

Anil Kumar

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Curriculum Vitae

Objective: - Always think positive with confidence and move ahead with innovative Vision.

Qualification:

- **Ph.D from NIT, Jalandhar, registered in Electronics and Communication Department (Registration No. 08404031). Topic is “Optimized Localization in Wireless Sensor Networks”, under the guidance of Dr. Arun Khosla and Dr. J. S. Saini, August 2013**
- **M.E in Electronics Instrumentation and Control from CRSCE Murthal (Now DCRUST Murthal) with aggregate 8.3 CGPA (A- Grade), July 2005.**
- **B.E in Electronics and Communication with 61% marks from M. D University Rohtak, July 2002.**

Academic: -

- **10th (CBSE) from S.D.M School Sonapat.**
12th (CBSE) from Rishikul Vidya Peeth, Sonapat

Computer Skill: -

- **C, C++, MATLAB, VHDL, ORCAD, NS2, TinyOs, QualNet.**

Area of Specialization: - **Fuzzy System, VHDL, Microcontroller, Wireless Sensor Networks,**

Soft Computing.

Member:-

- **Member of Institute of Electrical and Electronics Engineers(IEEE), USA**
- **Member of WIE of Institute of Electrical and Electronics Engineers(IEEE), USA**
- **Life member of Indian Society for Technical Education, New Delhi, India**

Broad Area of Research

- **Fuzzy Logic , Wireless Sensor Network, Soft Computing**

Teaching and Professional Experience: (Total Experience more than 08 Years)

Position Held	Name of Organization	Period		Nature of Work	Total Experience
		From	To		
Professor	Chandigarh College of Engineering and Technology	15/6/2019	Till date	Teaching, Research, and administrative responsibility	
Associate Profrrsor	Chandigarh College of Engineering and Technology	15/6/2016	14/6/2019	Teaching+Research	3 Years
Assistant Professor (Sr. Grade)	Jaypee Institute of Informatio Technology.Noida	11/7/2014	14/6/2016	Teaching+Research	1 year 11 months

Assistant Professor	Panipat Institute of Engineering and Technology, Panipat	21/01/2012	10/7/2014	Teaching+Research	2 years 6 months
Assistant Professor	Bharat Institute of Technology, Sonipat.	23-05-2009	20/01/2012	Department Head, Teaching+ Research	2 years 8 month
Assistant Professor	Institute of Science and Technology, Kalawad, Jagadhri	11-01-2009	22-05-2009	Teaching+ Research	4 months 20 days
Lecturer	Hindu College of Engineering Sonipat	1-08-2006	10-01-2009	Teaching	2 year 5 Months 10 Days
Lecturer	BMIET, Sonipat	29-08-2005	31-07-2006	Teaching	11 Months 3 Days
Lecturer	Haryana Engineering College, Jagadhri	31-01-2005	28-08-2005	Teaching	7 Months 29 Days

Visit Abroad

Place Visited	Duration	Purpose
LAS VEGAS, USA	13-17 July, 2008	Attended the International Conference ICWN'08 organized by World Academy of Science, Presented one research paper
University of California, Berkley, USA	18-19 July, 2008	Visited the WSN Lab and deliver a lecture on "Wireless sensor Networks Security"
Munich, Germany	25-27 June, 2012	Presented one research paper, at German Aerospace Centre, DLR,
Bulgaria, Sofia	6-9 September, 2012	Attended IEEE International conference on intelligent systems. Presented one research paper

Dissertation: - M.E. dissertation work was on Fuzzy System and topic was FUZZY PROCESSING – HARDWARE ISSUES and Knowledge Acquisition in fuzzy logic Systems.

Organized

- **Organized National Workshop on Intelligent systems and Wireless Networks (ISWN-2010) from 20-24 Dec 2010 at Bharat Institute of Technology, Sonapat.**
- **Organized in National Workshop on Wireless Sensor Networks (NWWSN-2008) from 27-29 Dec 2008 at Hindu College of Engineering Sonipat.**
- **Organized IEEE National Conference on Application of Intelligent System (AIS-2008) from 13-15 March 2008, at Hindu College of Engineering Sonipat.**
- **Organized National Workshop on Intelligent Systems (IS-2007) from 2-6 July 2007 at Hindu College of Engineering Sonipat.**
- **Organized a 20 Hrs workshop on MATLAB in B.M Engineering College. Sonipat.**

Workshop

- Attended one week Workshop on **soft computing** (from 25th July to 30th July 2006) at HEC, Jagadhri
- Attended one week Workshop on **soft computing** (from 11^h July to 15th July 2005) at HEC, Jagadhri
- Attended one week Workshop on **digital design system** (from 8th May to 12th May) at NTTTTIR Chandigarh.
- Attended one day Workshop on **digital signal processing on** 8th September 2006 at NIT Kurukshetra.

Publication

Patent

SLOTTED WHEEL MICROSTRIP PATCH ANTENNA BASED RF ENERGY HARVESTING SYSTEM, Patent number 528558, Government of India.

International Journal

1. Anil Kumar, Parulpreet Singh, Arun Khosla and Mamta Khosla (2018), “Biogeography Based optimized Localization of Target Nodes Using Single mobile Anchor Node in Wireless Sensor Networks”, Computing, Springer (under review). **Impact factor 1.589, SCI Journal.**
2. Anil Kumar, Parulpreet Singh, Arun Khosla and Mamta Khosla (2018), “Optimized Localization of Target Nodes using Single Mobile Anchor Node in Wireless Sensor Networks”, **International Journal of Electronics and Communications by Elsevier, (accepted), Vol. 91, 55-65, Impact factor 1.45, SCI Journal.**
3. Anil Kumar, Parulpreet Singh, Arun Khosla and Mamta Khosla (2018), Computational Intelligence Based Localization of Moving Target Nodes Using Single Anchor Node in Wireless Sensor Networks, **Telecommunication Systems by Springer, Vol. 67, No. 4, 1-15, Impact Factor 1.542, SCI Journal.**
4. Anil Kumar, Parulpreet Singh, Arun Khosla and Mamta Khosla (2017), 3D Localization of Moving Target Nodes Using Single Anchor Node in Anisotropic Wireless Sensor Networks, **International Journal of Electronics and Communications, Elsevier, Vol. 82, 543-552, Impact factor 1.45, SCI Journal.**
5. Anil Kumar, Arun Khosla, Jasbir Singh Saini and Satvir Singh (2015), “Range-Free 3D Node Localization in Anisotropic Wireless Sensor Networks” **Applied soft computing, Elsevier, vol. 34, 438-448, Impact factor 3.541, SCI Journal.**
6. Anil Kumar, Parulpreet Singh, Arun Khosla and Mamta Khosla (2017) , “A Novel Approach for Localization of Moving Target Nodes in Wireless Sensor Networks”, **International journal of Grid and Distributed Computing, Vol. 10 (No. 10) 2017, 33-44 (Scopus Indexed)**
7. Anil Kumar, Arun Khosla, Jasbir Singh Saini, and Satvir Singh (2013). “Stochastic Algorithms for 3D Node Localization in Anisotropic Wireless Sensor Networks” **Advances in Intelligent Systems and Computing, Vol.201, 1-14, 2013, by Springer (Scopus Indexed).**
8. Anil Kumar, Nisha Yadav, Manoj Duhan (2017), Biometric Human Recognition using ECG Signals, International Advanced Research Journal in Science, Engineering and Technology, Vol. 4, Issue 6, 168-171.

9. Anil Kumar, Parul Preet Singh, Arun Khosla and Mamta Khosla (2017), Wireless sensor networks localization and its location optimization using bio inspired localization algorithms: A survey, *International journal of current engineering and scientific research*, Vol. 4, 74-80.
10. Anil Kumar (2013). Stochastic Range-Free Node Localization in Wireless Sensor Networks, *International Journal of Electronics Engineering*, Vol. 5, no.1, June 2013, 82-88, Impact factor 0.65.
11. Anil Kumar (2013). Optimized Distributed Range-Based Node Localization in Wireless Sensor Networks, *International Journal of Electronics Engineering*, Vol. 5, no.1, June 2013, 76-81, Impact factor 0.65.
12. Monika Rani, Maridul Chawla, and Anil Kumar (2011). "IPSec performance on Wimax Networks" *International Journal of Electronics and Computer Technology*, Vol. 2 issue 3, ISBN 2230-9543.
13. Monika Rani, and Anil Kumar (2011). "Basic Study of Wimax simulation", *World journal of engineering*, Vol. 1, 937-941, ISSN No. 1465-8763
14. Monika Rani, Anil Kumar and Maridul Chawla (2011). Review of Public Key Cryptography on WImAX using Rsa Algorithm, *International Journal of Engineering Research and Studies (JERS)*, Vol. 2, issue 4, 219-222. ISBN No. 0976-7916
15. Anil Kumar, Nisha Rangi, and Prachi Chaudhary (2012). "A Mesh based Triangulated Approach to Reconstruct 3-D Surfaces" *International Journal of Emerging Trends in Engineering and Management*, Vol. 1 No.1, 1-4.

Book Chapter

1. Anil Kumar, Parulpreet Singh, Arun Khosla and Mamta Khosla (2018), Computational Intelligence Techniques for Localization in Static and Dynamic Wireless Sensor Networks- A Review, **Computational Intelligence in Sensor Networks by Springer (SCI Indexed)**.

Conferences (National and International)

1. Anil Kumar, Anvi Priya, Parulpreet Singh, Arun Khosla and Mamta Khosla (2018) Localization in Wireless Sensor Network Using PSO with Flip Ambiguity Mitigation, **IEEE 6th International conference on Smart Energy Grid Engineering (SEGE2018)** to be held in UOIT, Oshawa, Canada, during August 12-15, 2018 (**Scopus Indexed**).
2. Anil Kumar, Parulpreet Singh, Arun Khosla and Mamta Khosla (2017), Optimized Localization by Mobile Anchors in Wireless Sensor Network by Particle Swarm Optimization, IEEE International Conference on Computing and Communication Technologies for Smart Nation (IC3TSN 2017) (**Scopus Indexed**).
3. Anil Kumar and karampal Kaur (2015), "Optimized range-free 3D node localization in wireless sensor networks using firefly algorithm", IEEE International conference on Signal and Communication (ICSC 2015), IIIT Noida from 15-18 march 2015, www.ieee.org, (**Scopus Indexed**).
4. Anil Kumar, Arun Khosla, Jasbir Singh Saini, and Satvir Singh, (2012). "Computational Intelligence Based Algorithm for Node Localization in Wireless Sensor Networks", **IEEE 6th International conference on Intelligent Systems (IEEE-IS'12)**, held at Sofia (Bulgaria), from 6-8 Sep., 2012. Available at www.ieeeexplorer.org, (**Scopus Indexed**).
5. Anil Kumar, Arun Khosla, Jasbir Singh Saini, and Satvir Singh, (2012). "Meta-heuristic Range Based Node Localization for Wireless Sensor Networks", **IEEE International conference on Localization and Global Navigation Satellite Systems (ICL-GNSS)**, held at Starnberg, Germany from 24-26 June, 2012. Available at www.ieeeexplorer.org, (**Scopus Indexed**).
6. Anil Kumar, Naveen Goel, Arun Khosla, J. S. Saini and Shakti Kumar (2008). "A well structured Rule through Reinforcement Learning for Wireless Sensor Networks Security",

The International Conference on Wireless Networks (ICWN'08), 14-17 July 2008, at Las Vegas, Nevada, USA, (**Scopus Indexed**).

7. Anil Kumar, J. S. Saini, Anuja Gupta and Sunil Dutt Paliwal (2008). "A Frame Work for Memetic Algorithm Visualization (MAVEL)" *International Conference on Intelligent Systems and Networks (ISN-2008)*, at Institute of science and Technology Kalawad, Jagadhri, from Feb 22-24, 2008.
8. Anil Kumar, Sudesh Pahal and Arun Khosla (2008). "An Improved WiMAX Security Scheme Based on Asymmetric Key Based Approach" *IEEE National Conference on Application of Intelligent systems (AIS-2008)*, at Hindu College of Engineering Sonapat, India, from 13-15 March, 2008.
9. Anil Kumar, Prachi Chaudhary, Pawan Dahiya, J. S. Saini and Shakti Kumar (2008). "Evolutionary Computation in DSP Design", *IEEE National Conference on Application of Intelligent systems (AIS-2008)*, at Hindu College of Engineering Sonapat, India, from 13-15 March, 2008.
10. Anil Kumar, Juhi Singla, J.S. Saini, (2008). "IMPLEMENTATION OF ANT COLONY OPTIMIZATION ON MANETS", *2nd National Conference on Wireless and Optical Communication (WOC-2008)* at PEC, Chandigarh.

Guide

Guided 11 M.Tech Thesis.

Ph. D: 2 (one completed and one in process)

Expert Talk

1. Deliver an expert lecture on "**Reinforcement Learning**" in National Workshop on Intelligent Systems (IS-2007) from 2-6 July 2007 at Hindu College of Engineering Sonapat.
2. Deliver an expert lecture "**An Agent based knowledge Acquisition in Intelligent Systems**" in National Workshop ISMANET-07 from 10-14 Dec. 2007 at DCRUST Murthal.
3. Deliver an expert lecture on "**Security Aspects of Wireless Sensor Networks**" in National Workshop on Wireless Sensor Networks (NWWSN-2008) from 27-29 Dec 2008 at Hindu College of Engineering Sonapat.
4. Deliver an expert lecture on "**Various Aspects of Wireless Sensor Networks**" in AICTE Sponsored (TEQIP) two week workshop on "Emerging technologies in Engineering" from 1 July to 15 July at SBS Govt. Engg. College Ferozpur
5. **Dr. Anil Kumar, Associate Professor, ECE delivered an Expert Lecture on Soft Computing in Image Processing in AICTE sponsored National Workshop at DCR University of Science and Technology, Murthal, dated 08 and 09 January 2018.**
6. **Dr. Anil Kumar, Associate Professor, ECE delivered an Expert Lecture on Embedded System and Parallel Processing in ICT based STC organized by NITTR, Chandigarh dated 20-03-2018**
7. **Dr. Anil Kumar, Associate Professor, ECE delivered an Expert Lecture on Multimedia multi Processor in ICT based STC organized by NITTR, Chandigarh dated 20-03-2018.**
8. **Dr. Anil Kumar, Associate Professor, ECE delivered an Expert Lecture on Embedded System STC organized by NITTR, Chandigarh at Khandagath.**

9. **Dr. Anil Kumar, Associate Professor, ECE delivered an Expert Lecture on Embedded System** with Arduinio Processor, ICT based STC organized by NITTTR, Chandigarh 20/9/2018.

Wireless Sensor Networks	STC on MATLAB Programming	06/02/2017 (11:30-1:00 P.M)	NITTTR Chd	National
Soft Computing	STC on MATLAB Programming	06/02/2017 (2:00-5:00 P.M)	NITTTR Chd	National
WSN with Soft Computing with MATLAB	STC on MATLAB Programming	07/02/2017 (2:00-5:00 P.M)	NITTTR Chd	National
Data Parallel issues and MMX processor	Embedded world through ICT	21/3/2017 (2:00– 4:00 P.M)	NITTTR Chd	National
Node Localization in Wireless Sensor Networks	National Workshop on "Wireless Sensor Networks and Its Applications	18 March 2018 (11:00-13:00 P.M)	Jaypee University of Information Technology, Noida	National
Image Processing using fuzzy logic	STC on Signal and Image Processing: Issues, Challenges and Techniques	1-12 Jan, 2018	DCRUST Murthal	National
Embedded System and Parallel Processing	STC on Parallel Processing issues in Embedded System and Design	20/3/2018	NITTTR Chandigarh	National
Recent Advancement in Microcontroller Application	STC on Microcontroller Applications	29/5/2018	NITTTR Chandigarh	National
Interfacing of Microcontrollers with outside world	STC on Microcontroller Applications	29/5/2018	NITTTR Chandigarh	National
Research Issues in Microcontroller	STC on Microcontroller Applications	30/5/2018	NITTTR Chandigarh	National
Latest trends in Mobile Applications using Microcontroller	STC on Microcontroller Applications	30/5/2018	NITTTR Chandigarh	National
Arduino Based Embedded Systems	STC on Embedded System Design	17/09 /2018 to 21/09/2018	NITTTR Chandigarh	National
Keil Complier for 8051	STC on Microcontroller and Embedded Systems	25/3/2019 to 29/3/2019	NITTTR Chandigarh	National
Advanced Microcontrollers	STC on Microcontroller and Embedded Systems	25/3/2019 to 29/3/2019	NITTTR Chandigarh	National

FDP Attended

1. FDP on 'Wireless and Mobile Communication organised by NITTTR Chd held from 18/7/2016 to 22/7/2016
2. FDP on Web based Content Development using Moodle through ICT organised by NITTTR, Chandigarh and CSE Department, CCET (Degree Wing), Chandigarh held from 03.10.2016 to 07.10.2016
3. FDP on MATLAB and SIMULINK Applications organised by NITTTR, Chandigarh held from 27.02.2017 to 03.03.2017
4. FDP on 3G and LTE organised by NITTTR, Chandigarh held from 19.02.2018 to 23.02.2018
5. FDP on NBA Accreditation, organised by NITTTR, Chandigarh held from 14/5/2018 to 18/5/2018
6. FDP on Open Source Technology organised by NITTTR, Chandigarh held from 12/3/2018 to 16/3/2018
7. FDP on Intervention for Effective Industry Academia Integration organised by NITTTR, Chandigarh held from 09/07/2018 to 13/07/2018

1. .

PERSONAL PROFILE

Fathers Name	Sh. Mehar Singh
DOB	01-09-1978
Nationality	Indian
Marital Status	Married
Hobbies	Cricket, Photography, Anchoring.

DATE: -

PLACE: -

(ANIL KUMAR)

Curriculum Viate of Dr. Makwana Gautam Durlabhji

GENERAL INFORMATION:

1. **Name:** Dr. MAKWANA GAUTAM DURLABHJI

2. **Present Employer:** Associate Professor,
GTU-Graduate School of Engineering and Technology,
Gujarat Technological University,
Chandkheda, Ahmedabad

Email ID : asso_gautam_makwana@gtu.edu.in, gmakwana@gmail.com

Contact Details: 9067575820



EDUCATIONAL QUALIFICATIONS (Starting with highest degree obtained):

Sr. No.	Examination /Degree	Name of Board/ College/University	Percentage of Marks/Final Grade	Discipline/ Subject(s)	Year of Passing/ award
1	Ph.D.	Dhirubhai Ambani Institute of Information and Communication Technology (DA-IICT), Gandhinagar	-NA-	Information & Communication Technology (EC)	August 2016
2	M.E.	Indian Institute of Science (IISc), Bangalore	6.3/8.0	Telecommunication	2009
3	B.E.	S. V. Regional College of Engineering (SVNIT), South Gujarat University, Surat	74 %	Electronics	1998
4	H.S.C.	Gujarat Higher Secondary Education Board, Gandhinagar	76%	-NA-	1994
5	S.S.C.	Gujarat Secondary Education Board, Gandhinagar	78%	-NA-	1992

Details of Employment Experience: (In chronological order starting with the most recent)

Sr. No.	Name of Employer	Status of Institute/ University (Govt./Quasi Govt./ Autonomous etc.)	Post held/ Designation	Period of Employment		Pay band/scale and Grade Pay		Nature of duties
				From	To	Scale/ Band	Grade pay	
1	GTU-Graduate School of Engineering and Technology, Gujarat Technological University, Ahmedabad	Government	Associate Professor	28-11-2019	Till Date	Rs. 37,400/-	Rs. 9000/-	PG Teaching
2	Sankalchand Patel College of Engineering, Visnagar	Autonomous	Asst. Professor	01-11-2010	27-11-2019	Rs. 38,200/- (15600-39100)	Rs. 8000/-	UG + PG Teaching
3	Sankalchand Patel College of	Autonomous	Senior Lecturer	01-07-2006	31-10-	26,325/- (10000-	7000/-	UG + PG Teaching

	Engineering, Visnagar				2010	325- 15200)		
4	Sankalchand Patel College of Engineering, Visnagar	Autonomous	Lecturer	20-07- 2001	30- 06- 2006	9375/- (8000- 275- 13500)	6000/-	UG Teaching
5	Sardar Vallabhbhai National Institute of Technology (SVNIT), Surat	Government	Adhoc- Lecturer	07-08- 2000	30- 06- 2001	8000/- (8000- 275- 13500)	-NA-	UG Teaching
6	Sardar Vallabhbhai National Institute of Technology (SVNIT), Surat	Government	Adhoc- Lecturer	04-09- 1999	30- 06- 2000	8000/- (8000- 275- 13500)	-NA-	UG Teaching

Patent Granted/Published

Name of Applicant	Application No.	Type of Intellectual Properties	Date of Filing/ Date of Granting	Status of IPR
Ritisha V. Bhatt, Gautam D. Makwana , Devendra H. Patel	370713-001	Design Patent	12-09-2022 10-01-2023	Granted
Devendra H. Patel, Gautam D. Makwana , Ritisha V. Bhatt	368819-001	Design Patent	04-08-2022 25-04-2023	Granted
Gautam D. Makwana , Shailesh D. Panchal	377174-001	Design Patent	11-01-2023 02-03-2023	Granted
Devendra Patel Gautam D. Makwana	379247-001	Design Patent	13-02-2023 16-05-2023	Granted
Gautam D. Makwana	202321041675	Patent	22-06-2023 08-09-2023	Published

Research Articles/Papers published in Journals

- G.D. Makwana**, K.J.Vinoy, "Design of a compact rectangular dielectric resonator antenna at 2.4 GHz", **International Journal of Progress in Electromagnetic Research C**, Vol.11, pp.69-79, 2009, ISSN: 1937-8718, **Impact Factor: 4.735**
www.jpier.org/PIERC/pierc11/07.09070903.pdf
- G.D. Makwana**, Deepak Ghodgaonkar, "Wideband Stacked Dielectric Resonator Antenna at 5.2 GHz", **International Journal of Electromagnetics and Application**, published by Scientific and Academic Publishing, USA, Vol.2, No. 3, pp. 41-45, May 2012. ISSN:2168-8045, , **H-Index: 21 (By SJR: Scimago Journal & Country Rank)**.
<http://article.sapub.org/10.5923.j.jjea.20120203.04.html> cited in 12 US patents: 1) US9667317 B2 (May 30, 2017), 2) US9674711 B2 (June 6, 2017), 3) US9385992 B2 (June 20, 2017), 4) US9705561 B2 (July, 11, 2017), 5) US9722318 B2 (Aug 1, 2017) 6) US9729197 B2 (Aug 8, 2017), 7) US9735833 B2 (Aug 15, 2017), 8) US9742462 B2 (Aug 22, 2017), 9) US9742521 B2 (Aug 22, 2017), 10) US9748626 B2 (Aug 29, 2017), 11) US97499053 B2 (Aug 29,2017)
- G. D. Makwana**, Deepak Ghodgaonkar. "Dielectric Resonator Antenna as a RFID Tag for Human Identification System in Wrist Watch", **International Journal on Smart Sensing and Intelligent Systems**, Vol. 6, No. 3, pp. 1153-1166, June 2013, ISSN: 1178-5608, **Impact factor: 0.82**,Published by Massey University, New Zealand, **H-Index: 13(By SJR: Scimago Journal & Country Rank)**, Index by SCOPUS, Engineering Village, Inspec Database, Chemical Abstracts, JournalSeek Database, DOAJ Directory of Open Access Journal, EBSCO.
<http://s2is.org/Issues/v6/n3/papers/paper19.pdf>.
- G.D. Makwana**, Deepak Ghodgaonkar, Sanjeev Gupta, "Investigation of a New Radiating Mode in Rectangular Dielectric Resonator Antenna: Experimental Validation", **International Journal of Microwave and Optical Technology**, Vol. 9, No. 6, pp. 309-316, July, 2014, ISSN: 1553-0396, **H-Index: 4 (By SJR: Scimago Journal &**

- Country Rank)** Index by SCI, SCOPUS, Google, EI-Compendex, EBSCO, ISI, Elsevier, Media Finder, **Journal Impact: 0.31**, <http://www.ijmot.com/VOL9NO4.ASPX>
5. **G.D. Makwana**, Deepak Ghodgaonkar, Sanjeev Gupta, “Dual mode and miniaturized rectangular dielectric resonator antenna with a simple feeding scheme”, **International Journal of RF and Microwave Computer-Aided Engineering**, Vol. 25, No. 3, pp. 229-235, March 2015, ISSN: 1099-047X, **Impact Factor: 0.524** & H-Index: 29 (By SJR: Scimago Journal & Country Rank)
<http://onlinelibrary.wiley.com/doi/10.1002/mmce.20853/pdf>
 6. Niru Desai, **G.D. Makwana**, ”Space diversity for wireless communication system- A Review”, **International Journal of Engineering Science and Innovative Technology**, Vol. 2, Issue 03, pp. 405-410, March, 2013. ISSN: 2319-5967.
 7. Jay S. Sharma, **G.D. Makwana**, “Intelligent Crop Management System for Greenhouse Environment”, **International Journal of Science and Research (IJSR)**, Vol. 2, No. 4, pp. 205-208, April, 2013, ISSN: 2319-7064, **Impact factor: 6.39**.
 8. Rushit K. Chokashi, **G.D. Makwana**, “Digital Watermarking: Techniques, Applications, Attacks”, **International Journal of Engineering Development and Research**, Vol, 1, No. 3, pp.1-5, December- 2013, ISSN: 2321-9939, **Impact factor: 4.98**.
 9. B. J. Dave, **G.D. Makwana**, “A review on design, development and performance analysis of the vacuum feedthrough for ADITYA Tokamak”, **International Journal of Engineering Development and Research**, Vol. 2, No. 1, pp. 225-229, 2014, ISSN: 2321-9939, **Impact Factor: 4.98**
 10. Rushit K. Chokashi, **G.D. Makwana**, “Comparative Analysis of Digital Image Watermarking using DCT and DWT”, **STM Journals, Journal of Communication Engineering and Systems**, Vol-4, No 1, pp. 359-363, April-2014, ISSN: 2249-8613.
 11. Hardik B. Patel, **G. D. Makwana**, “Design and Simulation of Compact Wideband Rectangular Dielectric Resonator Antenna using Double Metallic Strips for Ku-Band Applications”, **Journal of Microwave Engineering & Technologies**, Vol. 1, No. 1, pp. 11-20, May 2014, ISSN: 2349-9001.
 12. Hardik B. Patel, **G. D. Makwana**, “Design and simulation of compact wideband rectangular dielectric resonator antenna for satellite applications”, **International Journal for Scientific Research & Development**, Vol. 2, No. 09, pp. 198-202, 2014, ISSN: 2321-0613, **Impact Factor: 2.39**.
 13. Yogi Mayuri, **G.D. Makwana**, “A review on dual narrowband in dielectric resonator antenna”, **International Journal of Advanced Technology in Engineering and Science**, Vol. 3, No. 01, pp. 1321-1325, March 2015, ISSN: 2348-7550, **Impact Factor: 2.87**.
 14. Patel Rutu M, **G. D. Makwana**, “Wideband monopole/dielectric resonator antenna- a review”, **International Journal of Advance Research in Science and Engineering**, Vol. 4, No. 1, pp. 1224-1230, March 2015, ISSN: 2319-8354, **Impact Factor: 2.87**.
 15. Janki H. Patel, **G.D. Makwana**, “Study, simulation and implementation of coarse and fine delay for satellite link emulation”, **International Journal for Scientific Research & Development**, Vol. 3, No. 4, pp. 1515-1520, 2015, ISSN: 2321-0613, **Impact Factor: 2.39**.
 16. Chaudhary Nikita, **G.D. Makwana**, “Bandwidth improvement of rectangular dielectric resonator antenna”, **International Journal for Scientific Research & Development**, Vol. 3, No. 4, pp. 147-149, 2015, ISSN: 2321-0613, **Impact Factor: 2.39**.
 17. Halak Upadhyay, **G.D. Makwana**, “Hybrid dielectric resonator antenna using cylindrical and conical shaped ring resonator excited by a monopole for improve ultra-wide bandwidth”, **International Journal for Scientific Research & Development**, Vol. 4, No. 2, pp. 1911-1913, April, 2016, ISSN: 2321-0613, **Impact Factor: 2.39**.
 18. Chaudhary Jagdish, **G.D.Makwana**, “Miniaturize microstrip patch antenna with DGS technology ”, **International Journal for Scientific Research & Development**, Vol. 4, No. 4, pp. 1046-1049, 2016, ISSN: 2321-0613, **Impact Factor: 2.39**.
 19. Jaykumar G. Patel, **G.D.Makwana**, “Investigation of oversized wave transport system for microwave reflectometry for SST-1 Tokamak”, **International Journal for Scientific Research & Development**, Vol. 4, No. 3, pp. 1702-1706, 2016, ISSN: 2321-0613, **Impact Factor: 2.39**
 20. Kirankumar A. Solanki, **G. D. Makwana**, “Study and Analysis of Microstrip Patch Array at 12 GHz for 5G Applications”, **Journal of Electronics and Communication Systems**, Vol. 3, No. 3, pp. 1-10, March, 2018
 21. Seema M. Soni, G. D. Makwana, “Multiband Microstrip Patch Array Antenna for 5G Communication”, **Journal of Applied Science and Computations**, Vol. 6, No. 4, pp. 2142-2152, April, 2019, ISSN: 1076-5131.
 22. Devendra H. Patel, **G. D Makwana**, Multiband Antenna for 2G/3G/4G and Sub-6 GHz 5G Application using Characteristics Mode Analysis, **Progress In Electromagnetics Research M**, Vol. 115, 107-117, 2023
 23. Devendra H. Patel. **G. D. Makwana**, Multiband Antenna for GPS, IRNSS, Sub-6GHz 5G and WLAN Applications, **Progress in Electromagnetics Research M**, Vol. 116, 53-63, 2023, Index – WoS
 24. Devendra H. Patel. **G. D. Makwana** , A Comprehensive Review on Multi-band Microstrip Patch Antenna Comprising 5G Wireless Communication, **International Journal of Computing and Digital Systems**, No.1, 941-953 (Feb-2022)

25. Pravin Dalvadi¹, Amrut Patel², D. H. Patel³, **G. D. Makwana**, Design of Wideband Bowtie Antenna using Tapered Balun for Industrial, Scientific and Medical Band Application, **International Journal of Information Technology and Electrical Engineering**, Volume 10, Issue 3, June 2021

Conference Proceeding/ Publications

1. **G.D. Makwana**, K.J. Vinoy, "A Microstrip line fed Rectangular Dielectric Resonator Antenna for WLAN Application" , Presented at **IEEE International Symposium on Microwave**, Dec.2008, pp. 299- 303, Bangalore
2. **G.D. Makwana**, K. J. Vinoy, "Wideband microstrip fed stacked rectangular dielectric resonator antenna for WLAN applications" Presented at **The 2009 International Symposium on Antenna and Propagation-(ISAP 2009)**, 20-23 October'2009, Bangkok, Thailand, pp. 963-966,<http://ap-s.ei.tuat.ac.jp/isapx/2009/pdf/1332.pdf>
3. **G. D. Makwana**, Deepak Ghodgaonkar. "Dielectric Resonator Antenna as a RFID Tag for Human Identification System in Wrist Watch" **Proceeding of 6th International Conference on Sensing Technology (ICST-2012)**, 18-21, December, 2012, pp. 238-242 organized by Massey University, New Zealand & C-DAC, Kolkata, **published in IEEE Explore with an IEEE catalog number (CFP1218E-CDR) and ISSN (978-1-4673-2254-4)**.
4. Harshil S Patel, **G. D. Makwana**, "Analysis & performance improvement of various routing protocols for ad hoc network", **Proceeding of National Conference on Innovative & Emerging Technologies (NCIET-2013)**, pp. 416-420, ISSN 978-81-925650-0
5. **G.D. Makwana**, Deepak Ghodgaonkar, Narrowband square dielectric resonator antenna, Presented at **International Workshop on Antenna Innovations and Modern Technologies (iAIM- 2015)**, 26-27 December, 2015 Organized by IEEE AP/MTT Gujarat Chapter, IEEE Gujarat Section, Ahmadabad
6. **G. D. Makwana**, Jaykumar G. Patel "Investigation of power efficient oversized waveguide at 26.5 GHz to 40 GHz for plasma measurement" Proceeding of International Conference on Technology and Management (ICTM-2017), 17-18 February, 2017 organized by S. P. College of Engineering, Visnagar, Gujarat, ISBN: 978-93-5267-370-4, pp. EC-104 to EC107.
7. **G. D. Makwana**, "Effect of substrate's height on rectangular dielectric resonator antenna" Proceeding of International Conference on Technology and Management (ICTM-2017), 17-18 February, 2017 organized by S. P. College of Engineering, Visnagar, Gujarat, ISBN: 978-93-5267-370-4, pp. EC-001 to EC-004.
8. Rutu Patel, **G.D. Makwana**, "Wideband monopole/dielectric resonator antenna – A review", presented at **International Conference on Recent Trends in Engineering Science and Management** on 15th March, 2015, ISBN: 978-81-931039-2-0, Jawaharlal Nehru University, New Delhi.
9. Yogi Mayuri, **G.D. Makwana**, "A review on dual narrowband in dielectric resonator antenna", presented at **International Conference on Recent Trends in Engineering Science and Management** on 15th March, 2015, ISBN: 978-81-931039-2-0, Jawaharlal Nehru University, New Delhi.
10. Pankaj P. Chaudhary, Deepak Ghodgaonkar, Sanjeev Gupta, **G. D. Makwana**, "Design of circularly polarized rectangular dielectric resonator antenna with finite ground planes for navigational satellite applications", Presented at Antenna Test & Measurement Society (ATMS), India, 6-8 February, 2017, Hyderabad, India
11. Maulik b. Rami, **G. D. Makwana**, "A review on Antenna for 5G Networks" Proceeding of International Conference on Technology and Management (ICTM-2017), 17-18 February, 2017 organized by S. P. College of Engineering, Visnagar, Gujarat, ISBN: 978-93-5267-370-4, pp. EC-074 to EC-077
12. Hardik S. Patel, **G. D. Makwana**, "Design of ultra wide band microstrip patch antenna for wireless application" Proceeding of International Conference on Technology and Management (ICTM-2017), 17-18 February, 2017 organized by S. P. College of Engineering, Visnagar, Gujarat, ISBN: 978-93-5267-370-4, pp. EC-025 to EC-027
13. Pankaj P. Chaudhary, Deepak Ghodgaonkar, Sanjeev Gupta, **G. D. Makwana**, "Design of Compact Circularly Polarized Rectangular Dielectric Resonator Antenna with WBLC for Navigational Satellite Applications", 2nd International Conference on Antenna Innovations & Modern Technologies for Ground, Aircraft and Satellite Applications, during 24-26 November, 2017, Bangalore, India & Published in IEEE Explore with catalog number 978-1-5386-0646-9/17, 2017.
14. Grishma Jani, **G. D. Makwana**, Shailesh D. Panchal, A Comparative Survey of Multiband Planar Antennas Comprehending Emerging 5G Wireless Communication Trends, 2nd Multidisciplinary International Conference: GTU-ICON, 2022, 221-238, September, 2022.
15. Devendra H. Patel, **G. D. Makwana**, Triple-band Antenna for GPS, Sub-6 GHz 5G, and WLAN Wireless Application, Presented at Wireless Antenna & Microwave Symposium (WAMS- 23), June 07-10, 2023, Pandit Deendayal Energy University, Gandhinagar, India, to be published in IEEE Explore

Research Projects Undertaken

Sr. No	Title/ Subject of Research Project(s)	Whether major or minor project	Date of Commencement	Date of Completion	Total Grants / Funding received (Rs.)	Name of Sponsoring / Funding Agency
1	Ultra Wide Band Dielectric Resonator Antenna (DRA)	*Major	12 th January, 2015	30 th June, 2017	11,65,000/-	ISRO RESPOND Project 119 With Ref. No. ISRO/RES/3/665/2014-15 dated July, 16,2017
2	Investigation, Analysis of Multiband Array Antennas for 5G Mobile Handset in IoT Application	**Major	16 th September, 2020	15 th September, 2023	20,70,000/-	GUJCSOT/2020-21/1262 dated 16 th September, 2020

** As a Principal Investigator, * Involved as a researcher,

Research Guidance: Number of scholars who have been awarded M.E./Ph.D. degree or Guiding M.E/Ph.D under my supervision

Name of Degree	Guiding	Awarded
(i) M.E Degree	02	24
(ii) Ph.D Degree:	02	-NA-

Granted Conducted and Activities organized (Conference/Workshop/seminar/)

No	Activity Type	Approved / Sponsored	Title	Duration	Sponsorship (If Any)
1	National Conference	GUJCOST, Gandhinagar	National Conference on Technology and Management (NCTM-2012)	20-21 January, 2012	Rs. 75,000/-
2	National Workshop	Automation System Pvt. Ltd., Ahmedabad	Workshop on RF/Microwave Fundamentals and FPGA	21 st April, 2012	Rs. 25,000/-
3	Workshop	IIT, Kharagpur	Two week ISTE Workshop on Signals & Systems	02-12 Jan. 2014	Rs. 1,83,500/-
4	National Workshop	GUJCOST	National Workshop on Android Application Development for Health Sector	26-28 March, 2015	Rs. 50,000/-
5	Youth Festival	GTU, Ahemdabad	Xitij-2014, GTU Youth Festival Gandhinagar Zone	17-19 Sept. 2014	-----
6	International Conference	SPU, Visnagar	1 st International Conference on Technology and Management (ICTM-2017)	17-18 February, 2017	-----
7	State Level Technical Festival	SPU, Visnagar	DST-GIL sponsored 6 th State level Technical Festival – “TECHENIGMA-2018”	20-21, February, 2018	Rs. 50,000/-

OTHER INTERACTION

Membership/Fellowship of other institutions/professional societies:

1. Member, Optical Society of America (OSA), 2008-2009, Type: Annual
2. Life Member, Indian Society of Technical Education, Type: Time Bound, since 2002
3. Student Member, IEEE, 2007-2009, Membership No. 90551353, Type: Time Bound
4. Member, IEEE MTT/AP Bangalore Chapter, IISc, Bangalore, 2008-2009, Type: Time Bound

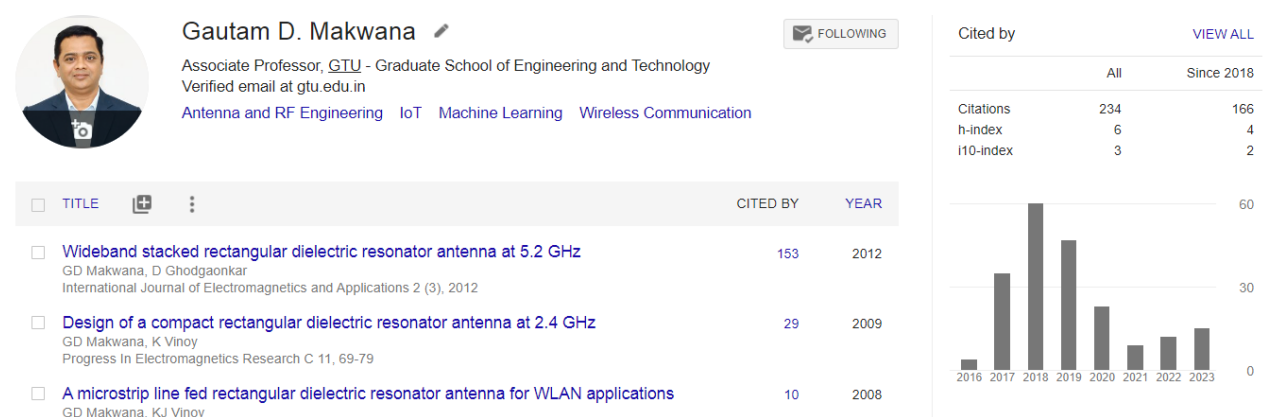
Serving as a Reviewer of following peer-reviewed international Journals

1. International Journal of Progress in Electromagnetic Research (PIER) Impact Factor: 5.298
2. International Journal of Electromagnetic Wave Application (JEMWA), Impact Factor: 2.96
3. International Journal of Electronics and Communication (Elsevier), Impact Factor: 0.588
4. International Journal of Infrared, millimeter, and Terahertz Waves (Springer), Impact Factor: 0.738
5. National Conference on Communication (NCC) jointly organized by IIT and IISc
6. Serving as reviewer for International Journals of Wireless Sensor Network, Published by Scientific Research, ISSN (online) : 1945-3086
7. Journal of electromagnetic Waves and Application, Impact Factor: 0772
8. International Journal for Innovative Research in Science and Technology, ISSN (online) 2349-6010
9. International Conference on Technology and Management (ICTM-2017) organized by SPCE, Visnagar
10. 1st International Conference on Intelligent Computing (ICIC-2018), organized by Amrita School of Engineering, bengaluru

Invited Lectures:

1. Rectangular dielectric resonator antenna, TEQIP-II sponsored National Workshop on “Emerging Trends in Electromagnetics & Its Applications, Vallabh Vidyanagar, March, 2017.
2. Intellectual Property Rights: Basics & Concepts, Ph.D. Course Work: Research Methodology & Statistics at Sankalchand Patel University, Visnagar, 9th March, 2019
3. Intellectual Property Rights: Basics & Concepts, Ph.D. Course Work: Research Methodology & Statistics at Sankalchand Patel University, Visnagar, 8th June, 2019.
4. Seminar on Sensitization of Student Startup and Innovation Policy at Sankalchand Patel College of Engineering and Shri. C. J. Patel College of Computer Studies, Visnagar on 24th June, 2019 (Computer), 28th June, 2019 (BCA), 8th July, 2019 (Electrical), 9th June, 2019 (Mechanical) and 10th July, 2019.
5. Webinar on “Perspective of Design Antenna for 5G Technology” organized by Electronics & Communication Engg. Department, Government Engineering College, Bhuj on 10th June, 2020.

Citation report of publications



Place: Ahmedabad

Sd/-
(Dr. Makwana Gautam Durlabhji)

SESEI

CEN - European Committee for Standardization
CENELEC - European Committee for Electrotechnical Standardization
ETSI - European Telecommunications Standards Institute
EC - European Commission
EFTA - European Free Trade Association

Seconded European Standardization Expert in India



Dinesh Chand Sharma

Director – Standards & Public Policy, EU Project SESEI

Since 2012, Mr. Dinesh Sharma is associated with EUROPEAN STANDARDISATION PROJECT, SESEI as Director – Standards and Public Policy. In this role, Mr. Sharma acts as the focal point in India representing European Standards Organizations (ETSI, CEN, CENELEC), European Commission (EC) and European Free Trade Association (EFTA). Prior to this, Mr. Sharma worked with Ericsson for 15 years, having last working profile as “Director – Regulatory Affairs & Industry Relation”. Mr. Sharma began his career in Technical Customer Support back in 1992 and has over 28 plus years of industry experience both in India and abroad. Mr. Sharma holds a bachelor’s degree in Electronics, highest honors in Business Management from Stratford Institute, USA, and a SUN Solaris certification.



Dr. PRATHVIRAJ N

ASSOCIATE PROFESSOR · MANIPAL ACADEMY OF HIGHER EDUCATION, MANIPAL, INDIA

S/O K Nagaraja Shetty, "Sri Lakshmi", Mukhyaprana Road, Adi-Udupi, Udupi -575003

☎ (+91) 9743855956 | ✉ praj151986@gmail.com | ORCID: <https://orcid.org/0000-0003-2335-7718>

"One book, one pen, one child, and one teacher can change the world. ..."

Education

IGIP International Engineering Educator

*International Society for
Engineering Pedagogy, VIENNA*
2022

Ph. D titled "Optimized Algorithm for Multi-Constrained QoS Routing in MANET"

*Visvesvaraya Technological
University, Karnataka*
2021

UNDER THE GUIDANCE OF DR SANTOSH L DESHPANDE

M. Tech in Software Engineering

*Visvesvaraya Technological
University, Karnataka*
2012

SRI JAYACHAMARAJENDRA COLLEGE OF ENGINEERING

- Got a chance to interact with Dr Kril Krinkin, ETU St Petersburg, Russia and to learn NS-3

Experience

Manipal School of Information Sciences

Manipal, Karnataka
July 2019 - Present

ASSISTANT PROFESSOR-SENIOR SCALE

- Mentoring SAMSUNG-PRISM Industry Research collaboration projects
- Engaging Post Graduation students towards research and Project Based Learning activity
- Handling Accreditation and Ranking related activity

St Joseph Engineering College

Mangaluru, Karnataka
July 2012 - June 2019

ASSISTANT PROFESSOR

- Actively involved in successful NBA accreditation process responsible for criteria 9.
- Introduced Network Simulator-3 for VII semester Network laboratory.
- Organized technical talk on "Embedded Systems"
- Department coordinator for tech fest 2014 and 2016
- Coordinator department student association

Amrutha College

Mangaluru, Karnataka
July. 2009 - April. 2010

LECTURER

- Mentor and tutor for final year students.

Research Activities

PhD

Belagavi, Karnataka
Jan 2016 - 2021

VISVESVARAYA TECHNOLOGICAL UNIVERSITY

- Inherent MANET characteristics and their impact on QoS are analyzed
- Rough Set Theory mechanism is incorporated to prioritize the QoS metrics
- Proposing a configurable, adaptable multi-constrained QoS routing algorithm
- Experimentation is carried with NS-2, NS-3, Rough Set Exploitation System

Research Grant Applied

New Delhi
July 2017

SCIENCE AND ENGINEERING RESEARCH BOARD

- Submitted Research proposal titled "A Framework for Smart City Service Standardization" as a Co-PI

VISION GROUP SCIENCE AND TECHNOLOGY

- Submitted proposal "Establishment of State of Art IoT Research Centre for Smart Village Applications"

Research Papers Published

INTERNATIONAL JOURNALS / CONFERENCES

- Prathviraj N., Santosh L Deshpande, Anusha Hegde "Adaptive Multi-constrained QoS Routing in MANET", Journal of Engineering Science and Technology (JESTEC), Vol. 17, No. 5, 2022.
- Prathviraj N., Santosh L Deshpande, Sayinath Udupa "Ad-hoc Network Experimental Design with Taguchi Method to Analyze Performance of Routing Protocols", Engineered Science, Vol. 19, pp. 83 - 88, 2022.
- Prathviraj N., Santosh L Deshpande, "Rough Set based Quality of Service Optimization Guidelines with Stack Parameter", Int. J. Information and Decision Sciences, Vol. 13, No. 2, pp. 127 - 144, 2021.
- Prathviraj N, Santosh L Deshpande, "Rough set based QoS enabled multipath source routing in MANET", International Journal of Electrical and Computer Engineering, Vol. 10, No. 2, April 2020, pp. 1915 - 1923, <http://doi.org/10.11591/ijece.v10i2.pp1915-1923>
- Prathviraj N, Santosh L Deshpande, Anusha Hegde, "Quality of Information Analysis to Ensure Quality of Service", International Journal of Advanced Science and Technology, Vol. 29, No. 5, 2020, pp. 3576 - 3584. <http://sersc.org/journals/index.php/IJAST/article/view/12051/6319>
- Prathviraj N., Santosh L. Deshpande, Sayinath Udupa, "Multi-layer TCP/IP Protocol Stack Configuration to Enhance QoS in MANET", International Journal of Advanced Science and Technology, Vol. 29, No. 6, 2020, pp. 7639 - 7650, <http://sersc.org/journals/index.php/IJAST/article/view/25121/13363>
- Prathviraj N., Santosh L Deshpande, "Rough Set Based Analysis of Multi-layer Stack Parameter in MANET" Lecture Notes on Data Engineering and Communications Technologies book series (LNDECT, volume 28, Springer, pp. 217-229, <https://doi.org/10.1007/978-981-13-6459-4>
- Prathviraj N., Santosh L Deshpande, "Context Aware Network for Smart City Services: A Layered Approach", Communications in Computer and Information Science book series (CCIS, volume 876, Springer, pp. 113-119, <https://doi.org/10.1007/978-981-13-1423-0>
- Prathviraj N., Santosh L Deshpande, "Rough set approach for solving multi-constrained QoS routing problems in MANET", IEEE International Conference on Wireless Communications, Signal Processing and Networking (WiSPNET), 10.1109/WiSPNET.2016.7566316
- Hareesh B., Prathviraj N., Gururaja S., "Hybrid Teaching Model to persuade Different Dimensions of Felder-Silverman Learning Style Model", Lecture Notes in Networks and Systems, vol 80. Springer
- Prathviraj N. and Prashanth Kumar A, "Lifetime aware MPR selection in OLSR for MANET," 2014 International Conference on Electronics, Communication and Computational Engineering (ICECCE), Hosur, 2014, pp. 153-156, doi: 10.1109/ICECCE.2014.7086650.

Skills

Programming	Python, C/C++, NS-3, NS-2, LaTeX, RSES, gnuplot
Subjects	Principles of Data Visualization, Computer Networks, Automata Theory, Operating System, Unix System Programming
Languages	English, Hindi, Kannada

Continous Improvement

AWS Academy

2021

AWS ACADEMY CLOUD FOUNDATIONS

EDX Online Course

Columbia University

2015

INTERNET OF THINGS

UGC - NET

UGC

2014

SECURED 56 PERCENTAGE MARKS

Workshops attended

2019	Indo Inoversal Collaboration for Engineering Education, IUCEE Internation Engineering Educator Certificate	<i>IUCEE</i>
2018	Indo Inoversal Collaboration for Engineering Education, IUCEE International Engineering Educator Pre-Certification Workshop	<i>St. Joseph Engineering College Mangaluru</i>
2018	Centre for Engineering Education Research, Pedgogy, Assessment and Institutionalization of Best Practices	<i>KLE tech, Hubballi</i>
2015	Infosys Campus Connect, Faculty Enablement Program on FP 4.0	<i>BVBCE,Hubli</i>
2014	WiNG, Simulation of Wired and Wireless Networks	<i>NITK, Surathkal</i>
2013	E-YANTRA, IIT Bombay, Introduction to Robotics	<i>JNNCE, Shimoga</i>
2013	RAISE -13, Short Term Training on Recent Advances and Research Directions in Software Engineering	<i>NITK, Surathkal</i>

Technical Talks Delivered

Recent Trends in Machine Learning and Pattern Recognition FACULTY DEVELOPMENT PROGRAM	<i>GM Institute of Technology Dec. 2021</i>
Network Simulator - 3 FACULTY DEVELOPMENT PROGRAM	<i>SJEC, Mangaluru Jul. 2015</i>
gnuplot TRAINED FINAL YEAR STUDENTS	<i>SJEC, Mangaluru Sep. 2014</i>
Network Simulator - 3 TECHNICAL TALK FOR FINAL YEAR STUDENTS	<i>SJEC, Mangaluru Sep. 2015</i>

Students project Guided

2019-20	Effective Utilization of WMM Voice and Video Access Category Queues for Best Effort Traffic,	<i>Samasung PRISM</i>
2019-20	5G Service Orchestration: Placement and Allocation of SFCs,	<i>Samasung PRISM</i>
2016-17	Decipher C,	
2016-17	Frequent Itemset Mining for Big Data,	
2016-17	PCA Based Face Recognition to Access Smart Door Lock System,	
2015-16	Analysis of QoS Parameter during Route Discovery in MANET Routing ,	
2015-16	Location Aware News Feed System for Mobile Users ,	
2014-15	WORK TRENDZ ,	
2012-13	Energy Consumption Based Routing in MANET ,	

Personal Details

Date of Birth 15-05-1986
Languages Known English, Kannada, Hindi
Nationality Indian
Spouse Anusha Hegde, Research Scholar, NITK, Surathkal
Dr Santosh Deshpande, Professor,
Dept. of CSE,
Referee 1 Visvesvaraya Technological University,
Belagavi-INDIA,
sldeshpande@gmail.com, sld@vtu.ac.in
Dr Dinesh Rao, Professor,
Manipal School of Information Sciences,
Referee 2 Manipl Academy of Higher Education,
Manipal-INDIA
dinesh.rao@manipal.edu



SUMMARY

Growth-driven, performance-focused, and solution-oriented Risk & Compliance professional with over 20 years of experience in various aspects of Audit, Compliance, Assurance, Risk Management, Governance, Third-party risk management, Product / Program Management, AI/ML, Cybersecurity, IT Infrastructure, Cloud, Business process implementation and improvement within various industries.

Working with cross-functional, cross-disciplinary teams and consistently delivering projects on time and within budget by clearly defining organizational processes, prioritizing tasks, proactively managing risks, and translating goals into action through clear and concise communication with all stakeholders.

RECOGNITION & AWARDS

4 x Spot Bonuses

11 x Peer Bonuses

13 x Kudos

AREAS OF EXPERTISE

Risk Management | Compliance | Governance | Third-party risk Management | Vendor Management | Audit Planning and Execution | Audit Assurance | Secure & Compliant AI/ML | Product & Program Management | Cybersecurity | Cloud Infrastructure | DR / B&SR | M&A & Divestiture | Threat & Incident Management | Strategic Planning | Stakeholder Management | Project Management | SDLC | AI/ML | AR/VR

WORK EXPERIENCE

Google - Sr. TPM Lead, Risk & Compliance

Dec 20221- Present

Key projects – RMS, RDP, RCSA, Comply, MTM, CRiMS, AI/ML Launch, B&SR, and CERA

- **Partnered** & Successfully executed programs and sub-projects with-in agreed time, scope, budget and quality including developing objectives, project planning, execution and stakeholder management.
- Led cross functional teams to technical discussion and alignment for AI/ML Launch governance, RDP, RMS, Comply, GRACL, and AI/ML model inventory.
- **Communication** - Interfacing and communicating with program/project teams, management, customers and stakeholders including implementing and working through defined governance processes
- **Project Management** - Identifying and tracking key milestones from program inception to lessons learned. Anticipating and managing program risk to ensure program success. Working with UX/UI & SWE Teams across multiple verticals.
- **Risk Management** - 1000+ third-party risk assessments for products and solutions at CORE. RCSA, Risk Deep Dives, risk reporting and issue management.
- **Compliance** - Leading compliance activities across CORE and Corp Eng including but not limited to ISO, SOC-2, Privacy Shield, GDPR. Audit preparedness and compliance assurance.
- **Collaboration** - Driving effective collaboration across teams, influencing and executing delivery of goals.
 - Translating business requirements and policies into technology backed business process
- 20+ AI/ML Privacy and security assessments, ISO 42001, NIST CSF and AI-RMF.
- **Strategy** – Safe, Secure and Compliant AI – Defined and helped leadership to adopt AI/ML Risk Management strategy for CORE eventual adoption across Google (xPA).
- **Stakeholder** management and communication spanning across multiple geo-locations.
- Cross-PA, Cross team **collaboration** on AI/ML Risk Management (Cloud, Research, CORE ML, YouTube, Maps, K&I and more). Leading effort on net-new AI/ML Risks, Control gaps and launch governance.
- AI/ML Launch Governance Policy development in collaboration with RESIN & OCI.
- Collaborated with OCI on GCAP (Google Compliance Assurance Policy), GCAF (Assurance Framework, ECCF (Enterprise Compliance Control).
- Privacy & Security assessment for Cloud AI/ML and Mandiant.



Manoj Kumar, Sr. TPM @Google – mkrj@google.com

Amazon - Director, TPM (Risk, Compliance & Fraud)

Aug 2021 – Dec, 2021

Charter: Managed 25+ people's organization, responsible for end to end strategy, execution and governance of Infrastructure Risk, Operational Risk, Third Party Risk, Compliance and Fraud.

- Built and managed third-party risk management program to cover 10s of thousands of vendors.
- Cross functional program management for Compliance, Cyber Security, VSA, Cloud operations and user royalties
- Managed Risk, Compliance, Security and Fraud programs for Amazon and subsidiaries
- Led asset inventory programs across Amazon and subsidiaries, this led to saving of millions.
- VSA (Vendor security assessment) for 1000s of vendor contractors / partners
- Internal audit and audit preparedness

Protiviti (Consultant) - CIO/vCISO

Oct 2020 to July 2021

Clients: AJG Insurance, [Shein](#), [PrimeTime Produce](#), [WideOrbit](#), [Planet Art](#), [FilmRise](#), and [Trigger Global](#).

RICOH – CISO / Director – Security, Risk & Compliance

June 2000- Oct 2020

Responsible for strategic leadership, end to end strategy, design, execution and governance of Information Security, Compliance and Privacy program meeting organizational requirements and Board approval. Worked with engineers to oversee the formation and operation of security and automation in the AWS cloud.

Risk & Compliance

- Audit preparedness and internal audit for various programs across RICOH working with product teams, legal and executive leadership.
- Led compliance initiatives (readiness, certification and audit) for SOC2, SOX, GDPR, HIPAA, HiTech, CCPA, COPA, PCI-DSS, Privacy Shield
- Design and document controls and test procedures for SOC2 Type 2 and ISO27k compliance for customer assurance with the company's internal controls supporting the product line.
- Policy, framework, governance and guidelines to manage risk across the company, risk reporting and risk / issue management.
- Third-party risk management, vendor security assessment, vendor management and compliance assurance.

Leadership

- Successfully designed, developed and implemented Application and Third Party Security Programs to automate the risk assessment process for 1P applications and 3P.
- Designed, developed and implemented cloud security tools, to bring greater transparency and improved security to digital supply chains for organizations (SIEM, EDR, SOC/NOC & following the sun monitoring)
- Developed and implemented enterprise security strategy and framework that consists of strategically integrated elements of NIST RMF and NIST CSF, SANS Critical Controls, ISO/IEC 27001/27002 and COBIT 5 for Information Security.
- Established application security practice, incorporating threat modeling and secure coding best practices into enterprise throughout SDLC.

Strategy and Planning

- Established application and third parties risk assessment methodologies, policies and procedures.
- Developed and communicated Acceptable Use policy, Mobile Device Management (MDM) and Bring Your Own Device (BYOD) policy, and many other security policies and standards to all users.
- Implemented largescale IAM solutions using OpenAM, MS-AD, AWS Cognito and MFA
- Led cloud first strategy to migrate 15+ of servers and services to Cloud (AWS) realizing speed and agility

Team Collaboration

- Collaborated with large departments to establish enterprise security framework to accomplish common information security objectives and leverage common tools to reduce costs.
- Coordinated the activities of Information Security Officers to define and establish unified program-wide approach to address cyber security issues and mitigate cyber security risks.



EDUCATION

- BS – Computer Science & Economics
- PGDCA - Computer Science
- Diploma Electronics
- Diploma - Computer Science

CERTIFICATIONS

- PMP
- AWS Solutions Architect (A)
- Google Cybersecurity Certification
- Certified Information Systems Security Professional (CISSP)
- Certified Cloud Security Professional (CCSP)
- Silver Peak SDWAN Professional (SPSP)
- Splunk Certification

TRAINING & COURSES

- Building Effective Team
- Conflict Resolution
- Certified Information Security Manager (CISM)
- Executive Leadership
- Advanced Silver Peak SD-WAN Deployments
- Splunk Administration
- ISO/IEC 27001 Lead Implementer
- Office 365 Administration

TECHNICAL SKILLS

- **SDLC Methodologies:** Waterfall, Agile Frameworks, Lean, DevOps
- **Information Security:** SOC, NOC, Red Team, Blue Team, Bug Bounty
- **Cloud:** AWS, Azure, GCP
- **SIEM:** Splunk, AWS Kibana, Snort, GrayLog
- **Productivity:** Jira, Bugzilla, Confluence, O365, Google Docs
- **Scanning:** Qualys, Lynis, CIS
- **Compliance:** SOC2-X, GDPR, HIPAA, HITECH, CCPA, COPA, SOX, PCI-DSS, ISO 27001, ISO 42001
- **Frameworks:** NIST CSF, NIS RMF, COSO, COBIT, NIST 800-53 (Security & Privacy Controls), CIS Top 20, OWASP, SANS
- **OS:** Windows, Linux (Debian, Ubuntu, CentOS, Redhat), Mac OS, FreeBSD
- **Security Tools:** Pen Testing, Code Scan, Firewalls, IDS, IPS, SolarWinds threat monitor, CISCO Stealthwatch, Symantec Endpoint protection, Nmap, Lynis, Wireshark, Metasploit, Open-source intelligence tools - Recon-ng, Spiderfoot, MX Toolbox
- **Programming** – SQL, Python, Scripting, Analytics & Dashboards
- **Solutions** – MFA, DNS, DLP, BCP, NIS, Wireless, WAN, LAN, Firewalls, SPLUNK, AWS Kibana, GrayLog, EDR, SSO, MDM,
- **IAM** – OpenAM, MS AD, AWS IAM, Cognito

A.DYSON BRUNO

Mobile: 9790360970, Email: dysonmech@gmail.com

<https://www.linkedin.com/in/dyson-bruno-1a789088/>



CAREER OBJECTIVE

To attain a challenging position in an organization, where I can put my best efforts to utilize and enhance my technical and professional horizon to play a vital role for the betterment of the organization.

EDUCATION

- Pursuing Ph.D in Part time- Anna University, Chennai
- M.E -Engineering Design, (2010-12 CGPA-7.63) Kongu Engineering college, Erode
- B.E - Mechanical Engineering, (2006-2010 with 71%) Erode Sengunthar Engineering College, Erode.
- HSC - John Paul Higher Secondary School (2006 with 70%) Dindigul.
- SSLC - John Paul Higher Secondary School (2004 with 85%) Dindigul.

ACADEMIC HONORS AND AWARDS

- Recipient of Innovative Professional Awards from the Society of Professional Engineers (SPE) on 28th Aug, 2016.

ACADEMIC AND TEACHING EXPERIENCE

- Working as Assistant Professor in PSNA College of Engineering & Technology since June 2012 (12 Years 03months of Experience)

COURSES HANDLED

UNDERGRADUATE

- Engineering Graphics
- Engineering Mechanics
- Strength of Materials
- Fluid Mechanics
- Manufacturing Technology-II
- Unconventional Machining Processes
- Design of Machine Elements and
- Applied Hydraulics & Pneumatics

POSTGRADUATE

- Mechanisms Design and Simulation

PROJECT PROFILE

- Investigations on the Properties of Sand Mould Casting Process Using Flyash. This project has been selected by *Tamilnadu State Council for Science and Technology*, approved and sponsored this project.
- Comparison of Vibration Characteristics of Hybrid Composite Plates with Magnesium Plates.
- Design and Fabrication of Universal Solar Drier.

PUBLICATION DETAILS

JOURNALS

- Purusothaman Mani, Sivaprakash Vetrivel, A Dyson Bruno, Subramani Sekar, Martin L, “Fabrication of TiO₂ nanotubes with effect of water and in-situ condition for biomedical application”, Environmental Quality Management, 2023.
- Rajaganapathy C, Rajamurugan TV, A Dyson Bruno, Murugapoopathi S, Armstrong M, “A study on tribological behavior of rice bran and karanja oil-based TiO₂ nano bio-fluids”, Materials Today: Proceedings, 57125-129, 2022.
- C Rajaganapathy; D Vasudevan, A Dyson Bruno, T Rajkumar, “Tribological and mechanical characteristics of AA6082/TiC/WC-based aluminium composites in dry and wet conditions” Materials Today: Proceedings, Volume 37, Page No: 1133-113, 2021.
- Jotiram Gujar, Anantkumar, Rohokale, Milind Shivaji, A Dyson Bruno, “Energy Valuation of Hydroxyalkanoates as Biopolymer Mediated Lignin Degradation of Lignocellulose Waste”, European Journal of Molecular & Clinical Medicine 2020.
- P. Vijay, S. Vinobalaji, A. Dyson Bruno, “Automatic Side Stand Retrieving System for Two Wheelers, International Journal of Engineering Research & Technology, Volume 7, Issue 06 Pg No:1-3, 2019.
- A.Dyson Bruno, S.Hari Vignesh, M.Vasundara, “Finite Element Analysis and Numerical Simulation of Composite Laminates”, International Journal of Recent Technology and Engineering, 2019.
- Dyson Bruno A, Hari Vignesh S, “Experimental and analytical investigations on passive viscoelastic constrained layer damping (VCLD) for steel plates”, International Journal of Mechanical Engineering and Technology, 911,568-573, 2018.
- Nagaraja. M , A Dyson Bruno, Anand Kumar.P, Gowtham.G, Hariharan.N, Jaya Srinath.N, “Performance testing of a Regenerative braking systems”, International Journal of Engineering Research & Technology, 6445383, 2018.
- M. Eswaran, A. Dyson Bruno, P. Emmanuel Nicholas, “Aerodynamic Design and Analysis of Horizontal Axis Wind Turbine (HAWT) Blades Using CFD” International Journal of Engineering Research & Technology, Volume 5, Issue 07 Pg No:1-4, 2017.
- A.Dyson Bruno, M.Baskaran, “Vibration Analysis on Passive Viscoelastic Constrained Layer Damping for Plates”, MASK International Journal of Science and Technology, Vol. 1, No. 4, Page No: 35-37, Dec 2016.

- L.Kavin Rajkumar, A.Dyson Bruno, D.Vasudevan, “Optimization of EDM Parameters for Tungsten Carbide Using Grey Relational Analysis”, International Journal of Applied Engineering Research, Vol.10 No. 39, Page No: 29801-29805, 2015.
- L.Kavin Rajkumar, A.Dyson Bruno, “Design and Analysis of Shear Stress Reduction in aero-fin holed spur gears”, International Journal of Engineering Research, Science & Technology, Vol.3 No. 3, Page No: 39-45, Aug 2014.
- A.Dyson Bruno, M.Baskaran, “Analysing the Mechanical Properties of Natural Fiber Reinforced Polymer Composites Using FEA”, International Journal of Engineering Sciences & Research Technology, Vol No. 3, Page no: 269-282, Jan 2014.

CONFERENCE

Sl · N O	Name of the Conferences	Name of the Institution	Title of the paper	Year
1	Advances and Challenges in Mechanical Engineering - ACME 2010	ESEC	Insvestigations on the Properties of sand mould casting process using Fly Ash	25 th,26 th March, 2010
2	Tamil Nadu State Council for Science & Technology	TN Government	Insvestigations on the Properties of sand mould casting process using Fly Ash	2009-10
3	Universal Innovations in Mechanical Engineering (UIME 2011)	K.S.R College of Engineering	Insvestigations on the Properties of sand mould casting process using Fly Ash	11th Feb, 2011
4	Advances in Mechanical Sciences AIMS2012	Fatima Michael College of Engg., & Technology	Improvement of Passive Visco Elastic Constrained Layer Damping for Cantilever Beam & Plates	24 th March, 2012
5	International Conference on Advances in Contruaction,Manufacturing & Automation Research(INCACMA 2012)	Kongu Engineering College	Passive Visco Elastic Constrained Layer Damping for Cantilever Beam & Plates	30th & 31 st March, 2012
6	International Conference on Science, Engineering & technology (SET)	VIT University , Vellore	Experimental & Analytical Investigations on Passive Visco Elastic Constrained Layer Damping	3rd & 4th May, 2012
7	Recent Trends in Mechanical Engineering NCRTE 2013	Christian College of Engineering & Techology	Passive viscoelastic constrained layer damping for beams and plates	2013
8	International Conference on Future Trends in Engineering and Technology	PSNA CET	Optimization of EDM Parameters for Tungsten Carbide using Grey Relational Analysis	2015

WORKSHOPS/SEMINARS/FDP ATTENDED

S. No	Name of the Workshops/Seminars/Training/FDP	Name of the Institutions	No. of Days	Year
1	Foundation in Mechanical CADD	CADD Training Services, Erode	3 Months	23rd April 2009
2	Thermal Systems Modelling Using Matlab & CFD Analysis Using Fluent	Kongu Engineering College	3 Days	24 th to 25 th Jan 2012
3	KOM- FTP	PSNA CET	7 days	4th to 10th June 2012
4	Instrumentation design & Delivery Systems	PSNA CET	5 days	25 th Feb to 1 st March, 2013
5	Design of Experiments and Reliability in Engineering Optimization	IIT-Madas	6 Days	19th to 24th Dec, 2014
6	ANSYS & CFD Training	PSNA CET	3 days	01 August 2015
7	CATIA V5-6R2016	PSNA CET	3Days	2nd to 4th May 2016
8	Special technical Skills in Structural and Object Oriented Programming	PSNA CET	3 Days	4th to 6th Jan 2017

PAPER PUBLICATION/EVENTS DETAILS

S. No	Programme Name	EVENT	Name of the Instituion	Date	Year
1	Excapade 2008	CAD QUEST	Park College of Engineering & Technology, Cbe	29th,30th Sep	2008
2	Excapade 2008	Project Presentation	Park College of Engineering & Technology, Cbe	29th,30th Sep	2008
3	Plasma 2009	Quiz (Second Prize)	Paavai Engineering College, Namakkal	30th Sep	2009
4	Plasma 2009	Paper Presentation	Paavai Engineering College, Namakkal	30th Sep	2009
5	Yantram 2009	Paper Presentation	Dr. M.G.R. Educational & Research Institute University	09th April	2009
6	Dynamech 2009	Paper Presentation	P.S.R Engineering College	11th March	2009
7	Mechofest 2009	Paper Presentation	SSM College of Engineering,	27th March	2009
8	Zaplon 2009	Project Presentation	Adhiyamaan College of Engineering, Hosur	2nd& 3rd April	2009
9	Sports day 2007-08	Chess Competition (II Place)	ESEC		2007-08

PERSONAL PROFILE

Date of Birth : 13th February 1989
Age : 34 Years
Father's Name : M. Arulappan
Gender : Male
Nationality : Indian
Marital Status : Married
Languages Known: Tamil, English
Hobbies : Solving Suduko & Puzzles

REFERENCE

1. Dr. G. R. Kannan Ph.D.,
Professor,
Department of Mechanical Engineering,
PSNA College of Engineering & Tech.,
Dindigul.
2. Dr. K. M. Arun Raja ME., Ph.D,
Dean R&D and COE,
Department of Mechanical Engineering,
Sri Venkateshwara Institute of Technology,
Coimbatore.

DECLARATION

I hereby declare that all the information stated above are true, correct and complete to the best of my knowledge

Place: Dindigul
Date : 10.05.2024

(A.DYSON BRUNO)



DEVENDRA N. TANDEL

Assistant Professor
Electrical Engineering Department,
Government Engineering College, Valsad

E-mail: dntandel@gecv.ac.in

Mobile: 9825997422

EDUCATION

ME in Electrical (Power Electronics and Machine Drives) Nirma University, Ahmedabad	2009
BE in Electrical Engineering Lukhdhirji Engineering College, Morbi	2007
Diploma in Electrical Engineering Government Polytechnic, Valsad	2003

TEACHING EXPERIENCE

Assistant Professor Government Engineering College, Valsad	2016-present
Assistant Professor S. N. Patel Institute of Technology and Research Centre, Umrah	2009-2016

TECHNICAL SKILLS

- Computer Aided Design packages: MATLAB, Psim, Keil, Ansys.
- HTML, PHP Web Development,

WORKSHOP / TRAINING ATTENDED

- "INDUCTION TRAINING PROGRAMME PHASE - I" at NITTTR, Regional Centre, Ahmedabad during 24/07/2017 to 04/08/2017 (Two Week)
- "Recent Technical Innovation and Development in Electrical Engineering" at Online training program organized by DTE, Gandhinagar during 1/1/18 to 11/1/18 (One Week)
- "Conditioning Monitoring of Power Transformer" at IITRAM, Ahmedabad during 05/03/2018 to 09/03/2018 (One Week)
- "Renewable Energy Technology" at NITTTR, Bhopal during 1 JULY 2019 to 5 JULY 2019 (One Week)
- "Electric Vehicles - Part 1" at NPTEL MOOC during 25 FEB 2019 to 20 MAR 2019 (One Week)
- "NBA ACCREDITATION" at NITTTR, AHMEDABAD during 26th Aug 2019 to 30th Aug 2019 (One Week)
- "Comprehensive Online Intellectual Property Rights (IPR)" at Gujarat Student Startup and Innovation Hub during Jul 6, 2020 to Sep 14, 2020.
- "Current Trends of Power Electronics Applications in Electric Vehicles" at Government Engineering College, Valsad during June 7, 2021 to June 11, 2021.
- "Introduction to Embedded System Design" at NPTEL-IIT, Madras during Jan 23, 2023 to Apr 14, 2023.
- "Design of Photovoltaic Systems" at NPTEL-IISC, Bangalore during Jul 24, 2023 to Oct 13, 2023.

PROFESSIONAL MEMBERSHIPS

- Life Member, Indian Society for a Technical Education
- IEEE Power Electronics Society Member for one year (2012-2013)
- Electronics for You 3Years Readers Member

PORTFOLIOS

- | | |
|---|---------------------|
| ▪ Institute NBA Co-Coordinator. | 2019-present |
| ▪ Institute Tech-fest Coordinator. | 2017-present |
| ▪ Institute Network Committee Member. | 2017-present |
| ▪ Institute Website Development Coordinator | 2019-present |
| ▪ Institute Anti Ragging Committee member. | 2019-present |
| ▪ Electrical Department NBA coordinator. | 2018-present |
| ▪ Electrical Department SSIP- Fab Lab Committee member. | 2017-present |

ACADEMIC PROJECTS GUIDED

- GSM based Solar Water Pump System
- BLDC motor-based DC Fan
- Smart-eye for Blind people
- Smart Library System

PUBLICATIONS

Journal Papers

- “Design, Simulation and Realization of Coreless Induction Heating by Induced Eddy Current in Conducting Work Piece”, SPECIAL ISSUE EIOCD-2015, ISSN: 2394-1766
- “Power Factor Correction by using Boost Converter”, EIOCD-2015, 11th April, 2015, ISSN: 978-81-929339-1-7
- “Design of a wide input range of power factor correction circuit using DSP (TMS320F2811) for single phase application”, EIOCD-2015, 11th April, 2015, ISSN: 978-81-929339-1-7

Conference Papers

- Presented a paper titled “Simulation Programming and Analysis of the Novel Technique for DC Drive for Electric Hoist Application” at the International Conference on Electrical Energy Systems & Power Electronics in Emerging Economies (ICEESPEEE '09) organized at SRM University, Chennai during 16th -17th April 2009.
- Presented a paper titled “Design and Implementation of Single Phase Single Switch Active Power Factor Corrector using DSP(TMS320F2811)” at the International Conference on Electrical Energy Systems & Power Electronics in Emerging Economies (ICEESPEEE '09) organized at SRM University, Chennai during 16th -17th April 2009.
- Presented a paper titled “Simulation and Implementation of DSP based Excitation Control System” at the International Conference on Electrical Energy Systems & Power Electronics in Emerging Economies (ICEESPEEE '09) organized at SRM University, Chennai during 16th -17th April 2009.
- Presented a paper titled “Simulation of the Novel Scheme of DC Drive for Electric Hoist Application” in a National Level Conference “NUCONE-2008”. This conference was organized at Nirma University, Ahmedabad during 27th – 29th Nov. 2008. The conference was conducted for addressing the new technical advancements in the field of Electrical engineering.
- Presented a paper titled “Simulation of the Novel Technique for DC Drive for Crane Application” in an International Conference (TECHPOS2009) for Technical Postgraduates at the University of Malaya, Malaysia during 14th – 15th December 2009. **PAPER IS AVAILABLE ON IEEE X-plore**
- Presented a paper titled “Simulation of the Novel Technique for DC Drive for Crane

Application” in an International Conference (TECHPOS2009) for Technical Postgraduates at the University of Malaya, Malaysia during 14th – 15th December 2009.

- Paper Published titled as "Power Factor Correction by using Boost Converter" at the International Conference on: "Engineering: Issues, opportunities and Challenges for Development" on 11th April, 2015.

CONSULTANCY WORK

- TPQA for Electrical work as per IS at Dandi Memorial, Dandi Heritage, Navsari for 2019 to 2020 this project works worth Rs. 10Cr.
- TPQA for Electrical work as per IS of newly constructed Hostel, Quarters, Lecture Hall and Admin Budling at SVNIT, Surat from 2022 to till date this project work worth more than Rs. 200Cr.

SUBJECT TAUGHT

- Power Electronics
- Microprocessor and Microcontrollers
- Elements of Electrical Engineering
- Basic Electrical Engineering
- Control of Electrical Drives
- Basic Electronics

Gaurav Joshi

Mobile: 9892500408 ~ E-Mail: gaur_l@yahoo.com

SENIOR MANAGEMENT ASSIGNMENTS

Sales ✦ Tech AI Cloud ✦ Business Development ✦ Marketing & Strategic Planning ✦

PROFESSIONAL PROFILE

- ⌘ A dynamic sales professional with over 20 years of experience in leading Tech Sales.
- ⌘ Deftness in establishing a Latest Tech software sales in AI / Cloud networks thereby enhancing market reach for business excellence.
- ⌘ Recognized for innovative start-up solutions; a highly positive individual with excellent communication skills, adapting easily to changing environments.

ORGANISATIONAL EXPERIENCE

Tatva Cloud, Mumbai, Sales Director, Jun'24

Accountabilities

- ↪ Software sales of cloud solution in CRM, AI, ERP, cloud infra – Freshworks, AWS, Azure services

Notable Credits

- ↪ Business revenues with competitive positioning CRM, AI chatbot and cloud hosting.

Edikos Enterprises, Mumbai, Director, Aug'22

Accountabilities

- ↪ Bulk sales of Electric vehicle (EV) chargers to OEM, enterprises, parking operators and housing societies. Product designed and support from various Govt scheme "startup India".

Notable Credits

- ↪ Business revenues with competitive positioning for Made-In-India products.

Gardenpaper, Mumbai, Founder, Aug'19

Accountabilities

- ↪ Manufacturing and exporting exquisite handmade Carpets – local for vocal. Complete customization of carpets - design, dimension, dyes and materials (Silk / Woollen). Exports to Dubai and Belgium.
- ↪ Independent consultant to identify opportunities for solutions with policy and frameworks for Electric Vehicles [commercial], Minerals sourcing, OTT platforms, Agricultural equipment manufacturing.

Notable Credits

- ↪ Business revenues positioning for Made-In-India products exports to strategize investor funding.
- ↪ Complete logistics for carpets for exports with multiple agencies to cover South Africa and EU.

Oracle, Mumbai as Senior Business Manager (Cloud platform) since Oct'14-Aug'19

Accountabilities

- ↪ Sales for Cloud services and License for emerging technology areas of Blockchain, AI/ML.
- ↪ Focus for aligning strategic digital transformation journey of customer with Oracle cloud services.

Notable Credits

- ↪ Responsible for business revenue from Major Telco Cloud deal structuring.
- ↪ Oracle President club winner throughout.

VPCG Exim Pvt Ltd, Mumbai, Management Consultant, May'13-Oct'14

Accountabilities

- ↪ Consulting IT solutions with partners setup solution offering – IoT, AI/ML, Healthcare.

Notable Credits

- ↪ Sales closure of multiple opportunities for IoT.

Teradata, Mumbai as Solution Sales since Oct'08

Accountabilities

- ↻ Anchoring New Customer acquisitions with new business of USD 4M

Notable Credits

- ↻ Consistently achieved & exceeded YoY business quota exceeding USD 3M
- ↻ Received prestigious Teradata President honor multiple times

Wipro Technologies, Helsinki as Business Development Manager from Sept'06 – Sept'08

Accountabilities

- ↻ Customer business growth for Clients in Nordics (EU) – Ikea, Nokia.
- ↻ Handling cross sell and upsell in existing accounts for business growth

Notable Credits

- ↻ Significantly developed business growth by 15% and reduction in onsite costing by 10%.
- ↻ Substantially achieved Revenue of USD 10 M & Achieved more than 100% quota YoY.

Megasoft, Hyderabad as Business Development Manager – from Dec'04 – Aug'06

Accountabilities

- ↻ Strategizing business opportunities for MVNO business unit and winning new accounts
- ↻ Sales across European Operators to create market awareness & demand creation

Notable Credits

- ↻ First sale for MVNO Solution and Managed Services, filed a US Patent, Client appreciations
- ↻ Substantially achieved sales targets in range of USD 100K monthly new accounts Teleglobe, TomTom

Wipro Technologies, Dublin (Ireland) as Onsite Manager from Oct'99 – Jul'03

Accountabilities

- ↻ Sell strategically client engagement for product and development outsourcing services.
- ↻ Directing the business process for increase of professional services Outsourcing projects from Lucent.

Notable Credits

- ↻ Significantly designed improvements for outsourcing growth solutions for clients to increase outsourcing contract for Wipro.
- ↻ Substantially enhanced the growth of account by 60%. Significant account growth by 35%

Lucent Technologies, Delhi as Client Engagement Manager - Jul'96 – Aug'99

Accountabilities

- ↻ Oversee product usage and operations for engaging the customer
- ↻ Targeting business growth with Telecom Majors – BSNL, DoT, Escotel

Notable Credits:

- ↻ Growth of equipment usage customer appreciation
- ↻ Increase of geographic area coverage from Kerala to Karnataka also.

SCHOLASTICS

MBA – Marketing: Kellogg Northwestern University, US, 2004

B.E. (Electronics): Nagpur University, Nagpur, 1996

CORE COMPETENCIES

- Creating & executing business plan for achievement of topline & bottom line targets.
- Youtuber – @gardentalkclub

CURRICULUM VITAE

Education:

Ph.D. (Electronics), Doctorate from VJTI Mumbai (Affiliated to Mumbai University) in 2019.

M.Tech (Electronics), Shri Guru Govind Singhji Institute of Engineering & Technology, Nanded (An Autonomous Institute of Govt. of Maharashtra) Affiliated to SRTMU, Nanded (2010)

B.E. (Electronics & Telecommunication), with First Class from Government Engineering College, Amravati affiliated to Saint Gadgebaba Amravati University, Amravati (2006).

GATE Examination Qualified: - **1)** 2007 with *AIR- 3000*, **2)** 2009 with *AIR- 2212*, **3)** 2011 with *AIR 766* **4)** 2012 with *AIR 832*.



Personal Information:-

Name:- *Rahul Ramdas Ingle*

DoB:- *08 June, 1985*

Contact No:- *9730761090,7588496103*

Email Id:-
1) rahulingle92@gmail.com
2) rringale@vjti.org.in

Languages Known:- *Marathi, English, Hindi*

Computer Proficiency:- *MSCIT, MATLAB, SCILAB, PYTHON, Open CV, C/ C++ language.*

Nationality:- *Indian*

Address:-
s/o RAMDAS D INGLE
JAWAHAR NAGAR, VMV ROAD,
AMRAVATI-444604.

Work Experience: Total experience: - 131 months (10 years, 11 months)

Sr. No.	Name of the Employer	Period of service in each post (Duration in Months)		Designation of post held	Nature of work and level of responsibilities
		From	To		

1	V.J.T.I., MUMBAI <i>(An autonomous institute of Govt of Maharashtra)</i>	18.04.2011	Till Date	Lecturer (Selection Grade)	Teaching, Lab Development, Administrative work.
2	Sipna's College of Engineering and Technology, Amravati	01.01.2010	15.04.2011	Assistant Professor	Teaching, Lab development activity.
3.	HVPM College of Engineering and Technology, Amravati	16.04.2007	28.07.2008	Lecturer	Design & Developments in Real Time Environments.

Ph D Thesis:

Impact Analysis of Meditation on EEG signals: A Case Study

Under Guidance of Prof R. N. Awale, Professor, VJTI, Mumbai India.

Active Research Area:

- *Data Analytics, Data Science and Machine Learning*
- *Electronics Devices and Circuits*
- *Digital Signal Processing, Digital Image Processing*
- *Network Analysis, Control System , Signals & System*

List of PUBLICATION:

1. ***A Unique Approach of Noise Elimination from Electroencephalography Signals between Normal and Meditation State***, R.R.Ingle, R N Awale, *International Journal of Engineering-Transactions B: Application* , doi:10.5829/ije. 2018.31.04a.06 Published in 2018 (SCI and Scopus Indexed Journal).
2. ***Classification of EEG Signals during Meditation and Controlled State Using PCA, ICA, LDA and Support Vector Machines***, Rahul Ingle, Sonal Oimbe, Vikram Kehri, R N Awale, *International Journal of Pure and Applied Mathematics* Volume 118 No. 18 2018, 3179-3190. (Scopus Indexed)
3. ***Detection of Soil Water Content Using Continuous Wave Ground Penetrating Radar***, Sonal Oimbe, Rahul Ingle, Shashikant Sahare, R N Awale, Published in R Ingle, RN Awale - JOIV: *International Journal on Informatics Visualization*, 2018, doi:- 10.30630/joiv.2.1.104 (Scopus Indexed)
4. ***A Review on Classification of EEG Signals of Different States***, Rahul Ingle, Digambar Puri, Vikram Kehri, RN Awale, *International Journal Of Scientific Progress and Research (IJSPR)*, Volume-12, Number - 01, 2015
5. ***Epileptic Seizure Detection using Discrete Wavelet Transform based Support Vector Machine***,

Prashant Deshmukh, Rahul Ingle, Vikram Kehri, R N Awale Published in *IEEE conference ICCSP-ASP* in January 2007.(Scopus Indexed)

6. **Comparative Classification of EEG signals during Vipassana Meditation using wavelet transform**, R R Ingle and R N Awale, submitted to *Elsevier Journal of Biomedical Signal Processing and Control*, August 2019. *Accepted*. (Scopus and SCI Indexed)
7. **Support Vector Machine based Classification of EEG Signals For Alcoholic and Controlled state using Wavelet Packet Transform**, R R Ingle, Sonal Oimbe, R N Awale , Published in International Conference of Signal Processing, Goa held by Technical Research Organization of India (TROI). *Conference proceeding at IJACET* with ISSN (PRINT):2394-3408,(ONLINE):2394-3416,VOLUME-3,ISSUE-6,2016.
8. **Techniques of EMG signal analysis and classification of Neuromuscular diseases**, Vikram Kehri, Rahul Ingle, Sonal Oimbe, R N Awale, Published in *Atlantis Press of ICCASP- 2016 held at DBATU, Lonere*.
9. **Wavelet Packet Sub-band Based Classification of Alcoholic and Controlled State EEG Signals**, Digambar Puri, Rahul Ingle, Pramod Pramod Kachare, R N Awale, Published in *Atlantis Press of ICCASP- 2016 held at DBATU, Lonere*.
10. **Analysis of EEG signals during meditation using Wavelet Transform**, R R Ingle and R N Awale, *IEEE Journal of Signal Processing*, Sept 2014.
11. **Performance Model for Fast Fourier Transform**, R R Ingle and R N Awale, *International Journal on Signal Processing (IJSP-2013)*, vol. 8, issue 3, 36-42, March 2013.

Project Completed:

- Successfully completed **MODROB project by AICTE** for Communication Laboratory for the year 2012-2014 from AICTE worth grant of Rs. 14 lac.
- Successfully Set up **Biomedical Research Lab** (Under Government of Maharashtra Grant worth Rs.5.18 Cr) as Co-Principal Investigator.
- Currently working on the Project “Impact of Meditation on EEG signals” as Principal Investigator funded by **PORTESCAP Ltd, Andheri** (Corporate Social Responsibility (CSR Fund) of Rs. 18 Lac).
- Successfully completed the Project “Effect of Different aroma in EEG signals” as Principal Investigator funded by **Marico Ltd, Andheri** (Corporate Social Responsibility (CSR Fund) of Rs. 18 Lac).

Other Activities:

- **Lab Incharge of Communcation Laboratory** in Autonomous VJTI Mumbai 2011-Till date.
- **NBA coordinator** of Electronics Stream at Department.
- Worked as **Sub District Liaison Officer** for conducting MT-CET Exam 2013 in Mumbai City for Government of Maharashtra.
- Merit List verification Officer in RO DTE Mumbai for year 2012, 2013.
- Member of **AICTE Inspection team** for different Engg. Colleges in India.
- Member of **DTE committee** for inspection of Diploma Courses.
- Life member of **ISTE and IETE**.

- *Member of IEEE.*
- *Working as a **Sub District Liason Officer** for Conducting MHT-CET Exam 2017 in Mumbai City for Government of Maharashtra.*
- ***Consultant** for Brihan Mumbai Municipal Corporation (BMC) for calibration of weighing machine at dumping yard Deonar.*

Workshop Conducted for VJTI:

- *Coordinator for TEQIP Sponsored two week Workshop on “**Signal and Image Processing with wavelet**” from 16th-25th, Dec 2013 in VJTI Mumbai and generated a total revenue of Rs. 1,05,000/- for institute.*
- *Coordinator for four days Training Programme on , “**TEQIP MIS**” by NPIU/SPFU Maharashtra state on 10th- 13th , March 2014 at VJTI Mumbai.*
- *Coordinator for one day Training Programme on , “**TEQIP eFMR**” by NPIU/SPFU Maharashtra state on 16th,April 2014 at VJTI Mumbai.*
- *Coordinator for one week **International Workshop** under TEQIP II on “**25 YEARS OF PASSIVITY BASED CONTROL: NEW VISTAS**” in VJTI Mumbai from 19th-23rd, May 2014.*
- *Coordinator for one week TEQIP Sponsored workshop on “**A GEOMETRIC APPROACH TO THE MODELLING AND CONTROL OF MECHANICAL SYSTEMS**”, at IIT Bombay For VJTI Mumbai from 5-9 May 2014.*
- *Coordinator for one week TEQIP Sponsored workshop on “**Networked and Embedded Control for Complex Systems**”, by IIT Madras at VJTI Mumbai from 15-19 Dec 2014.*
- *Coordinator for one week TEQIP Sponsored workshop on “**Nonlinear & Optimal Control**”, by IIT Bombay at VJTI Mumbai from 24,25,26, 31 Jan & 1 Feb 2015.*
- *Coordinator for One week AICTE Sponsored QIP on “**Biomedical Instrumentation & Signal Processing**” on 29thFeb- 5th March 2016 at VJTI Mumbai.*
- *Coordinator for One week AICTE Sponsored QIP on “**Antenna, RF & Microwave System Design**” on 8- 13 March 2016 at VJTI Mumbai.*
- *Coordinator for One week AICTE Sponsored QIP on “**High Voltage & Partial Discharge**” on 14-19 March 2016 at VJTI Mumbai.*
- *Coordinator for One week AICTE Sponsored QIP on “**New Trends in Biomedical Signal Processing**” on 16-21 Jan 2017 at VJTI Mumbai.*
- *Coordinator for Conducting Two days SPFU, Government of Maharashtra sponsored workshop on “**Finance and Accounts**” on 8-9 Feb, 2017.*

- *Coordinator for conducting Two Weeks AICTE Sponsored QIP on “Machine Learning application for Engineers”.*

Rahul Ingle

Dr. G. Pradeep Reddy

Assistant Professor

Department of Information and Communication Technology
Manipal Institute of Technology, Manipal Academy of Higher Education
Manipal 576104, Udipi district, Karnataka, India



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Permanent Address: #1-24/1, Narayanapuram, Sathupally (Md), Khammam (Dt), Telangana, 507303, India

OBJECTIVE

Being a creative, promising, and qualified educator with varied experience, I would like to be associated with a progressive organization that would give me a scope to update my knowledge and skillset. With my technical prowess, I aim at achieving the best of careers in a versatile working ecosystem with sheer perseverance and commitment.

EDUCATION

Doctor of Philosophy (Ph.D.) (Full-time): School of Electronics Engineering, VIT-AP University, Andhra Pradesh, India (2019-2023)

Specialization	Communication Engineering
Thesis Title	Analysis and Improvement of Communication Network Performance for Interoperable Smart Microgrids
Supervisor	Dr. Y. V. Pavan Kumar, Associate Professor
Grade	9/10 CGPA

Master of Technology (M.Tech.): Communication Engineering, VIT University, Vellore, Tamil Nādu, India (2008-2010), 8.29/10 CGPA

Bachelor of Technology (B.Tech.): Electronics and Communication Engineering, Mother Teresa Institute of Science and Technology (MIST), JNT University, Hyderabad, Telangana, India (2003-2007), 67.65%

Intermediate (or 12th): MPC (Mathematics, Physics, Chemistry), New Generation Junior College, Khammam, Telangana, India (Aff. Andhra Pradesh Board of Intermediate Education) (2001-2003), 86.90%

S.S.C. (or 10th): Vani Vidyalayam, Sathupally, Telangana, India (Aff. Andhra Pradesh Board of Secondary Education) (2000-2001), 72.50%

PROFESSIONAL EXPERIENCE (Total Experience: 11 Years)

Employer	Designation	Research Center/Department	Duration
Kookmin University, Seoul, South Korea	Post-Doctoral Research Fellow	Special Communication and Convergence Service Research Center	Aug 2023- July 2024
Gokaraju Rangaraju Institute of Engineering and Technology, Telangana, India	Asst. Professor	Electronics and Communication Engineering	Apr 2015- Feb 2020
Nova College of Engineering and Technology, Telangana, India	Asst. Professor	Electronics and Communication Engineering	Jun 2011- Mar 2015
Lovely Professional University, Jalandhar, Punjab, India	Asst. Professor	Electronics and Communication Engineering	Dec 2010- May 2011
Sai Spurthi Institute of Technology, Telangana, India	Asst. Professor	Electronics and Communication Engineering	Jul 2007- Jul 2008

RESEARCH TOPICS

Subjects / Technologies : Internet of Things (IoT), Wireless Communications, LoRa (Long Range), Machine Intelligence, Embedded Systems, Edge Computing

Applications : Underwater, Maritime, Smart Building, Smart Grid, Smart City, Healthcare

SKILLS

Microcontrollers/Processors : Customized Hardware Platforms, Underwater Hybrid Software-Defined Modem (UHSDM), Raspberry Pi, NVIDIA Jetson Nano, Arduino

Software/Tools/Platforms : Packet Tracer, NetSim, Multisim, Tableau, Anaconda, EAGLE, MATLAB

Programming Languages : C, Python

CERTIFICATIONS AND PROFESSIONAL MEMBERSHIPS

- Amateur Station Operator's Certificate Examination (HAM Radio License, Call sign: VU2LWE)
- Certified by NPTEL in “Introduction to Machine Learning”, 2020
- Certified by Coursera in “The Bits and Bytes of Computer Networking”, 2020
- Certified by Coursera in “Electric Power Systems”, 2020
- Certified by Coursera in “Machine Learning”, 2019
- Senior Member of IEEE (Institute of Electrical and Electronics Engineers) (SMIEEE) (ID: 99419575)
- Member of International Association of Computer Science and Information Technology (IACSIT) (ID:80342472)
- Life Member of Indian Society for Technical Education (ISTE) (ID: LM 129444)
- Member of International Association of Engineers (IAENG) (ID:112010)

APPRECIATIONS/AWARDS

- Silver Medal at India International Innovation & Invention Expo (INEX), held at Goa, India for the contribution titled “Retrofitted Device for Energy Meters”, 2022
- Research Excellence award for the academic year 2021-22 by VIT-AP University, 2022
- Stood in the top 5% merit list in Machine Learning Course offered by NPTEL, India, 2021
- Best paper award at International Conference on Advances in Computer Engineering and Communication Systems (ICACECS), Hyderabad, India, 2020 for the paper titled “A New 5-layer Model Approach for Pneumonia Prediction”
- The Confederation of Elite Academicians of India Innovation Challenge Design Contest (IICDC) recognized by AICTE, Texas Instruments, IIM Bangalore, and DST (Govt. of India), 2019
- Top Performing Mentor for Introduction to the Internet of Things by NPTEL (a project of MHRD, Govt. of India), 2019
- Best Performing Mentor Award at CISCO IoT hackathon, 2017

RESEARCH SERVICES

I served in various capacities such as a reviewer, editorial team member, and more for the following (selected)

- 4th International Conference on Electrical, Computer and Energy Technologies (ICECET 2024) (IEEE)
- Young Editorial Advisor for the Journal Digital Technologies Research and Applications (2024)
- International Journal of Mathematical, Engineering and Management Sciences (IJMEMS 2024)
- Al-Qadisiyah Journal for Engineering Sciences (QJES 2024)
- Book titled "Adopting Artificial Intelligence Tools in Higher Education - Teaching and Learning" (2024) (CRC Press)
- International Conference on Artificial Intelligence, Computer, Data Sciences and Applications (ACDSA 2024) (IEEE)
- International Conference on Applied Intelligence and Sustainable Computing (ICAISC 2023) (IEEE)
- International Conference on Computing Science, Communication and Security (COMS2 2023) (Springer)
- 7th International Conference on Computational Systems and Information Technology for Sustainable Solutions (CSITSS 2023) (IEEE)
- IEEE Mysore Subsection Flagship International Conference (IEEE MysuruCon 2022)
- 2nd International Conference on Computer Science, Engineering and Applications (ICCSEA 2022)
- Indonesian Journal of Electrical Engineering and Computer Science (IJEECS)
- 6th International Conference on Recent Advances and Innovations in Engineering (ICRAIE 2021) (IEEE)
- International Conference on Computational Intelligence and Data Analytics (ICCIDA 2018)
- IEEE Symposium on Computer Applications & Industrial Electronics (ISCAIE 2018)
- IEEE International Conference on Control System, Computing and Engineering (ICCSCE 2015)
- IEEE Asia-Pacific Conference on Applied Electromagnetics (IEEE APACE 2014)
- Reviewed Book Chapter for Oxford University Press India (2013)
- IEEE Symposium on Wireless Technology and Applications (ISWTA 2012)
- 3rd International Conference on Computer Technology and Development (ICCTD 2011)

RESEARCH PUBLICATIONS

Journals:

1. **G. Pradeep Reddy**, Y. V. Pavan Kumar, K. Purna Prakash, Mohammad Amir, and Mohd. Asim Aftab, "Real-Time Implementation of Communication Network for Interoperable Smart Microgrids Using LoRa," *Elsevier Computers and Electrical Engineering*, 2024. ([Under Review](#))

2. **G. Pradeep Reddy** and Y. V. Pavan Kumar, “Advancing Machine Learning with MLOps: A Comprehensive Review of Key Concepts, Tools, and Challenges in Operationalizing Production,” *Springer Multimedia Tools and Applications*, 2024. ([Under Review](#))
3. D. Rohan, **G. Pradeep Reddy**, Y. V. Pavan Kumar, K. Purna Prakash, and Ch. Pradeep Reddy, “An Extensive Experimental Analysis for Heart Disease Prediction using Artificial Intelligence Techniques,” *Scientific Reports*, 2024. ([Under Review](#))
4. G. Lithesh, N. Naga Sai, T. Sai Teja, K. Purna Prakash, Y.V. Pavan Kumar, K. Ravindranath, and **G. Pradeep Reddy**, “Unveiling Insights: A Comprehensive Bibliometric Analysis of Generative Artificial Intelligence,” *Engineering Access*, 2024. ([Under Review](#))
5. Shrutika Sinha, **G. Pradeep Reddy**, and Soo-Hyun Park, “Wireless Link Quality Prediction in Maritime Environments using Artificial Intelligence,” 2024. ([Under Review](#))
6. You Sung Choi, **G. Pradeep Reddy**, and Soo-Hyun Park, “Exploring the Scientific Landscape of Underwater Communication Research,” 2024. ([Under Review](#))
7. **G. Pradeep Reddy**, S. Sinha, and Soo-Hyun Park, “Analysis of Research Trends in Maritime Communication,” *International Journal of Advanced Computer Science and Applications*, vol. 15, no. 6, pp. 699–705, Jul. 2024, doi: <https://doi.org/10.14569/IJACSA.2024.0150670>. ([ESCI and Scopus Indexed](#))
8. K. Purna Prakash, Y. V. Pavan Kumar, K. Ravindranath, **G. Pradeep Reddy**, M. Amir, and B. Khan, “Artificial Neural Network Based Data Imputation for Handling Anomalous Energy Consumption Readings in Smart Homes,” *Sage Energy Exploration & Exploitation*, 2024, doi: <https://doi.org/10.1177/01445987231221877>. ([SCIE and Scopus Indexed](#))
9. K. Purna Prakash, Y. Venkata Pavan Kumar, K. Himajyothi, and **G. Pradeep Reddy**, “Comprehensive Bibliometric Analysis on Smart Grids: Key Concepts and Research Trends,” *MDPI Electricity*, vol. 5, no. 1, pp. 75–92, Feb. 2024, doi: <https://doi.org/10.3390/electricity5010005>. ([ESCI and Scopus Indexed](#))
10. **G. Pradeep Reddy** and Y. V. Pavan Kumar, “Next-Generation Approaches to Vegetation Management in Smart Cities with Digital Intelligence,” *IEEE Smart Cities eNewsletter*, 2023.
11. **G. Pradeep Reddy**, Y. V. P. Kumar, and M. K. Chakravarthi, “Communication Technologies for Interoperable Smart Microgrids in Urban Energy Community: A Broad Review of the State of the Art, Challenges, and Research Perspectives,” *MDPI Sensors*, vol. 22, no. 15, p. 5881, 2022, doi: <https://doi.org/10.3390/s22155881>. ([SCIE and Scopus Indexed](#))
12. **G. Pradeep Reddy** and Y. V. Pavan Kumar, “Internet of Things Based Communication Architecture for Switchport Security and Energy Management in Interoperable Smart Microgrids,” *Springer Arabian Journal for Science and Engineering*, vol. 48, no. 5, pp. 5809–5827, May. 2023, doi: <https://doi.org/10.1007/s13369-022-07056-1>. ([SCIE and Scopus Indexed](#))
13. **G. Pradeep Reddy**, Y. V. P. Kumar, M. Kalyan Chakravarthi, and A. Flah, “Refined Network Topology for Improved Reliability and Enhanced Dijkstra Algorithm for Optimal Path Selection during Link Failures in Cluster Microgrids,” *MDPI Sustainability*, vol. 14, no. 16, p. 10367, 2022, doi: <https://doi.org/10.3390/su141610367>. ([SCIE and Scopus Indexed](#))

14. **G. Pradeep Reddy** and Y. V. Pavan Kumar, "Retrofitted IoT Based Communication Network with Hot Standby Router Protocol and Advanced Features for Smart Buildings," *International Journal of Renewable Energy Research (IJRER)*, vol. 11, no. 3, pp. 1354–1369, 2021, doi: <https://doi.org/10.20508/ijrer.v11i3.12222.g8276>. (ESCI and Scopus Indexed)
15. **G. Pradeep Reddy** and Y. V. Pavan Kumar, "Future Wireless Communication Technologies for Smart Grids: A LPWAN Prospective," *IEEE Smart Grid eNewsletter*, 2020.
16. J. Abhilash Reddy, K. Srikar, T. Singh, K. Vijay Kumar, and **G. Pradeep Reddy**, "Smart Crop –Customizable Gardening System: A Grid Layout Approach and a CNC based Design," *Journal of Advanced Research in Dynamical and Control Systems*, vol. 10, 06-Special Issue, 2018, url: <https://www.jardcs.org/special-issue.php>.
17. **G. Pradeep Reddy**, O. Ravi Kumar, G. I. Mary and V. Prithiviraj, "Ultra-Wide Band Technology and its Advanced Applications," *CiiT International Journal of Wireless Communication*, vol.2, no.11, pp. 411-418, 2010, url: <http://www.ciiiresearch.org/dl/index.php/wc/article/view/WC112010002>.
18. O. Ravi Kumar, **G. Pradeep Reddy**, and G. I. Mary, "Source Localization Techniques for UWB Context Aware Applications," *CiiT International Journal of Wireless Communication*, vol.2, no.9, pp. 292-296, 2010, url: <http://www.ciiiresearch.org/dl/index.php/wc/article/view/WC092010006>.

Conferences:

1. **G. Pradeep Reddy**, D. Rohan, Y. V. Pavan Kumar, K. Purna Prakash, and M. Srikanth, "Artificial Intelligence-Based Effective Detection of Parkinson's Disease Using Voice Measurements," *11th International Electronic Conference on Sensors and Applications*, 2024. (Under Review)
2. K. Purna Prakash, Y. V. Pavan Kumar, and **G. Pradeep Reddy**, "Multiple Linear Regression-Based Correlation Analysis of Various Critical Weather Factors and Solar Energy Generation in Smart Homes," *The 5th International Electronic Conference on Applied Sciences*, 2024. (Under Review)
3. D. Rohan, S.M. Abdul Karrem, **G. Pradeep Reddy**, Y. V. Pavan Kumar, K. Purna Prakash, and M. Srikanth, "Alzheimer's disease detection using Advanced Deep Learning Techniques," *The 5th International Electronic Conference on Applied Sciences*, 2024. (Under Preparation)
4. **G. Pradeep Reddy**, S. Sinha, and Soo-Hyun Park, "Generative AI for the Maritime Environments," *2024 15th International Conference on Ubiquitous and Future Networks (ICUFN)*, Budapest, Hungary, 2024, pp. 618-623. doi: <https://doi.org/10.1109/ICUFN61752.2024.10625100>. (Scopus Indexed)
5. **G. Pradeep Reddy**, Y. V. Pavan Kumar, and K. P. Prakash, "Hallucinations in Large Language Models (LLMs)," in *2024 IEEE Open Conference of Electrical, Electronic and Information Sciences (eStream)*, Vilnius, Lithuania: IEEE, Apr. 2024, pp. 1–6. doi: <https://doi.org/10.1109/eStream61684.2024.10542617>. (Scopus Indexed)
6. N. S. Krishna, Y. V. Pavan Kumar, K. P. Prakash, and **G. Pradeep Reddy**, "Machine Learning and Statistical Techniques for Outlier Detection in Smart Home Energy Consumption," in *2024 IEEE Open Conference of Electrical, Electronic and Information Sciences (eStream)*, Vilnius, Lithuania: IEEE, Apr. 2024, pp. 1–4. doi: <https://doi.org/10.1109/eStream61684.2024.10542609>. (Scopus Indexed)
7. M. K. Chakravarthi, Y. V. Pavan Kumar, and **G. Pradeep Reddy**, "Potential Technological Advancements in the Future of Process Control and Automation," in *2024 IEEE Open Conference of Electrical, Electronic and Information Sciences (eStream)*, Vilnius, Lithuania: IEEE, Apr. 2024, pp. 1–6. doi: <https://doi.org/10.1109/eStream61684.2024.10542581>. (Scopus Indexed)

8. S. Sinha, **G. Pradeep Reddy**, and Soo-Hyun Park, "A Deep Learning Approach to Channel Selection for Reliable Maritime Communications," *2024 Spring Joint Academic Conference*, Yeosu, South Korea, 2024.
9. S. Sinha, **G. Pradeep Reddy**, and Soo-Hyun Park, "Channel Selection Using Machine Learning," in *2024 6th International Conference on Artificial Intelligence in Information and Communication (ICAIIIC)*, Osaka, Japan, Feb. 2024, pp. 164–168. doi: <https://doi.org/10.1109/ICAIIIC60209.2024.10463321>. (Scopus Indexed)
10. **G. Pradeep Reddy**, Dongjin Yoon, Ari Hwang, and Soo-Hyun Park, "Towards Continual Learning for Maritime Systems," *12th International Conference on Green and Human Information Technology (ICGHIT)*, Hanoi, Vietnam, 2024.
11. S. Sinha, **G. Pradeep Reddy**, and Soo-Hyun Park, "Machine Learning Based Optimal Position Detection for Better Signal Reception," *12th International Conference on Green and Human Information Technology (ICGHIT)*, Hanoi, Vietnam, 2024.
12. Y. Jaganmohan Reddy, **G. Pradeep Reddy**, and Y. V. Pavan Kumar, "Implementation of Design for Sustainability in Product Engineering," in *the 4th International Electronic Conference on Applied Sciences*, Nov. 2023, p. 172. doi: <https://doi.org/10.3390/ASEC2023-16330>. (Scopus Indexed)
13. S. Sinha, **G. Pradeep Reddy**, and Soo-Hyun Park, "Federated Learning-Internet of Underwater Things," *Annual Conference of Korea Information Processing Society (ACK)*, Busan, South Korea, 2023.
14. **G. Pradeep Reddy**, Y. V. P. Kumar, Y. J. Reddy, S. R. Maddireddy, S. Prabhudesai, and S. Deo, "OPC UA Implementation for Industrial Automation - Part 1: Evaluating the Performance of PubSub Model," in *2023 1st International Conference on Circuits, Power and Intelligent Systems (CCPIS)*, Bhubaneswar, India, 2023, pp. 1–6. doi: <https://doi.org/10.1109/CCPIS59145.2023.10291862>. (Scopus Indexed)
15. **G. Pradeep Reddy**, Y. V. P. Kumar, Y. J. Reddy, S. R. Maddireddy, S. Prabhudesai, and Ch. P. Reddy, "OPC UA Implementation for Industrial Automation - Part 2: Integrating PubSub Model with TSN," in *2023 1st International Conference on Circuits, Power and Intelligent Systems (CCPIS)*, Bhubaneswar, India, 2023, pp. 1–6. doi: <https://doi.org/10.1109/CCPIS59145.2023.10291682>. (Scopus Indexed)
16. K. M. Rafi, V. K. Awaar, K. S. V. Phani Kumar, **G. Pradeep Reddy**, S. Koli, and K. Kalpana, "Digital Control of DSTATCOM using TI-C2000 Processor and MATLAB/ Simulink for Sustainable Power System Network," *E3S Web of Conferences*, vol. 430, p. 01010, 2023, doi: <https://doi.org/10.1051/e3sconf/202343001010>. (Scopus Indexed)
17. **G. Pradeep Reddy** and Y. V. Pavan Kumar, "A Beginner's Guide to Federated Learning," in *2023 Intelligent Methods, Systems, and Applications (IMSA)*, Giza, Egypt, 2023, pp. 557–562. doi: <https://doi.org/10.1109/IMSA58542.2023.10217383>. (Scopus Indexed)
18. **G. Pradeep Reddy** and Y. V. Pavan Kumar, "Explainable AI (XAI): Explained," in *2023 IEEE Open Conference of Electrical, Electronic and Information Sciences (eStream)*, Vilnius, Lithuania, 2023, pp. 1-6. doi: <https://doi.org/10.1109/eStream59056.2023.10134984>. (Scopus Indexed)
19. G. Anjali, S. Sanjeev, A. Mounika, G. Suhas, **G. Pradeep Reddy**, and Y. Kshiraja, "Infant Cry Classification using Transfer Learning," in *TENCON 2022 - 2022 IEEE Region 10 Conference (TENCON)*, Hong Kong, Nov. 2022, pp. 1–7. doi: <https://doi.org/10.1109/TENCON55691.2022.9977793>. (Scopus Indexed)

20. S. Doki, S. Devella, S. Tallam, S. S. Reddy, P. S. Reddy, and G. Pradeep Reddy, "Heart Disease Prediction Using XGBoost," in *2022 3rd International Conference on Intelligent Computing Instrumentation and Control Technologies (ICICICT)*, Kannur, India, Aug. 2022, pp. 1317–1320. doi: <https://doi.org/10.1109/ICICICT54557.2022.9917678>. (Scopus Indexed)
21. S. Sanjeev, C. C. S. Balne, T. J. Reddy, and G. Pradeep Reddy, "Deep Learning-based Mixed Data Approach for COVID-19 Detection," in *2021 IEEE 18th India Council International Conference (INDICON)*, IIT Guwahati, India, Dec. 2021, pp. 1–6. doi: <https://doi.org/10.1109/INDICON52576.2021.9691563>. (Scopus Indexed)
22. G. Pradeep Reddy and Y. V. Pavan Kumar, "Demystifying LoRa Wireless Technology for IoT Applications: Concept to Experiment," in *2021 4th International Symposium on Advanced Electrical and Communication Technologies (ISAECT)*, Alkhobar, Saudi Arabia, Dec. 2021, pp. 01–06. doi: <https://doi.org/10.1109/ISAECT53699.2021.9668500>. (Scopus Indexed)
23. K. Harshini, P. K. Madhira, S. Chaitra, and G. Pradeep Reddy, "Enhanced Demand Forecasting System for Food and Raw Materials Using Ensemble Learning," in *2021 International Conference on Artificial Intelligence and Machine Vision (AIMV)*, Gandhinagar, India, Sep. 2021, pp. 1–6. doi: <https://doi.org/10.1109/AIMV53313.2021.9671005>. (Scopus Indexed)
24. M. Spuritha, C. S. Kashyap, T. R. Nambiar, D. R. Kiran, N. S. Rao, and G. Pradeep Reddy, "Quotidian Sales Forecasting using Machine Learning," in *2021 International Conference on Innovative Computing, Intelligent Communication and Smart Electrical Systems (ICSES)*, Chennai, India, Sep. 2021, pp. 1–6. doi: <https://doi.org/10.1109/ICSES52305.2021.9633975>. (Scopus Indexed)
25. A. V. Sai, K. D. Reddy, N. S. Ruthvik, A. Rohith, G. Pradeep Reddy, and N. S. Rao, "IoT based Quotidian Grocery Supply by Vending Machines," in *2021 2nd International Conference on Advances in Computing, Communication, Embedded and Secure Systems (ACCESS)*, Ernakulam, India, Sep. 2021, pp. 56–60. doi: <https://doi.org/10.1109/ACCESS51619.2021.9563332>. (Scopus Indexed)
26. G. Pradeep Reddy and Y. V. Pavan Kumar, "Smart Grid Communication and Networking: Review of Standards," in *2021 15th International Conference on Applied and Theoretical Electricity (ICATE)*, Craiova, Romania, May 2021, pp. 1–6. doi: <https://doi.org/10.1109/ICATE49685.2021.9465005>. (Scopus Indexed)
27. S. Sanjeev, G. Sai Ponnekanti, and G. Pradeep Reddy, "Advanced Healthcare System using Artificial Intelligence," in *2021 11th International Conference on Cloud Computing, Data Science & Engineering (Confluence)*, Noida, India, Jan. 2021, pp. 76–81. doi: <https://doi.org/10.1109/Confluence51648.2021.9377084>. (Scopus Indexed)
28. D. R. Kiran, A. Rohith, K. D. Reddy, and G. Pradeep Reddy, "Water Sharing Marketplace Using IoT," in *Proceedings of International Conference on Recent Trends in Machine Learning, IoT, Smart Cities and Applications*, vol. 1245, V. K. Gunjan and J. M. Zurada, Eds. Singapore: Springer Singapore, 2021, pp. 543–551. doi: https://doi.org/10.1007/978-981-15-7234-0_50. (Scopus Indexed)
29. B. K. Kanth, G. Manasa, S. Jena, A. Kankurte, O. Prasad, M. Salmon, G. Pradeep Reddy, and Swetha Namburu, "A New 5-layer Model Approach for Pneumonia Prediction," in *Machine Learning Technologies and Applications*, C. K. Mai, A. B. Reddy, and K. S. Raju, Eds. Singapore: Springer Singapore, 2021, pp. 31–38. doi: https://doi.org/10.1007/978-981-33-4046-6_4.

30. B. J. Kranthi, G. Suhas, K. B. Varma, and **G. Pradeep Reddy**, “A two-way communication system with Morse code medium for people with multiple disabilities,” in *2020 IEEE 7th Uttar Pradesh Section International Conference on Electrical, Electronics and Computer Engineering (UPCON)*, Prayagraj, India, Nov. 2020, pp. 1–6. doi: <https://doi.org/10.1109/UPCON50219.2020.9376479>. (Scopus Indexed)
31. J. B. V. P. Raju, Y. C. Reddy, and **G. Pradeep Reddy**, “Smart Posture Detection and Correction System Using Skeletal Points Extraction,” in *Advances in Decision Sciences, Image Processing, Security and Computer Vision*, vol. 3, S. C. Satapathy, K. S. Raju, K. Shyamala, D. R. Krishna, and M. N. Favorskaya, Eds. Cham: Springer International Publishing, 2020, pp. 177–181. doi: https://doi.org/10.1007/978-3-030-24322-7_23. (Scopus Indexed)
32. N. V. Ganapathi Raju, A. Radhanand, K. N. Balaji Kumar, **G. Pradeep Reddy**, and P. Sampath Krishna Reddy, “Machine learning based power saving mechanism for fridge: An experimental study using GISMO III board,” *Materials Today: Proceedings*, vol. 33, pp. 4819–4822, 2020, doi: <https://doi.org/10.1016/j.matpr.2020.08.387>. (Scopus Indexed)
33. D. Indira, Y. J. Nagendra, **G. Pradeep Reddy**, J. Praveen, K. V. S. Raju, and D. Ravi Kiran, “Strategies and Policies for Promoting Students towards Innovations and Start-ups,” in *SSIP Annual Conference on Student Innovation, Startups and Ecosystem*, India, 2019, url: <http://library.ediindia.ac.in:8181/jspui/handle/123456789/9699>.
34. **G. Pradeep Reddy** and Gerardine Immaculate Mary, “UWB indoor channel profile identification with orthogonal Hermite pulses,” in *2010 3rd International Conference on Computer Science and Information Technology*, Chengdu, China, Jul. 2010, pp. 145–149. doi: <https://doi.org/10.1109/ICCSIT.2010.5563721>. (Scopus Indexed)

Patents (Granted):

1. Y.Chethan Reddy, B.S.V.S Anoop, M. Srikanth, G. Abhinay, D.Nagapavan, and **G.Pradeep Reddy**, “Device for Ensuring Consumption of Pills by a Consumer,” Application No. 201941002559, IP India, **Granted** on 17 October 2023. (For the term of 20 years from 21 January 2019 in accordance with the provisions of the Patents Act,1970)
2. K. Vijay Kumar, **G. Pradeep Reddy**, and T. Jagannadha Swamy, “All-Terrain Vehicle Having Enhanced Wheel Alignment System,” Application No. 202141027047, IP India, **Granted** on 03 January 2024. (For the term of 20 years from 17 June 2021 in accordance with the provisions of the Patents Act,1970)
3. J.K.Boppana, S.Sanjeev, B.V.Kantheti, G.Ponnekanti, S.Gangireddy, and **G.Pradeep Reddy**, “ A Smart Glove for Recognizing and Communicating Sign Language and Associated Method Thereof,” Application No. 202041038106, IP India, **Granted** on 30 July 2024. (For the term of 20 years from 03 September 2020 in accordance with the provisions of the Patents Act,1970)

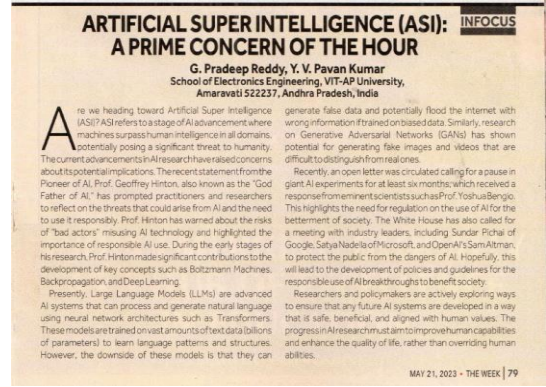
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GALLERY



At 12th International Conference on Green and Human Information Technology (ICGHIT), Vietnam-2024



News Article Published in "THE WEEK" Magazine-2023



Research Excellence Award from the Vice-Chancellor, VIT-AP University - 2022



Best Performing Mentor Award during CISCO IoT Hackathon - 2017

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