

## RESUME

### 1. General Information:

<b>Name</b>	S.MAHENDRAN	
<b>Date of Birth &amp; Age</b>	07/04/1982, 37	
<b>Gender</b>	Male	
<b>Marital Status</b>	Married	
<b>Father / Spouse Name</b>	K.SOUNDARARAJAN	
<b>Mother Tongue &amp; Languages Known</b>	Tamil & English	
<b>Nationality &amp; Religion</b>	Indian, Hindu	
<b>Email Address</b>	drmahendrans@gmail.com & mahendrans@ksrct.ac.in	
<b>Mobile Number</b>	+91 9944714992 & +91 8610737644	

Correspondence Address	Permanent Address
Professor Department of EEE K.S.Rangasamy College of Technology Tiruchengode-637 215. Namakkal Dt.	1-5-12B6, Andiappan kadu G.H. Road Sankari- 637301 Salem Dt. Tamil Nadu.

### 2. Academic Details ( Photo copies are attached ):

Degree	Specialization	Name of the School / College	% Marks or CGPA	Year of Passing	Part Time / Full Time
Ph. D.	AC-AC Power Converters	Anna University, Chennai	NA	July, 2017	Part Time
Post - Graduate	M.E. [Power Electronics and Drives]	K.S.Rangasamy College of Technology, Tiruchengode. Anna University, Chennai	83	May, 2009	Part Time
Under - Graduate	Electrical and Electronics Engineering	V.M.K.V. Engineering College, Salem. Periyar University	82	May, 2003	Full Time
HSC	Mathematics & Computer Science	Government Boys Higher Secondary School, Pallipalayam, Namakkal (DT)	87	May, 1999	Full Time

<b>Degree</b>	<b>Specialization</b>	<b>Name of the School / College</b>	<b>% Marks or CGPA</b>	<b>Year of Passing</b>	<b>Part Time / Full Time</b>
SSLC	State Board	Government Boys Higher Secondary School, Pallipalayam, Namakkal (DT)	79	May, 1997	Full Time

### 3. Experience:

<b>Sl. No.</b>	<b>Institution / Industry Name</b>	<b>Position / Title</b>	<b>From</b>	<b>To</b>	<b>No. of Years &amp; Month</b>
1.	K.S.Rangasamy College of Technology, Tiruchengode	Professor	01.02.2017	01.05.2019	2 Y 3 M
2.	K.S.Rangasamy College of Technology, Tiruchengode	Assistant Professor	01.06.2010	31.01.2017	6 Y 8 M
3.	K.S.Rangasamy College of Technology, Tiruchengode	Lecturer	18.10.2006	31.05.2010	3 Y 7 M
4.	Sengunthar Engineering College, Tiruchengode	Lecturer	18.05.2006	10.10.2006	06 M
5.	P.G.P College of Engineering and Technology, Namakkal	Lecturer	05.12.2005	22.05.2006	05 M
6.	Sasurie College of Engineering, Vijayamangalam	Lecturer	10.12.2004	30.11.2005	01 Y
	Total Experience				14 Years 05 Months

### 4. Publication Details (Provide only the count. Attached the details as an Annexure-I):

<b>Category</b>	<b>Conferences</b>	<b>Journals</b>
National	05	-
International	12	10

**5. Programmes Organized / Attended** (Provide only the count. Attached the details as an **Annexure-II**) :

Category	Conferences / Technical Symposium	Workshops / Guest Lecture	FDP / SDP / STTP
Organized	01+05	05 +10	-
Attended	02	05	07

**6. Project Funds Received from the External Agencies:**

Title of the workshop	Name of the Agency	Amount (in Rs. )	Date
The future using graphical approach - IoT	The Institution of Engineers (India), Kolkata	20,000	04.10.17 To 05.10.17

**7. Membership in Professional Bodies:**

Sl. No.	Name of Professional Body	Grade of Membership	Membership No.
1.	ISTE Member in Indian Society for Technical Education	Life Member	LM 64104
2.	IE (I) Member in The Institution of Engineers India	Member (M.I.E.)	M-1628431
3.	IAENG Member in International Association of Engineers	Life member	235704

**8. Any Other Information:**

I have received **Certificate of merit** from the management for producing 100% results in the various end semester examinations.  
 I have been trained with outcome based education (**OBE**).  
 I have supervised seven PG students and their details are attached in the **Annexure IV**  
 I have attached my Administrative role in the **Annexure V**.

Place : Tiruchengode  
 Date :

**Signature of the Applicant**

**Annexure-I [Publication Details]**

<b>Category</b>	<b>Conferences</b>	<b>Journals</b>
National	05	-
International	12	10

**List of Publications:**

<b>National Conference:</b>	
1.	Mahendran S (2009), " implementation of fuzzy logic controller for the speed control of chopper fed DC motor", Proceedings of the National conference on Innovations in Electrical, Electronics and Control systems (IEECONS-2009), Kumaraguru College of Technology, Coimbatore. pp: 120-125.
2.	Devigarani C. and Mahendran S (2011), "Zero voltage transition current fed full bridge PWM converter for reducing switching losses", Proceedings of National Conference on Power Electronics and Drives (PEDC'11), March 9, Alagappa Chettiar College of Engineering and Technology, karaikudi. pp: 151-155
3.	Devigarani C. and Mahendran S (2011), "Zero voltage transition current fed full bridge PWM converter with boost converter", Proceedings of National Conference on Advancement in Electrical Sciences (NCAES'11), Febraury 27, SNS College of engineering and technology, Coimbatore. pp:44-49.
4	Venkatesan C.V and Mahendran S.(2012), " A Single Phase Z-Source Buck-Boost Converter using for low power PV cell generation system", Proceedings of seventh national conference on cutting edge technologies in power conversion and industrial drives-PCID 2012 at Bannari Amman Institute of Technology, Sathyamangalam.
5.	Pradeep. R, Mahendran.S and Gnanambal.I (2013), "Single Phase Matrix Converter Fed Induction Heater Using Boost AC-AC Converter Topology", Proceedings of National Conference on Innovation in Special Electric Drives, Power and Energy at Muthayammal Engineering College, 7-8 October 2013.

<b>International Conferences:</b>	
1.	Mahendran S. and Thangavel S (2009), "Comparison of PI, PID and Fuzzy Logic Controller for the chopper driven DC motor", Proceedings of the International Conference on operation research applications in Engineering and Management (ICOREM), Anna University, Tiruchirappalli. pp:2549-2554.
2.	Devigarani C. and Mahendran S (2011), "Zero voltage transition current fed full bridge PWM converter", Proceedings of International Conference on Intelligent Science and Technology (IIST-2011), March 24-25, Sun College of Engineering, Nagarkovil, Coimbatore. pp:44-49.
3.	Gobinath K. And Mahendran S. (2013), "Performance Analysis of Cascaded HBridge Multilevel Inverter", Proceedings Of International Conference On Power And Energy Systems (ICPES'12), December 13-15, Kalasalingam University, Krishnankoil, pp:174-181.

<b>International Conferences:</b>	
4.	Gobinath.K, Mahendran, S and Gnanambal, I (2013), 'Novel cascaded Hbridge Multilevel inverter with harmonics elimination', Proceedings of International Conference On Green High Performance Computing (ICGHPC'13), March 14-15, St. Xavier Catholic College of Engineering, Nagercoil.
5.	Pradeep. R, Mahendran. S and Gnanambal. I, "Single Phase Matrix Converter Fed Induction Heater Using Boost AC-AC Converter Topology", Proceedings of International Conference on Knowledge Collaboration In Engineering, Kathir College of Engineering, Coimbatore, January 2014.
6.	Pradeep. R, Mahendran.S and Gnanambal.I, "Matrix Converter Fed Induction Heater", Proceedings of International Conference on Power, Control and Embedded Systems, College of Engineering Guindy, Anna University, Chennai,27-28 February 2014.
7.	Gobalakrishnan. S. Mahendran. S and Gnanambal. I, "Diode Clamped Asymmetry Multi-Level Inverter with Novel Modulation", Proceedings of International Conference on Renewable Energy Utilization, Coimbatore Institute of Technology, Coimbatore. 8-10 January 2014.
8.	Gobalakrishnan. S. Mahendran. S and Gnanambal. I, "A New Carrier Based Modulation for Neutral Point Clamped Asymmetric Multi-Level Inverter", Proceedings of International Conference on Advancements in Electrical and Electronics Engineering, Government College of Engineering, Salem,10-11 March 2014.
9.	S.Saravanakumar and S.Mahendran "Harmonic Reduction in PWM AC Chopper using Fuzzy based Technique" proceedings of International Conference on Engineering Technology and Science (ICETS'15) organized by the Department of EEE held in Muthayammal College of Engineering, Rasipuram on 5th-6th March 2015.
10.	S.Saravanakumar, S.Mahendran and I.Gnanambal "Application of Intelligent Technique in PWM AC Chopper For Harmonic Elimination" proceedings of DRDO Sponsored 2nd IEEE International Conference on Innovations in Information, Embedded and Communication systems (ICIIECS) organized by the Department of ECE held in Karpagam College of Engineering, Coimbatore on 19th-20th March 2015.
11.	Tamilvanan. G, Mahendran. S "Review On Dynamic Voltage Restorer For The Power Quality Improvement" Proceedings of 2nd International Conference on Electrical, Electronics, instrumentation, computer and Communication (EEICC 2015) at Karpagam College of Engineering, Coimbatore, pp.1507-1511, 18th-19th December 2015.
12.	Tamilvanan. G, Mahendran. S " Power Quality Maintenance In The Transmission Line Using Ac-Ac Converter" Proceeding of the International Conference on Renewable Energy Utilization (ICREU-2016) Organized By: Department of Electrical and Electronics Engineering, Coimbatore Institute of Technology, Coimbatore -641014, Tamilnadu, INDIA Jointly with Oklahoma State University , USA, January 06-08, 2016.

<b>International Journals</b>	
1.	Mahendran S, Gnanambal I & Gobinath K (2013), 'New cascaded h-bridge Multilevel inverter with improved efficiency', International Journal of Advanced Research in Electrical, Electronics and Instrumentation Engineering, Vol. 2, Issue 4, pp 1263 - 1271, ISSN : 2278 – 8875.
2.	Mahendran S, Gnanambal I & Saravanakumar S, (2014), 'Improving Voltage Regulation and Elimination of harmonics in PWM AC Chopper Using Artificial Intelligent Technique', International Journal of Advanced Information and Communication Technology, Volume1, pp 722 - 725, Issue 8, ISSN 2348-9928.
3.	Mahendran S, Gnanambal I & Maheswari A, (2015), 'Quality Enhancement of AC Chopper Using Genetic Algorithm ', TELKOMNIKA Indonesian Journal of Electrical Engineering, Vol. 16, No. 1, pp. 30 – 37, ISSN: 2302-4046 (Annexure II).
4.	Mahendran S, Saravanakumar S, Gnanambal I (2015), 'Harmonic Reduction in PWM AC Chopper Using Fuzzy Based Technique' International Journal of Applied Engineering Research (IJAER), Vol 10, p.p 7644 - 7647, ISSN:: 09734562.
5.	Mahendran S, Saravanakumar S, Gnanambal I (2014), 'Improving Voltage Regulation And Elimination Of Harmonics In Pwm Ac Chopper Using Artificial Intelligent Technique', International Journal of Advance Information and Communication Technology (IJAICT), Vol 1, No. 8, pp.722-725.
6.	Mahendran S, Tamilvanan G (2016), 'Review on Dynamic Voltage Restorer for the Power Quality Improvement', 'Advances in Natural and Applied Sciences', Special issue 9, p.p 183-189, ISSN: 1995-0772.
7.	Mahendran S, Gnanambal I & Maheswari A 2016, 'Experimental Validation of Power Quality Improvement in the Domestic and Industrial Fan Load', Journal of Scientific & Industrial Research, vol.75, pp. 506-511, ISSN: 0975-1084. IF-0.385.
8.	Mahendran S, Gnanambal I & Maheswari A 2016, 'FPGA-based genetic algorithm implementation for AC chopper fed induction motor', International Journal of Electronics, vol. 103, no. 12, pp. 2029-2041. ISSN: 0020-7217. DOI: 10.1080/00207217.2016.1175034. IF-0.414.
9.	Mahendran S and Tamilvanan G (2016), "Review on AC-AC Converter Based Dynamic Voltage Restorer ", Indonesian Journal of Electrical Engineering and Computer Science, Vol. 2, No. 2, May 2016, pp 297-304.ISSN: 2502-4752, DOI: 10.11591/ijeecs.v2.i2.
10.	Mahendran S and Tamilvanan G (2016), "Analysis of AC-AC Converter Based Dynamic Voltage Restorer for Maintaining Power Quality in the Transmission Line ", Indonesian Journal of Electrical Engineering and Computer Science, Vol. 1, No. 3, March 2016, pp. 501 -511. ISSN: 2502-4752, DOI: 10.11591/ijeecs.v1.i3.

**Annexure-II [Programme Organized / Attended]**

<b>Category</b>	<b>Conferences / Technical Symposium</b>	<b>Workshops / Guest Lecture</b>	<b>FDP / SDP / STTP</b>
Organized	01+05	05 +10	-
Attended	02	05	07

<b>Conferences / Technical Symposium Organized :</b>					
<b>Sl. No.</b>	<b>Date</b>	<b>Name of the Programme Organised</b>	<b>Chief Guest/ Guest of Honour/ Resource Person/ Luminaries Details</b>	<b>Number of institutions participated</b>	<b>Number of students participated</b>
1.	03.04.09 to 04.04.09	CSIR – India sponsored 5 <sup>th</sup> National conference on Advanced Computing, Control and Automation-09	Myself Acted as the Coordinator	12	40
2.	10.02.15	National Level Technical Symposium	Mr.S.Chandra Shekar Additional General Manager, HVDC & RPM, BHEL, Bangalore.	20	170
3.	26.02.16	National Level Technical Symposium	Dr.B.Hariram selvamurugan satheesh, Principal Scientist, GISL, ABB, Bengaluru	13	150
4.	03.03.17	Technical symposium	Dr.M.Basha, Director/ ECE KSRCE, Tiruchengode	01	190
5.	06.10.17	Technical symposium	Er.S.R.Saravanan, MIE Honorary secretary IE(I) India, Salem	01	200
6.	27.09.18	Technical symposium	Er. Ashokkumar Elangovan Lead engineer, Schneider Electric, Bengaluru	01	125

<b>Workshops / Guest Lecture organized:</b>					
<b>Sl. No.</b>	<b>Date</b>	<b>Name of the Programme Organised</b>	<b>Chief Guest/ Guest of Honour/ Resource Person/ Luminaries Details</b>	<b>Number of institutions participated</b>	<b>Number of students participated</b>
1	11.02.15	Workshop on "Commercial Building Power System Design"	Mr. R. Ranjith Senior Electrical Engineer, Siemens. Power Projects Hands On Training On Dialux S/W	01	30
2	27.02.16	Workshop on "Building Embedded System with LabVIEW"	Mr.P.Manojkumar, AP/EEE KSRCT, Tiruchengode	07	50
3	04.10.17	Workshop on " The future using graphical approach - IoT "	Mr.P.Manojkumar, AP/EEE KSRCT, Tiruchengode	08	35
4	05.10.17	Workshop on " The future using graphical approach - Rasberry - Pi 3 "	Mr.P.Manojkumar, AP/EEE KSRCT, Tiruchengode	09	40
5	26.09.18	Workshop on " The future using graphical approach - IoT "	Mr.P.Manojkumar, AP/EEE KSRCT, Tiruchengode	08	35
7.	10.10.14	Guest Lecture on "Graphical System Design"	Er. G.Manimaran B.E., Senior Application Engineer, VI Solutions, Bangalore.	01	114
8.	10.02.15	Guest Lecture on "HVDC & RPM"	Mr.S.Chandra Shekar Additional General Manager, HVDC & RPM, BHEL, Bangalore.	01	120
9.	01.08.15	Guest Lecture on "Recent Trends In Power System Protection"	Shri.P.Kaliappan, Engineering Officer - Grade IV, Power Systems Division, Bangalore.	01	198
10.	03.09.16	Guest Lecture on "System Engineering"	Dr.S. Balamurugan, Ph.D Senior Staff Engineer GE Aviation, Bangalore.	01	200
11.	06.10.17	Guest lecture on " Emerging Trends in	Er.P.G.Gobi, SE TEDC, Tiruvannamalai	01	140



<b>Workshops / Guest Lecture organized:</b>					
<b>Sl. No.</b>	<b>Date</b>	<b>Name of the Programme Organised</b>	<b>Chief Guest/ Guest of Honour/ Resource Person/ Luminaries Details</b>	<b>Number of institutions participated</b>	<b>Number of students participated</b>
		Electrical power transmission and distribution system "			
12.	10.04.18	Guest lecture on "IoT based machine control: Trends and Strategies"	Dr. S. RAVINDRAKUMAR Founder & Director- IRRD Automaton, India.	01	175
13.	20.07.18	Guest lecture on " Scope of electrical engineers in the modern world "	Er.S.R.Saravanan, MIE Honorary secretary IE(I) India, Salem	01	150
14.	27.09.18	Guest lecture on " Recent trends in low voltage distribution system "	Er. Ashokkumar Elangovan Lead engineer, Schneider Electric, Bengaluru	01	85
15.	05.01.19	Guest lecture on "Career opportunities for electrical engineers"	Dr.B.Venkatesaperumal, ASP & HOD, Dept. of EEE, NITK	01	75

<b>Workshop/ FDP / SDP / STTP Attended:</b>				
<b>Sl. No.</b>	<b>Title</b>	<b>Venue</b>	<b>Duration</b>	<b>Sponsoring Authority</b>
1.	Neural Networks and its Applications	Karpagam College of Engineering, Coimbatore.	18.07.08 to 19.07.08	Karpagam College of Engineering, Coimbatore
2.	WIPRO Mission 10X	K.S.Rangasamy College of Technology, Tiruchengode..	13.09.11 to 17.09.11	ISTE and WIPRO
3.	Research Issues in Power Converters and Power Systems	Government College of Engineering, Salem.	16.08.12 to 17.08.12	Government College of Engineering, Salem
4.	FDP on Nano Technology for Sustainability: Energy Conversion and Storage	K.S.Rangasamy College of Technology, Tiruchengode.	06.05.13 to 18.05.13	AICTE, New Delhi

<b>Workshop/ FDP / SDP / STTP Attended:</b>				
<b>Sl. No.</b>	<b>Title</b>	<b>Venue</b>	<b>Duration</b>	<b>Sponsoring Authority</b>
5.	FDP on "Power Electronics Application to Distributed Generation "	Government College of Engineering, Salem.	30.10.13 to 06.11.13	TEQIP-II
6.	AICTE sponsored two day national level seminar on "Advanced Control Techniques for Electric Drives"	Vivekananda Institute of Engineering and Technology for Women, Tiruchengode.	22.11.13 to 23.11.13	AICTE, New Delhi
7.	ISTE workshop on Signals and systems	K.S.Rangasamy College of Technology, Tiruchengode.	02.01.14 to 12.01.14	National Mission on Education through ICT (MHRD), IIT, Kharagpur.
8.	ISTE Workshop on Control Systems	K.S.Rangasamy College of Technology, Tiruchengode.	02.12.14 to 12.12.14	National Mission on Education through ICT (MHRD), IIT Kharagpur.
9.	Workshop on intellectual property rights	K.S.Rangasamy College of Technology, Tiruchengode.	06.08.16	K.S.Rangasamy College of Technology, Tiruchengode
10.	ISTE STTP on Electric Power System	K.S.Rangasamy College of Technology, Tiruchengode.	12.06.17 to 15.06.17	National Mission on Education through ICT (MHRD), IIT Kharagpur.
11.	SDP on "Transmission and Distribution"	Muthayammal College of Engineering, Rasipuram.	04.12.18 to 10.12.18	AICTE, New Delhi And ISTE
12.	STTP on NBA Accreditation (ICT01)	K.S.Rangasamy College of Technology, Tiruchengode.	22.04.2019 to 26.04.2019	National Institute Of Technical Teachers' Training and Research (NITTTR), kolkata

**Annexure III [Thesis Supervised For M.E. / M. TECH. Programme]**

<b>Sl. No.</b>	<b>Title of the Thesis Supervised</b>	<b>Name of the candidate</b>	<b>Completed (year)</b>
1.	Analysis of AC-AC Converter Based Dynamic Voltage Restorer for Maintaining Power Quality in the Transmission Line.	Tamilvanan G.	2016
2.	Improving voltage regulation and elimination of harmonics in PWM AC chopper using artificial intelligent technique.	Saravanakumar S.	2015
3.	Single Phase Matrix Converter Fed Induction Heater Using Boost AC-AC Converter Topology.	Pradeep R.	2014
4.	A New Carrier Based Modulation for Neutral Point Clamped Asymmetric Multi-Level Inverter.	Gopalakrishnan S.	2014
5.	Performance analysis of cascaded H-bridge multilevel inverter.	Gobinath K.	2013
6.	A single phase z-source buck-boost converter using for low power PV cell generation system.	Venkatesan C.V.	2012
7.	Zero voltage transition current fed full bridge PWM converter.	Devigarani C.	2011

**Annexure IV [Administrative Role]**

<b>Sl. No.</b>	<b>Name of the Role</b>	<b>Nature of responsibility</b>
1.	Association Coordinator	Giving guidelines to the various activities of the department association (Society of Powerful Innovative and Creative Electrical Engineers).
2.	IE (I) students' chapter - Faculty Advisor	Giving guidelines to the various activities of the IE (I) students' chapter. Five [1*14,000+4*6000] of our college students got the scholarship from the IE (I), Kolkata for the Academic year 2016-17. Best division award received for the year 2018. IE (I) best student award received for the year 2018.
3.	Time Table Coordinator	Subject allocation, preparing Inter office memo, Preparing Time Table for all the classes and Faculties in the EEE department.
4.	Placement Training (student) coordinator	Take care of student trainings. Arranging motivational class, Aptitude Class and Technical Class for the final year students.
5.	Class Advisor	Monitoring the progress of the students towards their Academic / career goals. Giving Counseling to the students for their progress.
6.	Grievance Cell Member	Taking care of faculty and student stress related issues.
7.	Question Paper Setter &	Preparing End Semester Examination Question Paper for various universities and autonomous Colleges.

<b>Sl. No.</b>	<b>Name of the Role</b>	<b>Nature of responsibility</b>
	External Examiner	Evaluating answer script for various universities and autonomous Colleges.
8.	Course coordinator Module Coordinator	Convene course teacher meeting. Monitoring uniform completion of syllabus. Convene course coordinator meeting.
9.	BOS member	Syllabus framing. Giving suggestion for existing syllabus.