Curriculum Vitae

KALURI.S.R.RAJESWARA RAO

Email:drvrajesh8@gmail.com
Mobile: 8247732727,9247767926

Objective:

Seeking a suitable position in an organization with my knowledge and skills along with my strong commitment towards work and thereby to be an asset to an organization.

Educational Qualifications:

Course	Board/University	Division
M.Tech-Power electronics and Drives	VIT University,Vellore,TN	First Class
B.Tech(Electronics and Instrumentation Engineering)	Regency Institute Of Technology, Yanam,U.T.Of Pondicherry.	First Class
Intermediate	Board of Intermediate education, AP	First Class
S.S.C	Board of secondary education, AP	First Class

Interested Areas:

Internet of Things

Cloud Computing

Real-Time concepts of Embedded Systems

Artificial Intelligence with Prolog

Attended courses:

1. **Successfully completed Amazon S3 Basics authorized Courseera Project Network**
2. **Successfully completed** AWS Cloud Practitioner Essentials authorized by Amazon Web Services and offered through Coursera.

3. **Successfully completed a 12 week NPTEL course on Cloud Computing conducted by IIT KHARGPUR.**

4. **Successfully completed a course on Introduction and Programming with IoT Boards authorized by Pohang University of Science and Technology and offered through Coursera.**

5. **Successfully completed 12 Week(Jan 2022-April 2022) NPTEL course on Introduction to Industry 4.0 and Industrial Internet of Things and was placed in ELITE category conducted by IIT KHARAGPUR.**

6. **Successfully completed 12 week(Jan 2022-April 2022) NPTEL course on Introduction to Internet of Things and was placed in ELITE category conducted by IIT KHARAGPUR.**

7. **Completed 6-week training programme on Internet of Things conducted by NIELIT Lucknow Centre in ONLINE Mode from 15.02.2022 to 06.04.2022 and obtained "S" grade in the examination conducted by that institute.**

8. **Completed 6-week training programme on Internet of Things using Arduino conducted by NIELIT Haridwar Centre in ONLINE Mode from 20.12.2021 to 01.02.2022 and completed a project on Home Automation using Arduino.**

Completed NPTEL certification on the course "Fabrication of MEMS based sensors-A clinical Perspective" delivered by Hardik Pandya,Assistant Professor,IISc,Bangalore in the academic year 2018-19.

9. **Attended Familiarization workshop on Nano fabrication technologies at INUP,IISc Bangalore from 10th September 2018 -12th September 2018.**

10. **Attended Hands-on training workshop on Nano fabrication Technologies at INUP,IISc,Bangalore from 26th November 2018-06th December 2018.**

11. **Attended ICEE-IEEE 2018 conference at IISc Bangalore from 16th December 2018-19th December 2018.**

12. **Attended 6-Month Internship program at CSIR-CEERI,Pilani, Rajasthan,INDIA from January – June,2019.Fabricated and Characterised "MEMS Based Acoustic Wave Device for Gas Sensor Applications."**

13. **Presented a poster at Recent Trends in Transducers and Actuators-2019(RTTA-2019) at CSIR-CEERI,Pilani,Rajasthan in class 10000 clean room.**

14. **Fabricated Microcantilever based sensor at CSIR-CEERI,Pilani,Rajasthan in class 10000 clean room.**

15. **Fabricated and Characterized pn junction Solar cell at IISc,Bangalore. in class 1000 clean room.**

16. **Currently working on COMSOL Multiphysics 5.4 tool on Surface Acoustic Wave Gas Sensors in MEMS module.**

17. **Participated in a 3-day online workshop on "LabVIEW for Industrial Applications" conducted by NIELIT,Calicut held during 12.08.2020 -14.08.2020.**

18. **Participated in online Short Term Training Program on "Recent Trends in Instrumentation Engineering" conducted by NIT Uttarakhand from 07.09.2020-11.09.2020.**

19. **Participated in 1 week online training program on "Recent Advances in Micro Electro Mechanical Systems (MEMS), Mechatronics and Their Applications for Future Challenges" from 24-08-2020 to 29-08-2020. Conducted by MGIT,Hyderbad,Telangana.**

20. **Participated in online workshop on Recent Trends in Innovative CMOS-MEMS Technologies and applications: Hands on Learning conducted by Department of ECE,NIT Silchar from 11.09.2020-15.09.2020.**

21. **Participated in FDP on "Recent Advances in Materials Characterization Techniques" at Department of Metallurgical and Materials Engineering,NIT Andhra Pradesh from 19.10.2020 -23.10.2020.**

22. **Participated in ATAL FDP on Micro-electromechanicalsystems(MEMS) organized by SARDAR College of Engineering from 23.11.2020 to 27.11.2020.**

    Participated in ICEE-IEEE 2020 conference organized by IIT Delhi from 26th -28th November,2020.

Professional society Memberships:

1)IEEE Member #955153709

2)Institute of Physics-Member(MInstP) #1175630.

3)Member-American Physical Society #61296735

4)Member-Material Research Society

5)Member –Institution of Engineers(INDIA) #1705967

Skill Set:

- **COMSOL Multiphysics 5.4(MEMS MODULE)**

  Developed COMSOL models with emphasis on Piezoelectric effect, Acoustics.

Developed COMSOL models on Gas sensors,Pressure sensors,RF MEMS based devices like SAW and BAW devices.

Developed COMSOL models for stress analysis for different types of elastic materials and also did affect of damping on different materials.

Proficient in analyzing elastic vibrations and waves, perfectly matched layers in COMSOL Multiphysics.

Analyzed anisotropic loss factors for solid and piezo materials. Also analyzed COMSOL models in the stationary and transient domains, as well as fully-coupled eigenfrequency, parametric, quasi-static, and frequency response analyses.

- **Arduino Programming**
- **TI-C2000 Real time control Microcontroller Programming(Code Composer Studio)(With emphasis on Motor drive and its Control)(LF2407)**
- MATLAB

Work Experience:

(1) Worked in Sri Venkateswara College Of engineering and Technology(SVCET),Etcherla, Srikakulam.Andhra Pradesh Affiliated to JNTU, Kakinada from 04.06.10 to 11.06.2011.

(2) Worked in GVP College Of Engineering(A),Madhurawada,Visakhapatnam, Andhra Pradesh Affiliated to JNTUK,Kakinada. from 11.07.2011 to 22.01.2018.

(3) Taught ARTTIFICIAL INTTTELLIGENCE TO B.Tech students.

TEACHING CONTRIBUTIONS:

Subjects Taught:

- Electromagnetic Field Theory
- Electronic Devices and Circuits
- Signals & Systems
- Power Electronic Converter Fed Drives
- Power Electronics
- Microcontroller Programming
- Real time concepts of Embedded Systems
- Programmable Logic Controllers
- Signals and Systems
- Basic Computations Laboratory
- Power Electronics & Drives Laboratory.
- Electrical Technology

Subjects Interested:

- Real time concepts of Embedded Systems
- Electronic devices and circuits
- Electromagnetic Field Theory
- Power Electronics
- Power Electronic Converter Fed Drives

Responsibilities undertaken during my tenure as Assistant Professor:

- Instructor for Programmable Logic Controller Lab(Skill Based Lab Elective).
- Worked on GE Fanuc PLC in the application to analyze Stress levels on the concrete structure by applying Pneumatic pressure.
- Solved IEEE papers on Pseudo-Spectral Analysis.
- Solved IEEE papers on Multilevel Inverters, FACTS device.
- Guided projects in the area of Motor Drive Control by using TI's C2000 MCU.
- Member in Solar PV Systems workshop in GVP College Of Engineering(A).
- Organized guest lectures and co-ordinated board meetings for syllabus restructuring for B.Tech (EEE),M.Tech courses.
- Served as BoS Co-ordinator, Member of BOS-EEE,Class Co-ordinator,Student Counsellor in the department of EEE,GVP College Of Engineering(A).
- Served as APSSDC Electronics Office Lab-In charge.
- Instrumental in guiding students for various project exhibitions conducted by tech giants like Texas Instruments, National Instruments etc.
- Instrumental in guiding students in the area of automation in PLC(Programmable Logic Controllers).
- Encouraged and Motivated PG students to utilize Simulation softwares like PSCAD etc., leading to journal publications.

- Guided M.Tech projects in Power Systems and Power Electronics as Co-Guide.
- Knowledge on Code Composer Studio(CC Studio) of Texas Instruments.
- Knowledge on LabVIEW & Multisim by National Instruments.
- Guided different U.G projects in the area of power electronics & Power Electronic converter fed drives,Arduino programming.
- During the tenure as Project Co-ordinator encouraged students to take-up projects in real-time applications.
- During my tenure as Assistant Professor in the Department of EEE concentrated on writing project proposals and submitted a UGC Minor Research Project in the year 2013.
- Guided mini-projects in different topics on EEE and Real-Time Concepts of Embedded Systems.
- Served as Member in Session Organization committee in RAMSA'17.

Project Guidance as Assistant Professor:

Guided 2 M.Tech Projects in Distributed Generation and 1 M.tech project in Power Electronics**.**

Project Details:

M.Tech Project:-

TITLE : Dynamic Performance of a Dead-Band Controlled Capacitor Charging Type Inverter.

Description :

In this paper the dynamic performance of the inverter is investigated with different loads by a technique called "CONTROLLED CAPACITOR CHARGING".

B.Tech Project:-

TITLE:PC based patient monitoring system

Description :

In this along with the personal computer DOPPLER MODULE based monitoring system is used.

M.Tech Mini Project :

TITLE:DATA ACQUISITION

Description:

Basically in this project data is retrieved from a sensor.When the temperature is changing the same is indicated in the personal computer by interfacing the working unit to the PC through an RS-232 interfacing cable.

Achievements:

- Presented paper "Performance of a Dead-Band Controlled Capacitor Charging type Inverter using Switch Utilization Ratio" in INTERNATIONAL CONFERENCE in NIT BHOPAL,conducted by MECHANICAL ENGINEERING DEPARTMENT during JUNE24-26,2010

- Secured 1st prize in a quiz competition conducted in regency institute of technology.
- Secured 2nd prize in NATIONAL LEVEL TECHNICAL SYMPOSIUM in REGENCY INSTITUTE OF TECHNOLOGY, YANAM,U.T. OF PONDICHERRY.
- Secured 2nd prize in elocution competition competition in REGENCY INSTITUTE OF TECHNOLOGY,YANAM,U.T. OF PONDICHERRY.
- Presented paper in "NATIONAL LEVEL TECHNICAL SYMPOSIUM" conducted in CBIT,HYDERABAD.

Personal Profile:-

Name **:** K.S.R.RAJESWARA RAO

Father's Name **:** K.J.RAMA RAO

Nationality / Religion **:** INDIAN/HINDU.

Languages Known **:**ENGLISH,TELUGU,TAMIL.

Permanent Address **:** D.NO:30-7-24,
DABAGARDENS,
NEAR SARASWATHI PARK,
VISAKHAPATNAM,
ANDHRA PRADESH

Declaration: The above information is true and correct to the best of my knowledge & belief.

Place: Visakhapatnam

(K.S.R.RAJESWARA RAO)