

**Name of the Faculty with Educational Qualification S.RAJ KUMAR M.E**

Designation and Department Assistant Professor-III

Velammal College of Engineering and Technology, Madurai

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Blog Address:

**Educational Qualification:**

<b>Degree / Branch</b>	<b>Institute</b>	<b>Board / University</b>	<b>Year</b>	<b>% marks / CGPA</b>
M.E VLSI DESIGN	Pandian Saraswathi Yadav Engineering College, Sivagangai	ANNA UNIVERSITY, Chennai	2011-2013	7.88 (cgpa) (I class)
B.E Electronics and Communication Engineering	SACS MAVMM Engineering College, Madurai	ANNA UNIVERSITY, Chennai	2006-2010	74 % ( I class )
XII	SPVM Higher Secondary School, Madurai	Matriculation	2005-2006	77.75 %
X	SPVM Higher Secondary School, Madurai	Matriculation	2003-2004	72.63 %

**Experience in Years: 7.8****Employment History:**

- Assistant Professor in Electronics and Communication Engineering at DHANALAKSHMI SRINIVASAN COLLEGE OF ENGINEERING, Perambalur from June 2013 to June 2016.
- Assistant Professor in SACS MAVMM ENGINEERING COLLEGE, Madurai from July 2016 to March 2021.

**Interested Research Areas: VLSI DEVICE MODELING****Scholarships and Awards received:**

Awarded **ELITE** certificate in **NPTEL** online course funded by **MINISTRY OF HRD**, Govt. of India for the course "**PROBLEM SOLVING THROUGH PROGRAMMING IN C**" with **74%**.

**Funded Research Projects:**

Funding Agency:

Scheme:

Title:

Sanctioned Amount:

Year:

Principal Investigator(PI):

Co-PI:

**Patent rights received:**

**Publications Details:**

**1. Patent Journal Publication Details:**

**2. International Journal Publication Details:**

•"Numerical Investigation of Zero-Dimensional Freestanding Nanowire FER-AlGa<sub>N</sub>/Ga<sub>N</sub> HEMTs for Low-Power Applications", Arabian Journal for Science and Engineering, Feb 2024, 1-12.

•"Real time speed control of three phase induction motor by using firefly algorithm", International Journal for Science and Advance Research in Technology, volume 5, issue 2, Feb 2019.

•"Modeling and Offline Control of Parallel Hybrid Electric Vehicles using MATLAB", International Research Journal of Engineering and Technology, volume 6, issue 2, Feb 2019.

•"Recovering Energy from Exhaust Heat in Hybrid Vehicle using Thermo-Electric Generator", International Journal for Scientific Research and Development, Volume 6, Issue 1, March 2018.

•"Network on Chip (NoC) Architecture based on Cluster Method", International Journal of Scientific Engineering and Research, Volume 3 Issue 3. March 2015.

**3. International Conference Presentation Details:**

Project Title	Conference	Institute	Year
Modeling and Offline Control of Parallel Hybrid Electric Vehicles using MATLAB	<b>IEEE INTERNATIONAL CONFERENCE</b>	Pandian Saraswathi Yadav Engineering College, Sivagangai	2018-19
Real time speed control of three phase induction motor by using firefly algorithm	<b>IEEE INTERNATIONAL CONFERENCE</b>	Pandian Saraswathi Yadav Engineering College, Sivagangai	2018-19
Smart metering and conditional access control of electrical energy	<b>IEEE INTERNATIONAL CONFERENCE</b>	Velammal College of Engineering and Technology, Madurai	2016-2017

Recovering energy from exhaust heat in vehicle using thermo-electric generator	<b>IEEE INTERNATIONAL CONFERENCE</b>	Velammal College of Engineering and Technology, Madurai	2017-2018
High efficiency transmission of wireless power	<b>IEEE INTERNATIONAL CONFERENCE</b>	Velammal College of Engineering and Technology, Madurai	2017-2018
Network on Chip(NoC) Architecture based on Cluster Method	<b>IEEE INTERNATIONAL CONFERENCE</b>	Sri Shakthi Institute of Engineering and Technology, Coimbatore	2012-13

#### 4. National Conference Presentation Details:

<b>Project Title</b>	<b>Conference</b>	<b>Institute</b>	<b>Year</b>
Arduino based lineman protection systems with user based Huffman coding	<b>NATIONAL CONFERENCE</b>	Dhanalakshmi Srinivasan Engineering College, Perambalur	2017-2018
Recovering energy from exhaust heat in vehicle using thermo-electric generator	<b>NATIONAL CONFERENCE</b>	Gnanamani College of Technology, Namakkal	2016-2017
Network on Chip(NoC) Architecture based on Cluster Method	<b>NATIONAL CONFERENCE</b>	Dr.Mahalingam College of Engineering and Technology, Coimbatore	2012-13
Intelligent Power Saving Data Compression Technique in Wireless Sensor Networks	<b>NATIONAL CONFERENCE</b>	Karpagam College of Engineering, Coimbatore	2009-10

#### 5. Google Scholar report: