

FACULTY PROFILE

Name of the Staff : **F. ANTONY JEFFREY VAZ**
Official Address : Assistant Professor (Sr.Gr)
Dept of EEE,
National Engineering College,
K.R. Nagar, Kovilpatti – 628 503
Official Mail ID : antonyjeffreyyy@nec.edu.in



1. Personal Details

Age : 34
Date of Birth : 07-09-1992
Sex & Marital Status : Male & Married.
Citizenship : Indian.
Qualification : M.E, Embedded System Technology

Degree	Program & Specialization	Class	Month & Year of Passing	Institute/University
PhD	Renewable Energy	-	Pursuing	Anna University, Chennai
M.E.	Embedded System Technologies	I Class	June 2016	Regional Office: Anna University Tirunelveli Region
B.E.	Electrical & Electronics Engineering	I Class	April 2014	St. Xavier's Catholic College of Engineering, Kanyakumari.

Date of joining : 01/06/2016

Present status : Assistant Professor (SG) / EEE @ NEC.

2. Academic Details:

2.1 Courses Taught:

Course Title	UG/PG
➤ Microprocessor and Microcontroller ➤ Embedded Systems ➤ Printed Circuit Board Designing and Fabrication. ➤ Python ➤ VLSI Design ➤ Advanced Switchgear. ➤ Electrical Energy Utilization and Conservation. ➤ Bio Medical Instrumentation. ➤ Basic Electrical and Electronics Engineering.	UG

2.2 Conferences / Seminars / Short Term Courses / Workshops Attended:

S.No	Title	Duration	Venue
1.	Logic Buildings with C, C++, HTML, JAVA.	28/01/2010 – 28/05/2010	CSC, Tuticorin-628001
2.	International Conference on Emerging Trends in Electrical and Computer Technology	23/03/2011 – 24/03/2011	St.Xavies's Catholic College of Engineering
3.	Robotics Workshop	22/08/2011 – 23/08/2011	SakRobotix Pvt Ltd
4.	IET Orange ₀₀₁ Program	18/01/2013	Indian Institute of Engineering Technology
5.	Hands-On MATLAB Training on Wireless Communication Systems	24/04/2013	IET - SXCCE
6.	Mobile Robotics Course	10/06/2013 – 30/06/2013	Core Institutions, Tuticorin
7.	Participated in Zonal Round of Robo-Tryst	2014	Robosapiens Technologies Pvt Ltd
8.	Workshop on Industrial Automation	07/02/2014 – 08/02/2014	Prolific Systems & Technologies Pvt Ltd
9.	Energizing Future India Expo	03/09/2015 – 04/09/2015	Regional Office Anna University Tirunelveli
10.	Conference on Green Initiative and Smart Grids	10/03/2016 – 11/03/2016	St.Xavies's Catholic College of Engineering
11.	Conference on Trends in Modern Power Electronics and Drives	01/04/2016	Government College of Engineering, Tirunelveli
12.	Embedded System Design using ARM 7 LPC2148	02/12/2016 – 03/12/2016	IELEC Systems
13.	Training Program on Technology Enabled Learning Process	27/05/2017 – 29/05/2017	NITTTR
14.	Training Program on Instructional Design and Delivery System	22/05/2017 – 27/05/2017	NITTTR
15.	Hands on Workshop on Python Programming	21/08/2017 – 22/08/2017	Center for Academic Course, Anna University, Chennai
16.	Short Term Course on Sensor Interfacing for IoT	05/03/2018 – 11/03/2018	Thiagarajar College of Engineering

17.	International Conference on Energy Efficient Technologies for Sustainability” IoT Based Distribution Transformer Care System”	05/04/2018 – 07/05/2018	St.Xavies’s Catholic College of Engineering
18.	International Conference on Energy Efficient Technologies for Sustainability “Amalgamated Fuel Detector and Level Indicator”	05/04/2018 – 07/05/2018	St.Xavies’s Catholic College of Engineering
19.	National Workshop on “Internet of Things”	03/12/2018 – 07/12/2018	NITTTR, Chennai
20.	Intelligent Battery Power Optimizer For IoT Devices	07/03/2019 – 08/03/2019	IEEE International Conference
21.	IoT Enabled Analog system Design	13/01/2020 – 17/01/2020	IISC- Bengaluru
22.	Webinar in Artificial Intelligence	25/05/2020 – 29/05/2020	MSME
23.	National Workshop on “Perspective of Teaching and Learning of Engineering Sciences for Outcome Based Education”	15/06/2020 – 20/06/2020	AICTE-Margdarshan
24.	National Workshop on “Perspectives of Teaching and Learning of Engineering Sciences for Outcome Based Education”	15/06/2021 – 20/06/2021	AICTE-Margdarshan
25.	Data Interpretation and Visualization using R	31/01/2022 – 04/02/2022	NITTTR, Chennai
26.	Machine Learning for Electrical and Electronics Applications	06/02/2023 - 10/02/2023	NITTTR, Chennai
27	AI/ML and Data Science for Industry 4.0 (Basic Level)	21/08/2023 – 25/08/2023	NITTTR, Chandigarh

2.3 Online Certifications Completed:

S.No	Certification	Duration	Organizers
1.	Introduction to Research	September 2016	NPTEL
2.	The Joy of Computing Using Python	October 2018	NPTEL
3.	Big Data Analytics For Smart Grid	September 2019	NPTEL
4.	Primitive Neuron	July 2020	GUVI COURSE
5.	Learn Ethical Hacking from Scratch	August 2020	UDEMY
6.	Python for Data Science	February 2021	NPTEL

7.	Learn Python & Ethical Hacking from Scratch	February 2021	UDEMY
8.	Big Data Computing	August 2021	NPTEL
9.	Recent Advances in Transmission Insulators	February 2023	NPTEL
10.	Design Thinking - A Primer	August 2023	NPTEL
11.	Embedded System Design with ARM	March 2026	NPTEL - Silver

2.4 Industrial Trainings Attended:

S.No	Certification	Duration
1.	In-plant Training at Tuticorin Thermal Power Station	10/12/2012- 14/12/2012
2.	Progen Energy Solutions, Coimbatore	30/10/2018 – 03/11/2018
3.	Texas Instruments India University Program (EdGate tech Pvt Ltd)	19/01/2021 – 30/01/2021
4.	Adroit Power Systems India Private Limited, Coimbatore	28/02/2022 – 04/03/2022
5.	Vike Bike India Pvt Ltd	13/06/2023 – 17/06/2023
6.	Indus Electronics India Pvt Ltd	05/03/2024 – 09/03/2024
7.	Inesh Smart Energy	01/12/2025 – 05/12/2025

2.5 Seminars / Short Term Courses / Workshop Organized:

S.No	Certification	Duration	Organizers
1.	Kalakshetra 15	01/04/2015	Regional Office Anna University Tirunelveli
2.	Project Expo in Arduino	Jan 2017 – Apr 2017	National Engineering College
3.	Project Expo in Arduino	Jan 2018 – Apr 2018	National Engineering College
4.	Project Expo in Arduino and Raspberry pi	Jan 2019 – Apr 2019	National Engineering College
5.	Basics of MATLAB	Every Odd Saturdays 2019 - 2024	National Engineering College

2.6 Expert Lectures Delivered:

S.No	Certification	Duration	Organizers
1.	Basic Concepts of 8051 Microcontroller and Basic Embedded C Programming	11/03/2014	St.Xavies's Catholic College of Engineering

2.	Hands on Training in Arduino	June 2016 – Nov 2016	National Engineering College
3.	Hands on Training in Arduino	June 2017 – Nov 2017	National Engineering College
4.	Hands on Training in Arduino	June 2018 – Nov 2018	National Engineering College
5.	Real Time Monitoring Using Embedded Systems	20/02/2019 – 21/02/2019	National Engineering College
6.	Mini Project Forum	Jan 2021 – Feb 2021	National Engineering College
7.	Hands on Session in Arduino	Jun 2022 – Feb 2023	National Engineering College
8.	Mini Project Forum	Jun 2022 – Feb 2023	National Engineering College
9.	Hands on Session in Arduino	Jun 2023 – Feb 2024	National Engineering College
10.	Mini Project Forum	Jun 2023 – Feb 2024	National Engineering College
11.	Responsible and Sustainable Artificial Intelligence for Future Engineering	5 th March 2026	Institute of Engineers – VOC College, Anna University, Thoothukudi

3. International Conference Publications:

S.No	Title of the Paper	Conference Name	Organizers	Month & Year
1.	Water Management System using ATMEGA328P	9 th International Conference On Contemporary Engineering and Technology	Prince Shri Venkateshwara Padmavathy Engineering College	March - 2021
2.	Multipurpose Spy Robot	9 th International Conference On Contemporary Engineering and Technology	Prince Shri Venkateshwara Padmavathy Engineering College	March - 2021
3.	IoT Based Smart Home with Voice Controlled Appliances using Raspberry	6th International Conference on Trends in Electronics and Informatics ICOEI 2022	SCAD College of Engineering and Technology	April 2022
4.	Smart Attendance System using RFID and Raspberry Pi	2023 Second International Conference on Electronics and Renewable Systems (ICEARS)	St. Mother Theresa Engineering College	March 2023

5.	Exploring Innovative IoT Solutions for Automated Battery Condition Detection in Electric Vehicles	2023 7th International Conference on Computing Methodologies and Communication (ICCMC)	Surya Engineering College	Feb 2023
6.	IoT based Smart Controller for Ceiling Fan	7 th International Conference on Trends in Electronics and Informatics ICOEI 2023	SCAD College of Engineering and Technology	April 2023
7.	An Automatic Solar Panel Performance Monitoring System and Load Control using IoT Technique	5th International Conference on Smart Systems and Inventive Technology, ICSSIT 2023	SR University, Telangana, India	Jan 2023
8.	Performance Analysis of nRF24L01 Wireless Module	5th International Conference on Data Intelligence and Cognitive Informatics (ICDICI)	SCAD College of Engineering and Technology	Nov. 2024
9.	Smart Information System for Motorcycle	5th International Conference on Trends in Material Science and Inventive Materials (ICTMIM)	Rohini College of Engineering and Technology Kanyakumari, India.	April 2025

4. Professional Body IET / IEEE:

S.No	Active Member	Duration
1.	Indian Institute of Engineering Technology (IET)	July 2012 – June 2014

5. Grant Received from Government Funding Agencies:

S.No	Project Title	Funding Agency	Duration	Amount Received
1.	Smart Carry-On Luggage	NewGen IEDC [NSTEDB & DST]	2018 JULY – 2019 DEC	2,50,000
2.	An Apparatus For Surveilling Air Disseminating Members	NewGen IEDC [NSTEDB & DST]	2019 JULY – 2020 DEC	2,50,000
3.	Cold Container Monitoring & Risk Assessment System For Naval Transportation	NewGen IEDC [NSTEDB & DST]	2021 JULY – 2022 DEC	2,50,000

4.	Smart Info System For Bike	NewGen IEDC [NSTEDB & DST]	2021 JULY – 2022 DEC	2,50,000
5.	Smart Bike Lock	TNSTSC	2024 - 2025	7,500

6. Patent Claimed:

S.No	Patent	Application No	Date of Publication
1	Smart Carry-On Luggage	202041006563	21/02/2020

7. Patent Granted:

S.No	Patent	Application No	Granted Application
1	An Apparatus For Surveilling Air Disseminating Members	202241010736	486794

8. Consultancy Project:

S.No	Title of the Consultancy	Amount	Date of Completion	Academic Year
1	Automatic Irrigation System 2 Acers Irrigation automation Implemented with 10 valve system at Thonugal village, Kovilpatti.	1.06 Lakhs	26/03/2024	2023 - 2024

9. Additional Responsibilities Held:

S.No	Responsibility	Duration
1.	Department Intercom In-Charge	2016 – 2026
2.	Mini Project Forum Assist	2016 – 2026
3.	Microprocessor and Microcontroller Lab Assist	2016 – 2026
4.	EEE Department Association Assist	2016 – 2026
5.	UG Project Assist	2017 – 2026
6.	Class Tutor	2017 – 2026
7.	Department Level Furniture In-Charge	2019 – 2026
8.	Product Lab and IIOT Robotics Lab	2026