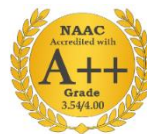





# SETHU INSTITUTE OF TECHNOLOGY

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

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Department of ECE					
Name	SATHIYANATHAN N				
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Experience	Industry	Teaching	Others	Total	
		13 years 4 Months	-	13 years 4 Months	
Date of Joining the Institution	03.01.2018				
Area of Specialization	VLSI Design				
Courses taught	Digital Electronics,VLSI, DSP, DCN, Electronic Devices, Optical & Microwave				
Research Focus	Signal Processing				
Subject Competency	VLSI, DSP, DCN,				
No. of papers published	National Journals		International Journals	Conferences	
			8	11	
PG Specialization	VLSI Design				
Ph.D. Specialization	Signal Processing				
Patents (Filed & Granted)	Published -3				
No. of Books published with details (Name of the book, Publisher with ISBN, year of publication, etc.)	1 (VLSI Design, Prime International Publications , ISBN -978-93-6010-731-4,2024))				



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## Academic Credentials

Level	Degree	Specialization	University	Year of Completion
Diplomo	DECE	ECE	Technical Board	2001
UG	B.E	ECE	Vinayaka Mission University	2008
PG	M.E	VLSI Design	Anna University	2010
Ph.D	Pursuing (Course Work Completed)			

## Details of Journal Publication:

1. P Sabarish, R Karthick, A Sindhu, N Sathiyathan “Investigation on performance of solar photovoltaic fed hybrid semi impedance source converters” - Materials Today: Proceedings, Vol 45,Pages 1597-1602, (2021)
2. R Karthick, A Manoj Prabakaran, P Selvaprassanth, N Sathiyathan, A Nagaraj “High resolution image scaling using fuzzy based FPGA implementation” in Asian Journal of Applied Science and Technology,Vol 3,Issue 1,Page 215-221,(2019)
3. Karthick R N.Sathiyathan and A.Nagaraj “Medical image compression using view compensated wavelet transform” Journal of Global Research in Computer Science,Vol 9,Issue 9,Pages 1-4,(2018)
4. N. Sathiyathan, Selvakumar. S, P. Selvaprassanth, “A Brief Study on IoT Applications” International Journal of Trend in Scientific Research and Development (IJTSRD), Vol 4 Issue 2 (2020)
5. J Dhana Sony, CS Ganesh, R Bhavani, R Abdul Sikkandar, N Sathiyathan “Nanobots: Uploading the human brain” AIP Conference Proceedings ,Vol 2518,Issue 1(2022)
6. B.Muthu Pandian, D.John Pragasam P.Selvaprassanth & N.Sathiyathan “An Effective Usage of LP Buses by DATCOD Technique” Mediterranean Journal of Basic and Applied Sciences (MJBAS), Vol 4, Issue 1, Pages 04-15(2020)
7. N Sathiyathan, S Selvakumar, P Selvaprassanth “Ultimate Benefits of US-Biopsy Vs Guided Mammography Biopsy for Possible Mini-Analysis without a Specific Breast Mass”, Asian Journal of Applied Science and Technology (AJAST),Vol 4 (2020)
8. N.Sathiyathan, “,Smart Wearable Glass for Visually Impaired” International Journal of Innovative Research in Science Engineering and Technology (IJIRSET). Volume 14, Issue 5, May 2025

### Details of Conference attended:

1. N.Sathiyathan,"Multi Classification of Hybrid BCI signal", International Conference on Business Analytics and Intelligence "ORSI-ICBAI -23,IISC,Bangalore
2. N.Sathiyathan,"Decoding brain signals, A comprehensive approach to hybrid BCI classification", International Conference on Business Analytics and Intelligence "ORSI-ICBAI -23,IISC,Bangalore
3. **Mr.N.Sathiyathan** "EMOTION RECOGNITION USING EEG SIGNALS" International Conference on Emerging Trends in Information & Communication Technologies(ETICT-2024)"
4. **Mr.N.Sathiyathan** "OPTIMIZED CNN-BASED EEG SIGNAL CLASSIFICATION VIA RDD PANDA PARAMETER TUNING" International Conference on Emerging Trends in Information & Communication Technologies (ETICT-2024)
5. **Mr.N.Sathiyathan** "DESIGN OF REVERSIBLE COMPARATOR USING QCA" International Conference on Emerging Trends in Information & Communication Technologies (ETICT-2023)
6. **Mr.N.Sathiyathan** "VLSI DESIGN COMPRESSOR TECHNIQUES FOR LOW POWER MAC UNIT" International Conference on Emerging Trends in Information & Communication Technologies (ETICT-2023)
7. **Mr.N.Sathiyathan** "SMART FARMING USING IOT" International Conference on Emerging Trends in Information & Communication Technologies (ETICT-2023)
8. **Mr.N.Sathiyathan** "National conference on "VLSI implementation of view compensated wavelet transform using rendered image" at MEPCO Schlenk engineering college, Sivakasi.
9. Mr.N.Sathiyathan "SMART WEARABLE GLASS FOR VISUALLY IMPAIRED" National Conference on Emerging Trends In Information And Communication Technologies (ETICT-2025)
10. Mr.N.Sathiyathan "ELDER PEOPLE FALL DETECTION AND HEALTH MONITORING DEVICE" National Conference on Emerging Trends In Information And Communication Technologies (ETICT-2025)
11. Mr.N.Sathiyathan "SMARTVISION: WEARABLE ASSISTIVE TECHNOLOGY FOR VISUALLY IMPAIRED INDIVIDUAL" National Conference on Emerging Trends In Information And Communication Technologies (ETICT-2025)

### Details of Book Chapter and Books Published:

1. VLSI Design, Prime International Application, Edition 2024, ISBN 978-93-6010-731-4

### Details of Patents Filed and Granted:

Sl.No	Inventors	Patent Title	Patent No.	Year
1	N.Sathiyathan	AI-Powered Unmanned Aerial Vehicle (Uav) For Persistent Aerial Surveillance In Military Zones	202441068072	2024
2	N.Sathiyathan	Internet of Things Equipment Digital Identity Management System and method Based on Block Chain	202441000029	2024
3	N.Sathiyathan	Data-Driven Approaches for Cyber Defense of Battery Energy Storage Systems	202141052091	2021