

PENKI ROHIT CV

Name and Full Correspondence Address [PENKI ROHIT]
Email(s) [rohith.penki@gmail.com]
Contact Number(s) [8179950439]
Institution [Chaitanya Engineering College]
Date of Birth [09/07/1993]
Gender (M/F/T) [MALE]
Category (Gen/SC/ST/OBC) [OBC]
LinkedIn/ORCID/Other IDs [ORCID: 0009-0006-4537-1296]

Academic Qualifications (Undergraduate Onwards)

Degree	Year	Subject	University/Institution	%/CGPA
B.TECH	2014	ECE	MVGR College of Engineering	60 %
M.TECH	2017	VLSI	MVGR College of Engineering	81 %
(Ph.D)	(2020-still pursuing)	RF & MICROWAVE	Kalinga institute of industrial technology(KIIT) University	-

Ph.D. Details

Institute	Guide(s)	Year of Award	Ph.D. Thesis Title
Kalinga institute of industrial technology(KIIT) University	Dr.AMLAN DATTA, Dr.M.SATYANARAYANA	Still Pursuing	Design of High Gain Metasurface Antennas for IOT Applications

Work Experience (Chronological Order)

S.No	Position	Institute	From	To
1	Assistant Professor	Avanathi St Theresa College of Engineering Garividi	08-02-2019	09-07-2023
2	Assistant Professor	Chaitanya Engineering College Vishakhapatnam	21-08-2023	till date

Publications

S.No	Authors	Title	Journal	Volume/Page	Year
1	Penki. Rohit, Dr. Gera. Anjaneyulu	Analysis And Performance Comparison Of Different SRAM Cells	International Journal of Advanced Research in Electronics and Communication Engineering (IJARCE)	Volume-6, pg no: 1-8	2017
2	P.Rohit, K.Anitha, Dr.M.Satyanaraya na	Development Of CPW Fed Defected Monopole Antenna Using Atomic Orbital Search Algorithm	Dogo Rangsang Research Journal (DRSR)	Volume-12, pg no: 1-7	2022
3	P.Rohit, K.Anitha, Dr.M.Satyanaraya na	Development Of CPW Fed Notch Cut With E-Shape Slot Antenna For WLAN & WIMAX Applications	International Journal of Innovative Research in Technology (IJIRT)	Volume-9, pg no: 655-659	2022
4	P.Rohit, K.Anitha, S.K.Haseena Begum, Dr.M.Satyanaraya na	Development Of Printed Pentagonal Slit Antenna By Using Bat Search Algorithm	International Journal of Research and Analytical Reviews (IJRAR)	Volume-10, pg no: 247-253	2023
5	Penki Rohit, Dr.Amlan Datta, Dr.Moturi Satyanarayna	Design Of High Gain Metasurface Antennas Using Hybrid Atomic Orbital Search & Human Mental Search Algorithm For Iot Applications	10th International Conference on Signal Processing and Integrated Networks (SPIN)	10.1109 / SPIN57001.2023.101 16841	2023
6	P.Rohit, K.Anitha, N.Chandrasekhar, Dr.M.Satyanaraya na	RFID & GPS Smart Attendance System For School Children Tracking By Using Blynk Platform	Journal Of Emerging Technologies And Innovative Research (JETIR)	Volume-10, pg no: 180-187	2023
7	P.Rohit, K.Anitha, Dr.M.Satyanaraya	Development Of Small Disk Microstrip	International Journal Of Engineering	Volume-13, pg no: 30294-30298	2023

	na	Inegrated Defected Ground Structure (DGS) Antenna Using Particle Swarm Optimization	Science And Computing (IJESC)		
8	Penki Rohit, Thulimilli Prembosco, Koppala Anitha, Dr.Moturi Satyanarayana	Design Of Circularly Polarized E-Slot Aperture Coupled Dielectric Resonator Antenna For Wideband Applications	International Conference On Microwave, Optical And Communication Engineering (ICMOCE)	979-8-3503-2160, 10.1109/ICMOCE57812.2023.10165708	2023
9	P.Rohit, K.Anitha, Dr.M.Satyanarayana	Design Of UWB Monopole Based Fractal Binary Tree Antenna For Wireless Communication Devices	International Research Journal Of Engineering And Technology (IRJET)	Volume-10, pg no: 118-122	2023
10	PENKI ROHIT, KALIAPPAN ANNAMALAI, MUTHURAJ S, DR. SWATISAHU,	Machine Learning Based Pest Detection And Alert System for Farmers Using Internet Of Things To Improve Agriculture Yield	OFFICIAL JOURNAL OF THE INDIAN PATENT OFFICE	202341047869 A ISSUE NO. 35/2023 pg no: 1-13	2023
11	P.Rohit, D.Somasekhar	Construction Of Advanced Child Rescue System From Open Borewells By Using Robotic Claws & Raspberry-Pi Module	International Journal for Research Trends and Innovation (IJRTI)	Volume-132-139, pg no: 118-122	2023
12	ROHIT PENKI DR. B SIVA PRASAD, DR. A V S SWATHI, THANGA RAJ M	Machine Learning (ML) & Artificial Intelligence (AI) Approach For Training Signal In 6G Wireless Sensor Network	OFFICIAL JOURNAL OF THE INDIAN PATENT OFFICE	Application No.202311060171 A ISSUE NO. 40/2023	2023
13	P.Rohit, D.Somasekhar, T.Jyothi Kumari	Advanced Vehicle Security System Using Biometric Visuals	International Journal of Creative Research Thoughts (IJCRT)	Volume-12, pg no: 376-383	2024

14	P.Rohit, V.Pavani, T.Jyothi Kumari	GAN Algorithm Using Image Segmentation Of Brain Cancer Of MRI Images Using GLCM Features	International Journal of Scientific Development and Research (IJS DR)	Volume-9, pg no: 997-1005	2024
15	P.Rohit, V.Pavani, T.Jyothi Kumari	Global Positioning System Based Train Accident Prevention & Prediction System	TIJER - INTERNATIONAL RESEARCH JOURNAL	Volume-10, pg no: 490-496	2024
16	P.Rohit, V.Pavani, T.Jyothi Kumari	Early Detection Of Melonama In Skin Cancer Using Probabilistic Neural Networks	International Journal of Novel Research and Development (IJNRD)	Volume-9 pg no: 592-600	2024
17	P.Rohit, V.Pavani, T.Jyothi Kumari, Dr.M.Satyanarayana	Design Of Fractal Wideband Antenna By Using Wind Driven Optimization	International Research Journal of Engineering and Technology (IRJET)	Volume-11, pg no: 435-440	2024
18	Penki Rohit, Dr. Ritesh Kumar Kushwaha, Mohammed Saleh Al Ansari, Janjhyam Venkata Naga Ramesh	MIMO Optimized Algorithm To Develop The Energy Efficiency Underwater	International Conference on New Frontiers in Communication, Automation, Management and Security (ICCAMS)	979-8-3503-170, 10.1109/ ICCAMS60113.2023. 10525874	2024
19	Penki Rohit, Dr.Amlan Datta, Dr.Moturi Satyanarayana	Design Of Circular Microstrip Antenna With Metasurface Superstrate For WIFI Applications	Wireless Antenna and Microwave Symposium (WAMS)	979-8-3503-5892, 10.1109/ WAMS59642.2024.1 0527949	2024
20	P.Rohit, V.Pavani, T.Jyothi Kumari	Innovative Approaches To Enhance Breast Cancer Detection Using Machine Learning And Image Processing	OFFICIAL JOURNAL OF THE INDIAN PATENT OFFICE	Application No.202431051142 A ISSUE NO. 28/2024	2024
21	P.Rohit, D.Rajitha, V.Pavani, T.Jyothi Kumari	Design of Quasi Modified Rectangular Patch Antenna By Using Ultra Wideband	Journal of Systems Engineering and Electronics	Volume-34, pg no: 515-518	2024

		(UWB) Frequency For Radar Communications			
22	Penki Rohit, Dr.Amlan Datta, Dr.Moturi Satyanarayna	Design of Rectangular Metasurface Antenna For Wireless Communication Devices	Journal of Systems Engineering and Electronics	Volume-34, pg no: 519-523	2024
23	P.Rohit, V.Pavani, T.Jyothi Kumari	Improved Bank Safety Alert System Integrated With GSM Technology	International Journal of All Research Education and Scientific Methods (IJARESM)	Volume-12, pg no:2915-2923	2024
24	P.Rohit, D.Rajitha, V.Pavani, T.Jyothi Kumari	Future Trends In Design Of Metamaterial Printed Antennas By Using 5G Applications	Journal For Basic Sciences	Volume-24, pg no:133-145	2024
25	P.Rohit, D.Rajitha, V.Pavani, T.Jyothi Kumari	Design of UWB Fractal Monopole Antenna By Using Differential Evolution Algorithm	Kronika Journal	Volume-24, pg no:133-145	2024
26	P.Rohit, V.Pavani, T.Jyothi Kumari, N.Sivaleela	Voice Controlled Personal Assistant Robot For Smart Appliances By Using Raspberry-Pi	Journal of Emerging Technologies and Innovative Research (JETIR)	Volume-11, pg no:574-579	2024
27	Penki Rohit, Dr.Amlan Datta, Dr.Moturi Satyanarayna	Optimized Graph Sample & Aggregate Attention Network based High Gain Metasurface Antenna Design For Iot Applications	International Journal of Communication Systems, WILLEY	0:e6043 doi.org/10.1002/ dac.6043 pg no: 1-15	2024
28	P.Rohit, V.Pavani, T.Jyothi Kumari N.Sivaleela	Unveiling Personnel Tension Disorder Using Machine Learning Algorithms	International Journal of Creative Research Thoughts (IJCRT)	Volume-13, pg no: 66-75	2025
29	P.Rohit, D.Rajitha, V.Pavani, T.Jyothi Kumari	Design Of Frequency Reconfigurable Slotted Antenna	International Research Journal of Engineering and Technology	Volume-12, pg no: 126-131	2025

		By Using Teaching Learning Based Optimization Algorithm	(IRJET)		
30	P.Rohit, V.Pavani, T.Jyothi Kumari, N.Sivaleela, S.Tejeswararao	Refinement Of OFDM Based Integrated Radar Communication System By Using Kookaburra Optimization Algorithm (KOA)	Journal of Emerging Technologies and Innovative Research (JETIR)	Volume-12, pg no: 168-175	2025
31	P.Rohit, V.Pavani, T.Jyothi Kumari, G. Kusuma, S.Bhanuprakash	Enhancing Multiband Fractal Antenna Design Through Green Anaconda Optimization (GAO)	Journal of Emerging Technologies and Innovative Research (JETIR)	Volume-12, pg no: 366-372	2025
32	P.Rohit, D.Rajitha, V.Pavani, T.Jyothi Kumari, T.Viswanadharaju	Performance Enhancement Of Multiband Cylindrical Dielectric Resonator Antenna By Using Honey Badger Algorithm (HBA)	International Journal of Creative Research Thoughts (IJCRT)	Volume-13, pg no: 203-211	2025
33	P.Rohit, D.Rajitha, V.Pavani, T.Jyothi Kumari, P.Rajesh	Mitigating Mutual Coupling In Metamaterial Antenna With Circular Complimentary Ring Resonators Via Giza Pyramids Construction Algorithm (GPCA)	International Journal of Creative Research Thoughts (IJCRT)	Volume-13, pg no: 836-845	2025
34	P.Rohit, V.Pavani, T.Jyothi Kumari, N.Sivaleela, L.Varaprasad	Internet Of Things Enabled Prenatal Care Monitoring For Expecting Mothers	TIJER - INTERNATIONAL RESEARCH JOURNAL	Volume-12, pg no: 361-368	2025
35	P.Rohit, V.Pavani, D.Rajitha, T.Jyothi Kumari, L.Vararasad	Telecommand Signal Integrity Enhancement Via Spectral Minimal Variance In Software Defined Radio Systems	COMPUTER RESEARCH AND DEVELOPMENT JOURNAL	Volume-25, pg no: 618-624	2025

36	P.Rohit, V.Pavani, D.Rajitha, T.Jyothi Kumari	Artificial Intelligence-Based Design Framework for Diamond Fractal MIMO Antennas In Ultra-High-Frequency 6G Networks	OFFICIAL JOURNAL OF THE INDIAN PATENT OFFICE	Application No. 202541071213 A, ISSUE NO. 31/2025	2025
37	P.Rohit, V.Pavani, T.Jyothi Kumari, L.Varaprasad, D.Somasekhar	Efficient Near Match CAM with Simplified Sensing for Approximate and Error-Tolerant Applications	International Journal of All Research Education and Scientific Methods (IJARESM)	Volume-13, pg no: 1060-1066	2025
38	P.Rohit, V.Pavani, D.Rajitha, T.Jyothi Kumari, Dr.K.Suresh, Dr.M.Satyanarayana	Printed Array Antenna With Metasurface Using Superstrate Technique for IOT Applications	Wireless Antenna and Microwave Symposium (WAMS)	979-8-3315-2554, 10.1109/ WAMS64402.2025.1158983	2025
39	P.Rohit, D.Rajitha, V.Pavani, T.Jyothi Kumari, Dr.K.Suresh, Dr.M.Satyanarayana	Design of Flexible Antenna Array using Cardboard Paper Substrate for WIFI & WLAN Applications	Wireless Antenna and Microwave Symposium (WAMS)	979-8-3315-2554, 10.1109/ WAMS64402.2025.1158490	2025
40	P.Rohit, D.Rajitha, V.Pavani, N.Sivaleela, K.Anitha	Exploring Reconfigurable Antenna Structure For LTE Using Penguin Search Optimization Algorithm	Journal of Emerging Technologies and Innovative Research (JETIR)	Volume-12, pg no: 181-186	2025
41	P.Rohit, Dr.N.Jagadeesan, Yogesh.N, Dr.Narayamaswamy. G	Wireless Communications	BR PUBLICATIONS	ISBN 978-93-47231-71-1	2025
42	P.Rohit, V.Pavani, T.Jyothi Kumari, N.Sivaleela, L.Varaprasad	Adaptive Image Enhancement Through Reflectance Guided 2D Histogram	Journal of Emerging Technologies and Innovative Research (JETIR)	Volume-12, pg no: 386-391	2025

		Equalization			
43	P.Rohit, D.Rajitha, V.Pavani, T.Jyothi Kumari, N.Sivaleela	Improving Power Efficiency And Blocking Probability In 5G Mm-Wave MIMO Systems Through Adaptive Beamforming	Journal of Emerging Technologies and Innovative Research (JETIR)	Volume-13, pg no: 441-448	2026
44	P.Rohit, V.Pavani, T.Jyothi Kumari, N.Sivaleela, K.Anitha	An Intelligent Non-Invasive Glucose Monitoring System Using Histogram Features, SVM and ADAGRAD Optimization	Journal of Emerging Technologies and Innovative Research (JETIR)	Volume-13, pg no: 676-682	2026
45	P.Rohit, V.Pavani, T.Jyothi Kumari, Simantini Roy Chowdhury	Power Aware FSPA-VLSA Architecture With Adaptive Body Biasing For Advanced Dram Systems	Journal of Emerging Technologies and Innovative Research (JETIR)	Volume-13, pg no: 180-185	2026
46	P.Rohit, V.Pavani, D.Rajitha, T.Jyothi Kumari	Performance Enhancement of Grille-Shaped Multiband Antenna Using Modified Dgs And Pelican Optimization	International Research Journal of Engineering and Technology (IRJET)	Volume-13, pg no: 1036-1040	2026

Technical Skills

Skill / Technology		
Programming	MSOFFICE, C	SQL
Software Tools	MATLAB	HFSS
Core Skills	Machine Learning	Deep Learning
Domain Knowledge	RF & Antenna Design	Wireless Communication
Additional Skills	Technical Reviewing	Documentation / Analysis

FDPs

S.No	Program / Certification	Organization	Year
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1	Design and Development of Miniature Antenna for IOT Applications (DMAIA-20)	MVGR College of Engineering, Vizianagaram	2020
2	RF Components Modeling and simulation using HFSS	ENTUPLE TECHNOLOGIES	2021
3	Radiation Effects on Polymers and Advances in Organic Optoelectronic devices	Vaagdevi College of Engineering	2022
4	IOT Based Smart Automation System	MVGR College of Engineering in association with GSAS Microsystems	2022
5	Research Trends in Antenna Design and Beyond Applications	CARE College of Engineering, Tiruchirappalli in association with IEEE Student chapter	2022
6	Recent Advancements In RF And Antenna Technology	SRM University, Andhrapradesh, Amaravathi & IIT PUNE	2025
7	Reconfigurable And Compact Antennas: Enabling Real Time Solutions In Wearable And Health Care Technologies	IEEE MTTTS, IIC, Rajyalakshmi Engineering College, Chennai	2025
8	AI Tools for Teachers	Chaitanya Bharathi Institute of Technology, Proddatur, Andhra Pradesh	2025
9	Quantum Machine Learning for Next Generation Communication System” QMLNGC-25	MVGR College of Engineering, Vizianagaram	2025
10	Underwater Robotics: Challenges and Opportunities	Arunai Engineering College, Tiruvanamallai	2026
11	IoT for Teaching, Research and Innovation for Sustainable Development	IEEE Student Branch, IIC, IETE ISF Forum and Fun Electronics Association , Study World College of Engineering, Coimbatore,	2026
12	AI & Quantum Computing for Advanced Applications (AIQCAA-26)	MVGR College of Engineering, Vizianagaram	2026
13	From Research to Publication	Kishkinda University Ballari	2026

Certifications

S.No	Certification	Organization	Year
1	Ultra Dense Networks for 5G & its Evolution	EDX	2024
2	Introduction to Microprocessors	EDX	2024
3	Semiconductors for Beginners	EDX	2024
4	Analysis And Design Principles Of Microwave Antennas NPTEL Certification Course	SWAYAM NPTEL	2025

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