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

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

Publication

- 1. 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).
- 2. 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).
- 3. Characterization and Evaluation of Mechanical Properties of Al-Zn Based Hybrid Metal Matrix Composites. Applied Science and Engineering Progress, 16(1), 5804-5804 (2022).
- 4. 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).
- 5. 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).

- 6. 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).
- 7. 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).
- 8. 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.
- 9. 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.

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'.

Roles & Responsibilities:

- > Planning & prioritizing Activities as per Customer requirements.
- Ability to offer professional performance, to understand client requirement and execute responsibility as per to meet the needs and requirement in time.
- > Customer drawing study, process planning & Preparation of work instruction sheet.
- > Specifying the GD&T to improve the better communication in Production Drawing.
- > Preparation of PFD, control plan, & tool layouts.
- Fixture Planning & designing.
- > Interacting with Suppliers for Tooling's & Fixture
- > Take care of All Engineering related activities.
- ➤ Knowledge on GD&T, gauge plan & inspection methods.
- > Trouble shooting during manufacturing process.
- Develop and maintain bill of materials, drawings and other process work flow documentation, monitor product cost throughout the cycle.
- > Regular tracking & monitoring of all activities associated with sample development.

- > Plan & prepare inspection methods for the FAI parts.
- Productivity improvement through setup & cycle time reduction by development of fixtures and tooling.
- Customer drawing study & feasibility study of turning milling & assembly components during RFQ stage.
- > Interacting with customer to execute the Design Process and Clarification.
- Process planning, cycle time calculation for each process, planning & estimating tools & fixtures of turning & milling components during RFQ stage.
- > Preparing list of Raw material & special process list as per customer drawing.

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

Multures

Signature (Madhu K S)