

Curriculum Vitae

Dr.Y.ROBINSON, Ph.D.

Director,

RVS Educational Trust's Group Of Institutions

Kumaran Kottam Campus, Kannampalayam,

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EDUCATION

- **Doctor of Philosophy in Mechanical Engineering,**
 - Department of Mechanical Engineering, Coimbatore Institute of Technology, Coimbatore-641014. **Oct, 2006**

- **Master of Engineering in Refrigeration and Air-conditioning,**
 - Department of Mechanical Engineering, Coimbatore Institute of Technology, Coimbatore-641014. **Aug, 2000. I Class.**

- **Bachelor of Engineering in Mechanical Engineering,**
 - Bharathiar University, Coimbatore, **June 1990. I Class.**

ACADEMIC/TEACHING EXPERIENCE

- **Director, RVS Educational Trust's Group Of Institutions, July 2009 to till date.**

- **Principal, Priyadharshini Engineering College, India, Sep 2007 to July 2009.**

- **Senior Lecturer in the Department of Mechanical Engineering, Coimbatore Institute of Technology, India - Aug1996 to Sep 2007**

INDUSTRIAL EXPERIENCE

Production Engineer, Sri Aarvee Industries, Coimbatore, 1990 to 1996

Fabrication of Pumps.

COURSES TAUGHT

Undergraduate and Post Graduate

Engineering Drawing, Basic Mechanical Engineering, Fluid Machinery, Thermal Engineering, Heat and Mass Transfer, Refrigeration and Air-conditioning, Internal Combustion Engines, Computational Fluid Dynamics, Computational Fluid Dynamics, Boiler Technology, Instrumentation for Thermal Equipments, Thermodynamic Cycle Analysis

COURSES DEVELOPED AND INTRODUCED

Boiler Technology

Instrumentation for Thermal Equipments

Heat Transfer Laboratory

TEACHING INTERESTS

IC Engines

Environmental Pollution

Heat Transfer

ADDITIONAL CHARGES

- **Acted as NCC officer for 8 years**
- Acted as Secretary of Staff club for four years
- Acted as staff advisor for debating and quiz clubs

SCHOLARLY CONTRIBUTIONS

Refereed International Journal Publications

1. Y.Robinson, S.Dhandapani, "Experimental Investigation on Electronic Fuel Injection in a

Two-Stroke SI Engine by Virtual Instrumentation Technique” International Journal of Engineering Education, Vol 21 pp 55-62, 2005.

2. Y.Robinson, S.Dhandapani,S.V.Saravanan, “Experimental Investigations of LPG-Diesel dual fuel IDI compression ignition engine for NO_x emission reduction using urea-scr technology., Quarterly International Journal on Pollution research, Vol 25(4), p 889 – 892. 2006.

3. Y.Robinson, S.Dhandapani, “Control of cyclic variations by computing the cycle-to-cycle air-fuel ratio by neuro fuzzy technique”, International Journal of Engineering Computations. Vol 24, Issue 8, P-P 780-792.

(In addition to the above few papers were submitted to various journals for publication)

Refereed Conference Proceedings

International Conferences

1. Y.Robinson, S.Dhandapani, “Experimental Investigation on Embedded system controlled Electronic Fuel Injection of LPG in a Two stroke Spark Ignited Engine” International Mechanical Engineering Conference and Expo 2004 (IMECE 2004),Dec 5-8, 2004, organized by Kuwait society of Engineers at Kuwait,

2. Y.Robinson and S.Dhandapani “Experimental studies on the performance characteristics of an LPG fuelled two-stroke S.I. engine”, International Conference on Digital Aided Modeling and Simulation, DAAMS-2003, 6-8, January, 2003, Coimbatore Institute of Technology, Coimbatore, Tamilnadu, India.

3. Y.Robinson, S.Dhandapani, “A neuro fuzzy model for the prediction of cyclic variation of Air-fuel ratio in a two-stroke SI engine,” International conference on modelling and simulation 2006, University of Malaya, Kulalumpur, Malaysia.

4. Y.Robinson, S.Dhandapani, “Reducing tail-pipe emissions from two-stroke engines by Electronic Fuel Injection,” International Interdisciplinary conference for Environmental Protection,” ICSTEP 2006, 7-9 Jan 2006, India.

National Conferences

1. Y.Robinson and S.Dhandapani “Effect of High energy surface ignition for the reduction of emission in a lean burn S.I.engine”, National seminar on Automobile emissions monitoring and control, 15-16, March 2002, Annamalai University, Chidambaram, Tamilnadu, India.

2. Y.Robinson and S.Dhandapani, “Real-time control of Electronic fuel injection systems”, National conference on Software agents and Embedded systems, 11-12, July 2003, Sri Ramakrishna Engineering college, Coimbatore, Tamilnadu, India.

3. Y.Robinson and S.Dhandapani, "Real-time control of Electronic fuel injection in a two-stroke S.I. engine using embedded system", National conference on Recent developments in Mechanical Engineering, 31st Oct-1st Nov, 2003, Thapar Institute of Engineering and Technology, Patiala, Punjab, India.
4. Y.Robinson and S.Dhandapani, "Experimental Investigation on semi direct electronic injection in a four stroke S.I. engine", XVIII National conference on I.C. engines and combustion, 17-19, December, 2003, College of Engineering, Thiruvananthapuram, Kerala, India.
5. Y.Robinson and S.Dhandapani, "CFD Analysis of the mixture formation process for the prediction of optimum position of injector in an LPG fuelled two-stroke S.I engine, 5th March 2004, National conference on Alternate fuels for Automobiles, Institute of Road and Transport Technology, Erode, Tamilnadu, India.
6. Y.Robinson, S.Dhandapani, "Development Of A Fuzzy Logic Model For The Prediction Of Air Fuel Ratio Of The Individual Cycles In A Two Stroke Spark Ignited Engine For The Control Of Injection Characteristics In An Electronic Fuel Injected Two-Stroke Spark Ignited Engine" National Conference On Recent Advances in Mechanical Engineering (NCRAME 2004), 7-9, July 2004, Jabalpur Engineering College, India.
7. Y.Robinson, S.Dhandapani, "Prediction of air-fuel ratio of individual cycles of a two-stroke SI engine using a fuzzy logic model and analysis of cyclic variations," XIX National Conference on IC engines and Combustion, Dec 21-23, 2005, Annamalai University, India.
8. Y.Robinson, A.Srinivasulu.S.V.Saravanan, "CFD analysis for modelling and optimization of selective catalytic reduction system" AAFH 2007, April 5-6, 2007, Annamalai university, India.

RESEARCH INTERESTS

Research interests are directed primarily toward IC Engine research in a variety of interrelated areas:

- Embedded systems in Engine technology;
- Use of CFD in Engine research
- Applying techniques like fuzzy logic and Neural networks in engine research .

Other areas of interest include:

- Applied areas of Heat transfer equipments like heat exchangers, driers, Refrigeration and Air-conditioning equipments.

PROFESSIONAL AFFILIATIONS

Life member in Combustion Institute.

PROFESSIONAL DEVELOPMENT PROJECTS GUIDED

UG Projects : 10

PG Projects : 7

PhD : Guiding 2 research scholars under Coimbatore Anna University.

GUEST LECTURES DELIVERED

- Special Guest lecture on “Electronics in IC engines Applications” – AICTE sponsored STTP winter school at CIT, Coimbatore, Nov 2003.
- Special Guest lecture on “Development of Embedded system for the control of fuel injection in a manifold injected two stroke SI engine”, AICTE sponsored Winter School at Kongu Engineering College, Erode, 2004.
- Guest Lecture on, “ Neuro fuzzy model for the prediction of air-fuel ratios”, Arunai Engineering college, Thiruvannamalai, 2007.

CONFERENCES ORGANIZED

- Organizing secretary, One day seminar on Advances in Thermal Engineering (ADTHE-2006), CIT, 2006.
- Committee member, International conference on Intelligent Flexible Autonomous Manufacturing Systems (IFAMS- 2000) conducted by Department Of Mechanical Engineering, CIT.
- Organising Team, International Conference on Digital Aided Modelling and Simulation (DAMS – 2003), CIT, 2003.
- Organising Team, International Conference on Responsive Supply Chain (RSC – 2004), CIT,2004.

STTP/ ISTE – QIP training programs and other programmes attended

- AICTE-QIP-STTP Course through ISTE on “Computer Integrated Industrial Systems, March, 1998.
- Concurrent workshop on Computational Fluid Dynamics Modelling and Applications - Conducted by CIT, Jan 2000.
- Workshop on “Biomass Energy –Theory and practice” CCE, IISE, Bangalore, Nov 2000.
- AICTE-ISTE Summer school on “Cryogenic Technology for Metal Treatment” PSG Tech, June 2001.
- Trained in CFD Modelling and Analysis, Pune 2001.(Fluent 6.1)
- Trained on Star CD, CFD software, CSM Bangalore, 2005.

- Design of Turbo Machines Using CFD with special emphasis on Pump and Blower design – AICTE ISTE, Nov, 2001.
- Winter short term course on “Computer Fluid Dynamics-Theoretical Modelling and Computer simulation” Organised by Dept of CSE, CIT, Jan, 2001.
- Short term course on “Alternative fuels, emissions and latest advances in Internal Combustion Engines” IIT, Kanpur, Dec 2002.
- AICTE-ISTE-STTP on “Real time process control and automation using DSP and VLSI circuits” Dept of EEE, CIT, Nov 2003.
- Short course on “Renewable Energies and Alternative fuels” IIT, Kanpur, Nov 2003.
- AICTE Sponsored Workshop on “Environmental Degradation and Ecological Ethics” Kongu Engineering College, Erode, Aug, 2004.

PERSONAL DETAILS

Name	:	Y.Robinson
Age and Date of Birth	:	38, 22.05.1969
Sex	:	Male
Marital Status	:	Married
Nationality	:	Indian
Languages known	:	English(R/W/S), Tamil (R/W/S).
Permanent Address	:	B-192, Elango Nagar, Coimbatore-641014.
E mail	:	<u>yrobin1969@yahoo.com</u>

I do hereby affirm that the information and particulars furnished above are correct to the best of my knowledge and belief. Other information available upon request.

Y.Robinson