

PERSONAL DETAILS AND AFFILIATION

Name of the Faculty Member	Dr. V. LINGASAMY	
Designation	PROFESSOR OF PRACTICE	
Department	Electronics and Communication Engineering	
Date of joining the institution	14.08.2025	
Address for Communication	Department of ECE, National Engineering College, K.R. Nagar, Kovilpatti-628 503	
Email ID	lingasamyap@gmail.com lingasamyece@nec.edu.in	

EDUCATIONAL QUALIFICATION

S.NO.	QUALIFICATION	INSTITUTION STUDIED	UNIVERSITY / BOARD	Class	YEAR OF PASSING
1.	B.E.	Coimbatore Institute of Engineering & Technology-Coimbatore	Anna University, Chennai	First	2006
2.	M.E.	SSN college of Engineering-Chennai	Anna University, Chennai	First Class with Distinction	2014
3.	Ph.D.	Anna University, Chennai	Anna University, Chennai	First	2020
4.					
5.					

EXPERIENCE

S.NO.	NAME OF THE INSTITUTION / ORGANIZATION	POSITION HELD	FROM	TO	EXPERIENCE	
					Y	M
1.	Rakuten Symphony India Private Limited, Bangalore, India	Manager, Research and Development	Oct 2022	Till date	3	2
2.	Sterlite Technologies Limited (STL), Gurgaon, India	Antenna SME (Sr . Technical Lead)	Aug 2021	Oct 2022	1	2
3.	HCL Technologies, Bangalore, India	Technical Lead	Aug 2019	Aug 2021	1	11

4.	SSN college of Engineering, Chennai	Junior Research Fellow -> Senior Research Fellow, ISRO-RESPOND Project	Mar 2017	Aug 2019	2	6
5.	IGTL Saudi Arabia Ltd, Riyadh, Kingdom of Saudi Arabia	Project Engineer -> Assistant Manager	Jan 2009	Aug 2012	3	7
6.	GTL Ltd, Chennai, India	Project Engineer	Sep 2007	Dec 2008	1	4

LIST OF INTERNATIONAL JOURNAL PUBLICATIONS

1.	Akila Murugesan, Divya Natarajan, Abishek S, V. Lingasamy , Hariharan K, and Krishnasamy T . Selvan, “ A broadband dual-polarized magneto-electric dipole antenna element for low-frequency astronomical arrays” , ACES Journal, Vol. 37, No. 1, May 2022,
2.	V. Lingasamy , K. T . Selvan, R. Jyoti and S. Sravankumar , “Wideband reflectarray antennas using concentric ring-based elements for Ku-band applications” , IETE Journal of research, Vol. 69, No. 3, March 2023.
3.	V. Lingasamy , M. Gulam Nabi Alsath, K. T . Selvan, and Rajeev Jyoti, “ A wideband, single layer reflectarray antenna with cross loop and square ring slots loaded patch elements” , International Journal of Microwave and Wireless Technologies, Vol. 11, No. 7, pp. 703-710, September 2019.
4.	V. Lingasamy and K. T . Selvan, “ A comparison of planar convex dielectric lens loaded flat reflector with parabolic reflector and reflectarray” , Microwave and Optical Technological Letters, Vol. 61, No.11, pp. 2500-2505, July 2019.
5.	V. Lingasamy , M. G. N. Alsath, and K. T . Selvan, “Single layer wideband reflectarray antenna using cross dipole with double ring elements” , International Journal of RF and Microwave Computer-aided Engineering, Vol. 29, No.9, pp. 1-8, September 2019.
6.	V. Lingasamy , K. T . Selvan, and P . H. Rao, “Performance comparison of stepped and smooth dielectric lens-loaded flat reflectors” Progress in Electromagnetic Research, Vol. 81, pp. 203-213, June 2019.
7.	Trevor S. Bird, V. Lingasamy , K. T . Selvan, H. Sun “Improved Finite Range Gain Formula for Open Ended Rectangular Waveguides and Pyramidal Horns” , IET Microwaves, Antennas & Propagation, Vol. 11, No. 14, pp. 2054–2058, November 2017.
8.	V. Lingasamy , K. T . Selvan, Trevor S. Bird, V . Venkatesan, “Uncertainty Estimation in the Two Antenna Gain Measurement of a 4.8-11 GHz Double Ridged Horn” , IEEE Antennas and Propagation Magazine, Vol. 59, No. 1, pp. 110 – 113, February 2017.

LIST OF INTERNATIONAL / NATIONAL CONFERENCE PUBLICATIONS

1.	V. Lingasamy , K. T . Selvan, R. Jyoti and S. Sravankumar , “Wideband reflectarray antenna using stub loaded inverted E elements for Ku-band applications” , Second Indian Conference on Antennas and Propagation (INCAP), 2019.
2.	V. Lingasamy , M. Akila, and K. T . Selvan, “On the conceptual equivalence of reflectarray and artificial lens” , in proceedings of Applied Electromagnetics Conference (AEMC) 2017, Aurangabad, pp: 1-2, December 19-22, 2017.
3.	M. Akila, V. Lingasamy , and K. T . Selvan, “ A study on Q of printed antennas as radiators and as reflectarray elements” , in proceedings of International Conference on Antenna Innovations and Modern Technologies (iAIM), Bangalore, November 24-26, 2017.

4.	V. Lingasamy , B. Pavankumar , K. T . Selvan, A. Patnaik, and R. Jyoti, “Investigations on wideband sub-wavelength, and stub loaded reflectarray elements for Ku band” , in proceedings of International Conference on Antenna Innovations and Modern Technologies (iAIM), Bangalore, November 24-26, 2017.
5.	V. Lingasamy , K. T . Selvan, and R. Jyoti, “Wideband, stub-loaded cross-dipole reflectarray elements for Ku band” , in proceedings of Progress in Electromagnetics Research Symposium - Fall (PIERS - F ALL), 2017, Singapore, pp: 800-807, February 19, 2018.
6.	V. Lingasamy , K. T . Selvan, S. Rengarajan, “On the reflection phase characteristics of rectangular and circular patch reflectarray” , in proceedings of International Symposium on Antennas and Propagation (APSYM) 2016, Cochin, pp. 63- 66, May 2017.
7.	V. Lingasamy , V . V enkatesan, K. T . Selvan, M. Srinivasan, and I. Balakrishna, “Studies on the Gain Characteristics of 2-4.8 GHz Double Ridged Horn” , in proceedings of International Conference on Signal Processing and Communications (SPCOM) 2014, Indian Institute of Science, Bangalore, ISBN No: 978-1-4799-4666-2, pp. 1-4, July 2014.

Patent Filed & Awarded

1.	Massive MIMO Antenna design. Application No: IN202211013486 dated March 11, 2022.
2.	Small Cell Radio with Integrated Semi-Omnidirectional Antenna. Application No: IN202211056831.
3.	Method for Open-Radio Unit (O-RU) for Handling Fault Management in O-RAN. Application No: IN202211056431.
4.	IMPLEMENTING A DYNAMICAL ANTENNA ARRAY RECONFIGURATION IN A TELECOMMUNICATIONS NETWORK - Patent Reference: PS23-20008WO00, Filed Date: 27 Dec 2023, Application Number: PCT/US2023/085999, Country: Patent Cooperation Treaty.
5.	IMPLEMENTING A DYNAMICAL ANTENNA ARRAY RECONFIGURATION IN A TELECOMMUNICATIONS NETWORK - Patent Reference: PS23-10027WO01, Filed Date: 27 Dec 2023, Application Number: PCT/US2023/086006, Country: Patent Cooperation Treaty.
6.	SLEEP MODE AND/OR TRX CONTROL METHOD IMPLEMENTATION TO A RADIO UNIT IN A TELECOMMUNICATION NETWORK - Patent Reference: PI23-00070WO01, Filed Date: 28 Dec 2023, Application Number: PCT/US2023/086152, Country: Patent Cooperation Treaty
7.	SLEEP MODE IMPLEMENTATION BY CONTROL-PLANE SECTION TYPE 4 MESSAGING IN A TELECOMMUNICATION NETWORK - Patent Reference: PS23-10118WO01, Filed Date: 28 Dec 2023, Application Number: PCT/US2023/086172, Country: Patent Cooperation Treaty.
8.	OPTIMIZING ANTENNA ARRAY MODEL SELECTION IN A TELECOMMUNICATIONS NETWORK - Patent Reference: PS23-10084WO01, Filed Date: 28 Dec 2023, Application Number: PCT/US2023/086158, Country: Patent Cooperation Treaty.
9.	SHARED OPEN-RAN RADIO UNIT RESILIENCY - Patent Reference: PI23-00054WO01, Filed Date: 03 May 2024, Application Number: PCT/US2024/027668, Country: Patent Cooperation Treaty.
10.	Spatial Filtering for Channel Estimation in DMRS-BF - Patent Reference: PI24-00122WO01, Filed Date: 30 May 2024, Application Number: PCT/IN2024/050647, Country: Patent Cooperation Treaty.
11.	Normative works or changes on TRx Control based NES implementation using O1 interface and data models (O-DU related) - Patent Reference: PI23-00697IN01, Filed Date: 05 Jan 2024, Application Number: 202411000750, Country: India.

12.	Further updates on Normative works on TRx Control based NES implementation using O1 interface and associated O-DU Information and data models along with details - Patent Reference: PI24-00007IN01 , Filed Date: 23 Jan 2024, Application Number: 202411004452 , Country: India.
13.	Generic Policy framework for O1 interface (MnS Consumer <-> MnS Producer) - Patent Reference: PI24-00177IN01 , Filed Date: 31 May 2024, Application Number: 202411042444 , Country: India.
14.	Shared O-RU Resource shifting - Patent Reference: PI24-00094IN01 , Filed Date: 10 May 2024, Application Number: 202411036686 , Country: India.
15.	Spatial Filtering for Channel Estimation in DMRS-BF - Patent Reference: PI24-00122WO01 , Filed Date: 30 May 2024, Application Number: PCT/IN2024/050647 , Country: India.
16.	SYSTEM AND METHOD FOR DUAL MODE OPERATION IN SHARED RADIO UNITS OF A COMMUNICATION NETWORK - Patent Reference: PI24-00121IN01 , Filed Date: 03 Apr 2024, Application Number: 202411027689 , Country: India.
17.	AN UPDATED SERVICE MANAGEMENT AND ORCHESTRATION (SMO) DRIVEN NETWORK ENERGY SAVING IMPLEMENTATION USING O1 INTERFACE - Patent Reference: PI23-00607WO01 , Filed Date: 28 Aug 2024, Application Number: PCT/US2024/044116 , Country: Patent Cooperation Treaty.
18.	SERVICE MANAGEMENT AND ORCHESTRATION (SMO) DRIVEN NETWORK ENERGY SAVING IMPLEMENTATION USING O1 INTERFACE - Patent Reference: PI23-00562WO01 , Filed Date: 28 Aug 2024, Application Number: PCT/US2024/042646 , Country: Patent Cooperation Treaty.
19.	SYSTEM AND METHOD FOR NETWORK ENERGY SAVING IMPLEMENTATION USING O1 INTERFACE - Patent Reference: PI23-00697IN02 , Filed Date: 31 Aug 2024, Application Number: 202411000750 , Country: India.
20.	End to end resiliency framework and method - Patent Reference: PI24-00315IN01 , Filed Date: 31 Jul 2024, Application Number: 202411058170 , Country: India.
21.	Failure scenarios and considerations for resiliency and recovery mechanisms across different deployments - Patent Reference: PI24-00427IN01 , Filed Date: 22 Oct 2024, Application Number: 202441080361 , Country: India.
22.	Policy Management and Information SMO services - Patent Reference: PCT/US2024/053828/PI24-00038US01 , Filed Date: 31 Oct 2024, Application Number: 63/548,662 , Country: India.
23.	Deep Hibernate Sleep - Patent Reference: PI24-00040IN01 , Filed Date: 17 Jul 2024, Application Number: 202411006862/E-181/1649/2024/DEL , Country: India. Deep Hibernate Sleep - Patent Reference: PI24-00040IN01 , Filed Date: 01 Feb 2024, Application Number: 202411006862 , Country: India.
24.	PA Power Optimization based energy saving - Patent Reference: PI24-00310IN01 , Filed Date: 03 Apr 2024, Application Number: 202421056753 , Country: India.
25.	EXTERNAL POWER SOURCE COORDINATION THROUGH O-RAN RADIO UNITS (RU) - Patent Reference: PI24-00335IN01 , Filed Date: 14 Aug 2024, Application Number: 202441061780 , Country: India.

Membership in professional Societies

IEEE Senior Member – 92876453

IEEE Antennas and Propagation Society Membership

IEEE Microwave Theory and Technology Society Membership

Connected Vehicles, IEEE Vehicular Technology Society Technical Community on

IEEE Council on Superconductivity

IEEE Biometrics Council

IEEE Transportation Electrification Council

1.

IEEE Consultants Network Membership

IEEE Systems Council

Future Networks Community, IEEE

IEEE Antennas and Propagation Society Membership

IEEE SIGHT

Entrepreneurship Exchange Community, IEEE

Smart Cities Community, IEEE

IEEE Sensors Council

IEEE Nanotechnology Council

IEEE Council on RFID

IEEE Council on Electronic Design Automation

IEEE Young Professionals