SANISH V S

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Electronics & Communication Engineer

Detail Oriented –Technical Support – Lecturing



PROGRESSIVE & GOAL ORIENTED

Combining strong Electronics, Electrical & Communication Engineering expertise to promptly establish efficiency, resolve problems and enhance academic performance of students.

A competent Electronics & Communication Engineer with 15 years of experience with excellent communication, organization, co-ordination skills and possess knowledge of designing, developing and maintaining electronics/electrical systems and components to required specifications, focusing on economy, safety, reliability, quality and sustainability. Manage multiple tasks to completion, handles interruptions, and remains focused to ensure detailed accuracy and optimal results. Experience in education sector has cultivated a foundation of talent for top-level Engineering role with detailed Electronics & Communication Engineering responsibilities.

- A result oriented professional with over 15 years of experience in the field of Electronics and Communication Engineering.
- Currently working as Assistant Professor with Ahalia School of Engineering & Technology, Palakkad, India.
- Fully familiar HFSS, CST, MATLAB ,Windows &Microsoft Office
- Team player who effectively meets goals through strong leadership, interpersonal communication and analytical abilities.
- Expertise in making a significant contribution to the research and education strengths.
- Possess strong problem-solving and communication skills and the ability to work in an interdisciplinary environment.

Areas of Expertise

Electronics and Communication Engineering
Microwave Engineering
Antenna Design
Technical Lecturing
Planning
Maintenance program
Analytical and Interpersonal
Skills Project Management

- Creative, resourceful lecturer with proven ability to enhance students' performance and possess a positive and effective lecturing style with the willingness to work above and beyond the call of duty.
- Proficient in English, Tamil and Malayalam gives an edge to handle different communities.

EDUCATION AND CREDENTIALS

PhD (Technology) , Pursuing-Synopsis Submitted (Microwave antenna design) in Department of Instrumentation under Cochin University Of Science And Technology,Trikkakara,Cochin — 2014

Masters (Technology), Digital Electronics(CGPA 8.37)
Department of Electronics under Cochin University Of Science And Technology,Trikkakara,Cochin — 2010

Bachelors (Technology, AMIE), Electronics and Communication Engineering (65%) — 2007
Institution of Engineers (India), Kolkatta.

Diploma (Technology) Electronics Engineering — 2004
Govt.Polytechnic College, Kottayam 69.5% (Department of Technical Education Kerala)

Pre-Degree Course(Ist Group ; Mathematics ,Physics & Chemistry)
St. Xaviers College,Vaikom, under M G University, Kottayam (63.6%) — 2001

Secondary School Leaving Certificate (83.33%)
Govt.VHSS,Thalayolaparambu — 1999
Department of General Education, Government of Kerala

ACHIEVEMENTS

BEST PAPER AWARD

Winner of Best paper award for the paper titled "**Fractal-Enhanced Micro-strip Antennas: Miniaturization, Multiband Performance and Cross-Polarization Minimization for Wi-Fi Applications**" in RAiSE -2023(2 Day International Conference held from 4th -5th October 2023) at Manipal Academy of Higher Education, Dubai

IEEE PES OUTSTANDING STUDENT BRANCH CHAPTER ADVISOR AWARD

Winner of the Outstanding Student Branch chapter Advisor Award from IEEE PES Kerala Chapter for Meritorious, outstanding contributions as a Student Branch Chapter Advisor in PES Kerala chapter activities in 2021

GATE SCORE

GATE 2007:
Paper: EC-Electronics & Comm. Engg.
All India Rank: 3248
Percentile: 89.11
GATE Score: 348

DAT Ist Rank

DAT 2014(Ph.D. Entrance Exam) conducted by the Instrumentation Department CUSAT

CAREER HIGHLIGHTS

15 Years of Teaching Experience

(Since August 2025 - Present)	**Ahalia School of Engineering & Technology, Palakkad, Kerala** ***Assistant Professor in the Department of Electronics & Communication Engineering***
July 2010-July 2025	**Jawaharlal College of Engineering & Technology, Palakkad, Kerala** ***Assistant Professor in the Department of Electronics & Communication Engineering***

Responsibilities:

- **Exam Superintendent of JCET**(Autonomous) and **Exam Cell coordinator of APJAKTU-JCET** since 2020
- **NBA (National Board of Accreditation) Coordinator** for JCET and Criterion 4 In charge of the Department of ECE.
- **National Assessment and Accreditation Council** (**NAAC**) Criterion 1 In-Charge of the Department of ECE.
- **PG coordinator** for JCET

- HOD in-charge & Responsible for organization and delivery of teaching materials and assessment plan; conducting lectures, lab demonstrations and tutorials; coordination and management of units, providing continuous feedback to students, academic counseling of students; and participating in staff development activities.
- University Exam coordinator (APJA KTU) of Jawaharlal College of Engineering & Technology
- ISO Management Representative for JCET 2010-2025
- Served as the Coordinator for the National level Technical fest "Nehru Science Innovation & Technology Expo-NSITE.
- Served as the Internal Auditor of Kerala Technological University for the College.
- Prepared and delivered lectures to undergraduate and post-graduate students on topics such as Electronic Circuits, Linear Integrated Circuits, Digital Electronics, Solid state device, Nano Electronics, Computer Organization & Architecture , Radiation & Propagation, Optical Communication, Microwave Engineering, Analog And Digital Communication, Digital Signal Processing, Wireless Communication, Basics of Electronics Engineering.
- Contributed to department activities in organizing various Faculty Development Programs including a workshops & Seminars.
- Collaborated with professors and other staffs on course materials and grading policies, improving communication skill.

- Supervised postgraduate and undergraduate teaching, and project/research work.
- Kept abreast of developments in the field of Electronics and Communication Engineering by reading current literature, talking with colleagues, and participating in professional forums.

- Conducted research in the Microwave field of knowledge and published findings in professional journals
- Served as lab in charge of Basic Electronics Engineering, Electronic circuits and Analog Communication and Digital Electronics laboratories.

- Served as staff advisor, mentor and coordinator for all post-graduate students and 4th year under graduate students in the department.
- Served as coordinator for students' internship programs.

PROFESSIONAL MEMBERSHIPS

- Associate Member of Institution of Engineers (India)
- Life member in the Indian Society for Technical Education
- Member in the International Association of Engineers Member
- Graduate Student Member in IEEE
- Professional Member in Institute of Scholars (InSc)

PROJECTS EXECUTED

- **FPGA IMPLEMENTATION OF DRIVER SUPPORT SYSTEM FOR AUTOMOTIVE APPLICATION:** Effective driver support system is implemented which support the driver by displaying the details like Speed, Fuel level, Tilt of the vehicle etc. and thereby he can drive the vehicle in a safe manner.
- **INTELLIGENT TRAFFIC CONTROL SYSTEM USING 80S52 MICROCONTROLLER**
  It is a system which ensure the Traffic signal light for the emergency vehicles such as Ambulance, Fire engines etc is Green at the time of arrival and there by these vehicle gets a smooth passage. It is implemented using 80S52 microcontroller

TECHNICAL SEMINARS AND FDP

- 3 Days FDP on 'Next Generation wireless Communication systems" at NSS College of Engineering Palakkad, 19th -21st June 2025
- 5 Days FDP on "Computer Vision & Data Mining"Sponsored by APJAKTU & organized by Rajadhani Institute of Engineering & Technology,Mankara,Palakkad

- Five days APJAKTU sponsored online Faculty Development Programme on “Biomedical Instrumentation-Research Challenges” organized by Department of Electrical & Electronics Engineering and Electronics & Communication Engineering, Amal Jyothi College of Engineering, Kanjirappally from 22.02.2021 to 26.02.2021
- AICTE-ISTE Sponsored Six Day Online Faculty Development Programme on "Machine Learning and Optimization"-Phase-I from 22/2/2021 to 27/2/2021 Organized by Ahalia School of Engineering & Technology ,Palakkad
- One Week AICTE-MHRD Sponsored online STTP on ""Design & Simulation of Miniature antenna for IoT applications"organized by MVGR college of Engineering,Vizhinagaram.
- 3 days FDP on"Microstrip Antenna Design fundamentals & Practical Implementation of tripple band antenna for 5G wireless Applications using HFSS" Organized by Rise Krishna Sai Gandhi Group of Institutions.
- Two weeks FDP on "Recent Innovations in Electrical,Electronics,Instrumentation,Autoation& Teaching Pedagogy" Organized by Si Sairam Engineering College,Chennai
- One Week Online Faculty Development Program on”Advanced Antenna Design Using HFSS” Organized by Department of ECE ,Santhiram Engineering College ,Nandyal in collaboration with Vardhaman College of Engineering ,Hyderabad from 12-05-2020 to 17-05-2020
- Participated in a two day workshop on **VLSI Design using Open EDA** held at Jawaharlal College of Engineering and Technology, Palakkad on 6th and 7th January 2017.
- Participated in a Faculty Development Programme on **Internet of Things (IoT)** at Jawaharlal College of Engineering and Technology, Palakkad on 3rd and 4th September 2016, in association with **ICFOSS** (International Centre for Free and Open Source Software) and **KSUM** (Kerala Start-Up Mission).
- Participated in Faculty Development Programme and Workshop on **Advanced Electronic Technologies** held at Jawaharlal College of Engineering and Technology, Palakkad on 15th - 17th June 2015.
- Participated in Faculty Development Programme on **Implementation of virtual instrumentation concept using LABVIEW** held at Jawaharlal College of Engineering and Technology, Palakkad on 10th December 2015.
- Participated in Faculty Development Programme held at Jawaharlal College of Engineering and Technology, Palakkad on 22nd -24th July 2016.

CONFERENCE & PUBLICATIONS

- “**CPW Fed Fractal Based Four-Port MIMO Antenna With A Noval Method For Isolation Improvement**.” International journal of Metallurgical & Materials Engineering . vol. 31 No. 5 , pp. 69-78 , 2025
- **“Design and Analysis of a Two-Port Multiple-Input Multiple-Output Antenna with Defected Ground Structure for WLAN Applications”** Presented in the 2nd World Conference on Communication & Computing (WCONF) Raipur and **Published in IEEE Explore in 2024**
- **“Enhancing Image Reconstruction Accuracy Using Artificial Bee Colony (ABC) Optimization”** Presented in 2024 First International Conference for Women in Computing (InCoWoCo), 1-6
- “**A Dual-Band Four-Port Printed MIMO Antenna with Enhanced Isolation and Polarization Diversity for Midband 5G Applications**” Progress In Electromagnetics Research Letters, Vol. 121, 79-85 ISSN : 1937- 8726 , in 2024
- **“Cross Polarization Minimized Fractal Antenna for HiperLAN Application”** International Journal of Intelligent Systems And Applications In Engineering, ISSN: 2147-6799 in 2024
- **“Border Collie Shuffled Shepherd optimization based image reconstruction using visual cryptography**” The Imaging Science Journal , ISSN: 1368-2199 in 2023
- **Best paper award** for “Fractal-Enhanced Microstrip Antennas: Miniaturization, Multiband Performance and Cross-Polarization Minimization for Wi-Fi Applications” presented in International Conference on Recent Advances in Science and Engineering RAiSE-2023Organized by Manipal University MAHE, Dubai on 4th-5th October 2023
- **Fractal-Enhanced Microstrip Antennas: Miniaturization, Multiband Performance and Cross-Polarization Minimization for Wi-Fi Applications”** Engineering Proceedings Journal(ISSN: 2673- 4591 Vol.59-127 in 2023
- **“Optimized microstrip fractal antenna via hybrid EHO and GWO framework**” International Journal of Modelling and Simulation, ISSN: 0228-6203 in 2021

- "**Miniaturized Koch Fractal Antenna with Reduced Cross-Polarization for WLAN Application**" International Conference On Advances In Management And Technolgy-2020" ISBN: 978-93-5426-863-2
- "**Compact Cantor Square Fractal Antenna with Low Cross- Polarization**" International Conference of Advancement in Electronics & communication Engineering, ICAECE-2021

- "**Stacked U Slot Microstrip Patch Antenna For Bandwidth Enhancement**", IJRET: International Journal of Research in Engineering and Technology eISSN: 2319-1163 | pISSN: 2321-7308

- Design and Development of Sierpinski Carpet Microstrip Fractal Antenna for Multiband Applications, IJARCCE:International Journal of Advanced Research in Computer and Communication Engineering ISSN (Online) 2278-1021 ISSN (Print) 2319-5940
- "**Analysis And Design Of Circular Microstrip Fractal Antenna**", IJECE ISSN: 2348 – 8549

- "**MIMO Antenna Design And Simulation On Matlab With Particle Swarm Optimisation**" International Research Journal of Engineering and Technology (IRJET) e-ISSN: 2395-0056

- "**Cross Polarization Minimized Fractal Antenna for HyperLAN Application"** Paper presented in the International conference on Advancement in Engineering and Technology ICAET-2023 Preceedings with ISBN: 978-81- 924893-8-4

REFERENCES

Dr. P. R. Suresh
Principal

Ahalia School of Engineering & Technology ,

Ahalia Health, Heritage & Knowledge Village

Palakkad – 678557

Dr. Aneesh K
Associate Professor

Ahalia School of Engineering & Technology ,

Ahalia Health, Heritage & Knowledge Village

Palakkad – 678557

DECLARATION

I hereby declare that the above-furnished details are true to the best of my knowledge.

Date: 08-08-2024

Place: Palakkad **SANISH.V.S**