

**Dr. MERLIN GILBERT RAJ, S**

Assistant Professor, Department of Electronics and Communication Engineering
Karunya Institute of Technology and Sciences
Coimbatore 641114, Tamil Nadu, India
Mobile : +91- 9443010445
Email : merlingilbert@karunya.edu / infomerlin@gmail.com

RESEARCH/TEACHING INTERESTS

My teaching interests include Electromagnetics and Waves, Antenna Design, Digital Signal Processing, Digital Communication, and Wireless Communication. My research focuses on reconfigurable antenna design, RIS-assisted communication, and millimeter-wave systems. I am also interested in hybrid beamforming and channel estimation using convex and concave optimization approaches to enhance next-generation wireless networks.

EXPERIENCE

- Assistant Professor-II, Electronics and Communication Engineering, Karunya Institute of Technology and Sciences, Coimbatore, India, 2023 – present
- Assistant Professor-I, Electronics and Communication Engineering, Karunya Institute of Technology and Sciences, India, 2013 – 2023
- Assistant Professor, Electronics and Media Technology, Karunya Institute of Technology and Sciences, India, 2011 – 2012
- Lecturer, Electronics and Media Technology, Karunya Institute of Technology and Sciences, India, 2009 – 2011

EDUCATION

Degree	Branch / Specialization	University	Class	Mode	Month & Year of Passing
Ph.D.,	Electronics and Communication Engg	Karunya Deemed University	-	Part Time	Aug 2021
M.E.,	Communication Systems	Anna University	First Class	Full Time	May 2009
B.E.,	Electronics and Communication Engg	Anna University	First Class	Part Time	April 2005

SUMMARY OF INTERNATIONAL JOURNAL & CONFERENCE PUBLICATIONS - [PUBLISHED & ACCEPTED]

Year	International Journal Publications	International Conference Publications	National Conference publications
2009 - 2025	10	12	2

PATENTS

1	Electronic Sound Synthesizer-Based Wild Animal Deterrent System, Application No.202541040313 A, Publication Date: 16/05/2025
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INSTITUTE DEVELOPMENT PROJECT

#	Title of the project	Funding Agency	Amount(Rs.)	Year
1	Modernisation of RF Laboratory with MIMO SDR Platform	AICTE - MODROB	39.4 lacks	2019- 2021

RESEARCH GUIDANCE

Research guidance as supervisor	Completed	Ongoing
Doctor of Philosophy - PhD Thesis advising	-	1
Master of Engineering - Master's Thesis advising	6	-

PROFESSIONAL MEMBERSHIPS

1	Member of IEEE & Communication Society (ComSOC)
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AWARDS/HONORS

- Summer Industry Experience Fellowship Award, ICON Design Automation Pvt Ltd, Bengaluru, India.
- NPTEL Elite Award, Applied Optimization for Wireless, Machine Learning, Big Data(12 Weeks Course).
- National Young Leaders Programme Award, National Service Scheme, Ministry of Youth Affairs & Sports, Government of India.
- Member of Expert Technical Committee, Telecom Technology Development Fund (TTDF) Proposals, Bharat 6G Vision, Ministry of Communications, Department of Telecommunications, Govt. of India

INDUSTRY CERTIFICATION

- AWR Microwave Office for RF Designers, CADENCE