

## BIO DATA



Name : Mr.P.Gunasekaran

Designation : Assistant Professor

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Google Scholar link:

<https://scholar.google.com/citations?user=YvfdQFsAAAAJ&hl=en>

### 1. Educational Qualification:

Degree	Branch / Specialization	Institute/University	Year of Passing
B.E.	Electronics and Communication Engineering	Arulmigu Kalsalingam College of Engineering, Anna University, Chennai	2010
M.E	Network Engineering	Veltech Multitech Dr.RR Dr.SR Engineering College, Anna University, Chennai	2013
Ph.D	Information and Communication Engineering	Anna University, Chennai	Pursuing

### 2. Professional/ Industry Experience: (in chronological order)

S.No	Designation	Institution/ Organization	Period	
			From	To
1	Assistant Professor II	Ramco Institute of Technology, Rajapalayam.	Jan 2021	Till Date
2	Assistant Professor	Ramco Institute of Technology, Rajapalayam.	01.06.2017	31.12.2020
3	Assistant Professor	Sri Vidya College of Engineering and Technology, Virudhunagar.	26-08-2016	25-04-2017
4	Assistant Professor	PSN College of Engineering and Technology (Autonomous), Tirunelveli.	20-08-2013	24-08-2016

Updated as on 06.04.2026

### 3. Research Interest

- Communication and Signal Processing
- Embedded Systems and Internet of Things
- Machine Learning

### 4 Publications

#### 4.1 JOURNAL PUBLICATIONS

1. Mr.P.Gunasekaran, Mr.B.Sivakumar, (2012) “Encryption and Signature schemes for data integrity using Recoverable Concealed Data Aggregation Scheme”, “International Journal of Electronics and Computer Science Engineering (IJECSSE) ISSN NO-2277-1956, Volume 1 Number 4.
2. Mr.B.Sivakumar, Mr.P.Gunasekaran, Mr.T Selva Prabhu, Mr.P.Gunasekaran, Mr.D.Anandhan, (2012) “The Application of Wireless Sensor Network in the Irrigation Area Automatic System”, International Journal of Computer Technology and Applications, ISSN: 2229 – 6093, Volume 3, Issue 1, Page No: 67-70”.
3. Mr.A Venkadesh, **Mr.P.Gunasekaran**, (2015) “Design and development of aircraft to aircraft communication by adhoc networks” in Circuit, Power and Computing technologies (ICCPCT) – IEEE Conference Publications- INSPEC Access Number 15304514-DOI-10.1109/ICCPCT.2015.7159529.
4. Mr.T.Dhanabalan, **Mr.P.Gunasekaran**, (2016) “Design and Implementation of Industrial Automation using IoT”, “International Journal of Advanced Research in Engineering and Technology”, Volume 3, Special Issue 13.
5. R.ManjuPriya A.Azhagu Jaisudhan Pazhani, B.Kannan, **P.Gunasekaran**, J.Gayathri, (2020) “Smart Wearable Device for Employee Monitoring System using Green IOT”, Journal of Green Engineering (JGE), Volume 10, Issue-9, Pages 4886-4895.
6. Azhagu Jaisudhan Pazhani.A, **P. Gunasekaran**, Vimal Shanmuganathan, Sangsoon Lim, Kaliappan Madasamy, Rajesh Manoharan and Amit Verma (2022) “Peer–Peer Communication Using Novel Slice Handover Algorithm for 5GWireless Networks”, Journal of Sensor and Actuator Networks, Volume 11, Issue 4, <https://doi.org/10.3390/jsan11040082>.
7. **Perumalsamy Gunasekaran**, A Azhagu Jaisudhan Pazhani, T Ajith Bosco Raj, (2022) “A novel method for multiple object detection on road using improved YOLOv2 model”, Informatica, Volume 46, Issue 4, pages 567–574.
8. A Azhagu Jaisudhan Pazhani, **Perumalsamy Gunasekaran** (2025) “Improved Memory Efficient Computing Unit DWT Architecture For Satellite Images”, Informatica, Volume 49, Issue 14, pages 111–118.
9. A Rameshbabu, AAJ Pazhani, **P Gunasekaran**, B Kannan, “Design Considerations for

## CONFERENCE PUBLICATIONS

1. **Gunasekaran.P**, Selvameena, Selvalakshmi (2018) “Monitoring physiological variables of mining workers and variables a high altitude” (National Conference) at Ramco Institute of Technology, Rajapalayam.
2. **Gunasekran.P**, Perunjothi, Nivetha, Pargavi, (2019) “Multiple Object Detection On Road using YOLOv2 Model ” (National Conference) at RVS College of Engineering & Technology, Coimbatore.
3. **Gunasekaran.P**, Sriram, Vasu vinod kannan, Prasanth P G, (2019) “Design and Implementation of Vertical Takeoff and Landing System with myVOL NI mini system and myDAQ” (National Conference) at RVS College of Engineering & Technology, Coimbatore.
4. **P. Gunasekaran**, K.Akilandeswari and K.R.Asiba Mina (2023) , “An Accurate Prediction of Bitcoin price using Data science and Deep learning”, International Conference on Innovative Engineering and Information Technology, (ICIEIT’2023).
5. A. Bhagyalakshmi, K. Sasirekha, **P. Gunasekaran**, Ashok Kumar Koshariya (2022), ”Smart agriculture system monitoring by IoT”, International Conference on Contemporary Innovations in Engineering & Management in Data Sciences, IOT & Computaional techniques, Andhra Pradesh.
6. Gunasekaran P, Gokul S, Achuthan R, (2022), ” Semi Flexible Wearable Antenna for Biomedical Applications”, National Conference on Recent Trends in Engineering, Sceince and Management (RTESM-KCET 2022, Coimbatore.
7. Gunasekaran P, manovah kathir K, Mithradevi L, (2020) ” Data gathering on Compressed Sensing in Wireless Sensor networks”, Seventh National Conference on Networking Intelligence and Computing at Kongu Engineering College.

## 4.2 Book/Book chapter publications

1. Rameshbabu A, Azhagu Jaisudhan Pazhani A , **Gunasekaran P** and Kannan B, “ Design Of Portable Health Care Monitoring System Using Iot” SPAIoT-2021 (Self-Powered AIoT Systems, Taylor & Francis Publication) – Accepted for publication.
2. Kannan B, Azhagu Jaisudhan Pazhani A, **Gunasekaran P** and Rameshbabu A, “Smart Sensor System”, SPAIoT-2021 (Self-Powered AIoT Systems, Taylor & Francis Publication) – Accepted for publication.
3. **Gunasekaran P**, Azhagu Jaisudhan Pazhani A, Rameshbabu A, Kannan B, “Role of wavelength Division Multiplexing in Optical Communication”, MOOCN, Scrivener Publishing.

## 5 Funded Projects

S.No.	Title of the project	Funding Agency	Duration	Amount	Status
1.	Smart Antitheft system for automotive Security with Face Recognition and SMS Ignition Control	FAER	6 Months	-	Completed

## 6 Ph.D. guidance

Sl.No	Scholar name	University	Topic	Status

## 7 Short term Courses / Seminars /FDP/Workshop/ConferenceAttended:

Sl.No	Title of the event	Organized by	Date	
			From	To
	IIT PALS FDP at Teaching Learning Centre IIT madras	IIT PALS	12.11.2019	14.11.2019
1	Analog, Power, Embedded Systems and Wireless (IoT) hands on Workshops”	National Institute of Technology, Trichy	25.07.2016	28.07.2016
2	RF and Microwave Engineering	Ramco Institute of Technology, Rajapalayam	12.06.2017	16.06.2017
3	Professional ethics and human values	Ramco Institute of Technology, Rajapalayam	30.10.2017	12.11.2017
4	Array Signal Processing in Radar and Wireless Communications	Thiyagarajar College of Engineering, Madurai.	04.12.2017	10.12.2017
5	EC6702 Optical communication and Networks”	University College of Engineering, Ramanathapuram	11.06.2018	17.11.2018
6	EC8501 Digital Communication	National Engineering College, Kovilapatti	27.06.2019	01.06.2019
7	FDP on Internet of Vehicles	KPR Institute of Engineering and Technology	04.06.2020	05.06.2020
8	FDP at IIT Madras Teaching Learning Centre	IIT Madras	14.11.19	16.11.19
9	Webinar on Effective use of Learning Management system	Ramco Institute of Technology	09.05.20	
10	Webinar on Latest trends in Networking Technologies	Ramco Institute of Technology	22.05.20	
11	Webinar on The Art of Writing Research Papers	Chennai Institute of Technology	29.04.20	

12	Webinar on Virtual labs – Viable Alternatives to Physical Labs	IIT Madras	03.05.20	
13	Workshop on Design thinking & Innovations	MHRD IIC	06.01.20	07.01.20

### 8. Short term Courses / Seminars /FDP/Workshop/Conference organized:

Sl.No	Title of the event	Organized by	Date	
			From	To
1	Line Follower Robot	Ramco Institute of Technology, Rajapalayam	24.03.2018	24.03.2018
2	Engineers Day Celebration	Ramco Institute of Technology, Rajapalayam	14.09.2019	14.09.2019
3	Latex and Overleaf – Powerful Tools for writing research papers	Ramco Institute of Technology, Rajapalayam	07.06.20	
4	LabVIEW for Real time Applications	Ramco Institute of Technology, Rajapalayam	06.09.19	07.09.19
5	IoT with Arduino	Ramco Institute of Technology, Rajapalayam	14.05.20	16.05.20
6	FDP on Applications of Matlab in Research Perspective	Ramco Institute of Technology, Rajapalayam	21.06.23	23.06.23

### 9. Online Courses

Sno	Course title	University	Date
1	MITx - 18.01.1x Calculus 1A: Differentiation	MIT, USA	15.09.2017
2	MITx - 18.01.2x Calculus 1B: Integration	MIT, USA	09.03.2018
3	MATLAB Onramp	Mathworks	22.11.2018
4	Deep Learning Onramp	Mathworks	23.11.2018
5	DAT280x Essential Math for Machine Learning: R Edition	Microsoft	26.11.2018
6	MITx - 6.002.1x	MIT, USA	03.06.2019

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	Circuits and Electronics 1: Basic Circuit Analysis		
7	MITx - 18.01.3x Calculus 1C: Coordinate Systems & Infinite Series	MIT, USA	12.05.2019
8	MITx - 18.031x - Introduction to Differential Equations	MIT, USA	26.12.2019
9	ML0101EN: Machine Learning With Python: A Practical Introduction	IBM, EDX	8 Weeks/ 31.08.2020
10	The Bits and Bytes of Computer Networking	Google, Coursera	8 Weeks/ 18.08.2020
11	IOT101.1x: Introduction to the Internet of Things	Universitat Politecnica De Valencia, Edx	8 Weeks/ 27.08.2020
12	18.03L: Transfer Functions and the Laplace Transform	MIT, EDX	8 Weeks/ 01.09.2020
13	Introduction to the Internet of Things and Embedded Systems	University of California, Irvine, Coursera	15.06.2020
14	Vector Calculus for Engineers	The Hong Kong University of Science and Technology, Coursera	22.06.2020
15	Creating Web Applications Using LabVIEW NXG – English	National Instruments, USA	4 weeks/ 09.05.2021
16	Technical Support Fundamentals	Google, Coursera	6 weeks/ 31.08.21
17	Neural Networks And Deep Learning	DEEPLARNING.AI, Coursera	12 weeks/ 29.11.2021

#### 10. Patents filed/awarded

Sl. No.	Title	Application No.	Filed Date	Status	Inventor(s)
1.	Bike Ignition Control using Chin Strap Switch	202141003316	25.01.2021	Published	Mr.B.Kannan Dr.A.Azhagu Jaisudhan Pazhani Mr.P.Gunasekran Dr.S.Periyanayagi Mr.S.Shanmuga Sivabala Mr.A.Veerendrakumar Mr.C.Vijay Amalan
2.	Employee Location	202141057452	10.12.2021	Published	Dr.A.Azhagu

Updated as on 06.04.2026

	tracking and attendance monitoring system using wearable device				Jaisudhan pazhani Dr.S.Periaynayagi Mr.B.Kannan Mr.P.Gunaseakran Ms.J.Gayathri Ms.R.manjupriya Mrs.K.Sahithya
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### **11. Membership in Professional societies**

- **ISTE LM**
- **IAENG**
- **UACEE**

### **12. Awards, Recognition & Achievements**

- Cisco Certified Instructor for Network Engineering Course
- Recognized as an IIC Innovation Ambassador - Advanced (2022) by MHRD IIC.
- Recognized as an IIC Innovation Ambassador (2020) by MHRD IIC.
- Certified LabVIEW Associate Developer (CLAD) form National Instruments, USA.
- Course Designer for Anna University Chennai approved Value added Course on “IVA013 Virtual Instrumentation”
- Resource Person for workshop on LabVIEW for Real Time Applications
- Resource Person for Anna University Approved Value Added Course on “MVA008 Internet of Things applications in Mechanical Engineering”

### **Any others (Board of studies/Governing Council/Staff Selection/ Reviewer/other duties)**

- Class Advisor for 2022 - 2026 Batch
- Virtual Lab Coordinator
- Department Affiliation Incharge
- NAAC Criteria 3
- NBA Criteria 5
- IIC Member
- Naan Mudhalvan Course Instructor for Network Engineering Course