



AALIM MUHAMMED SALEGH COLLEGE OF ENGINEERING

(NAAC Accredited)

Nizara Educational Campus, Muthapudupet,

Avadi IAF, Chennai - 600 055. Ph: 044 - 26842627 / 26842086

DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING

NAME & INITIALS **Dr.A.MOHANASUNDARAM**

DESIGNATION **Associate Professor**

EDUCATIONAL QUALIFICATION **B.E., M.E., Ph.D.,**

EXPERIENCE **26 Years and 3 Months**

DATE OF JOINING **18.12.2003**

EMAIL ID **mohanasundaram.a@aalimec.ac.in**

AREA OF SPECIALISATION

Power System Engineering,
Wind Energy Generation,
Hybrid Renewable Energy,



Google Blog link:

<https://sites.google.com/aalimec.ac.in/dr-a-mohanasundaram-profile/home>.

EDUCATIONAL QUALIFICATION

DEGREE	SPECIALIZATION	INSTITUTION	UNIVERSITY	YEAR OF PASSING
PhD	Wind Energy	College of Engineering, Chennai-25	Anna University	2022
M.E	Power System Engineering	College of Engineering, Chennai-25	Anna University	2009
B.E	Electrical and Electronics Engineering	Bharath Engineering College, Chennai-72	Madras University	1996

PROFESSIONAL MEMBERSHIP

Indian Society For Technical Education (ISTE)	Life Membership Membership No.: LM-134372
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PROFESSIONAL TEACHING EXPERIENCE: 26 YEARS AND 3 MONTHS

Name of the College	Designation	Duration
Aalim Muhammed Salegh College of Engineering, Avadi-IAF, Chennai -55	Associate Professor/ECE	08.04.2024 till date
Aalim Muhammed Salegh College of Engineering, Avadi-IAF, Chennai -55	Head/EEE/Assistant Professor	June 2018 to Feb 2020 and only 07.04.2024
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

SHORT-TERM COURSE OBTAINED

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

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)

PHD SUPERVISOR

Recognized supervisor in Centre For Research (CFR) · Anna University, Chennai - 600 025 Ref Number: 4230031	Area of specialization: <ul style="list-style-type: none">• Design of vertical axis wind turbine• Home energy management• Hybrid wind solar energy optimum utilizations
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INTERNATIONAL JOURNAL PUBLISHED

S.No	Name of the Journal	Journal title	Link to the Publications
1	Journal of Electrical Engineering, January 2018	Analysis and Design of a Giromill Type Vertical Axis Wind Turbine for a Low Wind Profile Urban Area.	https://www.researchgate.net/profile/Mohanasundaram-Anthony
2	Sustainability, October 2020/Current Impact Factor: 2.576/Scopus cite 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 .
3	MDPI –Electronics (Systems & Control Engineering) July 2021/Current Impact Factor: 2.397/Scopus cite 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
4.	Electrical Engineering/Springer Nature, January 2023. Impact Factor: 1.631 (Annexure-1)	Design of a Wind-Solar Hybrid Energy Air Conditioning System Using BLDC Motor for the Residential Buildings.	https://link.springer.com/article/10.1007/s00202-023-01759-w

INTERNATIONAL JOURNAL REVIEWER /EDITORIAL MEMBER

ORCID iD	Reviewing Journal
https://orcid.org/0000-0001-7334-9543	IEEE Accesses from 2019 till date London Journal Press from May 2020
Editorial Member	International Journal of Architectural Engineering Technology, From March 2023 Onwards. _ISSN (online): 2409-9821

INTERNATIONAL AWARDS FOR PUBLICATIONS

Journal Name	Award Name
London Journals Press, United Kingdom	Quarterly Franklin Membership ID #BO39884, May 2020

NPTEL –SWAYAM CERTIFICATION COURSE

Course Code /Name	Course status	Course is given by
<i>noc21-ee77/ Power System Analysis(12weeks)</i>	One among the 100 completed the course all over India with an FDP certificate (July 2020)	Indian Institute of Technology, Kharagpur.
<i>noc22-ee06/ Electrical Machines – II (12weeks)</i>	Obtained NPTEL ELITE Certificate (April 2022)	Indian Institute of Technology, Kharagpur.
<i>noc23-ge40/ Fundamentals Of Artificial Intelligence/(12weeks)</i>	Obtained NPTEL ELITE Certificate (November 2023)	Indian Institute of Technology, Guwahathi.
<i>noc23-cs83/ Introduction To Internet Of Things/(12weeks)</i>	Obtained NPTEL ELITE Certificate (November 2023)	Indian Institute of Technology, Kharagpur

NATIONAL LEVEL ACHIEVEMENTS &AWARDS FOR THE PROJECTS

- An Under Graduate project work guided with titled “**Solar-powered Air conditioner 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.
- Mentored a Hardware project model titled **Solar-Powered Smart Rail Crack Identification system** participated in the national level **HACKATHON-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 Honourable chief minister of Tamil Nadu.
- 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.
- **Hosted a TV program** named **Ariviyal Arivoum** regarding the project planning Mr Naushed Shaheb, telecasted in **Doordarshan Podhigai** on 16th June 2019.

STATE-LEVEL SPONSORSHIP FOR BEST 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 passenger alert system The fund received is ₹ 7500.
Niral Thiruvizha 2023-24	Next Generation E-Bicycle The fund allotted is ₹ 10000

SIGNIFICANT CONTRIBUTION IN THE INSPECTION

- Participated in an **NBA and Deemed University** linked inspection in **BHATAH ENGINEERING COLLEGE** in 2003.
- **EEE Department FILES** coordinator for the **NBA inspection in AMSCE** in 2011.
- Coordinator in the **ANNA UNIVERSITY** department inspection for permanent affiliation in 2011.
- **HEAD** for the **CRITERION 6 FILES** and presented the **EEE achievements** during the **NAAC Inspection** in 2018.

NOTICEABLE CONTRIBUTION IN THE 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 storeroom 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 2017-2020.**
- **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.**
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CONTRIBUTION IN THE ACADEMIC AND EXAMINATION WORK

- **Framed a syllabus for the Direct Study Research Coursework Paper.**
- **Published a FIRST laboratory manual for Engineering Practices laboratory in 2012.**
- **Worked as Anna university representative (AUR) in smooth conducting university examination and Chief Examiner in answer paper valuation.**
- **Participated in UG /PG Project Viva Voce examination and UG /PG university Question paper setting in Power system and Electrical machines specializations.**

SIGNIFICANT FACULTY DEVELOPMENT PROGRAM 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.

WORKSHOP AND SYMPOSIUM ATTENDED

- **Attended Workshop on Emerging Trends in Electrical Electronics & computer science Engineering** held on 25th October 2005 at Aalim Muhammed Salegh College of Engineering, Chennai-55
- **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 21th- 23th 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-20th December 2013 held at RMK Engineering College.

SPECIAL AWARDS RECEIVED DURING RECENT TIMES

- Received “Excellence in Education 2022 award” from Tamil Nadu Teacher’s Association & Bala Educational trust on 10.09.22 by Justice Jeyachandran, Member, HRD.
- Received cash prize, certificate of appreciation and a shield for producing 100 % Results in a subject named EE 8019-SMART GRID in Anna University theory examination NOV/DEC 2022.
- Received cash prize, certificate of appreciation for producing 100 % Results in a subject named EE 8702-POWER SYTEM OPERATION AND CONTROL in Anna University theory examination APRIL/MAY 2023.

GUEST LECTURES /WEBINAR CONDUCTED AS A RESOURCE PERSON

- Provided a guest lecture on the topic of, Wind Power Generation Analysis Using QBlade software at GRT Engineering College for the EEE students on 26.08.2022.
- Conducted a webinar on the topic of, Design of vertical axis wind turbine Using QBlade software at Aalim Muhammed Salegh Engineering College for the Faculty members/ Research scholars/ PG &UG Engineering students on 27.04.2022.
- Conducted a Webinar on the Research topic, Comparative Analysis of vertical and horizontal axis wind turbine Using QBlade software at Aalim Muhammed Salegh Engineering College for the Faculty members/ Research scholars/ PG &UG Engineering students on 11.02.2023 with 163 participants (92% External participation).