

# **CURRICULUM VITAE**

NAME : **Dr. V. MOHAN**

PRESENT POSITION : Professor & Head (EEE)  
Director - Academics  
E.G.S. Pillay Engineering College  
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## **EDUCATIONAL QUALIFICATION:**

| Degree     | Specialization / Branch                       | Year of Passing | Name of the College              | Name of the University                    | % of Marks | Class Obtained               |
|------------|-----------------------------------------------|-----------------|----------------------------------|-------------------------------------------|------------|------------------------------|
| B.E.       | Electrical & Electronics Engineering          | 1995            | Shanmugha College of Engineering | Bharathidasan University, Tiruchirappalli | 74.1       | First Class                  |
| M.E.       | Power Electronics and Drives                  | 2001            | Shanmugha College of Engineering | Bharathidasan University, Tiruchirappalli | 83.7       | First Class with Distinction |
| PG Diploma | Electrical Energy Management and Energy Audit | 2005            | Annamalai University             | Annamalai University, Chidambaram         | 83.4       | First Class with Distinction |
| Ph.D.      | Power Electronics                             | 2015            | Anna University                  | Anna University, Chennai                  | -          | -                            |

## **RESEARCH DOMAIN:**

- Power Electronics
- Drives and Control
- PWM techniques

## **INDUSTRIAL EXPERIENCE:**

- Worked as an **ELECTRICAL SUPERVISOR** and well versed in HT switch Gears, Transformer, Industrial Cable Laying and wiring at ONGC. Ltd., MRL Ltd., IBP Ltd., etc., ( Jun 1995 to Aug. 1996) --- **1 Year & 3 Months**

## **TEACHING EXPERIENCE**

| Name of the College                                       | Designation                      | Date of Joining | Date of Relieving | Experience |       |
|-----------------------------------------------------------|----------------------------------|-----------------|-------------------|------------|-------|
|                                                           |                                  |                 |                   | Year       | Month |
| E.G.S. Pillay Engineering College, Nagapattinam           | Lecturer                         | 07.10.1996      | 08.08.2000        | 3          | 10    |
| Bharathiyar College of Engineering & Technology, Karaikal | Assistant Professor/HOD          | 01.12.2001      | 30.10.2008        | 6          | 11    |
| E.G.S. Pillay Engineering College, Nagapattinam           | Principal (i/c), Vice principal  | 31.10.2008      | 30.11.2015        | 7          | 01    |
| E.G.S. Pillay Engineering College, Nagapattinam           | Professor / Director - Academics | 01.12.2015      | Till Date         | 1          | 11    |
| Total Experience                                          |                                  |                 |                   | 19         | 09    |

## **THEORY SUBJECTS HANDLED AT UNDER-GRADUATE LEVEL:**

- Basic Electrical & Electronics Engineering
- Control Systems
- Digital Logic Circuits
- Power Electronics
- Solid State Drives
- Transmission and Distribution
- Electrical Machine Design
- Microprocessors
- Electrical Machines-I
- Electrical Machines-II
- Measurements & Instrumentation
- Electronic Devices
- Linear Integrated Circuits
- Circuit Theory
- Utilization of Electrical Energy
- Special Electrical Machines
- Electromagnetic Theory

## **THEORY SUBJECTS HANDLED AT POST-GRADUATE LEVEL:**

- Design and analysis of Inverters
- Analysis of Power converters
- Solid state DC drives
- Solid state AC drives
- Power Electronics for Renewable Energy Systems

## **NUMBER OF PROJECTS GUIDED:**

UG: 30  
PG: 04

## **RESEARCH PUBLICATIONS:**

JOURNAL: 14

CONFERENCE: 10

## **PAPERS PUBLISHED IN INTERNATIONAL JOURNALS:**

- [1] G.Ganesan@Subramanian, **V.Mohan**, R.Anandaraj, G.Sundaravadivel, "Renewable Energy based air conditioning system for public transports in green environment", *International Society for Green, Sustainable Engineering and Management (ISGSEM)*, Vol.2; Issue: 23 pp. 49-57, December 2015.
- [2] G. Ganesan Subramanian, S. Mahendiravarman, **V. Mohan**, R.Anandaraj, "Implementation of Novel Control Strategies for Interleaved flyback inverter with photovoltaic AC module system", *International Journal of Emerging Technology and Advanced Engineering, (IJETAEE)*, Vol. 5, No. 2, pp. 308-315, Feb. 2015.
- [3] S. Mahendiravarman, G. Ganesan Subramanian, **V. Mohan**, R. Anandaraj, "Implementation of Novel Control Strategies for Interleaved flyback inverter with photovoltaic AC module system", *International Journal of Emerging Technology and Advanced Engineering*, Vol. 5, No. 2, pp. 308-315, Feb. 2015.
- [4] G. Ganesan, Dr.N.P.Subramanian, **V.Mohan**, R.Anandaraj, "A Smart approach to condition monitoring, parameter estimation and execution of WECS using PLC & SCADA", *CiiT International Journal of Autonomous and Automation systems*, vol. 5, No. 5, July 2013.
- [5] **Mohan, V**, Raja, J &Jeevananthan,S2010, 'Frequency domain analysis of adjustable speed drive systems based on transfer switching function', *Asian Power Electronics Journal*, vol. 4, no. 2, pp. 64-69. (Impact Factor- 0.98)
- [6] **Mohan, V**, Raja, J &Jeevananthan,S 2012, 'A random PWM scheme based on coalescing the pseudorandom triangular carrier and the randomized pulse position for voltage source inverters', *CiiT International Journal of Programmable Device Circuits and Systems*, vol. 4, no. 11, pp. 570-574. (Impact Factor- 0.49)
- [7] **Mohan, V**, Stalin, N &Jeevananthan,S 2015, 'A tactical chaos based PWM technique for distortion restraint and power spectrum shaping in induction motor drives', *International Journal of Power Electronics and Drive System*, vol. 5, no. 3, pp. 383-392. (Impact Factor- 1.4084)
- [8] **Mohan, V**, Stalin, N &Jeevananthan,S 2015, 'A double random pulse width modulation based on discrete carrier frequencies and random pulse position for induction motor drives', *International Journal of Applied Engineering Research*, vol. 10, no. 51, pp. 479-484. (Impact Factor- 1.8233)
- [9] N.Bhuvana Shankar, **V.Mohan** and R. Anandaraj, "A Modified SHPWM Method for Multilevel Inverters for Uniform Utilization of Power Electronic Switches", *Intl. Journal of Applied Engineering Research*, Vol.10, No.3, pp: 8365 - 8376, March 2015.
- [10] C. Bharatiraja, Seenithangam Jeevananthan, Ramachandran Latha, **V. Mohan**, 'Vector Selection Approach-Based Hexagonal Hysteresis Space Vector Current Controller for a Three phase Diode Clamped MLI with Capacitor Voltage Balancing', *IET Power Electronics*, Vol. 9, no. 7, pp. 1350-1361, June 2016.
- [11] **Mohan, V**, Chitrakala,G & Stalin, N, 'A Low Frequency PWM Based Multilevel DC-Link Inverter with Cascaded Sources', *Asian Journal of Research in Social Sciences and Humanities*, vol. 7, no. 1, pp. 686-697, January 2017.
- [12] G. Chitrakala, N. Stalin & **V. Mohan**, "A Novel Programmed Low Frequency PWM Method for Performance Enhancement of Single Phase to Single Phase Cycloconverter", *CiiT International Journal of Digital Image processing*, vol. 9, no. 2, pp. 39-46, Feb. 2017.
- [13] G. Ganesan Subramanian, **V. Mohan**, S. Sivamani & G. Sundaravadivel, "Solar Powered Street Sweeping Mechanism for Clean India", *International Journal of Recent Technology and Engineering (IJRTE)*, vol. 5, no. 6, pp.11-15, January 2017.
- [14] **Dr. V. Mohan**, Subramanian, S. Sivamani & S. Latha, "Implementation of Novel Spray and Weeding Robot Using Mobile for Agricultural Field", *International Journal of Innovative Research in Technology*, vol. 4, no. 4, pp. 27-31, September 2017.

## **PAPERS PRESENTED/ PUBLISHED IN CONFERENCES:**

- [1] **Mohan, V**, Raja, J &Jeevananthan, S 2010, ‘Chaos-based PWM Strategies for suppression of harmonics in dc-ac power conversion’, *Proceedings of International Conference on Recent Advancements in Electrical Sciences (ICRAES’10)*, K.S.R. College of Engineering, Tiruchengode, Tamil nadu, India, vol. 1, pp. 536-546.
- [2] **Mohan, V**, Raja, J, Venkatesh, CH &Jeevananthan, S 2011, ‘Adaptive LMS algorithm based input current harmonic suppression in AC-DC-AC drive with either constant or pulsed DC link”, *Proceedings of 46<sup>th</sup> International Universities Power Engineering Conference (UPEC 2011)*, South Westphalia University of Applied Sciences, Soest, Germany, pp. 168-172.
- [3] G.Ganesan@Subramanian, V.Anandakumar, **V.Mohan** & S.Sivamani, “Implementation of New Control Technique for Interleaved Flyback Inverter Based PV System”, *Proceedings of International conference on Advances in Engineering & Technology (ICAET’14)*, May 2014
- [4] G. Ganesan@Subramanian, **V.Mohan**, S.Sivamani & S.Latha, “Implementation of Fault Diagnosing Technique for Replacing Damaged Power Device in Induction Motor Drive”, *Proceedings of International conference on Advances in Engineering & Technology (ICAET’14)*, May 2014.
- [5] G. Ganesan, K.Jayaprakash, **V.Mohan** & R.Anandaraj, “Hysteresis Current Controlled Single Phase Inverters for PV Systems”, *Proceedings of International Conference on Innovative research in Engineering and Technology (ICIRET 2014)*, May 2014
- [6] G.Ganesan@Subramanian, **V.Mohan**, B.Aarthi & T.Suresh Padmanabhan, “Design and Analysis of Energy Efficient Brushless DC Motor Maxwell”, *Proc. of Intl. Conference on Energy and Environmental Engineering (ICEEE 2014)*, pp. 22, Nov. 2014
- [7] B.Aarthi, **V.Mohan**, G.Ganesan@Subramanian & R.Anandaraj, “Synchro phasor Measurement for Voltage Stability Assessment in Smart Grid”, *Proc. of Intl. Conference on Energy and Environmental Engineering (ICEEE 2014)*, pp. 23, Nov. 2014
- [8] G. Ganesan, **V.Mohan**, S.Sivamani & Vijay, “A Novel Fault Tolerant Strategy In Induction Motor Drive Using IGBT”, *Proc. of IEEE –International Conference on Research and Development prospects on Engineering and Technology (ICRDPET 2013)*, Vol. 2, pp.104-108, March 2013.
- [9] **Mohan, V**, Jeevananthan, S & Raja, J 2012, ‘An on-line adaptive filtering for selective elimination of dominant harmonics from line currents of a VSI fed drive using recursive least square algorithm’, *Proceedings of IEEE International Conference on Advances in Engineering, Science and Management (ICAESM-12)*, EGS Pillay Engineering College, Nagapattinam, India, vol. 3, pp. 773-778, Paper number:EE134.
- [10] **Dr.V. Mohan**, G. Chitrakala & N. Stalin, “A Novel Programmed Low Frequency PWM Method for Performance Enhancement of Single Phase to Single Phase Cycloconverter”, International Conference on Contemporary Topics in Power Engineering and Aiding Technologies (ICCPEAT’2017), Pondicherry Engineering College, Puducherry, India, 24,25 Feb. 2017.

### **FUNDED PROJECTS:**

| S.No. | Funding Agency                                                        | Title                                                                                                            | Grant Details                                                         | Amount       | Status                      |
|-------|-----------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------|--------------|-----------------------------|
| 1     | All India Council for Technical Education (AICTE), New Delhi          | Modernization of Power Electronics Lab (MODROBS)                                                                 | Ref.No: 9-125/RIFD/ MODROB / Policy-1/2016-17                         | Rs. 8,00,000 | Ongoing                     |
| 2     | The Institution of Engineers (India), Kolkata R&D grant in aid scheme | Solar Powered street sweeping mechanism for clean India                                                          | Ref.No: R.4/2/UG/16-17<br>Date: 26.07.2016<br>Project ID: RDUG2007003 | Rs. 42,010   | Completed on 21.11.2016     |
| 3     | The Institution of Engineers (India), Kolkata R&D grant in aid scheme | Implementation of novel spray and weeding robot using mobile control for agriculture field                       | Project ID: RDUG2016227                                               | Rs. 40,020   | Completed 2017              |
| 4     | The Institution of Engineers (India), Kolkata                         | Two days lecture workshop Challenges & Opportunities in Power Electronics Research (CHOPPER)                     | -----                                                                 | Rs. 20,000   | Completed 21, 22 April 2017 |
| 5     | ONGC, Neravy, karaikal, Puducherry (UT)                               | 'SECURE'- An awareness program on Electrical energy safety and conservation (For the benefit of school students) | —                                                                     | Rs. 50,000   | Completed 2005              |

### **PROJECT PROPOSAL ATTEMPTED:**

| S.No | Funding Agency | Title                                                                                         | Amount    | Date       |
|------|----------------|-----------------------------------------------------------------------------------------------|-----------|------------|
| 1    | DST/TSD        | Adaptive Current Harmonic Cancellation In An AC-DC-AC Drive Using LMS Algorithm               | 18,24,800 | 16-03-2015 |
| 2    | AICTE-RPS      | Performance Enhancement Of AC-DC-AC Converter Fed Drives Using Intelligent Control Strategies | 14,86,400 | 10-01-2017 |

### **RESEARCH GUIDANCE (Ph.D.):**

- Four scholars are doing research (Ph.D.) under my supervision at Anna University, Chennai.
- Four scholars have applied for Ph.D. under my supervision at Anna University, Chennai for January 2018 session.

### **INTERACTION WITH OTHER UNIVERSITIES / INSTITUTES**

- Recognised Research Supervisor of Anna University, Chennai from 2016 onwards
- Setting Question papers for other universities
- Anna University - Exam Squad Member
- Reviewer for International Journals

### **MEMBERSHIP IN PROFESSIONAL SOCIETIES:**

| SL. NO. | PROFESSIONAL BODY                                                  | MEMBERSHIP NO. | MEMBERSHIP STATUS |
|---------|--------------------------------------------------------------------|----------------|-------------------|
| 1       | CSTA - Computer Science Teachers Association                       | 2610446        | Life Member       |
| 2       | IAENG - International Association of Engineers                     | 166332         | Life Member       |
| 3       | IRED - Institute of Research Engineers and Doctors                 | SNM10100054807 | Senior Member     |
| 4       | IEI - The Institution of Engineers (India)                         | M-150783-9     | Member            |
| 5       | ISTE - Indian Society for Technical Education                      | LM 33185       | Life Member       |
| 6       | IET - Institution of Engineering and Technology                    | 1100501812     | Member            |
| 7       | IETE - The Institution of Electronics & Telecommunication Engineer | F 500550       | Fellow            |