

# RESUME

## Dr.T.C.KANISH

Associate Professor,  
Centre for Innovative Manufacturing Research [CIMR],  
VIT University, Vellore – 632 014.  
Mobile No: 098941 41493  
**tckanish@vit.ac.in**



### Experience:

Duration	Organization	Designation
June 2009 to Till date	VIT University, Vellore -14	Associate Professor
July 2008 to May 2009	Indian Institute of Technology, IIT Madras	Research Scholar
April 2005 to June 2008	VIT University, Vellore -14	Assistant Professor
June 2004 to April 2005	SASTRA Deemed University Thanjavur	Lecturer
June 2003 to May 2004	VIT University, Vellore -14	Teaching Assistant

### Education

#### **Doctoral degree – PhD in Manufacturing**

University : VIT University, Vellore/ August 2015  
PhD Thesis title : Experimental Investigations on Magnetic Field  
Assisted Abrasive Finishing of SS316L

#### **Masters Degree – M.Tech in Mechatronics**

University : VIT University, Vellore  
Passed out : First class with Distinction/June 2004

#### **Bachelors Degree – B.E in Mechanical Engineering**

University : Periyar University, Salem  
Passed out : First class / April 2002

#### **Diploma in Mechanical Engineering**

University : Technical Education, Chennai -25  
Passed out : First class with honors/April 1999

#### **Post Graduate Diploma in- Material Management**

University : Annamalai University, Chidambaram  
Passed out : April 2004 (part-time)

#### **MBA- Marketing**

University : Karaikudi Alagappa University, Karaikudi  
Passed out : December 2008 (part-time)

## International Journal Publications

- **Kanish T.C.,** Kuppan P, Narayanan S, Denis Ashok S. (2017), Investigations on wear behavior of Magnetic Field Assisted Abrasive Finished SS316L material, Materials Today: Proceedings, ELSEVIER, (Article in Press).
- Boopathi M, Shankar S, **Kanish T C,** (2017), Investigation of Surface Texture Generated by Friction Drilling on Al2024-T6, Mechanics, Materials Science & Engineering, (Article in Press).
- Rajesh M and **Kanish T C,** (2017) Mechanical Properties of Natural Fiber Sandwich Composite: Effect of Core layer, Mechanics, Materials Science & Engineering, (Article in Press).
- Senthilkumar S, Boopathi M, **Kanish T.C,** Srivani A (2017), Development of a Fuzzy Model to predict Weld Strength and Nugget Hardness of FSW Joints on AA6063-T6 Plates, Walailak Journal of Science and Technology, Vol.14 (Article in Press).
- **Kanish T.C.,** Kuppan P, Narayanan S, Denis Ashok S. (2017), Investigations on the finishing forces in Magnetic Field Assisted Abrasive Finishing of SS316L, Procedia Engineering, ELSEVIER, Vol. 174, pp. 611-620.
- K. Neethu, M. Boopathi, Giriraj Mannayee and **Kanish T.C** (2016), Fuzzy Logic based Speed Control of BLDC Motor on Sensorless Technique for Space Applications, Indian Journal of Science and Technology, Vol 9(27).
- **Kanish T.C.,** Kuppan P, Narayanan S, Denis Ashok S. (2015), "Experimental investigations and parametric analysis of magnetic field assisted abrasive finishing of SS316L", International journal of Manufacturing Technology and Management (Scopus indexed), Vol. 29, Nos. 1/2, pp. 78-95.
- **Kanish T.C.,** VijithKalathil, S.Senthilkumar (2015), "Optimization of MFAAF Process Parameters using Particle Swarm Optimization" International Journal of Applied Engineering Research (Scopus Indexed), Vol.10, No. 17, pp. 37409-37413.
- **Kanish T.C.,** Kuppan P and Narayanan S, (2014), "Investigations of surface texture generated by magnetic field assisted abrasive finishing", International Journal of Chem Tech Research, Vol.6, No.3, pp 1725-1728.
- **Kanish T.C.,** Kuppan P, Narayanan S, Denis Ashok S (2014), "A Fuzzy Logic based Model to predict the improvement in surface roughness in Magnetic Field Assisted Abrasive Finishing", Procedia Engineering, ELSEVIER, Vol. 97, pp. 1948 – 1956.
- **Kanish T.C.,** Kuppan P. and Narayanan S, Karthikeyan S, (2014), "Corrosion resistance studies of SS316L surface generated by Magnetic Field Assisted Abrasive Finishing" Journal of Corrosion Science and Engineering, ISSN 1466-8858, Vol 17, Preprint 21.

- **Kanish T.C.,** Kuppan P and Narayanan S (2013), Modeling of Magnetic Field Assisted Abrasive Finishing Process using Artificial Neural Network, International Journal of Applied Engineering Research, Vol. 8, number 9, pp.1091-1102.
- **Kanish T.C.,** Kuppan P. and Narayanan S (2013), "Empirical Modeling and Analysis of Magnetic Field Assisted Abrasive Micro Finishing of SS 304L" European Journal of Scientific Research, Vol. 97 No 3, 2013, pp.470-478.
- **Kanish T.C.,** Kuppan P and Narayanan S (2012), "Experimental Investigations on Magnetic Abrasive Finishing of SS 304L" Asian International Journal of Science and Technology in Production and Manufacturing Engineering (AIJSTPME) Vol.5 No.1, pp 35-40.
- **Kanish T.C.,** Kuppan P and Narayanan S (2012), "Experimental investigations on magnetic field assisted abrasive micro finishing of austenitic stainless steel 304L" Advanced Materials Research, Vol. 584, pp 192 – 196.

### International Conference Publications

- **Kanish T.C.,** Kuppan P. and Narayanan S (2014), "Investigations of surface texture generated by magnetic field assisted abrasive finishing", International Conference on Materials and Characterization Techniques (ICMCT 2014) held at VIT university during March 10-12, 2014.
- **Kanish T.C.,** Kuppan P. and Narayanan S, Denis Ashok S. (2014), "A Fuzzy Logic based Model to predict the improvement in surface roughness in Magnetic Field Assisted Abrasive Finishing", 12th Global Congress On Manufacturing And Management, GCMM 2014 held at VIT university during December 08-10 December, 2014.
- **Kanish T C.,** Kuppan P and Narayanan S (2012), "Experimental investigations on magnetic field assisted abrasive micro finishing of austenitic stainless steel 304L" International Conference on Recent trends in Advanced Materials (ICRAM-2012) held at VIT University during 20-22 February 2012.
- Vinothkumar G, **Kanish T C** and Murugarajan A (2012), "Experimental analysis for prediction of cutting force in machining of lynite alloy" in the 2nd international conference on Advances in Mechanical, Manufacturing and Building sciences (ICAMB-2012) held in VIT University during 09-11 January 2012 .
- Senthilkumar S, Lakshmi Prasad B S, **Kanish T C** and Chakrapani Rajavarapu (2012), "A comparative performance analysis of universal motor speed control system with proportional integral derivative and fuzzy logic control techniques" in the 2nd international conference on Advances in Mechanical, Manufacturing and Building sciences (ICAMB 2012) held in VIT University during 09-11 January 2012.

- DhileebanKrishna.R.V, Lokesh Babu E, **Kanish T C** (2011), "Design and Development of Acoustic Emission Based Online Condition Monitoring System for Tool Wear in Drilling Machine Tool" in the National conference on Technological Advances in Mechanical Engineering (TAME'11) held in Annai Mathammal Sheela Engineering College, Erumapatti during 16th March 2011.
- Lokesh Babu E and **Kanish T C** (2011), "Design and development of condition monitoring system for magnetic abrasive finishing process" in the one day national conference on "Recent advancement in engineering & Technology (RAET -2011) organized by Dr.T.Thimmaiah Institute of Technology, Kolar Gold Fields, on 25th March 2011.
- **Kanish T.C.**, Kuppan P and Narayanan S (2010), "Experimental Investigations on Magnetic Abrasive Finishing of SS 304L" at the international conference on Global congress on Manufacturing and Management (GCMM 2010) held in Bangkok, Thailand during 22-24 November 2010.
- **Kanish T.C.**, Kuppan P and Narayanan S (2010), "Optimization of MAF operations using Taguchi parameter design for SS304L stainless steel" at the international conference on All India Manufacturing Technology, Design and Research (AIMTDR 2010), Andhra University, Visakhapatnam during 13-15 December 2010.
- SenthilKumar M, Kuppan P, **Kanish T C.**, Finite element simulation of magnetic flux density in electro magnetic abrasive finishing" in the International conference on Recent Advances in Mechanical Engineering (ICRAME 2010) held at Noorul Islam University, Kumaracoil, during 8 -9<sup>th</sup> April 2010.
- Murugarajan A and **Kanish T C** (2009), "Modeling and Simulation of Voice Controlled Articulate Robot" in the international conference on Advances In Mechanical And Building Sciences In The 3rd Millennium (ICAMB – 2009) held in VIT University on December 14-16, 2009.
- Chenna Raidu C, Srinivas Rao Nandam and **Kanish T C**(2009), "Parameter selection for hard drilling using fuzzy logic" in the international conference on Advances in Mechanical and Building Sciences In the 3rd Millennium (ICAMB – 2009) held in VIT University on December 14-16, 2009.
- **Kanish T C** and Srihari V (2004)"Development Of Health Monitoring Program For Gearboxes Using Neural Networks" in the national level conference on world class manufacturing (WCM-2004) conducted by B.D.College of Engineering, Sewagram, Nagpur.
- **Kanish T C** and Adhithan M (2003)"Machine Vision Using Genetic Algorithm For 2-D Stock Cutting "in the national level conference on Advanced Machine Vision System for Societal Applications (AMSA – 2003) conducted by central Electronics Engineering Research Institute (CEERI) Chennai.

## **Research Areas**

- Abrasive machining
- Metal Cutting
- Soft Computing Techniques
- Mechatronics and Industrial Automation
- Fluid power Systems
- Non traditional Machining processes

## **Scientific & Professional Societies of Which a member**

- Institution of Engineers(IE) India
- SAE Member
- ASM Member

## **Academic**

- Guiding PhD scholars at VIT University in the filed of Metal cutting and soft computing techniques.
- Guided more than 30 Post Graduate and more than 50 under graduate student Research Projects.
- Visited Various Foreign universities at Thailand, Singapore and China for the Technical Collaborations.
- Served as the session chair, resource person, organizer and executive committee member of many conferences held at India, Thailand, Singapore and China.
- Organized Various workshops, technical symposiums, training programs behalf of VIT University.
- Provided series lectures on Low cost Automation, Industrial automation to the various industrial Executives at Cummins Phalthan plant, ARAI, pune.
- Being the Lab In-charge for Mechatronics Laboratory in VIT providing training to the students in Automation Studio 6.2, PLC interfacing and industrial automation etc.,
- Well Trained in FANUC M6iB Robot with R-J3iC controller in Fanuc India Limited, Bangalore.

## **DC Member for Ph.D Scholars at Anna University**

- Mr. S Praveen Kumar (Reg.No : 1613269225), GCE Bargur, Anna University Candidate.
- Mr. P. Saravana Kumar (Reg.No: 17142691280), Muthayammal Engineering College, Rasipuram. (Anna University Candidate)