




AALIMMUHAMMEDSALEGHCOLLEGE OFENGINEERING

NizaraEducationalCampus, Muthapudupet, AvadiAF, Chennai-600055.

Ph:044-26842627/26842086

DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING

NAME & INITIALS	A. MOHANASUNDARAM	
DESIGNATION	Assistant Professor	
EDUCATIONAL QUALIFICATION	M.E (PhD)	
EXPERIENCE	24 YEARS	
DATE OF JOINING	18.12.2003	
EMAIL ID	mohanasundaram.a@aalimec.ac.in	
AREA OF SPECIALISATION	POWER SYSTEM ENGINEERING, WIND ENERGY GENERATION.	

EDUCATIONAL QUALIFICATION

DEGREE	BRANCH/SPECIALIZATION	INSTITUTION	UNIVERSITY	YEAR
BE	ELECTRICAL AND ELECTRONICS ENGINEERING	BHARATH ENGINEERING COLLEGE, CHENNAI-72	MADRAS	1996
ME	POWER SYSTEM ENGINEERING	COLLEGE OF ENGINEERING, GUINDY CHENNAI-25	ANNA UNIVERSITY	2008
PhD	HYBRID RENEWABLE ENERGY and DEMAND SIDE MANAGEMENT	COLLEGE OF ENGINEERING, GUINDY CHENNAI-25	ANNA UNIVERSITY	SYNOPSIS/ THESIS SUBMITTED 2022

SHORT TERM COURSE OBTAINED

Name of the Course	Institution	Duration
CAD/CAM/CAE & CNC programming	Central Institute of Plastics Engineering & Technology (CIPET), Guindy.	7 th December 1998 - 3 rd March 1999.

PROFESSIONAL TEACHING EXPERIENCE (24 YEARS AND 6 MONTHS)

Name of the College	Designation	Duration
Aalim Muhammed Salegh College of Engineering, Avadi-IAF, Chennai -55	Head/EEE/Assistant Professor	June 2018 to Feb 2020 and only AP till date.
Aalim Muhammed Salegh College of Engineering, Avadi-IAF, Chennai -55	Assistant Professor	Dec 2003 to May 2018.
Jaya Engineering College, Tiruniravur, Chennai 602024.	Lecturer	July 2002 to November 2003
Bharath Engineering College, Chennai-72.	Lecturer	June 1998 to June 2002

GUEST TEACHING EXPERIENCE

Name of the College/University	Degree/Specialization	Subject taught/Duration
College of Engineering, Anna University, Chennai-25	M.E/Power System Engineering (Part-Time)	Power System Transients/ Second Semester (2016-2017)

INTERNATIONAL JOURNAL PUBLISHED

Name of the Journal	Journal title	Link to the Publications
Journal of Electrical Engineering, January 2018	Analysis and Design of a Giromil I Type Vertical Axis Wind Turbine for a Low Wind Profile Urban Area.	https://www.researchgate.net/profile/Mohanasundaram-Anthony
Sustainability, October 2020/Current Impact Factor: 2.576/Scopus citation score: 3.2	Design of Rotor Blades for Vertical Axis Wind Turbine with Wind Flow Modifier for Low Wind Profile Areas.	https://www.mdpi.com/2071-1050/12/19/8050 .
MDPI-Electronics (Systems & Control Engineering) July 2021/Current Impact Factor: 2.397/Scopus citation score: 2.7	Autonomous Fuzzy Controller Design for the Utilization of Hybrid PV-Wind Energy Resources in Demand Side Management Environment.	https://www.mdpi.com/2079-9292/10/14/1618

INTERNATIONAL AWARDS FOR PUBLICATIONS

JournalName	AwardName	H-Index	JournalCitations
London Journals Press, United Kingdom (UK)	Quarterly Franklin Membership ID#BO39884, May 2020	2	15

INTERNATIONAL JOURNAL REVIEWER/IEEE

ORCIDiD	Reviewing Journal
https://orcid.org/0000-0001-7334-9543	IEEE Accesses from 2019 till date London Journal Press from May 2020

PROFESSIONAL MEMBERSHIP

INDIAN SOCIETY FOR TECHNICAL EDUCATION (ISTE)	LIFE MEMBERSHIP Membership No.: LM-134372
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NPTEL-SWAYAM (IT) CERTIFICATION COURSE

Course Code/Name	Course Status	Course is given by
noc21-ee77/ Power System Analysis	One among the 100 completed the course all over India with an FDP certificate (July 2020)	Indian Institute of Techno logy, Kharagpur.

STATE LEVEL FUNDED PROJECTS

Name of the Sponsorship	Title of the project/year of the award
Tamil Nadu State Council for Science and Technology/ students project scheme 2020-2021	Regulation of MTC Bus with pas senger alert system The fund received is ₹ 7500.

NATIONAL LEVEL ACHIEVEMENTS AND AWARDS FOR UG PROJECTS

1. An Under Graduate project work guided with titled “**Solar-powered Airconditioner using BLDC motor**” shortlisted for the finals of “**AICTE-ECI Charta Vishwakarma Awards 2017**” organized by All India Council for Technical Education (AICTE), Ministry of Human Resource Development, Government of India, Registration Code: **VAEE048**.
2. Mentored a Hardware project model titled **Solar-Powered Smart Rail Crack Identification system** participated in the national level **HACKAT HON-2018 hardware edition** conducted by **Ministry of Human Resource Development, Government of India** and won all in India First Runner up prize and same is appreciated by Honorable chief minister of Tamil Nadu.
3. Participated as a **supporting Electrical Engineer in the Guinness World Record 2018** achievement completed by **Mr. Nawas Akram** in **Longest Power strip** held at Aalim Muhammed Salegh College of Engineering, Chennai-55.
4. **Participated in a TV program** named **Ariviyal Arivoum** regarding the project planning **Mr. Naushed Shaheb**, telecasted in **Doordarshan Podhiga** on 16th June 2019.

NOTICABLE CONTRIBUTIONS IN AMSCE/EEE DEPARTMENT

- Designed the Layout and constructed the first **POWER SYSTEM SIMULATION** lab at EEE/AMSCE in 2005 and the same is upgraded in 2012 for supporting PG-POWER SYSTEM under my Lab-in-charge role.
- Upgraded Electrical Machines Laboratory with **INNOVATIVE THREE PHASES LINEAR T-section INDUCTION MOTOR** (looking forward to filing a patent) to support High-speed bullet train transportations through students' projects.
- Inaugurated **ROBOTICS CLUB** in EEE/AMSCE in 2018 to provide training for HSC, Diploma, UG students with a syllabus in the basic manual to autonomous level in Terrain Robotics.
- Renewable Energy Laboratory was designed with a **2kW HAWT prototype Model, 2kW H-type VAWT model and 2kW Involute VAWT model** to learn wind energy conversion behaviour through real-time wind speed variations.
- Taken Lead role in Energy auditing of the AMSCE campus and constructed **20kW SOLAR POWER PLANT** to support the EEE/AMSCE to support Renewable Energy Laboratory and students projects.
- Being a **Project Coordinator** from 2005 to 2020, established a project store room to help the students to use hardware components from more than **500 IN HOUSE PROJECTS**. Personally guided **100+** innovative and award-winning UG PROJECTS.
- Taken in charge of HT **600kVA, 11kV / 440V Transformer substation and Diesel generator** maintenance for the AMSCE campus from 2018-2020.
- Nominated as EEE Department Coordinator for the first international conference **IIASE** in AMSCE in 2017 and presented three journals at the conference.
- **State Level Achievement** under my leadership as EEE Department HEAD/As per the **Times of India Ranking the Department of Electrical and Electronics Engineering** in Aalim Muhammed Salegh College of Engineering, **RANKED No 1** in Tamil Nadu for **two consecutive academic years in 2018-19 and 2019-2020**.

SIGNIFICANT FDP/WORKSHOP/CONFERENCES ATTENDED

- **Neural Networks and Fuzzy Logic Control from 18th - 30th June 2007 at College of Engineering (CEG), Anna University, Chennai-25.**
- **QIP on Internal Revenue Generation and Utilization in Engineering Institutions from 28th - 30th July 2008 at National Institute of Technical Teacher Training & Research (NITTR), Chennai-25 sponsored by MHRD, Government of India.**
- **Teaching the Teachers on 12th December 2009 at Aalim Muhammed Salegh College of Engineering, Chennai-55.**
- **Significance of Course Files & How to use it for PDCA in OBE on 4th June 2020 at Rajalakshmi Engineering College (Autonomous), sponsored by AICTE - Margadarshan.**
- **Direct & Indirect Measures of Assessment for CO, PO Attainment on 8th June 2020 at Rajalakshmi Engineering College (Autonomous), sponsored by AICTE - Margadarshan.**
- **Attended Workshop on Recent Trends in Energy Engineering held on 17th February 2007 at Aalim Muhammed Salegh College of Engineering, Chennai-55**
- **Attended Workshop on Computing, Conditioning & Controlling Techniques Applied to Electrical Engineering held on 9th February 2008 at Aalim Muhammed Salegh College of Engineering, Chennai-55.**
- **Attended Workshop on Introduction to PLC programming & Interfacing with HMI held on 21st - 23rd January 2010 at Aalim Muhammed Salegh College of Engineering, Chennai-55.**

- **Attended AICTE Sponsored Two days National Workshop on Challenges and opportunities in Solar Photovoltaic- An Emerging Energy Research, from 19th-**
- **Attended a *International conference IIASE-2017* and presented a paper titled *Design and Implementation of DSM Toll to study the impact of fossil fuel fixed and variable cost effect on different consumers in MATLAB/SIMULINK Environment* from 3rd-4th March 2017 held at Aalim Muhammed Salegh College of Engineering, Chennai-5**