

# **CURRICULUM VITAE**

# **PERSONAL PROFILE**

Name : Dr. R. DHANASEKARAN

Fathers Name : E. RAJAGOPAL

Date of Birth : 02<sup>ND</sup> APRIL 1972

Nationality : Indian

Address for communication: 3/1071, ANNA NAGAR,

KADACHANALLUR POST,

**TIRUCHENGODE - 638008** 

NAMAKKAL DISTRICT

E-mail & Mobile No. : dhanaksr@gmail.com & 9043793491

Languages known : English & Tamil

# **EDUCATIONAL QUALIFICATIONS**

Degree	College / University	Class	Month / Year of Passing		
Ph.D.	Anna University Chennai	-	August 2013		
Thesis Title: Studies on Industrial three stage planetary gears to enhance durability					
M.E.,	KSR College of Technology (Anna University Chennai)	First Class	May 2007		
B.E.,	Annamalai University, Chidambaram	First Class	Feb 2002		
DME	The Salem Polytechnic, Salem	First Class	April 1994		





### **TEACHING EXPERIENCE**

Designation	Name of the Institution	Period	No. of Years
Associate Professor	K.S.R College of Technology, Tiruchengode	08.01.2008	Till Date
Sr. Lecture	KSR Polytechnic, Tiruchengode	01.06.2007 to 07.01.2008	0.7 Year
HOD	Sri Venkatachalapathy Polytechnic, Villupuram	02.01.1999 to 31.06.2005	6.5 Years
Lecturer	The Salem Polytechnic, Salem	23.06.1994 to 31.12.1998	4.5 Years
Total			17 Years

#### Area of Interest

- ✓ Wear resistance
- ✓ Surface Engineering
- ✓ Tribology
- ✓ Material characterization
- ✓ Failure Investigation

#### LIST OF PUBLICATIONS

- 1. **Dhanasekaran, R.** and Senthil Kumar, P. "Investigation of a sun gear in an industrial planetary gearbox", International Journal on Mechanical and Automobile Engineering, Vol. 04, No. 05, pp. 12-16, 2009.
- 2. **Dhanasekaran, R.,** Senthil Kumar, P. and Santhi, K. "Crack failure of planetary gearbox sun gear", International Journal of Recent Trends in Engineering and Technology, Vol. 3, No. 6, pp. 12-14, 2010.
- 3. **Dhanasekaran, R.,** Senthil Kumar, P., Baskaran, S. and Santhi, K. "Failure analysis of first stage planet gear", International Journal of Emerging Technologies and Applications in Engineering, Technology and Sciences, Vol. 3, No. 2, pp. 476-478, 2010.



- 4. **Dhanasekaran, R.,** Senthil Kumar, P., Baskaran, S. and Santhi, K. "Wear behavior of surface treated alloy steel with assorted blends of fine particles by using plasma spray process", Advanced Materials Research, Vol. 383-390, pp. 893-897, 2012.
- 5. **Dhanasekaran, R.,** Senthil Kumar, P. and Santhi, K. "Microstructure and wear behavior of planetary gear material and metal carbide coating", International Review of Mechanical Engineering, Vol. 6, No. 6, pp. 1321-1325, 2012.
- 6. **Dhanasekaran, R.,** Senthil Kumar, P. and Santhi, K. "Stress and failure analysis of a second stage sun gear in planetary gearbox", Manufacturing Technology Today, Vol. 9, No. 4, pp. 3-7, 2010.
- 7. Amarnath, M., **Dhanasekaran, R.** and Senthil Kumar, P. "Investigation of failed spur gear", International Conference and Exhibition on Total Engineering, Analysis and Manufacturing Technologies (TEAM TECH 2009) 19-21 November, Bangalore University, Bangalore, India, 2009.
- 8. **Dhanasekaran, R.** and Senthil Kumar, P. "Failure analysis of a spur gear in a planetary gearbox", International Conference on Advances in Mechanical and Building Sciences in the 3<sup>rd</sup> Millennium (ICAMB 2009) 14 16 December, VIT University, Vellore, India, 2009.
- 9. **Dhanasekaran, R.,** Senthil Kumar, P. and Santhi, K. "Metallurgical investigation of a failed spur gear", Proceedings of International Conference on Recent Advances in Mechanical Engineering (ICRAME 2010) 8-9 April, Noorul Islam University, Kumaracoil, Kanyakumari Dt., Tamilnadu, India, 2010.
- 10. **Dhanasekaran, R.,** Senthil Kumar, P., Iqbalshah, A. and Gowtheeswaran, M. "Metallurgical and stress analysis on fractured spur gear", International Conference on Frontiers in Mechanical Engineering (FIME 2010), 20-22 May, National Institute of Technology Karnataka, Surathkal, Mangalore, India, 2010.
- 11. **Dhanasekaran, R.** and Senthil Kumar, P. "Investigation of a gear of a planetary gearbox", Proceedings of the National Conference on Recent Innovations in Design and Analysis (RIDA), 18 March, Govt. College of Engineering, Tirunelveli, India, 2009.
- 12. **Dhanasekaran, R.,** SenthilKumar, P., Abishek Mathybalan, J. and Aravind, R. "Studies on gear tooth failure in DISA cool drum drive", Proceedings of the National Conference on Advanced Communication and Computing (NACC), 2 April, Paavai College of Engineering, Namakkal, India, 2009.
- 13. **Dhanasekaran, R.** and Senthil Kumar, P. "Analysis of wear failure as a product mechanism", Proceedings of the National Conference on Emerging Technologies, 6 March, M. Kumarasamy College of Engineering, Karur, India, 2009.



- 14. **Dhanasekaran, R.** and Senthil Kumar, P. "Research on the failure of the sun gear connected to planetary gear", Proceedings of Fourth National Conference on Optimization Techniques in Engineering Sciences and Technologies (OPTEST 2009), 27-28 March, Bannari Amman Institute of Technology, Erode, India, 2009.
- 15. **Dhanasekaran, R.** and Senthil Kumar, P. "Investigation of wear breakdown", National Conference on Soft Computing, 19-20 March, Institute of Road and Transport Technology, Erode, Tamilnadu, India, 2009.
- 16. **Dhanasekaran, R.**, Senthil Kumar, P., Manikandan, P. and Mohan Raj, D. "Non destructive analysis on fractured spur gear", National Conference on Recent Innovations in Production Engineering (RIPE 2010), 16-17 April, Madras Institute of Technology Campus, Anna University Chennai, India, 2010.
- 17. Senthil Kumar, G.N.A., **Dhanasekaran, R.** and Senthil Kumar, P. "Optimization of gear parameters by using genetic algorithm", Proceedings of Third National Conference on Recent Advancements in Mechanical Engineering (RAME 2011), 25 March, K.S.Rangasamy College of Technology, Namakkal, India, 2011.
- 18. **Dhanasekaran, R.** and Senthil Kumar, P. "The use of WC-Co microparticles on the En 353 steel substrate to increase the wear resistance and improve the life of the planetary gear drive system by using plasma spray technology", App. No. 4117/CHE/2012.

### MEMBERSHIP IN PROFESSIONAL BODY

Life member in "ISTE"

I hereby declare that the above - furnished information's are true and correct to the best of my knowledge.

Station : **Tiruchengode** Signature

Date : 06.02.2014

(Dr. R. DHANASEKARAN)