of Bio-and Tribo-Corrosion, 9(4), 70.
- Sharath, B. N., Madhu, K. S., Pradeep, D. G., Madhu, P., Premkumar, B. G., & Karthik, S. (2023). Effects of tertiary ceramic additives on the micro hardness and wear characteristics of Al2618+ Si3N4-B4C-Gr hybrid composites for automotive applications. Journal of Alloys and Metallurgical Systems, 100014.
- 3. Sharath, B. N., Madhu, K. S., Pradeep, D. G., Madhu, P., Premkumar, B. G., & Karthik, S. (2023). Conjectured hybrid power with artificial intelligence and single-axis solar tracking wind turbine. International Journal of Energy and Water Resources, 1-7.
- 4. Machinability Studies on Boron Carbide and Graphite Reinforced Al7029-Based Hybrid Composites. In Materials, Design and Manufacturing for Sustainable Environment (pp. 511-522). Springer, Singapore (2023).
- 5. Investigating the adhesion strength of electrodeposited Ni-Al2O3 nano composite on Al-2618 substrate by using the scratch test technique. Materials Today: Proceedings, 52, 1702-1706 (2022).
- 6. Characterization and Evaluation of Mechanical Properties of Al-Zn Based Hybrid

Metal Matrix Composites. Applied Science and Engineering Progress, 16(1), 5804-5804 (2022).

- 7. Evaluation of Mechanical Properties of Ceramic Reinforced Aluminium-7029 Hybrid Composite. In IOP Conference Series: Materials Science and Engineering (Vol. 1189, No. 1, p. 012019). IOP Publishing (2021, October).
- 8. Microstructure and Wear Behavior of Microwave Treated WC-10Co-4Cr Composite Coating on AISI 4140 Alloy Steel. In IOP Conference Series: Materials Science and Engineering (Vol. 1189, No. 1, p. 012012). IOP Publishing (2021, October).
- 9. Tribological Suitability of aluminium hybrid composite above atmospheric temperature. In IOP Conference Series: Materials Science and Engineering (Vol. 1189, No. 1, p. 012018). IOP Publishing (2021, October).
- 10. Effect of Boron Carbide on wear resistance of graphite containing Al7029 Based Hybrid Composites and its Dry Sliding Wear Characterization Through Experimental, Response Surface Method and ANOVA. Tribologia-Finnish Journal of Tribology, 38(3–4), 48-60 (2021).
- 11. Experimental Study on Dry sliding Wear Behaviour of Al-B4C-Gr Metal Matrix Composite at Different Temperatures. J. Applied Mechanics and Materials, 895, pp. 96-101. 2019.
- 12. An international journal on "Buckling Analysis of Composite Driveshaft", Journal of Innovative Research and Solutions (JIRAS) ISSN: 2320 1932 Volume No.1A, Issue No.2, Page No: 63-70, Jan – Jun 2013.

<u>Patent</u>

1. Indian Patent

Application No.202341066233 Date of filing of Application: 03/10/2023 Publication Date: 20/10/2023

 $\label{eq:tilde} \mbox{Title of the invention: Investigation on Sliding Wear Behaviour of Zinc Alloy} Reinforced With Nano B_4C Composite$

Work Experience

1. From (Aug-2015 to Present): Assistant Professor, Mechanical Department at

Malnad collegeof Engineering, Hassan.

Roles & Responsibilities:

- I worked on a major research project on the characterization of materials and the development of newer materials for engineering applications.
- I have taught different courses to UG students like Design of Machine Elements, Mechanics of Materials, Industrial Tribology, Engineering Drawing, etc.
- Guided engineering projects for different applications, like domestic automatic floor cleaning machines, kinetic energy recovery systems in bicycles, composite materials for structural applications, etc.
- 2. From (July-2014 to Aug-2015): Assistant Professor, Mechanical Department at Shree DeviInstitute of Technology, Kenjar, Mangalore.
- From (Oct-2010 to Sep-2011): INDO-US MIM TEC (Pvt.) Ltd. An ISO 9001, ISO/TS 16949:2002 Company, Bangalore as a GET in the field of 'PRODUCT DEVELOPMENT'.

Languages

English, Hindi and Kannada.

	Personal Details	
Father's Name	: Somashekara K R	
Mother Name	: Vanajakshi M D	
Passport No.	: G4745440	
Marital Status	: Married	
Date of Birth	: Dec-02-1988	
Permanent Address	: S/o Somashekara K R Kodigarahalli Byrapura post Alur taluk-573218 Hassan District.	

I declare that the information given above is true to the best of my knowledge.

Place: Hassan

Date: 08/08/2023

Signature

(Madhu K S)