

National Institute of Technology, Tiruchirappalli:  
Performa for CV of Faculty/ Staff Members

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**Curriculum Vitae**



**Brief Profile:**

**Dr.T.Selvaraj**, Professor of Production Engineering Department is in the teaching profession for the past 38 years. He served as Member, Board of Governors, NIT-T for one year, Dean for two years and Head of the Department for three years. He worked as Dy. Controller of Examinations - P.G. & B.Arch. (1993-94) and worked as Hostel Warden (1998-2001). He served 4 years as Lecturer in Mechanical Engineering at Annamalai University, before he joined at REC (now NIT).

He had his higher education in Engineering at PSG College of Technology, Coimbatore. He obtained B.E. degree in Mechanical Engineering and M.E. degree in Production Engineering. In 1996, he was awarded Ph.D. degree by Bharathidasan University for his research work on ROBOTICS. He published 80 technical papers in Conferences and Journals. He has guided more than 90 B.Tech./M.Tech. student projects. He produced Four Ph.D.'s and guiding two Ph.D. research scholars. He had been at Nanyang Technological University, Singapore for a period of one month for training under TEQIP.

He has delivered special lectures on CAD/CAM, Robotics and CIM in other technical institutions and conducted CNC training programmes exclusively for BHEL Engineers and Supervisors (1989 -1991). He is a member of The Indian Society for Technical Education and Fellow of the Institution of Engineers(India).

1. Name: Dr.T.Selvaraj
2. Designation: Professor
3. Office Address:  
Production Engineering Department,  
National Institute of Technology,  
Tiruchirappalli - 620015

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4. Telephone (Direct) (Optional):

Telephone :2503505                      Extn (Optional):

Mobile (Optional):

5. Email (Primary):tselva@nitt.edu

Email (Secondary) :tselva53@gmail.com

6. Field(s) of Specialization: Production Engineering

7. Employment Profile

Job Title	Employer	From	To
Professor	NIT-T	23-4-2007	Till-date
Assistant Professor	RECT/NIT-T	9-6-1996	22-4-2007
Lecturer	RECT	1-9-1982	8-6-1996
Lecturer	Annamalai University	20-7-1978	31-8-1982

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

Examination	Board / University	Year	Division/ Grade	Subjects
PhD	Bharathidasan	1996		Production Engineering
ME	Madras	1978	I	Production Engineering
BE	Madras	1975	I	Mechanical Engineering

9. Academic/Administrative Responsibilities within the University

Position	Faculty/Department/Centre/Institution	From	To
Dean	P&D	Nov. 2010	Oct. 2012
Head	Production Engineering	December 2006	December 2008
Member	BOG	February 2005	January 2006
warden	Hostel	1998	2001

10. Academic/Administrative Responsibilities outside the University

Position	Institution	From	To
Examiner	Anna University	1990	
DC member	Anna University	2006	
Member, Board of studies	Anna University	2009	

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### 11. Awards, Associateships etc.

Year of Award	Name of the Award	Awarding Organization
1991	Project work guidance	Department of Technical Education, Tamil nadu

### 12. Fellowships

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

### 13. Details of Academic Work

- (i) Curriculum Development – UG & PG courses of Production Engineering
- (ii) Courses taught at Postgraduate and Undergraduate levels – FMS, Automation and CIM, Machining Technology
- (iii) Projects guided at Postgraduate level
- (iv) Other contribution(s) – Developed CNC laboratory, Staff advisor & Project coordinator for PG students

### 14. Details of Major R&D Projects

Title of Project	Funding Agency	Duration		Status
		From	To	Ongoing/ Completed

### 15. Number of PhDs guided

Name of the PhD Scholar	Title of PhD Thesis	Role(Supervisor/ Co-Supervisor)	Year of Award
M.Devanand	Some Investigations on Intelligent Decision Making in Robot position and motion control	Supervisor	2008
K.Sudhagar	Investigations on Intelligent path Tracking Controllers	Co-Supervisor	2010
P.Senthil	Machinability Studies on Al-Cu /TiB <sub>2</sub> in-situ Metal Matrix Composites	Supervisor	2012
M.Manohar	Machinability Studies on Inconel 718 Alloy using Coated Carbide Tools	Supervisor	2013

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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
December, 1993.	Conference on CAD, CAM Robotics and Autonomous Factories	International	Paper presenter	IIT	New Delhi
January, 1993	Symposium on Intelligent Robotics	International	Paper presenter	CAIR	Bangalore
January, 1991	Conference on Design Automation and CIM	International	Paper presenter	PSG Tech.	Coimbatore
December, 1989	Conference on CAD, CAM, Robotics and Factories of the Future	International	Paper presenter	IIT	New Delhi

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

Title of Activity	Level of Event (International/ National/ Local)	Date (s)	Role	Venue
Conference on Advances in Production and Industrial Engineering	International	20-21 February 2015	Co-Convenor	NIT-T
TEQIP Course on Experimental Design in Manufacturing	Local	19-20 Jan. 2008	Co-Convenor	NIT-T
Conference on Supply Chain Management	International	2006	Co-Convenor	NIT-T

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### 18. Invited Talks delivered

Topic	Date	Inviting Organization
Robotics	2010	Institution of Engineers, Trichy Chapter,
CIM and FMS	1998	Mookambigai College of Engineering,
Robotics	1997	JJ college of Engineering & Technology,
CNC M/C Tools	April.'92	HRDC, BHEL, Trichy,
Flexible Manufacturing Systems	Sept.'91	Indian Institution of Plant Engineers, Trichy Chapter,
Computer Aided Manufacturing	June,'91	Institution of Engineers, Trichy Chapter,
Robotics	Feb.'91	Indian Institute of Welding, Trichy Chapter,

### 19. Membership of Learned Societies

Type of Membership (Ordinary Member/ Honorary Member / Life Member )	Organization	Membership No. with date
Member	Indian Society for Technical Education	LM 12433 / 30-3-1992
Fellow	Institution of Engineers(India)	F-112165-7 / 13-4-2007

### 20. Academic Foreign Visits

Country	Duration of Visit	Programme
Singapore	One month	training at Nanyang Technological University under TEQIP

### 21. Publications (2012-2016)

#### (A) Refereed Research Journals:

Author(s)	Title of Paper	Journal	Volume (No.)	Page numbers	Year	Impact Factor of the Journal (Optional)
Singaravel,B. T. Selvaraj S.Vinodh	Multi objective optimization of turning parameters using combined MOORA and entropy method.	Transaction of Canadian Society for Mechanical Engineering ISSN 0315-8977 Publisher: CSME	40(1)	1-11	2016	

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		TRANS				
Singaravel B. T.Selvaraj	Experimental investigation on cutting forces, specific cutting pressure, co-efficient of friction and shear energy in turning of HSLA steel.	Management and Production Engineering Review Publisher: DE GRUYTER, ISSN: 2082-1344.	7	71-76.	2016	
Singaravel, B. T.Selvaraj	Optimization of machining parameters in turning operation using combined TOPSIS and AHP method	Tehnicki Vjesnik : Technical Gazette  Publisher: UNIV OSIJEK	22 (6)  ISSN 1848-6339	1475-1480.	2015	
M. Manohar, T. Selvaraj , D. Sivakumar Koshy M. George	Modeling of Turning Parameters for Inconel 718 Alloy using ANN	Journal of Advanced Manufacturing Systems	Vol. 14, No. 4	203–213	2015	
B. Singaravel T. Selvaraj	A Review of Micro Hardness Measurement in Turning Operation	Applied Mechanics and Materials	Vols. 813-814	274-278	2015	
Singaravel, B. T.Selvaraj	Experimental investigation to study the effect of process parameters on chip analysis in turning operation.	International Journal of Applied Engineering Research Publisher: Research India Publication, ISSN 0973-4562,	10 (5)	896-899	2015	
B.Singaravel T.Selvaraj	Application of weight calculation	International Journal of Applied	Vol. 10	No.57	2015	

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	methods in multi objective optimization problems-A review	Engineering Research ISSN 0973-4562				
M.Manohar, T.Selvaraj, D.Sivakumar, R.Jeyapaul, Jomy J	Application of Experimental Design and Analysis of Mathematical Models for Turning Inconel 718 using Coated Carbide Tools	Experimental Techniques 38 (2014) 61–71 © 2012, Society for Experimental Mechanics	38	61-71	2014	
M.Manohar, Jomy Joseph, T.Selvaraj, D.Sivakumar	Development of Models using Genetic Programming for turning Inconel 718 with Coated Carbide Tools	International Journal for Design & Manufacturing Technology (IJDMT)	Vol.4 Iss.1	1-13	2013	
M.Manohar, Jomy Joseph, T.Selvaraj, D.Sivakumar	Application of Box Behnken design to optimize the parameters for turning Inconel 718 using Coated Carbide Tools	International Journal of Scientific & Engineering Research	Vol.4 Iss.4,	620-642	2013	
M.Manohar, Jomy Joseph, T.Selvaraj, D.Sivakumar,	Application of Desirability-function and RSM to optimize the multiobjectives while turning Inconel 718 using Coated Carbide Tools,	International Journal of Manufacturing Technology and Management. 'Inderscience Publications',	Vol. 27, Nos. 4/5/6,	218-237	2013	
P.Senthil, T.Selvaraj, G.Kannan, R.Jeyapaul	Multi response optimization of turning operation on Al-Cu/TiB2	International Journal of Manufacturing Technology and	25	1-18	2012	

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	in-situ metal matrix composites using desirability function	Management				
P.Senthil, T.Selvaraj, S.Vinodh	Modelling of turning parameters of Al-Cu/TiB <sub>2</sub> in-situ metal matrix composites using artificial neural network	Int.J. Advanced Operations Management	Vol.4,	No.4,	2012	
S.Vinodh, T.Selvaraj, T.Praveen,	Design and development of agile product development cycle for rotary switches	Journal of Engineering Design and Technology	Vol.10 Iss:3	380 - 396	2012	
P. Senthil, T. Selvaraj & K. Sivaprasad	Influence of turning parameters on the machinability of homogenized Al-Cu/TiB <sub>2</sub> in situ metal matrix composites	Int. J Adv Manuf. Technology	67	1589 – 1596	2012	

**(B) Conferences/Workshops/Symposia Proceedings**

Author(s)	Title of Abstract/ Paper	Title of the Proceedings	Page numbers	Conference Theme	Venue	
M Manohar, T Selvaraj, D Sivakumar, Shibu Gopinath and Koshy M George	Experimental study to assess the effect of Electrode bottom profiles while machining Inconel 718 through EDM Process	3rd International Conference on Materials Processing and Characterisation	92-104	ICMPC 2014		20



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M Manohar, T Selvaraj, D Sivakumar and Koshy M George	Modeling of Turning Parameters for Inconel 718 Alloy using ANN,	International Conference on Advances in Design and Manufacturing	16-21	ICAD&M' 14	NITT	20
B.Singaravel T.Selvaraj	Application of Desirability Function Analysis and Utility concept for Selection of Optimum Cutting Parameters in Turning Operation	International Conference on Advances in Design and Manufacturing (ICAD&M'14	659-663	ICAD&M' 14	NITT	20
B. Singaravel T.Selvaraj	Multi objective Optimization in Turning of EN25 Steel using Taguchi based utility concept coupled with Principal component analysis	GCOMM 2014		GCOMM	VIT	20
Leo Princely F, Selvaraj T	Vision Assisted Robotic Deburring of Edge Burrs in Cast Parts	12th Global Congress On Manufacturing and Management		GCOMM	VIT	20
Pralhad Pesode, Sagar Nikam & T.Selvaraj,	Study of Cutting Force and Surface Roughness in Turning of Glass filled Polytetrafluoroethylene	Proceedings of the International Conference on Mechanical and Industrial Engineering	19-24	ICMIE	Pune	17, 20
Sagar Nikam, Pralhad Pesode & T.Selvaraj	Study of Cutting Force and Surface Roughness in Turning of Bronze filled Polytetrafluoroethylene	Proceedings of the International Conference on Advances in Mechanical and Energy Engineering (ICAEE)	Paper No.ICAEE1174	ICAEE		20
B.Singaravel T.Selvaraj	Selection of Optimum machining parameters in Hard Turning operation by TOPSIS method	International Conference on Sustainable Manufacturing	441-446	ICSM2013	CIT, Coimbatore	20