Curriculum Vitae



Brief Profile: 1-2 paragraphs (not exceeding 500 words)

Dr.D.Lenin Singaravelu is working as Assistant Professor in the Department of Production Engineering, National Institute of Technology, Trichy. He did his Ph.D in Metallurgical and Materials Engineering Department from Indian Institute of Technology Roorkee in the year 2008. He did his M.E.(Production Engineering) and B.E. (Mechanical and Production) from Annamalai University in the year 2002 and 2001 respectively. He has one Indian patent in the field of brake friction materials. He has published many research papers in reputed international journals. He has presented his research article in 33rd SAE Brake Colloquium and Exhibition 2015, held at Charleston, South Carolina, USA by getting fund from DST-SERB under International Travel Scheme (ITS). He has organized a DST- SERB Sponsored Two Days National Workshop on "Brake Friction Materials: Past, Present and Future" and also two TEQIP sponsored short term courses at NIT Trichy. His areas of expertise are Brake Friction Materials, Non-Conventional Machining, Shape Memory Alloys, Processing of Polymer Products and Joining of Advanced Materials. He was the technical committee member for various national and international conferences across India and abroad. He has reviewed many research articles in various reputed International Journals. He has 12 years of research and 8 years teaching experience.

- 1. Name: Dr. D. Lenin Singaravelu
- 2. Designation: Assistant Professor
- 3. Office Address: MTB 307, Second floor, Annex Building, Department of Production Engineering, NIT Trichy 620015
- 4. Telephone (Direct) (Optional):+91-431-2503522

Telephone : Extn (Optional):

Mobile (Optional):9487069811

- 5. Email (Primary):dlenin@nitt.edu Email (Secondary) :lenindmt@gmail.com
- Field(s) of Specialization: Friction Materials, Tribology, Non-conventional Machining, Processing of Polymers, Shape Memory Alloys, Joining of Advanced Materials, Composites, Casting

7. Employment Profile

Job Title	Employer	From	То
Assistant Professor	NIT, Tiruchirappalli	December 2008	Till Date
Lecturer	PSG College of Technology, Coimbatore	June 2008	November 2008

8. Academic Qualifications (From Highest Degree to High School):

Examination	Board / University	Year	Division/ Grade	Subjects
Ph.D.	IIT Roorkee	2008	Metallurgical and Materials Engineering	Friction Materials
M.E.	Annamalai University	2002	Production Engineering / 8.20 CGPA	Production Engineering
B.E.	Annamalai University	2001	Mechanical & Production Engg./61.8%	Mechanical & Production Engineering
HSC	State Board	1997	63.08%	Mathematics, Physics , Chemistry, Computer Science

9. Academic/Administrative Responsibilities within the University

Position	Faculty/Department/Centre/Institution	From	То
Hostel Warden	NIT Trichy	August 2016	Till Date
Faculty Advisor / PAC Chairman	M.Tech. Manufacturing Technology, NIT Trichy	2015	2017
Faculty Advisor / PAC Chairman	B.Tech. Production Engineering, NIT Trichy	2010	2014
Program Coordinator, Chairman	Prodigy 2014, Production Engineering Associtiation	2013	2014
Committee Member (Production Dept.)	Convocation	2009	2014
Scrutiny Member for the Ph.D / M.S. admissions	Department of Production Engineering, NIT Trichy	2014	2016
Purchase Committee Member	Department of Production Engineering, NIT Trichy	2015	Till Now

10. Academic/Administrative Responsibilities outside the University

Position	Institution	From	То
	Anna University, Chennai	2013	Till now
	VIT University, Vellore	2009	2015
	Periyar Maniammai University,	2015	Till now
DC Member	Vallam		
DC Member	PSG College of Technology,	2013	Till now
	Coimbatore		
	Bannari Amman Institute of	2013	Till now
	Technology, Sathyamangalam		

11. Awards, Associateships etc.

Year of Award	Name of the Award	Awarding Organization
NIL	NIL	NIL

12. Fellowships

Year of Award	Name of the Fellowship	Awarding	From	То
		Organization	(Month/Year)	(Month/Year)
NIL	NIL	NIL	NIL	NIL

13. Details of Academic Work

(i) Curriculum Development

	L	
		PR201 Casting Technology
B.Tech	Production Engineering	PR 210 Metrology (Theory and Lab)
		PRPE20 Processing of Friction Composites
		PR 308 Reliability, Maintenance and Safety
		Engineering
		PR 622 Smart Materials & MEMS: Design &
M.Tech	Manufacturing Technology	Fabrication
		PR 617 Manufacturing of Non-Metallic Products

(ii) Courses taught at Postgraduate and Undergraduate levels

Post Graduate

- I. Total Quality Management
- II. Manufacturing of Non-Metallic Products Undergraduate
- I. Casting Technology
- II. Casting and Welding Technology
- III. Measurements and Metrology
- IV. Metrology and Quality Assurance
- V. Reliability, Maintenance and Safety Engineering
- VI. Engineering Mechanics
- VII. Production Technology II
- VIII. Industrial Robotics
 - IX. Design for Manufacture and Assembly

(iii)Projects guided at Postgraduate level - 13(iv)Other contribution(s) – PAC Chairman

14. Details of Major R&D Projects

Title of Project	Eunding Aganay	Dura	ation	Status
	Funding Agency	From	То	Ongoing/ Completed
NIL	NIL	NIL	NIL	NIL

15. Number of PhDs guided

Name of the PhD	Title of PhD	Role(Supervisor/ Co-	Year of
Scholar	Thesis	Supervisor)	Award
NIL	NIL	NIL	NIL

16. Participation in Workshops/ Symposia/ Conferences/ Colloquia /Seminars/ Schools etc. (mentioning the role)

Date (s)	Title of Activity	Level of Event (International/ National/ Local)	Role (Participant/ Speaker/ Chairperson, Paper presenter, Any other)	Event Organized by	Venue
04-07 Oct 2015	33 rd Annual SAE Brake Colloquium and Exhibition	International Conference	Presenter	SAE International, USA	Charleston, South Carolina, USA
April 10, 2015	Recent Tends in Efficiency Management in Industries	National Conference	Session Chairperson and Proceedings Co-Editor	Saveetha School of Engineering,	Saveetha University, Chennai
Feb. 13-14, 2014	Advances in Asbestos Free Friction Composites	International Workshop	Participant	IIT Delhi	IIT Delhi
Dec.5- 7, 2014	International Conference on Processing and Fabrication of Advanced Materials: XXIII	International Conference	Session Chairperson and Presenter	IIT Roorkee	IIT Roorkee
June 13-	International Conference in	International Conference	Session Chairperson	NIT Trichy	NIT Trichy

15th,	Mechanical				
2014	Engineering,				
Dec	International	International	Presenter	TransTech	Hotel re
30-31,	Conference on	Conference		Publishers	Singapore
2012	Engineering				
	Materials				
	(ICEM 2012)				
April	National	National	Session	CK College of	Cuddalore
5-6,	Conference on	Conference	Chairperson	Engineering	
2012	Computational				
	Intelligence				
	for Modelling				
	and				
	Optimization				
Feb	International	International	Presenter	TransTech	Peninsula
26-28,	Conference in	Conference		Publishers	Excelcier
2012	Manufacturing				Hotel,
	and Industrial				Singapore
	Engineering				
	(ICMIE 2012)				

17. Workshops/ Symposia/ Conferences/ Colloquia/Seminars Organized (as Chairman/ Organizing Secretary/ Convener / Co-Convener)

Title of Activity	Level of Event	Date (s)	Role	Venue
	(International/			
	National/Local)			
Short Term Course	National (TEQIP-II	June 10-	Co-Organizer	NIT Trichy
	Sponsored)	12, 2013		
Workshop	National (DST-SERB	November	Organizing	NIT Trichy
	Sponsored)	5-6, 2015	Secretary	
Short Term Course	National (TEQIP-II	July 11-	Coordinator	NIT Trichy
	Sponsored)	16, 2016		

18. Invited Talks delivered

Topic	Date	Inviting Organization			
Lubrication – mechanisms,	Oct.30,31,	CECASE and Dept. of Training and			
types, additives and their	Nov.01, 2014	Placement, NIT Trichy			
selection					
Brake Friction Materials	23 February 2015	Rajiv Gandhi College of Engineering and			
		Technology, Pondicherry			
Development and	10 April 2015	Saveetha School of Engineering, Saveetha			
Characterization of Brake		University, Thandalam			
Friction Materials					

19. Membership of Learned Societies

Type of Membership (Ordinary Member/ Honorary Member / Life Member)	Organization	Membership No. with date
NIL	NIL	NIL

20. Academic Foreign Visits

Country		Duration of Visit	Programme
USA (DS	ST-SERB	04-07 Oct 2015	33 rd Annual SAE Brake Colloquium and
International	International Travel		Exhibition 2015
Scheme)			
Singapore		Dec 30-31, 2012	International Conference on Engineering
			Materials (ICEM 2012)
Singapore		Feb 26-28, 2012	International Conference in Manufacturing
			and Industrial Engineering (ICMIE 2012)

21. Publications

(A) <u>Refereed Research Journals</u>:

Author(s)	Title of Paper	Journal	Volume (No.)	Page numbers	Year	Impact Factor of the Journal (Optional)
<i>LENIN</i> <i>SINGARAVELU.D</i> , R.Vijay, M.Rahul Ragh	Influence of crab shell on Tribological characterization of eco-friendly products based non-asbestos brake friction materials	SAE Technical Papers		8 pages	27- 09- 2015	
V.Thiyagarajan, K.Kalaichelvan, R.Vijay, <i>LENIN</i> <i>SINGARAVELU.D</i>	Influence of thermal conductivity and thermal stability on the fade & recovery characteristics of	Journal of Brazilian Society of Mechanical Sciences and Engineering	Volume 38, Issue 4	1207- 1219	2016	0.963

	non-asbestos					
	semi-metallic					
	disc brake pad					
R.Vijay, <i>LENIN</i>	Experimental	International	21 (7)	617-62	7 2016	1.515
SINGARAVELU.D	investigation on	Journal of	21(7)	017 02	/ 2010	1.515
Shi (Ghidi) ELC.D	the mechanical	Polymer				
	properties of	Analysis and				
	Cyperus	Characterization				
	pangorei fibers					
	and jute fiber-					
	based natural					
	fiber composites					
M. Rahul Ragh, R.	Influence of	Mechanics and	Accepted		I	0.559
Vijay, Arvind	Thermal	Industry	-			
Venkatramani,	Resistance Filler	-				
LENIN	and Lubricant on					
SINGARAVELU.D	the Pressure and					
	Speed Sensitivity					
	Characteristics					
	of Non Asbestos					
	Low Metallic					
	Disc Brake Pad					
	Formulation	A 11 1	500	41.6	2014	
LENIN	Influence of	Applied	592-	416-	2014	
SINGARAVELU.D,	Pulse-on-time on	Mechanics and	594	420		
Uthirapathi .A, Venkata Ramana	the Performance of Wire	Materials				
Reddy P.S, Durai	Electrical					
Selvam. M.	Discharge					
Servain. Ivi.	Machining of Ti-					
	6Al-4V using					
	Zinc coated					
	Brass Wire					
Uthirapathi A,	Effect of rotating	Advanced	651	448-	2013	
LENIN	tool electrode on	Material		452		
SINGARAVELU. D	machining of	Research				
	titanium alloy					
	using electric					
	discharge					
	machining					
ManojKumar	Effect of process	Advanced	488-	876-	2012	
kuttuboina,	parameters in	Material	489	880		
Uthirapathi A,	Electric	Research				
LENIN	Discharge					
SINGARAVELU.D	Machining of Ti-					
	6Al-4V alloy by					
	three different					

	tool electrode materials					
<i>LENIN</i> <i>SINGARAVELU.D,</i> Chandra K., Misra P.S.	New Processing Technology for the manufacture of Metallo- ceramic brake pads	Powder Metallurgy	54(2)	118- 126	2011	0.741

(B) <u>Conferences/Workshops/Symposia</u> Proceedings

Author(s)	Title of Abstract/ Paper	Title of the Proceedings	Page numbers	Conference Theme	Venue	Year
M. Rahul Ragh, R. Vijay, Arvind Venkatramani, <i>LENIN</i> <i>SINGARAVELU.D</i>	Effect of lubricant and thermal resistance filler on the pressure and speed sensitivity characteristics of non-asbestos low metallic disc brake pad formulation	Proceedings of Malaysian International Tribology Conference 2015	165-166	Tribology	Penang, Malaysia	2015
<i>LENIN</i> <i>SINGARAVELU D</i> , Vijay R, Rahul Ragh M	Influence of crab shell on Tribological characterization of eco-friendly products based non-asbestos brake friction materials	33 rd Annual SAE Brake Colloquium and Exhibition, 2015 (published as SAE Technical Paper 2015-01- 2676, 2015)	4	Brakes	Charleston, South Carolina, USA	2015

	T (1)	.				a a t t
LENIN SINGARAVELU .D, Uthirapathi .A, Venkata Ramana Reddy P.S, Durai Selvam. M.,	Influence of Pulse-on-time on the Performance of Wire Electrical Discharge Machining of Ti- 6Al-4V using Zinc coated Brass Wire	International Conference in Mechanical Engineering, (also published in Applied Mechanics and Materials Vols. 592-594, pp416-420)		Mechanical Engineering	NIT Trichy	2014
Uthirapathi A, LENIN SINGARAVELU D	Effect of rotating tool electrode on machining of titanium alloy using electric discharge machining	International Conference on Engineering Materials - ICEM 2012 (also published in Advanced Materials Research, Vol. 651, 2013, pp448-452)		Materials	Hotel Re, Singapore	2012
ManojKumar kuttuboina, Uthirapathi A, <i>Lenin Singaravelu</i> <i>D</i> ,	Effect of process parameters in Electric Discharge Machining of Ti- 6Al-4V alloy by three different tool electrode materials	International Conference in Manufacturing and Industrial Engineering - ICMIE 2012 (also published in Advanced Materials Research, Vols.488-489, 2012, pp876- 880)		Manufacturing and Industrial Engineering	Peninsula Excelcier Hotel, Singapore	2012
LENIN SINGARAVELU D, Chandra, K., Misra P.S.	Tribological Studies of Hot Powder Forged Iron based Brake pads	Proceedings of the Second International Conference on Recent Advances in Composite Materials 2007 (ICRACM)	898-902	Composite Materials	New Delhi	2007

LENIN	A Comparativa	PM-07	Powder	Noida	2007
SINGARAVELU D,	A Comparative	International		Inolua	2007
	Study of Wear characteristics	conference on	Metallurgy		
Chandra, K., Misra					
P.S.	for sintered and	Powder			
	hot powder	Metallurgy and			
	forged friction	Particulate			
	materials'	Materials (also			
		published in			
		Transactions of			
		PMAI, Vol. 33,			
		Dec. 2007, pp			
		43-46)			
LENIN	Wear	Proceedings of	Research	IIT	2006
SINGARAVELU D.,	Characteristics of	the	Scholar's	Madras,	
Chandra K., Misra	Iron based	International	work	Chennai	
P.S.,	Friction	Symposium for			
	Materials for	Research			
	brake	Scholars on			
	applications	Metallurgy and			
		Materials			
		Engineering			
		(ISRS 2006)			
LENIN	Friction and	Asian	Materials	Sofitel	2006
SINGARAVELU D.,	Wear	Symposium on	Processing	Central	
Chandra K., Misra	Characteristics of	Materials and	-	Plaza	
P.S	Fe-based Friction	Processing		Bangkok,	
	Pads for Heavy	2006		Thailand	
	Duty Brake				
	Applications				

(C) Books & Monographs

Author(s)	Title of Book/Monograph	Name of	Year of	ISSN/ISBN
		Publishers	Publication	Number
NIL	NIL	NIL	NIL	NIL

(D) Patent(s)

Author(s)	National/	Patent	Title	Grant	Filling
	International	No.		Date	Date
Mishra Prabhu	National	260479	Iron based cermet	05-06-	11-07-
Shanker, Chandra			friction	2014	2006
Kamlesh,			materials/composites/		
LENIN			brake elements with		
SINGARAVELU D.			built-in backing		
			plates		