

RESUME

G. KALA NANDHINI



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CAREER OBJECTIVE :

To work in a team where I can learn, which in turn helps for my career growth and development and their by adding value to my Organization and Profession.

SUMMARY

- 10+ years (Working) as Assistant Professor in Prince Shri Venkateshwara Padmavathy Engineering College, Ponmar, Chennai from 2013 to till date.
- 2+ years of professional Software development training (As Free Lancer Trainer)experience working on multi-tiered applications using OO concepts in Java/ J2EE, web services and on relational databases like MySQL and SQL Server.
- 4+ years of Teaching Experience as Lecturer in Electronics and Communication
- Handled and Practiced backend code using C# in Augmented Reality /Virtual Reality (AR/VR) working with Unreal Engine and Unity Hub .
- Having knowledge in Embedded systems and IoT using Arduino UNO and Raspberry pi interfaced with modules.
- Working with MATLAB Software for the subject of Speech Processing and Recognition Concepts.
- Experience in Knowledge transfer and in - house Training with knowledge in all the below mentioned areas and hands-on experience. Also proficient in designing training schedules and conducting training sessions on JAVA coordinating with Project Managers and Project Leaders to ensure adequate training to the needy resources ensuring quality deliverables.
- Handled Electronics Subjects & respective Lab : Transmission Lines & Waveguides, Antenna and Wave Propagation, Digital electronics, Electronics Circuits, Microprocessor & Microcontroller, Communication Engineering, Professional Ethics etc.,

EMPLOYERS

- Working with Prince Shri Venkateshwara Padmavathy Engineering College, Ponmar, Chennai. From **23.12.2013** to till date.
- Worked as technical **Associate(Technical Trainer)** in **Tech360 Consulting Services** Thoraipakkam, Chennai. (www.tech360consultancyservices.com)

- Worked As Lecturer in SAMS College of Engineering and Technology till Oct'-2011.
- As Lecturer in Vel Tech College till 2008.

EDUCATION

- **M.E**(Applied Electronics) from St.Peter's University , Avadi, Chennai. with an aggregate of 73% in April 2013.

- **B.E** (Electronics & Commn. Engineering) from SKR Engineering College (Affiliated to **Anna University**)with an aggregate of **76% in April 2006**.

- Higher Secondary from State Board with an aggregate of 76.33% in March2002.

-SSLC from State Board with an aggregate of 83.4% in March 2000.

Major Corporate Training Assignments :

- **Axara Technologies**
- **CTS**
- **MS – Tech. Group**
- **Andro Software Corp.,**

TECHNICAL SKILLS

Languages/Web Applications:

C, C++, JAVA 1.4/ 5, Web Services, J2EE, JMS, EJB 2.1, Struts, Java Servlets, JSP, SQL, XML, HTML, Javascript.

Frameworks:

Struts, Hibernate ORM , Spring(Basics)

Databases:

Microsoft SQL Server 2005/2008 ,MySQL, Oracle 9i, MS Access.

IDE/Tools:

Eclipse 3.6, NetBeans 7.0,Arduino , MATLAB, KEIL

Application Servers:

Apache Tomcat ,Weblogic Server, SQL Server

Operating Systems:

Windows XP/2000/98/95 and Linux

Engine

Unreal

WORKSHOP ATTENDED:

- FDP on Quantum dot .
- FDP on IoT Security
- Webinar on Star IoT Security Specialist from Star Certification .
- Webinar on “ Kick Start the Mobile App Developer in You” from PrathyushaEngg College .
- “FACULTY DEVELOPMENT WORKSHOP ON REDHAT LINUX OS” IN PSVP ENGINEERING COLLEGE,CHENNAI.
- Two-Day Online Industry led training on Amazon Web Services(AWS), Virtusa Software Services, Pvt. Ltd.
- Webinar on “Financial Planning & Engineering” 0
- “NETWORK SIMULATOR 2 “ IN MSAJ COLLEGE OF ENGINEERING

JOURNALS PUBLISHED:

- Bluetooth technology on IoT using the architecture of Piconet and Scatternet , Cite as: AIP Conference Proceedings 2393, 020121

- Secure voter authentication for reliable voting process using RFID and biometric, International Journal of Early Childhood Special Education (INT-JECSE) DOI:10.9756/INTJECSE/V14I5.27 ISSN: 1308-5581 Vol 14, Issue 05
- Design of Automated Breast Cancer Masses Detection using Mammogram using Artificial Intelligence. IJADST, Volume: 2, Issue: 2.
- Electronic Assistive Aid for Visually Impaired people using Arduino, Volume:5, Issue-2.
- Liquid Monopole Antenna for submarine data communication. IJARIE, ISSN, Volume4, issue 2.
- Quantum dot Cellular automation(QCA) based Sequential circuit design- IJCESR ISSN, Volume 4, issue 6.
- SAR Image classification using back propagation neural network. IJIWET, Volume 3, No. 4.
- Identification of the changes in resting state networks for ADHD and healthy controls.- IJARIE.
- Photovoltaic system analysis using partial shading condition with KY Converter.
- Optimal sensor placement and damage detection in health monitoring – IJARIE

CONFERENCES:

Author full names	Title	Year	Source title	DOI
Gayathri, J. (57723269300); Senthilkumar, K.K. (57644110000); Vijayalakshmi, G. (57642680600); Aravind, A.R. (57723584900); Kalanandhini, G. (57644144400)	Multi-purpose unmanned aerial vehicle for temperature sensing and carbon monoxide gas detection with live aerial video feeding	2022	AIP Conference Proceedings	10.1063/5.0074193
Kalanandhini, G. (57644144400); Aravind, A.R. (57723584900); Vijayalakshmi, G. (57642680600); Gayathri, J. (57723269300); Senthilkumar, K.K. (57644110000)	Bluetooth technology on IoT using the architecture of Piconet and Scatternet	2022	AIP Conference Proceedings	10.1063/5.0074188
Vijayalakshmi, G. (57642680600); Gayathri, J. (57723269300); Senthilkumar, K.K. (57644110000); Kalanandhini, G. (57644144400); Aravind, A.R. (57723584900)	A smart rail track inspection system	2022	AIP Conference Proceedings	10.1063/5.0074206
Aravind, A.R. (57723584900); Senthilkumar, K.K. (57644110000); Vijayalakshmi, G. (57642680600); Gayathri, J. (57723269300); Kalanandhini, G. (57644144400)	Study on modified booth recoder with fused add-multiply operator	2022	AIP Conference Proceedings	10.1063/5.0074212
Sangeetha, M. (57196353785); Vijayan, T. (56358356400); Unnikrishnan, N. Aashna (57645634400); Kalanandhini, G. (57644144400); Shaw, Rabindra Nath (57208306734)	Genetic Fuzzy Based VANET Routing Algorithm for Better Efficiency	2022	Lecture Notes in Electrical Engineering	10.1007/978-981-19-1677-9_59
Senthilkumar, K.K. (57644110000); Kalanandhini, G. (57644144400); Aravind, A.R. (57723584900); Vijayalakshmi, G. (57642680600); Gayathri, J.	Image fusion based on DTDWT to improve segmentation accuracy in tumour detection	2022	AIP Conference Proceedings	10.1063/5.0074183

(57723269300)				
Hemelatha, S. (57210077349); Kalanandhini, G. (57644144400); Chaudhari, Prasad B. (58623958800); Sharma, Rajeev (58890390900); Kumar, Jambi Ratna Raja (57214276777); Mondal, Dipannita (57219216758)	A Comprehensive Analysis of the Use of Machine Learning Techniques to Optimize the Information Retrieval Process	2023	2023 3rd International Conference on Smart Generation Computing, Communication and Networking, SMART GENCON 2023	10.1109/S MARTGE NCON607 55.2023.1 0441970
Narayan, Ritushree (58192569200); Balaji, N.V. (59692432700); Kalanandhini, G. (57644144400); Mahalle, Parikshit N. (35170655700); Wasim, Javed (58236652900); Singh, Roma (57211335611)	Developing the Role of Firewalls in Enhancing Web Security for Wireless Networks	2023	2023 3rd International Conference on Smart Generation Computing, Communication and Networking, SMART GENCON 2023	10.1109/S MARTGE NCON607 55.2023.1 0442937
Hemelatha, S. (57210077349); Kumar, Amit (59445859500); Manchanda, Mahesh (57222814784); Kalanandhini, G. (57644144400); Manashree (59155746700); Kulkarni, Omkaresh S. (57210672315)	Cognitive Radio-Enabled Internet of Things Communications: A Reinforcement Learning-Based Routing Method	2024	2024 Global Conference on Communications and Information Technologies, GCCIT 2024	10.1109/ GCCIT632 34.2024.1 0862746
Mahalle, Parikshit N. (35170655700); Kalanandhini, G. (57644144400); Hemelatha, S. (57210077349); Samrat, Bhavuk (57208582350); Mishra, Mukul (59263609600); Ramachandran, T. (56689514600)	Optimizing Shielding Techniques for High-Frequency EMC Applications in Aerospace Systems	2024	2024 15th International Conference on Computing Communication and Networking Technologies, ICCCNT 2024	10.1109/I CCCNT61 001.2024. 10726064
Babu, Dushyanth V.R. (59155201700); Tiwaskar, S.A. (58245344500); Vijayalakshmi, V.J. (57212809314); Gupta, Mohit (59184798500); Kalanandhini, G. (57644144400); Goyal, Saumya (59340516300)	Kernel Methods for Image Restoration: A Comprehensive Analysis	2024	2024 15th International Conference on Computing Communication and Networking Technologies, ICCCNT 2024	10.1109/I CCCNT61 001.2024. 10724245
Kalanandhini, G. (57644144400); Sidhu, Amritpal (58582150700); Malathi, H. (58493421700); Dedgaonkar, Suruchi G. (57201552391); Singh, K. Ranjith (57216271806); Rampal, Sourav (58637623900)	Application-Specific Image and Video Processing Techniques for Security and Surveillance	2024	2024 15th International Conference on Computing Communication and Networking Technologies, ICCCNT 2024	10.1109/I CCCNT61 001.2024. 10725564
Gorli, Ravi (58928505200); Ashok, P. (57189032432); Kamatchi, Maharaja (57936576600); Mirza, Mohsina	Towards Optic Enlightenment: Future Free Space Optics Architecture &	2024	2nd International Conference on Intelligent Data	10.1109/I DCIoT597 59.2024.1

(57195273818); (57644144400); Harishchander (56269912700)	Kalanandhini, G. Anandaram,	Dynamic Modeling	Communication Technologies and Internet of Things, IDCIoT 2024	0467547
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PATENTS :

Automatic soil moisture sensor for nursery purposes - 202241043644 - Published.
Rfid based covid prevention system-202241046424 - Published.

MEMBERSHIPS :

IAENG- International Association of Engineers.
ISTE- Indian society for technical education.

SCHOLAR DETAILS:

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INPLANT TRAINING:

BSNL Chennai Telephones

PERSONAL PROFILE :

Father's Name : P. Gangadharan

Sex : Female

Nationality : Indian

Religion : Hindu

Marital Status :Married

Languages Known : English (Read, Write & Speak).
Tamil (Read, Write & Speak).
Hindi (Read, Write & Speak).

Place: Chennai

Signature

(G.KALANANDHINI)