




# SETHU INSTITUTE OF TECHNOLOGY

(An Autonomous Institution| Accredited with 'A++' Grade by NAAC)

Pulloor, Kariapatti –Taluk. Virudhunagar Dist-626115.



Department of Electronics and Communication Engineering					
<b>Name</b>	A.Nagaraj				
<b>Date of Birth</b>	13.04.1987				
<b>Unique ID</b>	1-3586217403				
<b>Educational Qualifications</b>	M.E				
<b>Designation</b>	Assistant Professor				
<b>Email ID</b>	nagaraj.a@sethu.ac.in				
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<b>Experience</b>	Industry	Teaching	Others	Total	
	-	15 years 5 Months	-	15 years 5 Months	
<b>Date of Joining the Institution</b>	03.01.2018				
<b>Area of Specialization</b>	VLSI DESIGN				
<b>Courses taught</b>	Digital Signal Processing, Signals & Systems, Microprocessors & Microcontrollers, Control System, Circuit Theory, VLSI Design				
<b>Research Focus</b>	Biometric Authentication				
<b>Subject Competency</b>	Microprocessors & Microcontrollers, VLSI Design, DSP, Signals and Systems, Control Systems.				
<b>No. of papers published</b>	National Journals		International Journals	Conferences	
			07	10	
<b>PG Specialization</b>	VLSI Design				
<b>Ph.D. Specialization</b>	Biometric Authentication				
<b>Projects Carried out</b>	1.UBA Project under SEG Liquid Waste Management- Grey water Recycling System Design and Economical Analysis for Residences in Kariapatti Village 2. EDII Project Under IVP-A Scheme : IoT Based Air Quality Monitoring System				
<b>Patents (Filed &amp; Granted)</b>	Published- 02				



## Academic Credentials

Level	Degree	Specialization	University	Year of Completion
UG	B.E	ECE	Anna University, Chennai	2008
PG	M.E	VLSI Design	Anna University, Chennai	2013
Ph.D.		Biometric Authentication	Anna University, Chennai	Pursuing

### Details of Journal Publication:

1. R.Manimuthu and **A.Nagaraj**, ACO-Based Cluster Head Selection: Enhancing Performance And Network Lifetime In WSNS, International Journal of Innovative Research in Computer and Communication Engineering, Volume 13, Issue 5,pp.9622-9627, May 2025
2. R.Manimuthu , **A.Nagaraj** , M.Parisa Beham and R.Tamilselvi, Enhanced Energy Efficiency and Stability in Wireless Sensor Networks Using Fuzzy LogicBased Dual Cluster Head (FIS-DCH) Method, Volume 12, Issue 10,pp.11548-11556, October 2024|
3. Sabari Nathan, M Parisa Beham, **A Nagaraj**, S Roomi Multiattention-Net: A Novel Approach to Face Anti-Spoofing with Modified Squeezed Residual Blocks, Proceedings of the IEEE/CVF Conference on Computer Vision and Pattern Recognition. 2024.
4. Bajrang C, Suganthi G. V, Tamilselvi R, Parisa Beham M, **Nagaraj A.** A Systematic Review of Energy Harvesting from Biomechanical Factors. Biomed Pharmacol J 2019; 12(4).
5. Parisa Beham M., Tamilselvi R., Mansoor Roomi S.M., **Nagaraj A.** “Accurate Classification of Cancer in Mammogram Images”, Innovations in Electronics and Communication Engineering. Lecture Notes in Networks and Systems, Vol 65.pp.71-77, Springer, Singapore 2019.
6. N.Sathiyathan , A.Nagaraj& R.Karthick, , Journal of Global Research in Computer Science (9),1-4 “Medical Image Compression using View compensated Wavelet Transform”,
7. R Karthick, AM Prabakaran, P Selvaprassanth, N Sathiyathan, Nagaraj A. “High Resolution Image Scaling Using Fuzzy Based FPGA Implementation” Asian Journal of Applied Science and Technology (AJAST) 3 (1), 215-221

### Details of Conference attended:

1. S.M.Nazia Fathima, R.Tamilselvi. M.Parisa Beham and **A.Nagaraj** “A Deep Learning Approach on Segmentation of Bone for BMD Measurement from DEXA Scan”, ICBSII 20, SSN College of Engineering, 2020
2. R.Tamilselvi, **A.Nagaraj**,M.Parisa Beham and M.Bharkavi Sandhiya,”BRAMSIT: A Database for Brain Tumor Diagnosis and Detection”, ICBSII 20, SSN College of Engineering, 2020
3. M.Parisa Beham, N.Kayalvizhi, R.Tamilselvi and **A.Nagaraj**“MAMMSIT: A Database For The diagnosis and detection of Breast Cancer in Mammography images”, ICBSII 20, SSN College of Engineering, 2020
4. S.M.Nazia Fathima,R.Tamilselvi.**M.Parisa Beham** and Nagaraj, “Enhancement of X-Ray Images and

- Analysis of Statistical Parameters for detection of Osteoporosis”, ICBSII 19, SSN College of Engineering, March15-16, 2019.
5. **Nagaraj.A** “ Multi port network on chip design using modified weighted xy routing algorithm ” held at Vickram College of Engineering, Enathi.
  6. **Nagaraj.A** “ Modified Weighted XY Routing Algorithm for Adaptive Multiport NOC
  7. Using VLSITechnology” National conference held at Anna University Regional Centre,Ciombatore
  8. **Nagaraj.A** “ Intelligence based controllers for robort arm” National conference held at PSNA College
  9. of Engineering, Dindigul
  10. **Nagaraj.A** “ Multi port network on chip design using modified weighted xy routing algorithm” National conference held at Mohamed Sathak Engineering College,kilakarai

#### **Details of Patents Filed and Granted:**

1. Intelligent Wearable Device For Hemophilic Knee Rehabilitation With Sensor-Based Monitoring Published on 25.04.2025
2. AI-Based Range Prediction For Electric Vehicles To Improve User Experience published on 29.03.2024