



BIODATA

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Objective:

To presume a challenging career to update myself and to grow along with your esteemed organization.

Educational qualifications:

Ph.D:

College: **Anna University**
Completed on 11.11.2011
University: Anna University
Papers Published in Journals :
National: 1
International: 6
Papers Published in Conference:
National: 23
International: 5
Area: Computational fluid Dynamics.

Master of Engineering:

College: **Anna University**
Course duration: 2000-2002
Class: First

Bachelor of Engineering

College: **Kongu Engineering College,**
University: Bharathiar,
Course duration: 1988-1992, Class: First

- HSC: 1986 -1988 (state board) passed with 71%

- SSLC: 1986 (state board) passed with 75.4%.

PROFESSIONAL EXPERIENCE:

18 years of teaching experience from 1998 to till date.

S.NO	DESIGNATION	NAME AND ADDRESS OF THE INSTITUTION	PERIOD	
			FROM	TO
1.	Lecturer	Mailam Engg College, Mailam	2/10/1998	30/09/2002
2.	Senior Lecturer	Mailam Engg College, Mailam	1/10/2002	31/08/2004
3.	Assistant Prof &Head	Mailam Engg College, Mailam	1/09/2004	12.12.2009
4	Assistant Prof & Head(All P.G depts.)	Mailam Engg College, Mailam	13.12.2009	14.5.11
5.	Professor & Head	Mailam engg College, Mailam	15.5.11	31.7.13
6.	Dean	Mailam engg College, Mailam	1.8.13	Till date

SUBJECTS HANDLED

Under- graduate:

- Engineering Thermodynamics
- Thermal Engineering
- Power Plant Engineering
- Nuclear Engineering
- Automobile Engineering
- Heat and Mass transfer
- Fluid Mechanics and Machinery
- Engineering Materials and Metallurgy
- Engineering Graphics
- Metrology and measurements
- Applied Hydraulics and pneumatics

Post - graduate Subjects Handled:

- Concepts of Engineering Design
- Industrial robotics and expert systems
- Integrated Manufacturing Systems
- Computational Fluid Dynamics

INDUSTRIAL EXPERIENCE:

Industrial Experience : 4 years .

Industry : Rubber Industry.

BOOKS PUBLISHED:

- Production Technology, *Lakshmi Publications*
- Engineering Metrology, *Lakshmi Publications*
- Engineering Metrology & Measurements, *Lakshmi Publications*
- Power Plant Engineering, *Lakshmi Publications*
- Mechatronics, *Lakshmi Publications*
- Manufacturing Technology *Lakshmi Publications*
- Power plant Engineering(electrical) *Lakshmi Publications*

- Thermal Engineering *Lakshmi Publications*
- Renewable energy sources *Lakshmi Publications*

ACHIEVEMENTS AS HEAD OF THE DEPARTMENT:

- The department obtained the third rank from the Anna university for the best infrastructure in the department
- First department got 10 university ranks in the college
- First department in the college got permanent affiliation
- First department in the college got three gold medals
- First department in the college, which maintained the first rank in the university results continuously
- First department in the college organised more number of national conferences, workshops and symposium
- The only department in the college published more number of papers in the international journals with high impact factor
- The only department has obtained maximum number of aicte-iste sponsored conferences

SUPERVISOR ELIGIBILITY:

Recognized ph.D supervisor in
 Anna university
 Prist university
 Karpagam university

INSPECTION PANELS FACED:

- **NATIONAL BOARD OF ACCREDITATION (NBA)**, the department of Mechanical Engineering is awarded 3 Years of Accreditation from 2007 to 2010.
- **TCS ACCREDITATION**
- **ALL INDIA COUNCIL FOR TECHNICAL EDUCATION (AICTE)**
- **ANNA UNIVERSITY, CHENNAI.**

GRANTS RECEIVED/APPLIED:

1. **MODROB** 15 lakhs received from AICTE
2. **DRDO FUNDED PROJECT** Optimization and Analysis of Plastic Fuel in 4 Stroke IC Engine - 63 lakhs in proceed
3. **CSIR CONFERENCES/SEMINAR-3**
4. **AICTE PROPOSALS SUBMITTED-7**

Modernization and Removal of Obsolescence in Technical Education (MODROB) Submitted:

- Modernization of subsonic wind tunnel for transient Flow measurements.
- Simulation and visualization of enhanced engineering drawing education.
- Modernization of air – conditioning test rig.
- Modernization of cooling tower test-rig.
- Interfacing of manufacturing kit in CNC lathe m/c for automatic code generation and machining.
- Modernization of vibration analysis of glass fiber reinforced polymer composite beam.
- Modernization of working condition of motors.

AICTE PROGRAMES ORGANIZED:

- ✓ One week short term training program on “Recent Development in product design and strategies in industries “conducted by Mailam College Engineering AICTE-ISTE for the academic year 2008 -2009
- ✓ Two week staff development program on “Recent Development in Advanced Manufacturing Systems “conducted by Mailam College Engineering sponsored by AICTE for the academic year 2009 -2010.
- ✓ One week staff development program on “Recent Development in product design and strategies in industries “conducted by Mailam College Engineering sponsored by AICTE for the academic year 2007 -2008.

- ✓ A faculty development program in computer-integrated manufacturing was conducted for 12 days from 11/6/2007 to 23/6/2007 in Mailam engineering college, for the academic year 2006– 2007, **sponsored by ANNA UNIVERSITY**
- ✓ A faculty development program on computer-aided design was conducted for 5 days from 2.05.2005 to 7.05.2005 in Mailam engineering college, for the academic year 2005– 2006, **sponsored by ANNA UNIVERSITY.**

INTERNATIONAL / NATIONAL CONFERENCES/SEMINARS ATTENDED:

- ✓ Paper accepted in “National Conference on Recent trends and developments in sustainable Green Energy Technologies” at Madras Institute of Technology Campus-Anna University for the Academic year 2014-2015.
- ✓ Paper accepted in “National Conference on Advance trends in Mechanical Engineering” at Nandha college of Technology for the Academic year 2013-2014.
- ✓ Paper Accepted in “National Conference on Recent trends in Manufacturing science” at Dhanalakshmi Srinivasan College of Engineering & Technology for the Academic year 2013-2014.
- ✓ Paper Accepted in “International Conference on Engineering and Applied Science at S.R.I.College of Engineering and Technology for the Academic year 2013-2014.
- ✓ Paper Accepted in “International Conference On Design, Analysis, Manufacturing & Simulation” at Saveetha School of Engineering for the Academic year 2012-2013.
- ✓ Paper Accepted in “National Conference on Emerging Trends in Mechanical Engineering” at Aksheya College of Engineering for the Academic year 2012-2013.
- ✓ Attended 1-Week Staff Development Program on “Recent Development in Product Design and Strategies in Industries” Organized By Mailam Engineering College, Sponsored by AICTE.2008-09.

- ✓ Paper Accepted in “International Conference in Fluid Mechanics – CFD Study on Plane Wall jet”, check Republic.
- ✓ Paper Accepted in one day National Conference on “Evaluation of Geometry Correction factors in fracture Mechanics” at IFET College of Engineering, Gangarampalayam, for the Academic year 2007 – 2008.
- ✓ Attended 1-Week Staff Development Program on “Recent Development in Product Design and Strategies in Industries” Organized By Mailam Engineering College, Sponsored by AICTE.
- ✓ Paper Accepted in “International Conference in Fluid Mechanics – CFD Study on Plane Wall jet”, check Republic.
- ✓ Paper Accepted in one day National Conference on “Evaluation of Geometry Correction factors in fracture Mechanics” at IFET College of Engineering, Gangarampalayam, for the Academic year 2007 – 2008.
- ✓ Attended two-day national conference on hydrogen-powered quasi-turbine for power generation in Annamalai University, Chidambaram for the academic year 2006 – 2007.
- ✓ Attended two-day international Conference on Emerging trends in Alternative fuels in Bharath University, Chennai for the academic year 2006 – 2007.
- ✓ Attended two-day national conference on hydrogen-powered quasi-turbine for power generation in Annamalai University, Chidambaram for the academic year 2006 – 2007.
- ✓ Attended two-day international Conference on Emerging trends in Alternative fuels in Bharath University, Chennai for the academic year 2006 – 2007.
- ✓ Attended one-day national seminar on 4.09.2004 in Mailam engineering college on challenges and opportunities in automobile components for the academic year 2004 – 2005.
- ✓ Attended one-day workshop on innovative teaching techniques on 7/08/04 in Mailam engineering college, for the academic year 2004 – 2005.
- ✓ Attended one-day national seminar on “professional ethics” on 24/5/04 in Mailam engineering college, for the academic year 2004 – 2005.

- ✓ Attended one-day national seminar on 4.09.2004 on challenges and opportunities in automobile components for the academic year 2004 – 2005.
- ✓ Attended one-day workshop on innovative teaching techniques on 7/08/04 in Mailam engineering college, for the academic year 2004 – 2005.
- ✓ Attended one-day national seminar on “professional ethics” on 24/5/04 in Mailam engineering college, for the academic year 2004 – 2005.

RESEARCH PUBLICATION (JOURNALS & CONFERENCES):

- ✓ Rajappan, R “Fault detection technique of machine elements and vibration characteristics” paper presented in National Conference on Emerging trends in Mechanical Engineering and its application-2018.
- ✓ Rajappan, R “ Performance and emission characteristics of variable compression ratio direct injection Diesel Engine using Tamanu oil” paper published in journal of chemical and pharmaceutical sciences-2015
- ✓ Rajappan, R “ Performance and emission characteristics of variable compression ratio direct injection Diesel Engine using plastics oil” paper published in journal of chemical and pharmaceutical sciences-2015
- ✓ Rajappan, R “Finite element Modelling and analysis of Wheel Rim” paper presented in National Conference on Advance trends in Mechanical Engineering -2014
- ✓ Rajappan, R “Finite element investigation of material models in machining simulation of ICONEL 718” paper presented in National Conference on Advance trends in Mechanical Engineering -2014
- ✓ Rajappan, R “Performance improvement of Jet Ejector Based on CRMC method by using CFD” paper presented in National Conference on Recent trends in Manufacturing science -2014
- ✓ Rajappan, R “ Design and analysis of Car Bumper ” paper presented in National Conference on Recent trends in Manufacturing science -2014
- ✓ Rajappan, R “ Modification and analysis of Fork link in a three wheeler ” paper presented in National Conference on Recent trends in Manufacturing science -2014

- ✓ Rajappan, R “Design and analysis of two wheeler shock absorber” paper presented in National Conference on Recent trends in Manufacturing science - 2014
- ✓ Rajappan, R “Design and analysis of fixture for vertical machining centre” paper presented in National Conference on Recent trends in Manufacturing science -2014
- ✓ Rajappan, R “Design and analysis of Composite parabolic Leaf Spring for Light Vehicle” paper presented in the International Conference on Engineering and Applied Science -2014
- ✓ Rajappan, R “ Transient Analysis Of Composite Hydraulic Cylinder With Moving Load Using FEA”paper presented in International Conference On Design, Analysis,Manufacturing & Simulation 2013.
- ✓ Rajappan, R “Analysis Of Thermal And Dynamic Characteristic In High Speed Motorized Spindle Using FEA” paper presented in National Conference On Emerging Trends In Mechanical Engineering -2k13
- ✓ Rajappan, R “ Static And Modal Analysis Of Chasis By Using FEA” paper presented in National Conference On Emerging Trends In Mechanical Engineering -2k13.
- ✓ Rajappan, R “ Analysis Of Heat Transfer In Boiler Tube Material Using FEA” paper presented in National Conference On Emerging Trends In Mechanical Engineering -2k13.
- ✓ Rajappan, R “ Finite Element Modeling and Analysis Of Skin Panel Based On the Fiber Orientation And Stacking Sequence” Published in IOSR Journal of Mechanical and Civil Engineering .
- ✓ Rajappan, R and s.Sivasakthivelan Reduction of Air Pollution by Removal of Harmful Gas Molecules from Man-Made Exhaust (Gas Molecular Precipitator GMP) paper accepted in Int. Journal Global Warming”, (Impact Factor=0.54)
- ✓ Rajappan, R. “Optimization and Analysis of Plastic Fuel in 4 Stroke IC Engine ”, “IISTE publication paper accepted in *International journal of Energy technologies and policy*”, (Impact Factor=5.54)

- ✓ Rajappan, R. "Windmill Power Generation using Multi-Generator and Single Rotor", IISTE publication paper accepted in *International journal of Energy technologies and policy*", (Impact Factor=5.54)
- ✓ Rajappan, R. and Mahalakshmi, N. V. "Computational study of free stream turbulence effect on film cooling using two different models", *Journal of Progress in Computational Fluid Dynamics of Inter Science Publications*, Vol. 11, No. 2, pp. 96-104, 2011.
- ✓ Rajappan, R. and Mahalakshmi, N. V. "Comparative Study of Jet Aspect Ratio Effect on Near Field of Turbulent Jet Mixing in a Cross Flow", paper accepted in *Journal of Progress in Computational Fluid Dynamics of Inter Science Publications*, 2011.
- ✓ Rajappan, R. and Mahalakshmi, N. V. "Experimental and Numerical Study of High Free Stream Turbulence Effect on Shaped Hole Vortical Structure", paper communicated to *International Journal of Experiments in Fluid and Thermal Science of Elsevier publications*, 2010.
- ✓ Rajappan, R. and Mahalakshmi, N. V. "Computational Prediction of Vortical Structure Effects in Film Cooling", Paper Accepted in the *International Journal of Fluid Machinery and Systems* Ref: O09031, 2009.
- ✓ R.Rajappan,Dr. N.V. Mahalakshmi (2009)" CFD Study on the effect of Co Flow in the development of flow field of 2D plane Jet Wall " , Paper Accepted in *International Conferences on " Fluid Mechanics _ WSEA Chezh Republic*
- ✓ R.Rajappan,Dr. N.V. Mahalakshmi (2009), " Computational Prediction of Inclined Rectangular Jet into a Channel Cross Flow using LES and RSM Model" , Paper presented in *International Conferences on " Computational Methods in Engineering and Sciences (SMES 2009)* .
- ✓ R.Rajappan, P.Saravanan, A.Ravichandran (2007), "Emerging trends in alternative fuels", *National Conference, on Energy conservation and efficiency in using "hydrogen as fuel cell"*, Bharath University, Dept. of Mechanical Engg., Chennai.

- ✓ R.Rajappan, S.Vandaarkuzhali, A.Ravichandran (2007), "Hydrogen powered Quasi-turbine for power generation" National Conference, Annamalai University, Chidambaram., India.
- ✓ R.Rajappan (2005),"Design and Analysis of Four –Aries Motion Simulation Moving Theater (Seat Shaker) in National Conference on Advancement in Electrical & Mechanical Engg. At Mailam Engg.College on Feb 20-21,2004
- ✓ R.Rajappan (2005),"Design and development of the Non-conventional energy devices" ISTE VI Annual, convention, Sona college of technology, Salem, India.
- ✓ R.Rajappan (2005), Finite Element Technique on piston cylinder arrangement in opposed piston engine", Feb. 2003, in Bharath University, Chennai, page 1-8-Engineering today.
- ✓ R.Rajappan (2004),"Design and fabrication of Solar Air Drier-Research Project by Tamilnadu state council for Science and Technology, Tamilnadu, India in National Conference on Advancement in Electrical & Mechanical Engg. at Mailam Engg.College on Feb 20-21,2004

CONFERENCES/SEMINARS/WINTER/SUMMER SCHOOLS ORGANISED:

- ✓ A faculty development program on computer-aided design was conducted for 5 days from 2.05.2005 to 7.05.2005 in Mailam engineering college, for the academic year 2005– 2006.
- ✓ Science day "generic 2005" was conducted on 28.02.2005 for 1 day in Mailam engineering college, for the academic year 2005– 2006.
- ✓ Seminar on smart materials and Nano technology was conducted for 1 day on 1.10.2005 in Mailam engineering college, for the academic year 2005– 2006.
- ✓ Training Programme on *teaching methodology* was conducted for (1 week) from 19.06.2006 to 24.06.2006 in Mailam engineering college, for the academic year 2006– 2007, A faculty development program on computer-integrated manufacturing was conducted for 12 days from 11/6/2007 to 23/6/2007 in Mailam engineering college, for the academic year 2006– 2007.

- ✓ National seminar on Renewable energy - Today and Tomorrow was organized on 19.08.2006 for (1 day) in Mailam engineering college, for the academic year 2006– 2007
- ✓ Technical symposium and science day “Generic 2006” was conducted for 3 days from 28.02.2005 to 2.02.2007 in Mailam engineering college, for the academic year 2006– 2007.
- ✓ One day workshop on “ Maintenance Engineering “ conducted by Mailam College Engineering in association with IIFE for the academic year 2007 - 2008.
- ✓ One day workshop on “ Latest Trends in Material Technology “ conducted by Mailam College Engineering in association with ASM for the academic year 2007 -2008.
- ✓ One day workshop on “ Green Energy “ conducted by Mailam College Engineering in association with “TEDA “for the academic year 2007 -2008.
- ✓ One day workshop on “5S PRACTICES“ conducted by Mailam College Engineering in association with “ABK –AOTS” for the academic year 2007 - 2008.
- ✓ One week staff development programme on “ Recent Development in product design and strategies in industries “ conducted by Mailam College Engineering sponsored by AICTE for the academic year 2007 -2008
- ✓ One week short term training programme on “Recent Development in product design and strategies in industries “conducted by Mailam College Engineering sponsored by AICTE-ISTE for the academic year 2008 -2009.
- ✓ One day workshop on “ Recent perspective in manufacturing engineering “ conducted by Mailam College Engineering in association with “MESA “for the academic year 2011 -2012.
- ✓ One day workshop on “ futuristic automotive concept “ conducted by Mailam College Engineering in association with “MESA “for the academic year 2011 -2012.

- ✓ One day national conference on “ design ,optimization, energy“ conducted by Mailam College Engineering in association with “MESA “for the academic year 2011 -2012.
- ✓ CSIR sponsored Two Day National seminar on “Advanced Green Energy Technologies” “ conducted by Mailam College Engineering in association with “MESA “for the academic year 2012 -2013.
- ✓ One day national conference on “Recent innovations in mechanical Engineering“ conducted by Mailam College Engineering in association with “MESA “for the academic year 2012 -2013.

TRAINING PROGRAMS ATTENDED:

- ✓ Attended 7 days training program on “Innovative teaching Techniques” Sponsored by AICTE, Conducted by Mailam Engineering College.
- ✓ Attended 5 day Staff Development program on “Recent development in product design & strategies in industries” Sponsored by AICTE, Conducted by Mailam Engineering College.
- ✓ Participated in one day national seminar on “renewable energy today & tomorrow” Sponsored by ministry of non conventional energy sources.
- ✓ Attended 5 day faculty Development program on “Computer Integrated Manufacturing” Sponsored by Anna University, Conducted by Mailam Engineering College.
- ✓ Attended 1 Day Workshop on “Maintenance Engineering” Conducted by Mailam Engineering College in Association with IIPE.
- ✓ Attended 1 Day Workshop on “Latest Trends in Material Technologies” Conducted by Mailam Engineering College in Association with ASM.
- ✓ Attended 1 Day Workshop on “5S Practices” Conducted by Mailam Engineering College in Association with ABK-AOTS.
- ✓ Attended 1 Day Awareness Workshop on “Entrepreneurship Development” Conducted by Mailam Engineering College.
- ✓ Attended 1 Day Workshop on “Advanced Materials and Metallurgy” Conducted by Mailam Engineering College.

- ✓ Attended 1 Day Seminar on “Growing Green Energy” Sponsored by Tamilnadu Energy Development Agency, Govt. of Tamilnadu, TEDA, Conducted by Mailam Engineering College.

PERSONAL DETAILS:

Father's Name : R.Ramasamy
Date of Birth : 05-05-1971
Languages Known : English, Tamil.
Passport No :G8480667
Date of Issue :08.05.2008
Place of Issue :Chennai

REFERENCES:

1.Dr.S.Senthil,
Principal,
Mailam engineering college, mailam, Email: senthil_iit@yahoo.com
2.Dr.N.V. Mahalakshmi,
Professor and Head
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3.Dr.M.Sivakumar
Professor
Department of science and humanities
Mailam engineering college, Email: Sivakumarche@gmail.com.

DECLARATION

BIODATA

I hereby declare that the information and facts stated herein above are true and correct to the best of my knowledge and belief.

Date: 4/12/18

Place: Mailam


(R. RAJAPPAN)
4/12/18