

POTHIRASAN N

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OBJECTIVE

To secure a challenging position in an educational institution where I will work effectively and sincerely for the growth of the institution in all spheres such as admission, results and accreditation.

EDUCATIONAL QUALIFICATIONS

Course	Institution	Year of passing	Percentage of Marks/ CGPA/Status
Doctor of Philosophy (PhD)	Kalasalingam University	2020	NA
M.Tech (Power Electronics)	Kalasalingam University	2015	8.6
B.E. Electronics & instrumentation	JJ college of engineering ,Trichy	2013	6.7
HSC	PACM Higher Secondary School, Rajapalayam.	2009	80.66
SSLC	PACM Higher Secondary School, Rajapalayam.	2007	75.6

ACADEMIC CHARACTERISTICS

- Focused & goal oriented professional; Adept at guiding students through research by using interactive discussions and 'hands-on' approaches to help students learn and get a better understanding of the concerned subject. Conceptually strong, innovative & analytical approach at work with an eye for detail.
- Highly research oriented, qualitative and analytical, with a strong capacity to conduct independent research.
- Demonstrated ability to develop goals, objectives and implement strategies through planning and research experience.

- Proven ability to conceptualize problems and develop well-reasoned and integrated solutions, as demonstrated throughout research.
- Ability to meet deadlines, result-oriented, confident, team building, ability to absorb and master concepts quickly; good at planning, organizing and monitoring skills.

TEACHING SKILLS

- Spearheading curriculum planning, professional development and implementation of educational programs.
- Reviewing the preset educational goals, objectives, and classroom instructional programs, establishing academic and other performance objectives.
- Fostering relationships between the institution and the community; acting as a Resource person for several workshops, orientation programs, general and subject based.
- Coordinating for keeping up to date with curriculum changes and assessment methods.
- Fostering a healthy learning atmosphere in class and responding to all classroom queries in a spontaneous manner; facilitating/ coaching and training by using interactive discussions.

INTERNATIONAL CERTIFICATIONS/ ACHIEVEMENTS/ MEMBERSHIPS

- Designated as one of the **Director** of Raj Bio-electronics and Intelligent Pvt.Ltd., a startup awarded **Rs.1000000** Under the Financial Support of NSTEDB, **DST, Govt. of India, New Delhi** for a period of one year(2017-2018) in **Kalasalingam university**.
- Designated as the Director of Hashan Medicare a startup company in Rajapalayam.
- Designated as one of the **Director** of a startup awarded **Rs.1500000** Under the Financial Support of NSTEDB, **DST, Govt. of India, New Delhi** for a period of one year.(2022-2023) the title is endo illuminator dual light source (**Ramco Institute of Technology, India**)
- Designated as one of the **Director** of a startup awarded **Rs.1500000** Under the Financial Support of NSTEDB, **DST, Govt. of India, New Delhi** for a period of one year.(2023-2024) the title is solar based portable bipolar electrocautery machine (**Ramco Institute of Technology, India**)
- Designated as one of the **guidance** of a startup awarded **Rs.1500000** Under the Financial Support of NSTEDB, **DST, Govt. of India, New Delhi** for a period of one year (2022-2023) the title is Multilingual IoT-based Assist Device for Pisciculture Farmers in **Kalasalingam university**.
- Designated as one of the **guidance** of a startup awarded **Rs.1500000** Under the Financial Support of NSTEDB, **DST, Govt. of India, New Delhi** for a period of one year. (2022-2023) the title is smart IoT based mushroom cultivation and edibility prediction in **Kalasalingam university**.

- Designated as one of the **guidance Rs.35518** Under the Financial Support of **Ramco Institute of Technology** (AUG-2023) the title is **ONION CHALLENGES**.
- Designated as one of the **guidance Rs.22420** Under the Financial Support of **SRI VISHNU SHANKAR MILL LIMITED** (DEC-2023) the title is **Modern Blow Room Machine**.

International Journals

- Pothirasan, N., Rajasekaran, M. P., & **Muneeswaran, V.** (2018). Real time reactive power compensation for battery/photovoltaic hybrid power source for internet of hybrid electric vehicle system. *Cognitive Systems Research*, 52, 473-488. [**SCI Indexed Journal, Impact Factor: 1.182**]
- Pothirasan, N. Pallikonda Rajasekaran, **V. Muneeswaran**, V. Priority based an accident prevention system using V2V communication, *International Journal of Advanced Research in Dynamical and Control Systems*, 12(3 Special Issue), pp. 480-485, 2020.

. Book Chapters

- N.Pothirasan and M.Pallikonda Rajasekaran, Retrofitting of Sensors in BLDC Motor Based e-Vehicle— A Step Towards Intelligent Transportation System, *Smart Innovation, Systems and Technologies*, **105**(2018), 61-69

International Conferences (Publications)

- N. Pothirasan and M.Pallikonda Rajasekaran, Regenerative E-vehicle using BLDC motor, 2016 International Conference on Emerging Technological Trends (ICETT), Kollam, (2016), 1-4
- N. Pothirasan and M.Pallikonda Rajasekaran, Automatic vehicle to vehicle communication and vehicle to infrastructure communication using NRF24L01 module, In International conference on control, instrumentation, communication and computational technologies (ICCICCT), (2017), 1-4
- N.Pothirasan, M.Pallikonda Rajasekaran and V. Muneeswaran, Intelligent Transportation System of Solar Powered Hybrid Electric Vehicles using Pattern Matching Techniques in LabVIEW Environment, International Conference on Sustainable Developments, (2019).

INDUSTRIAL TRAINING (Resource Person)

- A 2-Day Hands-on workshop on **PCB DESIGN** was organized by Department of Electrical and Electronics Engineering on 24.08.2014 & 07.09.2014 for II year EEE students. 30 students attended the workshop (I session) on 28.04.2014 and 30 students attended the workshop (II session) on 07.09.2014. PG (M.Tech PED) students of Kalasalingam University, Krishnankoil gave hands-on training on PCB design.

- A 2-Day Hands-on workshop on **PCB DESIGN** was organized by the Department of Electrical and Electronics Engineering at Kalasalingam university for II year EEE students. (2015)
- A 2-Day Hands-on workshop on **PCB DESIGN** was organized by the Department of Electrical and Communication Engineering at Kalasalingam university for III year ECE students. (2015)
- A 2-Day Hands-on workshop on **PCB DESIGN** was organized by Department of Electrical and Electronics Engineering **LOYOLA - Icam COLLEGE OF ENGINEERING AND TECHNOLOGY (LICET)** for III year EEE students. (2019)
- The Hands-on workshop on Embedded **System Design Using Arduino** was organized by Department of Bio Medical Engineering at Kalasalingam university for III year students (2015).
- The Hands-on workshop on Arduino **hardware implementation** was organized by IEEE IC Educational activities team in organizing Try Engineering Workshop during June 25th and 26th 2021.
- The Hands-on workshop on Design idea for capstone project was organized by National industrial guest lecture on 12th July 2021.
- A 7-Day Hands-on workshop on **PCB DESIGN** was organized by the Department of Electrical and Electronics Engineering **JP COLLEGE OF ENGINEERING AND TECHNOLOGY** for III year EEE &ECE students. (2023).
- A 1-Day Hands-on workshop on **PROTEUS SIMULATION** was organized by the Department of Electrical and Electronics Engineering **AAA COLLEGE OF ENGINEERING AND TECHNOLOGY** at for III-year EEE students. (2023).
- SCHOOL INNOVATION DEVELOPMENT PROJECT (2022-2023) STATE LEVEL BOOT CAMP JUDGE.
- I handled student projects of around **200** main projects and mini projects.

EMBEDDED COURSES CONDUCTED IN COLLEGES

- ESP8266 course conducted in KARE
- ESP32 and ESP32 with camera module course conducted in KARE
- Training of Proteus cad simulation in basic electronics for Mechanical Engineering students in RIT
- Currently providing guidance of embedded projects to EEE students in RIT

INDUSTRY PRODUCTS

- WET Field Bi-Polar cautery (Analog & Digital Version)
- Anterior Vitrectomy
- Endo Illuminator White LED Light Source
- Chair Unit

PROJECT PROFILE

DOCTOR OF PHILOSOPHY-RESEARCH DETAILS

Specialization : Embedded System, Internet of Things

Title : **A STUDY ON CONTROLLER DESIGN FOR RECHARGEABLE E-VEHICLE AND AUGUMENTATION OF INTELLIGENT TRANSPORTATION SYSTEM**

PG PROJECT DETAILS

Title : REACTIVE POWER COMPENSATION USING CASCADED MULTI LEVEL INVERTER

Team size : Individual

Domain : Power Electronics

PERSONAL DETAILS

Date of Birth : 02-06-1992

Marital Status : Married

Father's Name : K. Nagarajan

Nationality : Indian

Permanent Address : 276, N-1, Sankarankovil Road, Bahilwan mahal near, Rajapalayam , Virudhunagar (DT) Pincode:626117.

REFERENCES

1. Dr.M.Pallikonda Rajasekaran

Controller of Examinations
Kalasalingam Academy of Research and
Education Virudhunagar (Dist), Tamilnadu,
India.

2. Dr.S.Kannan

Professor, Department of Electrical Engineering
Ramco Institute of Technology, India.

DECLARATION

I hereby declare that the particulars furnished above are true to the best of my knowledge and belief.



N.Pothirasan