Dr. P. RAMA MOHAN

Phone: 9849809510
E-mail: rammohan.kadapa@gmail.com

Professional Qualification

- Ph.D. (Power Electronics & Drives) at JNTU Anantapur, Andhra Pradesh in June 2017.
- Master of Technology (Power Electronics) at BMSCE College, Bangalore, Karnataka passed in 2002 Securing 72.4%.
- Bachelor of Engineering (Electrical & Electronics) at Sir MVIT College, Bangalore, Karnataka passed in 1999 Securing 74.8%.
- Intermediate (MPC) at Government College for Men, Kadapa, Andhra Pradesh passed in 1995 Securing 80.9%.
- 10^{th}Class at Municipal High School, Gandhinagar, Kadapa, Andhra Pradesh passed in 1993 Securing 81.1%.

Working Experience (21 Years)

- As Assistant Professor at Bharat Institute of Engineering & Technology, Hyderabad, Telangana from 03.04.2023 to till date
- As Associate Professor at RGM College of Engineering & Technology (Autonomous), Nandyal, Andhra Pradesh from 30.06.2016 to 31.03.2023 (7 Years)
- As Associate Professor & HOD at Sri Prakash College of Technology, Diwancheruvu, Rajahmundry, East Godavari District, Andhra Pradesh from 05.06.2009 to 29.06.2016. (7 Years)
- As Associate Professor & HOD at Sri Vasavi Institute of Engineering and Technology, Nandamuru, Near Machilipatnam, Krishna District, Andhra Pradesh from 14.06.2008 to 04.06.2009. (1 Year)
- As Associate Professor & HOD at Aditya Engineering College, Surampalem, Near Rajahmundry, East Godavari District, Andhra Pradesh from 05.06.2007 to 13.06.2008. (1 Year)
- As Assistant Professor at G. Pulla Reddy Engineering College (Autonomous), Kurnool, Andhra Pradesh from 18.06.2003 to 04.06.2007 (4 Years)
- As Lecturer at G. Pulla Reddy Engineering College (Autonomous), Kurnool, Andhra Pradesh from 24.06.2002 to 17.06.2003 (1 Year)

- As Project Trainee at Indian Space Research Organization (ISRO), Bangalore from December 2001 to May 2002 (6 Months).

Other Details

Member of Institution of Engineers (India) (AM094415-5)

Member of ISTE(LM39899)

Member of Kurnool District Technical Forum (LM014)

Incharge Principal at Sri Prakash College of Technology, Diwancheruvu, Rajahmundry, East Godavari District, Andhra Pradesh during the Academic Year 2015-2016.

Incharge of all inspection works (AICTE, JNTU and Taskforce Inspections), Incharge of all electrical works (Electrification and Maintenance), Establishment of all EEE Labs at Sri Prakash College of Technology, Diwancheruvu, Rajahmundry, East Godavari District, Andhra Pradesh.

Member of Board of Studies (BOS) at G. Pulla Reddy Engineering College, Kurnool, Andhra Pradesh for the Academic Years 2005-2006 and 2006-2007.

College Coordinator for the Extra Curricular Activities at G. Pulla Reddy Engineering College, Kurnool, Andhra Pradesh for the Academic Years 2005-2006 and 2006-2007.

Published a Book "ZVT Based Resonant Converter: Analysis & Applications" with LAP LAMBERT Academic Publishers on 21.04.2012

Published an Indian Patent "Method to improve renewable energy system efficiency by smart grid" on 05.11.2021 (Application No.: 202141042895)

Published an Indian Patent "A smart travel gadget for instant beveraging" on 07.04.2023 (Application No.: 202331020181

Ph.D. Research Work "Performance Improvement of Vector Controlled Induction Motor Drive" done at JNTU Anantapur, Andhra Pradesh.

M.Tech. Project Work "Design and Development of Power Factor Correction Converter with Boost Topology"done at ISRO, Bangalore

B.Tech. Project Work "Design of various types of insulators for different climate conditions" done at CPRI, Bangalore

Supervising two Ph.D. students who are registered under JNTU, Anantapur.
MATLAB/SIMULINK, ORCAD – PSPICE, PSIM

Subjects Handled

- **For M.Tech. Students:**
  - Power Semiconductor Devices
  - Power Supply Systems
  - Industrial Applications of Power Electronics
  - Analysis of Power Electronic Converters
- **For B.Tech. Students:**
  - Power Electronics
  - Power Semiconductor Drives
  - Renewable Energy Sources
  - Electrical Machines
  - Electrical Circuits
  - Basic Electrical Engineering

Technical Papers in Journals

No. of Technical Papers Published in Journals are 20
Web Of Science (SCI/SCIE/ESCI) – 4
Scopus – 6
Others – 10

Technical Papers in Conferences

No. of Technical Papers Presented at Conferences are11
IEEE – 6
Others – 5

Professional References

Dr. M. Vijaya Kumar
Professor, Electrical Engineering Department
&Registrar, JNTU, Anantapur, Andhra Pradesh
Phone: 9440780899 e-mail: mvk_2004@rediffmail.com

Dr. T. Bramhananda Reddy
Professor, EEE Department,
G. Pulla Reddy Engineering College, Kurnool, Andhra Pradesh
Phone: 9966655504 e-mail: tbnr@rediffmail.com

Personal Details

Name: Dr. P. Rama Mohan
Date of Birth: 12.06.1978
Marital Status: Married
Phone Number: 9849809510
E-Mail ID: rammohan.kadapa@gmail.com

Paper Publications

Web of Science Author ID: AAZ-1692-2020

SCOPUS Author ID: 24776757000
Orcid ID: 0000-0003-4259-5324

- P. Rama Mohan et.al. "An Enhanced Z-Source Switched MLI Capacitor for Integrated Micro-Grid with Advanced Switching Pattern Scheme" published in "Engineering, Technology & Applied Science Research (ETASR) Journal", Volume 12, Issue 4, August 2022, pp. 8936 - 8941.
  (ISSN No.: 1792-8036) (www.etasr.com)
  (https://doi.org/10.48084/etasr.4909)
  (Web of Science)

- P. Rama Mohan et.al. "Load Frequency Control for A Deregulated Power System using Particle Swarm Optimization" published in "Journal of Xi'an University of Architecture & Technology", Volume 14, Issue 8, August 2022 pp. 438-445.
  (ISSN No.: 1006 – 7930) (www.xajzkjdx.cn)
  (https://www.xajzkjdx.cn/Vol-14-Issue-8-2022/)
  (Scopus)

- P. Rama Mohan "A Novel Solar Power based Liquid Sprayer for Agricultural, Environmental and Health Care Applications" presented at "IEEE International ConferenceICAIS2021"conducted at "JCT College of Engineering and Technology, Coimbatore, Tamil Nadu, India" during 25.03.2021 to 27.03.2021.
  (https://ieeexplore.ieee.org/document/9395876)
  (Scopus)

- P. Rama Mohan et.al. "A Novel Over Voltage and Under Voltage Protecting Systemfor Industrial and Domestic Applications", published in "International Journal of Innovative Science and Research Technology", Volume 5, Issue 10, October 2020, pp. 885-889.
  (ISSN No.: 2456-2165) (www.ijisrt.com)
  (https://ijisrt.com/assets/upload/files/IJISRT20OCT461.pdf)
  (Google Scholar)

- P. Rama Mohan et.al. "A Novel Over Voltage and Under Voltage Protecting System for Industrial and Domestic Applications", presented at "AICTE Sponsored National Conference NCAPEC 2020" conducted at "RGM College of Engineering & Technology, Nandyal, Andhra Pradesh, India" on 03.10.2020.
  (ISBN No.: 978-81-942685-1-2)

- P. Rama Mohan et.al. "A new three phase Multilevel Inverter Topology with Symmetrical and Asymmetrical Algorithms" published in "Test Engineering & Management", Volume 82, Issue 1, January 2020, pp. 8633 - 8644.
  (ISSN No.: 0193-4120) (www.testmagzine.biz)
  (http://www.testmagzine.biz/index.php/testmagzine/article/view/2205)
  (Scopus)
- P. Rama Mohan et.al. "Series Voltage Regulator for a Distribution Transformer to Compensate Voltage Sag/Swell", presented at "AICTE Sponsored National Conference NCRTEE – 2019" conducted at "RGM College of Engineering & Technology, Nandyal, Andhra Pradesh, India" on 19.10.2019.

(ISBN No.: 978-81-1942685-0-5)

- P. Rama Mohan et.al. "Novel Scalar PWM Techniques for Vector Control based Induction Motor Drives to Reduce Common Mode Voltage" published in "Journal of Mechanics of Continua and Mathematical Sciences", Special Issue on Advances in Engineering, Management and Sciences Issue 3, September 2019, pp. 52-67.
  (ISSN No.: 2454-7190) (www.journalimcms.org)
  (https://doi.org/10.26782/jmcms.spl.3/2019.09.00005)
  (Web of Science)

- P. Rama Mohan et.al. "A Novel PWM Technique for Multilevel VSI fed Vector Controlled Drives based on Universal Offset Time Expression" published in "Journal of Mechanics of Continua and Mathematical Sciences", Special Issue on Advances in Engineering, Management and Sciences, Issue 3, September 2019, pp. 82-96.
  (ISSN No.: 2454-7190) (www.journalimcms.org)
  (https://doi.org/10.26782/jmcms.spl.3/2019.09.00007)
  (Web of Science)

- P. Rama Mohanet.al. "Multi Carrier based Generalized PWM Technique for Reduction of Common Mode Voltage", published in "Journal of Electrical Engineering",Volume 17, Issue 2, April 2017, pp. 218-223.
  (ISSN No.: 1582-4594) (www.jee.ro)
  (http://193.226.10.140/index.php/jee/article/view/WW1465984165W576124a5c00b3)
  (Google Scholar)

- P. Rama Mohanet.al. "Generalized Scalar PWM Algorithms for Diode Clamped Multilevel Inverter Fed Vector Controlled Drives", published in "Acta Electrotechnica Et Informatica", Volume 16, Issue 4, December 2016, pp. 27-36.
  (ISSN No.: 1335-8243) (www.aei.tuke.sk)
  (https://doi.org/10.15546/aeei-2016-0029)
  (Google Scholar)

- P. Rama Mohanet.al. "A Simple Generalized PWM Algorithm for ThreePhase Voltage Source Inverter fed ACDrives" published in "International Review of Electrical Engineering", Volume10, Issue2, March-April 2015, pp. 180-188.
  (ISSN No.: 1827-6660) (www.praiseworthyprize.org/jsm/?journal=iree)
  (https://doi.org/10.15866/iree.v10i2.4916)
  (Scopus)

- P. Rama Mohan et.al. "A Simple Generalized Pulse Width Modulation Algorithm for Vector Control based Voltage Source Inverter fed Induction Motor Drives" presented at "IEEE International Conference AICERA/iCMMD2014" conducted at "Amal Jyothi

College of Engineering, Kanjirapally, KottayamDistrict, Kerala, India" during 24.07.2014 to 26.07.2014.
(https://ieeexplore.ieee.org/document/6908274)
(Web Of Science) (Scopus)

- P. Rama Mohan et.al. "A High Performance PWM Algorithm for Vector Controlled Induction Motor Drive for Reduced Current Ripple", presented at "IEEE International Conference ICRAIE2014" conducted at "Poornima University, Jaipur, Rajasthan, India" during 09.05.2014 to 11.05.2014.
(https://ieeexplore.ieee.org/document/6909205)
(Web Of Science) (Scopus)

- P. Rama Mohanet.al. "Simple and Efficient High Performance PWM Algorithm for Induction Motor Drives" published in "Journal of Electrical Engineering", Volume11, Issue 4, October 2011, pp.23-30.
(ISSN No.: 1582-4594) (www.jee.ro)
(http://193.226.10.140/index.php/jee/article/view/WP1285906331W4ca55f9bee930)
(Scopus)

- P. Rama Mohanet.al. "A Novel Zero Voltage Transition (ZVT) Technique based Closed Loop Control of Boost Power Factor Correction (PFC) Converter with EMI Filter", published in "Journal of the Institution of Engineers (IEI India)", Volume 90, September 2009, pp.13-15.
(ISSN No.: 0020-3386) (www.ieindia.org)
(Scopus)

- P. Rama Mohan et.al."Simulation of a Boost PFC Converter with Electro Magnetic Interference Filter" published in "International Journal of Electrical and Computer Engineering", Volume 2, Issue 10, October 2008, pp. 2317 - 2321.
(ISSN No.: 1307-6892) (www.waset.org)
(https://publications.waset.org/3818/pdf)
(Google Scholar)

- P. Rama Mohan et.al."Regulation of Output Voltage for line side and load side disturbances in Power Factor Correction Boost Converter with EMI Filter" published in "Journal of Electrical Engineering", Volume 8, Issue 2, June 2008, pp. 65 - 69.
(ISSN No.: 1582-4594) (www.jee.ro)
(http://193.226.10.140/index.php/jee/article/view/WP1195747116W4745a72c41664)
(Google Scholar)

- P. Rama Mohan et.al."A Novel Boost Power Factor Correction (PFC) Converter employing Zero Voltage Switching (ZVS) based Compound Active Clamping (CAC)

technique with EMI Filter" published in "Journal of Semiconductor Technology and Science", Volume 8, Issue 1, March 2008, pp. 85 - 91.
(ISSN No.: 1598-1657) (www.jsts.org)
(https://doi.org/10.5573/JSTS.2008.8.1.085)
(Google Scholar)

- P. Rama Mohanet.al. "Simulation of a novel ZVT technique based Boost PFC Converter with EMI Filter" published in "World Journal of Modelling and Simulation", Volume 4, Issue 1, February 2008, pp.49 - 56.
(ISSN No.: 1746-7233) (www.wjms.org.uk)
(http://www.worldacademicunion.com/journal/1746-7233WJMS/wjmsVol04No01paper06.pdf)
(Scopus)

- P. Rama Mohan et.al. "A novel topology of EMI Filter to suppress Common Mode and Differential Mode noises of Electro Magnetic Interference in Switching Power Supplies" presented at "IEEE IET-UK International Conference ICTES2007"conducted at "Dr.MGR University, Chennai, Tamil Nadu, India" during 20.12.2007 to 22.12.2007.
(https://ieeexplore.ieee.org/document/4735834)
(Scopus)

- P. Rama Mohan et.al. "Simulation of a novel Zero Voltage Transition (ZVT) technique based Boost Power Factor Correction (PFC) converter with EMI Filter" presented at "AMSE International ConferenceMS2007" conducted at "University of Calcutta, Kolkata, West Bengal, India" during 03.12.2007 to 05.12.2007.

- P. Rama Mohan et.al."A Novel EMI Filter to suppress CM and DM noises of EMI in ZVT technique based Boost PFC Converter" published in "International Review of Electrical Engineering" Volume 2, Issue 4, August 2007, pp. 473 - 479.
(ISSN No.: 1827-6660) (www.praiseworthyprize.org/jsm/?journal=iree)
(https://www.praiseworthyprize.org/latest_issues/IREE-latest/IREE_vol_2_n_4.html)
(Web Of Science)

- P. Rama Mohan et.al. "Simulation of a novel zero voltage transition technique based on boost power factor correction converter with EMI filter", published in "ARPN Journal of Engineering and Applied Sciences", Volume 2, Issue 4, August 2007, pp. 1 - 5.
(ISSN No.1819-6608) (http://www.arpnjournals.com/jeas)
(http://www.arpnjournals.com/jeas/research_papers/rp_2007/jeas_0807_51.pdf)
(Google Scholar)

- P. Rama Mohan et.al. "A novel topology of EMI filter to suppress common mode and differential mode noises of electromagnetic interference in switching power supplies",

published in “ARPN Journal of Engineering and Applied Sciences”, Volume 2, Issue 4, August 2007, pp. 32 - 35.
(ISSN No.1819-6608) (http://www.arpnjournals.com/jeas)
(http://www.arpnjournals.com/jeas/research_papers/rp_2007/jeas_0807_56.pdf)
(Google Scholar)

- P. Rama Mohan et.al. “A Novel Microcontroller Based Power Factor Correction (PFC) Boost Converter with EMI Filter”, published in “International Journal of Electrical and Power Engineering”, Volume 1, Issue 1, January 2007, pp. 99 - 103.
(ISSN No.:1990-7958 Print, 1993-6001 Online)(www.medwelljournals.com)
(https://medwelljournals.com/abstract/?doi=ijepe.2007.99.103)
(Google Scholar)

- P. Rama Mohan et.al. “Novel Zero Voltage Transition (ZVT) Technique Based Closed Loop Control of Boost Power Factor Correction (PFC) Converter with EMI Filter”, published in “International Journal of Electrical and Power Engineering”, Volume 1, Issue 1, January 2007, pp.104 - 107.
(ISSN No.:1990-7958 Print, 1993-6001 Online)(www.medwelljournals.com)
(https://medwelljournals.com/abstract/?doi=ijepe.2007.104.107)
(Google Scholar)

- P. Rama Mohan et.al. “A Novel Electro Magnetic Interference (EMI) Filter to mitigate Electro Magnetic Interference in a Zero Voltage Transition (ZVT) Technique based Boost Power Factor Correction Converter” presented at “IEEE International Conference ICIT 2006” conducted at “IITBombay, Mumbai, India”during 15.12.2006 to 17.12.2006.
(https://ieeexplore.ieee.org/document/4237820)
(Web Of Science) (Scopus)

- P. Rama Mohan et.al. “A Novel High Performance Boost Power Factor Correction (PFC) Converter with an improved Zero Voltage Transition (ZVT) technique” presented at “IEEE International Conference ICIT 2006” conducted at “IIT Bombay, Mumbai, India” during 15.12.2006 to 17.12.2006.
(https://ieeexplore.ieee.org/document/4237819)
(Web Of Science) (Scopus)

- P. Rama Mohan et.al. “A novel Electro Magnetic Interference Filter (EMI) for a Power Electronic Power Factor Correction Circuit” presented at “National Conference EAR 2005” conducted at “JNTU College of Engineering, Anantapur, Andhra Pradesh, India” on 10.12.2005.

- P. Rama Mohan et.al. “Power Factor Correction in AC – DC Converters with Boost Topology” presented at “National Conference EAR 2004” conducted at “JNTU College of Engineering, Anantapur, Andhra Pradesh, India” on 04.12.2004.

Training Programs Attended

- AICTE ATAL Faculty Development Program on "VR/AR Applications in Engineering Education" conducted at "G.Pulla Reddy Engineering College, Kurnool, Andhra Pradesh" during 20.09.2021 to 24.09.2021 (5 Days).

- AICTE ATAL Faculty Development Program on "EV & Charging Infrastructure" conducted at "National Power Training Institute – Power Systems Training Institute, Bangalore, Karnataka" during 26.07.2021 to 30.07.2021 (5 Days).

- AICTE ATAL Faculty Development Program on "Sensors Technology" conducted at "NITTTR, Chandigarh" during 21.09.2020 to 25.09.2020 (5 Days).

- APSCHE Associated Workshop on "Modern Methods for Teaching – Learning Practices" conducted at "Krishna University, Machilipatnam, Andhra Pradesh" during 12.05.2020 to 13.05.2020 (2 Days).

- AICTE Sponsored Short Term Training Program on "Advanced Power Electronics Control of Integrated Renewable Energy Systems" conducted at RGM College of Engineering & Technology, Nandyal, Andhra Pradesh during 14.10.2019 to 19.10.2019 (6 Days).

- AICTE NPTEL Faculty Development Program on "Fundamentals of Electric Drives" during 29.07.2019 to 29.09.2019 (8 Weeks).

- DST-SERB Sponsored National Level Workshop on "Smart & Green Technologies for Sustainable Energy" conducted at "Koneru Lakshmaiah Education Foundation (KLU), Guntur, Andhra Pradesh" during 19.12.2017 to 20.12.2017 (2 Days).

- AICTE Sponsored National Level Seminar on "Photovoltaic Inverters with Stand Alone Systems" conducted at "Rajeev Gandhi Memorial College of Engineering & Technology, Nandyal, Andhra Pradesh" during 06.10.2017 to 07.10.2017 (2 Days).

- AICTE – ISTE Sponsored Short Term Training Program on "Simulation of Power and Power Electronic Systems using PSCAD, ETAP and MATLAB/SIMULINK" conducted at "Karunya Institute of Technology, Coimbatore, Tamil Nadu" during 24.05.2004 to 04.06.2004 (2 Weeks).

- MHRD – TTTI Sponsored Short Course on "Improving Teaching Skills" conducted at "G. Pulla Reddy Engineering College, Kurnool, Andhra Pradesh" during 16.03.2004 to 18.03.2004 (3 Days).