

CURRICULUM VITAE

Dr. RAJENDER NAIK GUGULOTH

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➤ OBJECTIVE -

I look forward to associate myself with an organization where there is an opportunity to share, contribute and upgrade my knowledge for the development of self and the organization.

➤ EDUCATIONAL QUALIFICATIONS -

- ✓ Awarded Doctoral degree (*Ph. D.*) in Electronics & Instrumentation Engineering from Kakatiya University, Warangal during June 2017.
- ✓ Awarded *M. Tech.* in Instrumentation & Control Systems from National Institute of Technology, (*N.I.T*) Calicut, Kerala with an aggregate of **70%** in 2009.
- ✓ Awarded *B. Tech.* in Electrical & Electronics Engineering from Kakatiya Institute of Technology & Science, Warangal, with an aggregate of **67.8%** in 2005.
- ✓ Intermediate Education from A.P.R.J.C., Nagarjuna Sagar with an aggregate of **78.3** in 2001.
- ✓ Secondary School Certificate from St. Joseph's High School, Nagarjuna Sagar with an aggregate of **70%** in 1999.

➤ WORK EXPERIENCE -

- ✓ Working as a **Guest faculty** at **University College of Engineering, Satavahana University, Husnabad** since **August 2025**.
- ✓ Served as an **Associate Professor** in the department of **Electrical & Electronics Engineering** at **Kakatiya Institute of Technology & Science, Warangal** from March, 2019 to June 2024.
- ✓ Served as an **Assistant Professor** in the department of **Electrical & Electronics Engineering** at **Kakatiya Institute of Technology & Science, Warangal** from 7th June, 2008 to Feb, 2019.

➤ ADMINISTRATIVE RESPONSIBILITIES -

- ✓ Served as **Additional Controller of Examinations (Confidential)** from September 2022 to November 2023.
- ✓ Served as **Additional Controller of Examinations (Conduction)** from September 2019 to September 2022.
- ✓ Served as **In-charge and established new Basic Electrical Engineering Laboratory** during AY 2018-19.
- ✓ Served as **Chairman and Convenor** for Various Criteria during 4 NBA committee visits and 1 NAAC committee visit.

- ✓ **Organized** student level national technical symposiums during 2010, 2011, 2014 and 2016.
- ✓ **Member, Board of Studies**, Dept. of EEE, KITSW.

➤ **AWARDS & GRANTS -**

1. Received AICTE **grant of Rs. 9,40,000/-** for conduction of PRERANA programming during AY 2019-20. The Programme has been successfully conducted and submitted utilization certificate during June 2022.
2. Awarded as **“Best Research Paper Presentation”** in International Conference on Technological Advancement in Science, Engineering, Management & Pharmaceutics (ICTASEMP-2021), organized by Holy Mary Institute of Technology & Science in association with IFERP during 15th-16th July, 2021.

➤ **ACADEMIC RESPONSIBILITIES -**

THEORY SUBJECTS HANDLED -

1. *Electrical Technology* for II/IV E.I.E., E.C.E.
2. *Basic Electrical Engineering* for II/IV C.S.E., E.E.E., I.T. & Mechanical Eng'g.
3. *Advanced Control Systems* for IV/IV E.E.E.
4. *A.I. Techniques in Electrical Engineering* for IV/IV E.E.E.
5. *Modern Control Theory* for M. Tech (Power Electronics), I-Sem.
6. *Control Systems Engineering* for III/IV E&IE.
7. *Rural Technology and Community Development (Open Elective)* for III/IV EEE.
8. *Artificial Intelligence Applications for Electrical Engineering for IV/IV EEE.*
9. *Network Analysis for II/IV ECE*
10. *Electric Vehicles for III/IV EEE*

LABORATORIES HANDLED -

1. *Basic Electrical Engineering Lab* for II/IV E.E.E., C.S.E. & I.T.
2. *Control Systems Lab* for III/IV E.E.E.
3. *Electrical Measurements Lab* for II/IV E.E.E.
4. *Networks Lab* for II/IV E.E.E.

➤ **B. TECH (U.G) PROJECTS HANDLED -**

1. **'Position and Velocity Control of Hybrid Stepper Motor using Fuzzy Logic Controller'**, for the academic year 2008-2009.
2. **'D.C. Motor Control using Chopper'**, for the academic year 2010-2011.
3. **'Touch Screen Based Control of D.C. Motor'**, for the academic year 2010-2011.
4. **'Minimization of Torque Ripple in DTC of Induction Motor using Fuzzy Mode Duty Cycle Controller'**, for the academic year 2011-2012.
5. **'An Electronic Navigation System for Live Tracking & Recording Temperature'**, for the academic year 2012-2013.

6. **'Comparative Analysis of Position Control of Stepper Motor using Various Controllers'**, for the academic year 2013-2014.
7. **'Comparative Analysis of Torque Responses of PMSM using PID and Fuzzy Controllers'**, for the academic year 2013-2014.
8. **'Comparative Analysis of Wind Energy Production System using Conventional and Fuzzy Controllers'**, for the academic year 2014-2015.
9. **'Reduction of Energy Storage Requirements using Electric Springs in Microgrid Applications'**, for the academic year 2014-2015.
10. **'Fuzzy Logic Control of Wind Energy Conversion System'**, for the academic year 2015-2016.
11. **'Automatic Solar Tracking using LDR with Real Time Application'**, for the academic year 2015-2016.
12. **'Comparative Analysis of DC Motor Speed Control using Conventional Controller and Artificial Neural Networks'**, for the academic year 2016-2017.
13. **'Microcontroller Based Traffic Control Scheme using Wireless Communication'**, for the academic year 2016-2017.
14. **'Design of electronic controlled speed control of single phase I.M.'** for the academic year 2017-18.
15. **'Solar Water Pumping System'** for the academic year 2018-19.
16. **'Power Electronic Converters for Wind Turbines'** for the academic year 2018-19.
17. **'L.E.D Lightening System Powered by Microgrid Using Power Electronic Converter'** for the academic year 2019-20.
18. **"Performance Analysis of Static VAR Compensator for reducing Sub-Synchronous Resonance Oscillations"** for the academic year 2019-20.
19. **"Efficient Intelligent Controller for Heat Exchanger System"** for the academic year 2020-21.
20. **"Fractional Ordered Systems Stability using FOTF Viewer"** for the academic year 2020-21.
21. **"Rapid Comparative Analysis of Switched Mode Converter Using Conventional and Intelligent Controllers"** for the academic year 2022-23.

➤ **M. TECH (P.G) PROJECTS HANDLED -**

1. **"Position Control and Stability Analysis of Ball and Beam System using Fractional Ordered Controller"** for the academic year 2022-23.
2. **'S-Domain Stability Analysis of Boost DC-DC Converter'** for the academic year 2021-2022.
3. **"Modeling & Simulation of 10MW Photovoltaic Power Plant Using MATLAB-Simulink"** for the academic year 2019-20.
4. **'Power Quality Analysis in Electric Traction System with Three-Phase Induction Motor'** for the academic year 2018-2019.
5. **'Sensorless Predictive Current Control of SVPWM Inverter Fed Induction Motor'** for the academic year 2016-2017.
6. **'Power Electronic Control for Various Topologies of Wind Turbine Systems'**, for the academic year 2014-2015.

➤ PAPERS PRESENTED IN CONFERENCES -

1. **G. Rajender Naik**, M. Nikitha, "Application of Python Programming in Control Systems", 7th IEEE International Conference on Inventive Computation Technologies (ICICT 2024), organized by Tribhuvan University, Nepal during 24-26 April, 2024. Pg. 1976-1981. ISBN: 979-8-3503-5928-2.
2. **G. Rajender Naik**, V. Manasa, M. Pavan Kalyan, Ch. Roshan and S. Sai Akshith, "*Rapid Comparative Analysis of Switched Mode Converter Using Conventional and Intelligent Controllers*", Fourteenth International Conference on Advances in Communication, Network and Computing - CNC 2023 organized by Association of Computer, Electrical & Electronics Communication Engineers, held during June 28-29, 2023 in Bengaluru, India.
3. **G. Rajender Naik**, M. Sai Kiran Kumar Reddy, "*Fractional Ordered Systems Stability using FOTF Viewer*", International Conference on Technological Advancement in Science, Engineering, Management & Pharmaceuticals (ICTASEMP-2021), organized by Holy Mary Institute of Technology & Science in association with IFERP during 15th-16th July, 2021, Pg. 78-83, ISBN: 978-81-951121-8-0.
4. **G. Rajender Naik**, Thallapally Santhoshi, "*Efficient Intelligent Controller for Heat Exchanger System*", International Conference on Technological Advancement in Science, Engineering, Management & Pharmaceuticals (ICTASEMP-2021), organized by Holy Mary Institute of Technology & Science in association with IFERP during 15th-16th July, 2021, Pg. 210-214, ISBN: 978-81-951121-8-0.
5. **G. Rajender Naik**, K. Ashoka Reddy, "*An Efficient Filtering Method and Integrated Peak Analyzer for ECG Analysis*", International Conference on Electrical, Communication, Electronics, Instrumentation and Computing (ICECEIC-2019) organized by Sri Chandrashekarendra Saraswathi Vishwa Maha Vidyalaya, Kanchipuram, Tamil Nadu, during 30th-31st Jan, 2019.
6. **G. Rajender Naik**, K. Ashoka Reddy, "*Effective ECG Arrhythmia Classification using MDL Algorithm*", International Conference on Electrical, Communication, Electronics, Instrumentation and Computing (ICECEIC-2019) organized by Sri Chandrashekarendra Saraswathi Vishwa Mahavidyalaya, Kanchipuram, Tamil Nadu, during 30th-31st Jan, 2019.
7. **G. Rajender Naik**, P. Mahesh, B. Mohan, V. Raghuram Mahathi, "*Robotic System for Recording Ambience Temperature with Live Tracking*", IEEE International Conference on Intelligent Computing and Control Systems (ICCS-2017), held at Vaigai College of Engineering, Madurai, June 15-16, 2017. ISBN: 978-1-5386-2745-7.
8. P. Mahesh, **G. Rajender Naik**, M. Narasimha Rao, "*MRAS Based Predictive Control using Back EMF Estimation for SVPWM Induction Motor*", IEEE International Conference on Power and Embedded Drive Control (ICPEDC'17), Chennai, March 16th - 18th, 2017. ISBN- 978-1-5090-4677-5.
9. P. Mahesh, **G. Rajender Naik**, C. Venkatesh, V. Ramaiah, "*Interfacing using DC-DC High Step-up Non-Transformer Resonant Converter for Grid Connected Non-Conventional Energy Sources*", IEEE International Conference on Science, Technology, Engineering and Management (ICSTEM'17), Coimbatore, March 3rd and 4th, 2017.
10. **G. Rajender Naik**, K. Ashoka Reddy, "*Comparative Analysis of ECG Classification using Neuro-Fuzzy Algorithm and Multimodal Decision Learning Algorithm*", 3rd IEEE International Conference

on Soft Computing and Machine Intelligence (ISCM2016), held at Dubai during Nov 23 – 25, 2016. ISBN: 978-1-5090-3696-7.

11. **G. Rajender Naik**, K. Ashoka Reddy, “*Classification of ECGs using Intensity Weighted Fire-Fly Optimization and Multimodal Decision Learning Algorithm*”, 2nd IEEE International Conference on Computer and Communications (ICCC 2016), Chengdu, China, during Oct 14 – 17, 2016. ISBN: 978-1-4673-9026-2.
12. **G. Rajender Naik**, K. Ashoka Reddy, “*A New Model for ECG Signal Filtering and Feature Extraction*”, 2nd IEEE International Conference on Computer and Communications (ICCC 2016), Chengdu, China, during Oct 14 – 17, 2016. ISBN: 978-1-4673-9026-2.
13. Namani Rakesh, T. Madhav Ram, K. Ajith, **G. Rajender Naik** and P. Nagarjuna Reddy; “*A New Technique to Enhance Output Power from Solar PV Array under Different Partial Shaded Conditions*”; IEEE Conference on Electronic Devices and Solid-State Circuits (EDSSC2015), Jan 2015. ISBN: 978-1-4799-8364-3.
14. A. Vamshi Kumar, K. Ajith, P. Nagarjuna Reddy, **G. Rajender Naik**, N. Rakesh, “*Improved power quality control strategy for distributed generation systems*”, IEEE International Conference on Smart Electric Grid (ISEG), 19-20 Sept. 2014, Pg 1-6. Added to IEEE Xplore on 12 January 2015. ISBN: 978-1-4799-4103-2.
15. P. Nagarjuna Reddy, **G. Rajender Naik**, “*Effect of Various Gas Mixtures on the Movement of Aluminum Particles in a 1- Φ GIB*”, conducted by the departments of ECE & EEE at CMR College of Engineering & Technology, Hyderabad, during 24th -25th Jan, 2014.
16. P. Nagarjuna Reddy, **G. Rajender Naik**, K. Uday Kiran, “*Effect of SF₆ and CF₄ gas mixture on the movement of aluminum particles in a Gas Insulated Bus Duct*”, International Academic Conference on Electrical, Electronics and Computer Engineering (IACEECE), Institute of Research and Journals, Hyderabad on 22nd Sep, 2013.
17. **G. Rajender Naik**, “*Design, Study & Performance Evaluation of an Electronic Navigation System*”, Silver Jubilee Conference on Communication Technologies and VLSI Design (CommV’09), VIT University, Vellore, 08-10 Oct, 2009.

➤ JOURNAL PUBLICATIONS -

1. **G. Rajender Naik**, “*Adaptive PID Tuning via Dynamic Root Locus for Real-Time Drone Altitude Control*”, *Journal of Electrical Systems*, ISSN: 1112-5209, February 2026. (Received Acceptance).
2. **G. Rajender Naik**, “*Opening the Black Box An Explainable Deep Learning Approach for ECG-Based Arrhythmia Classification*”, *World Journal of Pharmaceutical Science and Research (WJPSR)*, January 2026, ISSN: 2583-6579, Impact Factor: 5.111.
3. **G. Rajender Naik**, “*Four Class Label Prediction and Heart Condition Diagnosis using Multi Structured Pooling Deep Recurring Neural Network*”, *Biomedical and Pharmacology Journal*, 18(1), 2025. <https://dx.doi.org/10.13005/bpj/3123>. Indexed in Scopus, ISSN: 0974-6242.
4. **G. Rajender Naik**, V. Jahnavi, B. Sudheendra Reddy, CH. Sainath, G. Ruthu, “*Comparative Analysis using Linear and Nonlinear Controllers for Speed Control of Separately Excited DC Motor*”, *International Journal for Multidisciplinary Research*, E-ISSN: 2582-2160, pp 1-13, Volume 6, Issue 2, March-April 2024. Imp. Fact. 9.24.

5. **G. Rajender Naik**, Pariki Roopa, "Position Control and Stability Analysis of Ball & Beam Mechanism Using Fractional Order Controller", *The International Journal of Engineering and Science*, Vol. 13, Issue 4, PP 89-97, 2024, ISSN (e): 2319 - 1813 ISSN (p): 2319 - 1805, DOI:10.9790/1813-13048997.
6. **G. Rajender Naik**, Sreeramoju Nitish Chandra, "Time and Frequency Domain Approach for Examining Stability of DC-DC Boost Converter", *Journal of Engineering and Technology Management*, Vol. 72 (April-June 2024), pg. 428-437, ISSN - 0923-4748, Imp. Factor - 4.8.
7. **Guguloth Rajender Naik**, Nikhitha Muthyala, Jatoth Venkanna, Thatipalli Manikanta, Thangalapelli Anjani Kumar, "Stability aspects of Control Systems through Python Programming", *International Journal of Engineering and Science Invention (IJESI)*, ISSN (Online): 2319-6734, ISSN (Print): 2319-6726, Volume 13 Issue 4 April 2024 || PP 01-09, DOI: 10.35629/6734-13040109, Imp. Factor - 5.962.
8. **G. Rajender Naik**, P. Mahesh, "EMF Based Predictive Current Control with MRAS Sensorless Speed Estimation for SVPWM Fed Induction Motor", *Global Journal of Engineering Science and Researches*, Vol.4, Issue.9, September 2017, ISSN: 2348-8034, pp 119-130.
9. **G. Rajender Naik**, P. Mahesh, "Interface using DC-DC High Step-up Non-Transformer Resonant Converter for Grid Connected Non-Conventional Energy Sources", *Global Journal of Engineering Science and Researches*, Vol.4, Issue.9, September 2017, ISSN: 2348-8034, pp 131-140.
10. **G. Rajender Naik**, K. Ashoka Reddy, "Electrocardiogram Signals Classification using Multimodal Decision Learning Algorithm", *International Journal of Engineering Science and Technology (IJEST)*, ISSN: 0975-5462, Vol. 9, No.04, April 2017. Pg. 271-277.
11. **G. Rajender Naik**, K. Ashoka Reddy, "ECG Classification and Abnormality Detection using Multimodal Decision Learning Algorithm", *International Journal of Engineering Science and Technology (IJEST)*, ISSN: 0975-5462, Vol. 9, No.01, Jan 2017. Pg 35-46.

➤ TEXT BOOKS COMPILED -

1. **G. Rajender Naik**, "Become Rich and Be Rich - Suggesting the Best ways to become Rich and stay Rich", *Notion Press*, Chennai, India, 2025. ISBN: 9798900545691.
2. **G. Rajender Naik**, "Think, Act, Become - How to Reprogram Your Mind, Take Bold Action, and Create the Life You Deserve", *Notion Press*, Chennai, India, 2025. ISBN: 9798900546384.
3. **G. Rajender Naik**, "The Hindu Rituals - Remedies to Follow", *Notion Press*, Chennai, India, 2025. ISBN: 9798900548609.
4. V. Goutham, Shaik Abdul Nabi, **G. Rajender Naik**, Manisha Pravin Mali, "Beyond the Spreadsheet - Exploring the Frontiers of Data Science", *Iterative International Publishers*, Karnataka, India, 2023. ISBN: 978-93-5747-180-0
5. **G. Rajender Naik**, "Basic Electrical & Electronics Engineering - Practical Workbook", *Scholar Publications*, Assam, India, 2019. ISBN: 978-81-935793-7-4.
6. **G. Rajender Naik**, K. Ashoka Reddy, "Signal Processing methods in ECG Analysis", *LAP LAMBERT Academic Publishing House*, Germany. ISBN: 978-3-330-00384-2, October 2017.
7. P. Mahesh, **G. Rajender Naik**, "Sensorless Predictive Control of SVPWM VSI Fed Induction Motor", *LAP LAMBERT Academic Publishing House*, Germany, 2017. ISBN: 978-3-330-07522-1.

8. **G. Rajender Naik**, P. Mahesh, "*Robotic Applications: Image Capturing & Recording Temperature*", LAP LAMBERT Academic Publishing House, Germany, 2017. ISBN: 978-3-330-07271-8.
9. **G. Rajender Naik**, K. Ashoka Reddy, P. Nagarjuna Reddy, "*Electronic Control of DC Motors: Touch Screen Technology*", LAP LAMBERT Academic Publishing House, Germany, 2012. ISBN: 978-3-659-29110-4.
10. **G. Rajender Naik**, "*An Electronic Navigation System*", VDM Publishing House, Mauritius, 2010. ISBN: 978-3-639-29447-7.

➤ **CHAired SESSIONS -**

1. Chaired a session (*Session 38: Electronic and Communication Engineering*) for 2nd IEEE International Conference on Computer and Communications (ICCC 2016), held at Chengdu, China during Oct 14 - 17, 2016.

➤ **RESEARCH INTERESTS -**

Control Systems, Automation, Biomedical Signal Processing applications, A.I. Techniques

➤ **ABROAD VISITS -**

1. Visited Dubai during Nov 23 - 25, 2016 for presenting paper in 3rd IEEE International Conference on Soft Computing and Machine Intelligence (ISCMi2016)
2. Visited Chengdu, China, during Oct 14 - 17, 2016 for presenting paper in 2nd IEEE International Conference on Computer and Communications (ICCC 2016).

➤ **ARTICLES REVIEWED -**

1. Reviewer for 10th IEEE GCC Conference and Exhibition "Powering the 4th Industrial Revolution" 19-23 April, Kuwait.
2. Reviewer for 2nd IEEE International Conference on Computer and Communications (ICCC 2016), Chengdu, China, held during Oct 14 - 17, 2016.
3. Reviewer for 3rd IEEE International Conference on Computer and Communications (ICCC 2017), Chengdu, China, held during Dec13 - 16, 2017.
4. Reviewer for Journal of Electrical Engineering & Technology, ISSN: 1975-0102.

➤ **PERSONAL PROFILE -**

Name	:	Dr. Rajender Naik Guguloth
Father	:	Dr. Veeranna Guguloth, Retd. Professor of K.U.
Mother	:	Smt. Hemalatha Guguloth, Home Maker
Spouse	:	Smt. Aparna, Asst. Motor Vehicles Inspector
Date of Birth	:	6 th Feb, 1984
Gender	:	Male
Languages Known	:	English, Hindi, Telugu, Banjara
Address for communication	:	# 35-4-49, Kanakadurga Colony, Gopalpur, Hanamkonda, Telangana - 506 015.

➤ **DECLARATION -**

I hereby declare that the above-mentioned particulars are true to the best of my knowledge and belief.



Date: 06-02-2026

(Dr G. Rajender Naik)