

CURRICULUM VITAE

PERSONAL DETAILS

Name: RAJESHKHANNA BHUTHKURI

Date of Birth: 30-08-1983



CONTACT DETAILS

Address for Correspondence:

Plot no: 669&670, Flat no: 503, Gayathri vista's, Road number 5/6, Near GHMC Park, Matrusri Nagar, Miyapur, Hyderabad, Telangana, India-500049.

Permanent Address:

H.No: 3-58, Malkapoor(Village), Gottimukkula (Post), Shankarampet (A) (Mandal), Medak (District), Telangana, India-502290.

Contact Number: +91-9666965641

Alternate Number: +91-8099759030

E-mail: raajeshkhanna202@gmail.com

Alternate: rajeshkhanna202@gmail.com

CAREER OBJECTIVES

To pursue my knowledge for the growth of industry in which I am always interested to work with. Take over the new challenges within those areas and exploring to new object-oriented fields. Continuously upgrading professional and personal career to match with new work environments using cutting-edge technologies in the emerging fields. Cater the societal needs through the teaching, research and innovation skills. Strive hard to meet the current generation educational needs through blended mode of teaching-learning and also look for the opportunities in the thrust areas of STEAM fields. In line with industry 4.0 technologies through reskilling, upskilling and deskilling methodologies.

EDUCATION DETAILS

- Submitted Ph.D thesis in Faculty of Electrical and Electronics Engineering at JNTUH University Hyderabad.
- Masters in Power Electronics and Industrial Drives from JNTUH College of Engineering (Autonomous) Hyderabad/ JNTU University Hyderabad with First class and Distinction.
- Bachelors in Electrical and Electronics Engineering from JNTU College of Engineering (Autonomous) Anantapur/ JNTU University Hyderabad with First class and Distinction.
- Intermediate (10+2) in MPC from Srinivasa Junior College Medak with First class and Distinction.
- Higher Secondary Education (SSC) from GJC High School Shankarampet (A) with First class and Distinction.

EMPLOYMENT DETAILS

Experience:

Overall, 17 Years of experience in Academia/ Higher Education Institutions with 17 years as an Assistant Professor at University College of Engineering JNTUHCEH Hyderabad.

Designation: Senior Assistant Professor

Name and address of Organization/Institution: Department of Electrical & Electronics Engineering, JNTUH University College of Engineering (Autonomous) Hyderabad, Kukatpally, Hyderabad-500085.

Domain: Higher Education/ Engineering, Science & Technology

Nature of activities: Teaching, Training and Research at Undergraduate & Postgraduate level, Academic, Examinations and other Administrative related activities.

Duration: 2005-till date

SIGNIFICANT ACHIEVEMENTS

➤ **Distinctions:**

1. Secured rank of **2317** in a competitive entrance exam EAMCET.
2. Admitted into **B. Tech EEE**, JNTU University College of Engineering Anantapur (Autonomous).
3. Secured **3rd place** in Bachelor's Degree at EEE, JNTUCEA
4. **Topper** in Masters (PEID) at JNTUHCEH
5. Pursuing **Doctoral Degree (External)** in faculty of EEE, JNTUH University Hyderabad.

➤ **Honors:**

1. Student advisor for **JNTUH Campus Magazine**
2. Maker of **Anti-Ragging** audio album sponsored by JNTUH
3. **EENADU-EETHARAM** published an article and honored me as a lyricist.
4. Freelance Educational Trainer for "**Azim Premji University & Foundation Program for School Education**" as a part of Fellowship Program.

➤ **Awards:**

1. **Expert member in Jury** for National Level Technical fests.
2. **Best Lyricist Award** for the "**Surajya Movement** (National-wide Anti-Corruption Movement)"
3. Tutor/Mentor for **USAID-funded** Higher education development program "Conflict and Development Foundation (CDF)" (Kandahar University of Faculty of Engineering Partnership Program).
4. Student Engagement Associate and Freelance Education Consultant for **UNDP (United Nations Development Program)-Disha Awareness Program** with "Coign Consultants Pvt. Ltd Hyderabad".
5. **Best Poetry Award** during Corona Pandemic by EENADU Telugu Daily in 2020
6. **Received Connect Chancellor Award** from Governor of Telangana for Outstanding Contributions towards corona awareness through essays and lyrics.

➤ **Extracurricular Activities:**

1. **Cultural Coordinator** for Freshers Day/Annual Day/Sports Day/Student Technical Fests.
2. **Faculty Coordinator** for NSS/NCC/Other NGO activities.
3. **Supervisor/Master Trainee** for CENSUS-2011 Govt. of India.
4. **Electoral Officer/Presiding officer/Master Trainee/TOT** for General elections.
5. **Expert member** in Print/Electronic Media Channels for Debates/Discussions.
6. **Lyricist** at Telugu Film Industry
7. **Poet, Writer and Public Speaker.**

➤ **Academic Activities:**

1. Route Officer, Chief Observer, Regional Officer for State level **Competitive/ Recruitment Exams.**
2. **Faculty Coordinator** for Accreditation works (NBA, NAAC, AICTE, UGC, TEQIP, IIC, BOS)
3. **Member** in Academic/Discipline/Budget/Purchase/Tender committee.
4. Special squad, observer for the **University level** Internal/External examinations.
5. **Visiting Member** for State/Central level Industries as a part of Industry Institute Interaction.
6. **Paper setter** for Internal/External examinations of Intra/Inter Universities/Colleges.
7. **External Examiner** for Internal/External theory/practical exams, seminars/mini & major projects.
8. **Tutor, Mentor** and Freelance Advisor to support student activities.
9. **Visiting/Guest faculty** for various Engineering Colleges/APPA/TPPA/Industries/Institutions.
10. **Resource person** for competitive exams coaching APPSC/TSPSC/GATE/IES
11. **Resource person** for SDP/FDP/STTPS/Workshops/Conferences/Technical Symposia.
12. **Freelance Educator** for EdTech Companies in STEAM fields.
13. **Internal Guide** for UG/PG students projects
14. **Department level coordinator** for Industry Oriented Mini projects
15. **Content Writer and Developer** for EdTech companies
16. **Invite** for Higher Education Debates/Discussions at State/Central level Print/Electronic Media.
17. **Freelance Research Guide** at Computer Science department, SPARTIFICIAL organization
18. **Freelance Associate Professor/Senior Instructor** at Computer Science department, UTEL University Philippines.
19. **Freelance Coding Instructor** for IDTECH India operations.
20. **Freelance Content Developer** for many EdTech Companies.

SOCIAL MEDIA PROFILES

1. **LinkedIn** : <https://linkedin.com/in/raajesh-khanna-703b3984>
2. **GitHub** : <https://github.com/RajeshkhannaBhuthkuri>
3. **Twitter** : <https://twitter.com/RAJESHKHANNABRK>
4. **Facebook** : <https://raajeshkhanna.lyricwriter>

TECHNICAL SKILLS

1. **Operating Systems** : WINDOWS, LINUX
2. **Languages** : C, C++, JAVA, PYTHON, MASM, MATLAB, DSP
3. **Software** : MATLAB, SIMULINK, PSPICE, LABVIEW

CERTIFICATIONS AND TRAINING

1. AWS/Python Training
2. Blockchain /Artificial Intelligence
3. TCS iON Career Edge
4. Faculty Assessment Series Trainings (FAS programs).

LANGUAGE PROFICIENCY

1. English (Reading, Writing and Speaking)
2. Hindi (Reading, Writing and Speaking)
3. Telugu (Reading, Writing and Speaking)

SWOT ANALYSIS

- **Strengths:**
 - Possess good Soft Skills, Inter and Intra Personal skills.
 - Confident, Adaptable and Efficient to work in any circumstances and situations.
 - Good speaker and Narrator
- **Hobbies:**
 - I am a Lyricist in Telugu Film Industry (TFI)
 - Writing songs, poetry, articles to leading news papers
 - Listening to music, and Reading Books

ACADEMIC PROJECTS

Project: Application of 3-Phase Induction Motor for Traction Applications (**Bachelors Level**)

Description: Generally, in India and abroad the DC series motor is a one which is widely used in Electrical traction due to its very high starting torque but in cost & maintenance point of view it is somewhat complicated compare to AC motors. Previously the application of AC motors to the traction application is not possible because of the conventional speed control techniques which complicates the starting problems, low torque, less speed control, bulk in nature etc., but with wide variety of Power Electronics converts (SCR's, BJT's, Traic's....) it is possible to use AC motors particularly (3-phase INDUCTION MOTORS) in traction application.

Tools: 'C 'language, MATLAB Programming.

Project: Analysis of Switched Mode DC-AC Inverter with Non-Linear Robust Control- MATLAB (Simulink) Approach (**Masters Level**).

Description: In general, the DC to AC Inverters performing the conversion of DC voltage to an AC voltage. While conversion with conventional control techniques the output of the Inverter is a fluctuated AC voltage which is due to the variations in the load, variations in the input supply and other parameters which influence the conversion. With the application of the Non-linear Robust control technique, we can observe that the output of the Inverter i.e., AC voltage is independent of the input supply voltage and output variations i.e., load variation and other parameters. That I have observed from the DC to AC inverter circuit with Non-linear robust control technique which is simulated in MATLAB (SIMULINK) approach.

Tools: Simulation in MATLAB (SIMULINK)

Project: Improvements in Direct Power Control Algorithms for Voltage Source Converters (**Doctoral Level**)

Description: In general, the measurement of Real and Reactive Powers in a Voltage Source Converter fed Industrial Drives is done with different methods like Field Oriented Control (FOC), Voltage Oriented Control (VOC), Direct Torque Control (DTC), Direct and Indirect Vector Control methods. In all the methods the torque is measured from which the power calculations are done in an indirect way. There are some algorithms for the measurement of power directly for the VSC fed industrial drives but they suffer with greater harmonic distortions in terms of THD levels. The improved direct power control algorithms for VSC fed drives will help in reduced levels of THD thereby superior performance of the drives can be achieved.

Tools: Simulation in MATLAB (SIMULINK)

PERSONAL PROJECTS

Research: Academic and Research Projects

Technologies: Python, ANN, MATLAB, MASM, DSP

1. Design of Power Electronics Converters with MATLAB
2. Application of AI and FNN for analysis of Electrical and Electronic Systems
3. Interfacing of devices to the processors and controllers using MASM programming
4. Controlling of Industrial Drives with DSP based Intelligent Systems.
5. Python Script for various Energy related data analysis.

AREAS OF INTERESTS (CORE)

- Power Electronics and Industrial drives
- Microprocessors and Microcontrollers
- Digital Signal Processing
- Digital Electronics
- Autonomous Vehicles
- Programming in C, C++, JAVA, PYTHON

AREAS OF INTERESTS (General)

- Career Counseling/Train the Trainer (TOT programs)
- Student Counseling
- Skill Development activities

ONLINE TEACHING TOOLS

- ZOOM, GOOGLE MEET, WEBEX, TEAMS
- MOOCS, MOODLE and other OPEN LMS PLATFORMS.

RESEARCH PUBLICATIONS

➤ National/International Journals:

S.No	Title of the Paper	Journal Name Vol.No.PP	ISBN/ ISSN No.	Impact Factor/ Citation Index	National/ International
1	Duty Cycle Based Direct Power Control for Three Phase Pulse Width Modulated Rectifier	International Journal of Trend in Research and Development (IJTRD) Volume 5(1), (Ijtrd Jan-Feb 2018)	Issn 2394-9333	4.004	International
2	A Two Input DC-DC Buck Converter for Hybrid Renewable Energy System with PI Controller	International Journal of Latest Engineering and Management Research (IJLEMR) Volume 03 - Issue 01 January 2018 Pp. 46-52	Issn: 2455-4847	1.08907	International
3	Review of Linear and Nonlinear Current Control Techniques for PWM Three-Phase VSC Converters	International Journal of Engineering Research & Technology (IJERT) Vol. 7 Issue 02, February-2018	Issn: 2278-0181	1.76	International
4	PI Controller Based Direct Power Control for Pulse Width Modulated VSC Converters	Indian Journal of Applied Research (IJAR), Volume-8 Issue-3 March-2018	Issn - 2249-555x	5.397	International
5	Comparative Analysis of Control Techniques for PWM Rectifiers in Grid Connected Distributed Generation Systems Based on VOC And DPC	International Journal of Research and Engineering (IJRE) Vol. 5 No. 2 February 2018 Pp. 303-310	Issn: 2348-7860 2348-7852 	1.902	International
6	Feedback Linearization Technique based Direct Power Control for Three-Phase Voltage Source Converters	The International Journal of Advanced Technology and Engineering Exploration	Issn (Print): 2394-5443- Issn (online): 2394-7454	0.807	International

➤ **National/International Conferences:**

S.No	Title of the Paper	Conference Name	National/ International
1	Analysis of Dual input DC-DC Buck-Boost Converter for Renewable Energy Application	National Conference on Recent Trends in Mechanical Engineering, NCRTME – 2018 , 26-27 February 2018, Department of Mechanical Engineering, JNTUH College of Engineering, Hyderabad, (Autonomous), Hyderabad 500085	National
2	Multi-Input DC-DC Converter for Hybrid Renewable Energy Generation System	National Conference on Recent Trends in Mechanical Engineering, NCRTME – 2018 , 26-27 February 2018, Department of Mechanical Engineering, JNTUH College of Engineering, Hyderabad, (Autonomous), Hyderabad 500085	National
3	Comparison of DPC control techniques for three-phase active rectifier fed grid connected Distributed Generation	International Conference on “Innovative Technologies in Engineering 2018 (ICITE-2018)-11th-13 th April 2018, University College of Engineering, Osmania University, Hyderabad, India, IEEE sponsored	International

PROFESSIONAL DEVELOPMENT

Conferences Attended	Seminars/FDP's/STTP's/Workshops Attended	Orientation Programs Attended	Guest lecturers delivered	Training Programs Attended	Industrial Visits	Induction Programs
50	50	30	30	20	10	10

AREAS OF IMPROVEMENT

1. Improving myself in managing the things in a more effective/efficient manner.
2. Reshaping the career in line with continuously changing global environments,
3. Applying advanced methodologies to reduce stress to reach targets, goals and ambitions.
4. Get more acquainting with digital teaching-learning tools
5. Working towards advanced Research in the field of Engineering and Technology
6. Enhancing new pedagogical methods in line with national education polices.
7. Collaborating with industry oriented real time projects
8. Looking opportunities to work with abroad instructions and other Research and Development Organizations.
9. Adjusting to the new mode of blended mode of teaching-learning
10. Reskilling, Upskilling and deskillling in thrust areas of Science and Technology.

Place: Hyderabad

Date:



Signature: (B. RAJESHKHANNA)