



RESUME

Part I: Basic Information	
Core Stream	Mechanical Engineering
Research area	Design Engineering and Optimization, Tribology, Stress Analysis, Mechanical Vibrations and control.

Part II: Information about Applicant			
Family Name	Shelke	Given Name(s)	Dr. Santosh Shelke
Gender	Male	State	Maharashtra
Age	40 Yrs	Country	India
Position or Title	Associate Professor in Mechanical Engineering department		
Organizational Affiliation	Working as Associate professor in Mechanical Engg.Dept(Post Graduate level) R.H.Sapat College of Engineering management studies and Research, Nashik,Maharashtra,India		
1 st E-mail	drsnshelke@gmail.com		
2 nd E-mail	shelke.santosh77@yahoo.co.in		
Phone	91-9890634535	Cell phone	(optional)7700360038
Postal Address	:Dream City, Flat-303/8, opposite Fame, Dwarka, Nasik-422006,M.S.India		
Working Experience	Teaching 17.5 yrs		

Educational Qualification:

Exam	College	University/ Board	Year Of Passing	Class
Ph. D(Mech)	N.I.T. Warangal (A.P State)	NIT Warangal	March 2013	--
M.E.(Design)	P.R.E.C. Loni	Pune	2004	First
B.E.(Mech)	P.R.E.C. Loni	Pune	1999	First
H.S.C.	M.G. College, Pravaranagar	Pune	1995	First
S.S.C.	New English School, Pimpri	Pune	1993	Dist.

Title of Ph.D. thesis:

Identification and Loss Optimization in Radial Magnetic Bearing using Genetic Algorithm

Teaching Experience: 17.5 Years.

Sr.No	Name Of Institute	Designation	Experience	UG/PG Level
1.	R.H.Sapat COE,Nashik	Associate Professor & Head(PG)	16/7/2015	PG
1.	S.V. I. T. Nasik	Vice Principal-Academic	W.e.f. 8/7/2013 31/3/2015	College level
2.	S.V. I. T. Nasik	PG teacher in Mechanical Engg.Dept.	W.e.f. 3/2/2012 to 15/7/2015	PG
3.	S.V. I. T. Nasik	Associate Professor in Mech.Engg.Dept.	W.e.f. 1/7/2012 to 15/7/2015	UG
4.	S.V. I. T. Nasik	Asst.Professor in Mech.Engg.Dept.	W.e.f. 1/10/2005 To 30/6/2012	UG
5.	S.V. I. T. Nasik	Lecturer in Mech.Engg.Dept.	W.e.f. 6/3/2000 To 30/9/2005	UG
6.	SVIT Nasik	Head of Mech.Engg.Dept.	1/7/2007 to 15/7/2015	UG/PG

Subject Taught:

(U.G.level):

Basic Mechanical Engineering,
Fluid mechanics,
Heat transfer,
Machine Design II,
Tribology,
Dynamics of Machinery.
Mechanical System Design.

(P.G.level):

Advanced stress Analysis,
Mechanical Vibration.
Optimization Techniques.

Membership of Institutions, Associations and Editorial Board	(i)I.S.T.E. (L.M.No.60466); (ii)IDES (No.2311); (iii)IAENG(No.162282), (iv)UAMAE(No. SNM 10100053301) (v)Member of IJMTT (vi) Member of International Association of Engineering &Technology (vi)ISRD (Fellow) (L.M. No.F3140900274) (vi) World Academy of Sciences, Engineering & Technology, USA
Journal Reviewer/Board member	Working as a reviewer for: (i) Journal of Mechanical Science and Technology, Springer publication (ISSN 1976-3824) (ii) International journal of computational system Engineering, Inderscience publication(ISSN 2046-3405) (iii) International journal of Design Engineering, Inderscience publication(ISSN 1751-5882) (iv) International Journal of Research in Mechanical Engineering (research script publication) (ISSN 2349-3852) (v)International Journal of Automation, Control and Intelligence system, Public Science Framework(ISSN 2381-7526) (vi) International Journal of Mathematics and Computational science. Public Science Framework (ISSN 2381-7011) (vii)Proceedings of National Academy of Sciences, USA Working as Editorial board member for: (i) International Journal of Mathematics and Computational science. Public Science Framework (ISSN 2381-7011)

Conference Reviewer	<p>(i)International Conference on Recent Trends in Mechanical Engineering for Sustainable Growth-2016 organized by MET Nasik, India.</p> <p>(ii)World Academy of Science, Engineering & Technology, USA(International Conferences: Mechanical & Mechatronics)</p> <p>(iii) Power and Energy conference at Illinois-2017 organized by IEEE Power &Energy society.</p> <p>(iv) ASME 2012 International Engineering Congress and Exposition, Texas</p>
Publications	<p>Total publications: (42) International Journals (22), International Conferences (09), National Conferences (11).</p> <p>Publications in International/National conferences/Journals: International Journals: 22 (21+01 under review)</p> <p>[1] Santosh Shelke, Dr.Venkatachalam, Optimum power loss in electromagnetic bearing, published in IEEE explore, ISBN: 978-3Vol.3, Dec.2011, pp.374-379. (Citations:6)</p> <p>[2] Santosh Shelke, Dr.Venkatachalam, Optimum Power loss analysis of Radial Magnetic bearing: Multi-objective Genetic Algorithm, published in Springer digital library, Verlinberg (e-ISSN 1865-0937), pp.59-63. (Citations:1)</p> <p>[3] Santosh Shelke, Dr.Venkatachalam, Optimum Power Loss Analysis of Radial Magnetic bearing using Genetic Algorithm, International Journal of Computer Applications, USA (ISSN: 0975–8887), Vol.27, No.6, August 2011, pp.20-27. (Impact factor 0.85). (Citations:3)</p> <p>[4] Santosh Shelke, Dr.Venkatachalam, Optimization of total power Loss in Eight poles Radial Magnetic Bearing, International Journal of Advances in Engineering & Technology (ISSN: 2231-1963), Vol.1, issue 4, Sept 2011, pp.249-261. (Impact factor 2.35)</p> <p>[5] Santosh Shelke, Dr. Venkatachalam, Optimum loss in eight pole Radial Magnetic Bearing, IJMAE, SERC, USA,2012 (ISSN: 0974-231X), Vol.22 (6),2011, pp.20-27</p> <p>[6] Santosh Shelke, Dr.Venkatachalam, R., Total loss optimization in varying pole pair radial magnetic bearing using theoretical and genetic algorithm approach, International journal of Engineering Technologies in Computational and Applies Sciences, USA, Vol.1(3),2013,pp. 87-93 (Impact factor 1.23)</p>

- [7] **Santosh Shelke**, Rakesh Nagabhushgana, Contact fatigue estimation and material optimization for wear of cam shaft for high pressure diesel pumps, International journal of Engineering research and Industrial applications(IJERIA),ISSN 0974-1518,Vol.6 (2),2013,pp.191-201.
- [8] Firoz Pathan, **Dr. Santosh Shelke**, Design of cold rolling mill components, International Journal of Innovative Technology and Exploring Engineering, ISSN 2278, Vol.03(10), 2014,pp.9-13. **(Impact Factor 1.27)**
- [9] Firoz Pathan, **Dr. Santosh Shelke**, Structural Analysis of work roll chock and backup roll chock in cold rolling mill, International Journal of Engineering Research and Science and Technology, ISSN 2321-7758, Vol.2(1), 2014,pp.47-56.
- [10] Nitin Ahire, Vijay Kadlag, **Santosh Shelke**, Vibration Analysis of distributor using multiphase flow analysis, IOSR Journal of Mechanical and Civil Engineering, USA e-ISSN 2278-1684, p-ISSN:2320-334X,2014, pp.29-31. **(Impact Factor 1.485)**
- [11] Manoj Sonawane and **Dr. Santosh N. Shelke**, Stress Analysis of Bolts used to connect two plates in circular array pattern for various loads, International journal of current Engineering and Technology, USA,ISSN 2277-4106,Vol.4(4), 2014, pp.1-5.**(Impact Factor 2.55)**
- [12] Chumble and **Dr. Shelke**, Study of effect of adhesive layer thickness on strength of single lap joint by using Ansys and Mechanical testing, International journal of Innovations in Engineering Research,ISSN:2348-4918,Vol.1(4),2014,pp.1-5.
- [13] Ahire and **Shelke**, Study and Analysis of Distributor system by Analytical and Experimental methods, International journal of Innovations in Engineering Research,ISSN:2348-4918,Vol.1(4),2014,pp.1-6.
- [14] Khairnar and **Dr. Shelke**, Design development, testing and analysis of torque limiter for overload protection, International journal of Innovations in Engineering Research,ISSN:2348-4918,Vol.1(5),2014,pp.1-5.
- [15] Chumble and **Dr. Shelke**, Stress-strain effects of adhesive layer thickness on Single lap joint by using Ansys, International Journal for Research in Technological Studies, Vol. 1(8), 2014, ISSN (online): 2348-1439,pp.1-6.

- [16] Mayuri Mhaske, **Dr.Shelke**, Detection of depth and location of crack in beam by using Vibration Measurement, ANN and GA, International Engineering research Journal, Special Issue(2), 2015,pp.488-493.
- [17] **Dr. Santosh Shelke**, Total loss optimization in varying pole pair radial magnetic bearing using theoretical and genetic algorithm approach, **Journal of Engineering Tribology**, Institute of Mechanical Engineers, Sage, **UK**, Vol.230(6),2016,pp.621-633.(**Impact factor 1**). (Citations:1)
- [18] Snehal Gawale, **Santosh Shelke**, Diesel Engine Exhaust Valve Design and Optimization, IOSR Journal of Mechanical and Civil Engineering, **USA**, Vol.13(4),2016, pp.85-93.
- [19] Prinyanka Gangurde, **Santosh shelke**, Modal analysis of cracked beam using Ansys, International Journal on Theoretical and Applied Research in Mechanical Engineering, Vol.5(2),2016,pp.1-8.
- [20] Akshay shinde, **Dr.S.N.Shelke**, A review on dynamic analysis of Pelton wheel Turbine, Vol.3(6),2016,pp.1-4.
- [21] **Dr. Santosh Shelke**, Controllability of Radial magnetic Bearing, **Procedia Technology, Elsevier, Vo.(23),2016,pp.106-113.**
- [22] **Dr.Santosh shelke**, Total loss optimization in radial magnetic bearing using theoretical and genetic algorithm and Gradient based approach, International journal of Mechanical Sciences.(Under Review)

International Conferences (9)

- [1] Power losses in Radial Magnetic Bearing, published in international conference proceeding, **N.I.T. Surat**, 2009.
- [2] Optimum power loss in eight poles Radial Magnetic Bearing, published in International conference proceeding, **Government college of Engineering, Aurangabad**, 2010.
- [3] Optimum power loss in Electromagnetic Bearing, proceeding of International conference on Electronic Computer Technology, **IEEE**, at **Kanyakumari**, Vol.3 (374), ISBN: 978-3, 2011.

- [4] Optimum Power Loss Analysis of Radial Magnetic bearing: Multi-objective Genetic Algorithm, proceeding of second International conference on control communication and power Engineering (**ccpe2011**), Pune, organized by **ACEEE, Springer, Verlinberg** (ISSN 1865-0929), 2011, pp.59-63.
- [5] Contact fatigue estimation and material optimization for wear of cam shaft for high pressure diesel pumps, International conference on Recent Trends in Engineering and Technology, organized by **SNJB COE, Nashik**, 2013.
- [6] Determination of effect of adhesive layer thickness on joint strength, 2nd International conference on Recent Trends in Engineering Sciences, organized by **Elsevier**, India, Nashik, 2014.
- [7] Design optimization of work roll and backup roll chock, 4th International conference on Computational Intelligence, organized by SIT, Nashik, 2015.
- [8] Controllability of Radial magnetic Bearing, 3rd International conference on Innovations in Automation and Mechatronics Engineering, Organised by G.H.Patel COE, Gujrath, 2016,pp.20.
- [9] Design of stationary IC Engine exhaust valve and Optimisation based on FEA, Int. conference on Research Trends in Engineering and Technology,Chandwad,Nashik,2016,pp.1-7.

National conferences (11)

- [1] Modal Analysis of Cracked beam using Ansys, National conference on Advances in design, organized by G. H. Raisoni COE, A. Nagar during Feb 2016.
- [2] Worked as reviewer for Post Graduate conference of Mechanical and computer engineering, cPGCON 2015,13-14th March 2015.
- [3] Presented paper in National Conference “Recent trends in Mechanical Engineering” organized by MET, Nasik held during 21-22 March 2013.
- [4] Presented paper in National Conference “Recent trends in Mechanical Engineering” organized by MET, Nasik held during 4-6 March 2010.
- [5] Presented paper in National Conference “Trendz in Mechanical Engineering” organized by A.G. Awate college of Engineering, Pune held during March 5-7, 2010

	<p>[6] Presented paper in Regional Research Conference for University and College Teachers “Innovation 2009” held at College of Engg. Sangamner on 11-12 Dec.2009</p> <p>[7] Presented paper in National Conference “AES for Rural Development” organized by P.G.M. College of Engg. Wagholi, Pune on 31/1/2009</p> <p>[8] Presented paper in Regional conference for Pune University College Teachers “Innovation 2009” held at SRES, college of Engg. Kopargaon on 24-25 Nov.2008</p> <p>[9] Presented paper in National Conference on “Computer Application In Manufacturing” organized by Sinhgad Institute of Tech. Lonavala on 13 & 14 March 2008.</p> <p>[10] Presented paper in National Conference on “Innovation in Mech. Engg.” Organized by J.T. Mahajan college of Engg, Faizpur on 29-30 March 2007.</p> <p>[11] National Conference on “Education in Values & Spirituality” organized by Rajasthan Gov. at Mount Abu on 4th-8th June 2006.</p>
Research Project completed	Identification and power loss optimization in radial magnetic bearing using theoretical and genetic algorithm approach" at National institute of Technology, Warangal, India.(during 2008-2013)
Resource Generation	<p>[1] Worked as principal Investigator for research proposal on Power Generation Using Photovoltaic Cells sanction by BCUD (Pune) with grant Rs. 1.0 Lakh.</p> <p>[2] Received grant of 0.5Lakh from BCUD, Pune and conducted National level workshop on Vibration measurement during 2013.</p> <p>[3] Received grant of 0.25 Lakh from BCUD, Pune and conducted state level seminar on Nanotechnology during 2013.</p> <p>[4] Received grant of 2.0 Lakh from BCUD, Pune and conducted National level workshop on Vibration measurement during 2016.</p> <p>[5] Received sponsorship of 5.0 Lakh and organized three days National level technical event “Mechazzmo’14 for Engineering and diploma students during February 2014.(No. of participants presents : 3600)</p>

Research Proposal for grant Rs.60 Lakh (in Process)	The effect of addition of ferrites nano-particulates with Al-Mg-Si Alloys(Matrix) and to study metallurgical, tribological and magnetic properties. Funding by Department of Nano science and Technology, Government of India, New Delhi.
Google Scholar	Citations:13
Research Gate	RG Score:3.14 H-index:02