

# Polepogu Rajesh



**Designation** : Assistant Professor  
**E-Mail ID** : rajeshpolepogu@vrsiddhartha.ac.in  
**Contact at** : Department of Electronics & Instrumentation Engineering,  
 Velagapudi Ramakrishna Siddhartha Engineering College,  
 Kanuru, Vijayawada, Andhra Pradesh 520007.

## Education

### Pursuing Ph. D (School of Electronics Engineering)

2017, Vellore Institute of Technological University, Vellore, Tamilnadu.

### M.Tech (Instrumentation and Control Systems)

2010, Jawaharlal Nehru Technological University, Kakinada, Andhra Pradesh.

### B.Tech (Electronics and Instrumentation Engineering)

2007, Acharya Nagarjuna University, Guntur, Andhra Pradesh.

## Experience: 15 Years

Period	Designation	Institution / Organization	Key Responsibilities
2010 - Till date	Assistant Professor	Velagapudi Ramakrishna Siddhartha Engineering College	<b>Training &amp; Placement Coordinator</b> Curriculum design, research publications, academic leadership, NBA/NAAC coordination.

## Research Interests

### Broad Area of Research :

Bio-Signal Processing , Stastical Signal Processing

## Honors and Awards

## Courses Taught

S.No	Course Name	Level (UG/PG)
1	Analytical Instrumentation	UG
2	Digital Image Processing	UG
3	Electronic Circuits-II	UG
4	Industrial Instrumentation	UG
5	Pulse Circuits	UG
6	Biomedical Instrumentation	UG
7	Transducers	UG
8	Professional Ethics	UG
9	Basis of Electronics Engineering	UG
10	Linear Control Systems	UG
11	Industrial Electronics	UG
12	Electrical & Electronic Measurements	UG
13	Industrial Safety and Environmental Management	UG

## Research Profile

### Publications

The recent publications and research contributions can be viewed from the following URLs

Google Scholar	<a href="https://scholar.google.co.in/citations?user=CIXBBLYYYYAJ&amp;hl=en">https://scholar.google.co.in/citations?user=CIXBBLYYYYAJ&amp;hl=en</a>
Scopus	<a href="https://www.scopus.com/authid/detail.uri?authorId=57211693717">https://www.scopus.com/authid/detail.uri?authorId=57211693717</a>
ORCID	<a href="https://orcid.org/0000-0003-3440-9296">https://orcid.org/0000-0003-3440-9296</a>

### Recognized Research Supervisor

S.No.	Department	University
01.	NIL	NIL

## Funded Research Projects

Completed	NIL
On-going	NIL
Applied	NIL

## Administrative Roles

S.No.	Role	Institution	Duration	Responsibilities
1	NIL	NIL	NIL	NIL

## Completed

S.No.	Title	Platform	Duration	Year
1.	Digital Image Processing	NPTEL	12 Weeks	2018
2.	Bio Signal Processing	NPTEL	12 Weeks	2019
3	AI for Everyone	Coursera	4 Weeks	2020

## Consultancy / Industry Projects

Completed	NIL
On-going	NIL
Applied	NIL

## Patents

S.No	Title	Status	Application No.	Year
1.	A System and Method for Predictive Analytics in Retail using IOT-Enabled Sensor Network	Published	202541019470	21 <sup>st</sup> March 2025
2	A Distributed Network for Renewable Energy Sources using Remote Control System	Published	202541004598	31 <sup>st</sup> January 2025

3	AI Driven Decision Support System for Supply Chain Optimization	Granted	6415679	29 <sup>th</sup> May, 2025
4	A Method of Generating and Supplying Electricity from Sea Water	Published	202441079106	25 <sup>th</sup> October, 2024
5	A Method for Remote Monitoring and Control of Agricultural Irrigation	Published	202441030130	19 <sup>th</sup> April 2024
6	A Nano Biosensor for Sustainable Agricultural Practice and Food Industries	Published	202441020870	29 <sup>th</sup> March, 2024
7	A Method for Real-Time Environmental Monitoring using IoT Sensors	Published	202441003429	9 <sup>th</sup> February, 2024
8	A Method for Diagnosing and Treating Cancer Based on Nano-Robots	Published	202341080481	22 <sup>nd</sup> December, 2023
9	A Cloud-based Robotics Control System	Published	202341068188	20 <sup>th</sup> October, 2023
10	A Smart Control System using IOT for Electric Vehicles Management and Method Thereof	Published	202341041801	01 <sup>st</sup> September, 2023
11	A Nano Robotic Arm to Operate in the Endoscopy	Published	202341037699	16 <sup>th</sup> June, 2023

## Ph.D

<b>Awarded</b>	NIL
<b>Guiding</b>	NIL

## Invited Talks

<b>No. of Invited Talks</b>	NIL
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## Professional Service / Reviewer

- Reviewer in Advances in Science, Technology and Engineering Systems Journal (ASTESJ), USA.

## Professional Development Activities - Participations

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Faculty Development and Training Programmes (at least 5 Days)	07
International / National Level Seminars	00 / 02
International / National Level Conferences	14 / 02
Workshops	07
Instructor Led / Self-Paced Courses	04/01
Webinars	00

## Professional Bodies Membership Details

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S.No.	Membership No.	Society Name
1	F-504104	Life Member of Institute of Electronics and Telecommunication Engineering (IETE)
2	LM03732	Life Member of Indian society of systems for science and engineering(ISSE)
3	80347476	Life Member of International Association of Computer Science and Information Technology(IACSIT)
4	135465	Life Member of International Association of Engineers (IAENG )

(Polepogu Rajesh)

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