

RESUME

K.Kalanithi,
2.46 Main Road,
Puduppathur Post.
Tiruvarur Taluk and District,
Tamilnadu, India.

Phone: 9843073660
E-mail:kalanithi05@gmail.com

CAREER OBJECTIVE

To work in an organization where I can use my skill and knowledge and past experiences in a way that is mutually beneficial to both myself and my employer and allow for future growth and advancement.

FIELD OF SPECIALIZATION

- Control systems
- Process control

ACADEMIC PROFILE

Class/course	Name of the Institution	Board of study	Year of passing	Marks %
Ph.D (Pursuing)	Anna University	Anna University	Pursuing	
M. Tech (Control and Instrumentation)	Thiagarajar College of Engineering, Madurai.	Anna university	2009	7.14 CGPA
B.E (Electronics and Instrumentation)	Mahendra Engineering College, Salem.	Anna university	2007	62
HSC	VHSS, Tiruvarur	State board	2001	75
SSLC	VSBHSS Tiruvarur	State board	1999	64

EXPERIENCE

- Worked as an Design Engineer in Shree Engineering, Pune from 15.06.2009 to 29.11.2010
- Working as an Assistant Professor in Sethu Institute of Technology, Kariapatti from January 2011 to till date.

PROJECTS PROFILE

Title	: Flow control automation using PLC
Description	: To maintain the level of fluid and control the flow rate using PLC (GE Fanuc)
Duration	: 6-months (April 2006)
Title	: Fuzzy implemented DC-to-DC Step Down Converter
Description	: To design the controllers (PID & FUZZY) for Dc-to-Dc step down converter using MATLAB
Duration	: 6-months (April 2009)
Title	: Performance analysis of Reeling System in Pulp & Paper Industries
Description	: To improve the performance of reeling system by installing the hydraulic system and develop the logics for existing DCS (ABB AC450).
Company	: TNPL (Tamilnadu Newsprint and Papers Limited), Karur , Tamilnadu.
Duration	: 6-months (November 2008)

PROGRAM ORGANISED

<u>S.No</u>	<u>Name of the programs</u>
1.	DRDO Sponsored National Seminar on “Recent Advances in Electronics & Instrumentation for Oncological Detection” on 28 th and 29 th Nov’2012 at Sethu Institute of Technology, Kariapatti.
2.	Anna University approved FDTP on “EI2352-Process Control” on 15 th – 22 nd Dec, 2014 at Sethu Institute of Technology, Kariapatti.
3.	DCS FUNDAMENTALS & ENGINEERING WITH FILED INSTRUMENTS – Student Training Program at Sethu Institute of Technology, Kariapatti.
4.	SOFT COMPUTING TECHNIQUE USING MATLAB– Student Training Program at Sethu Institute of Technology, Kariapatti
5.	Entrepreneurship awareness camp- 3 days workshop on 02 nd – 04 th mar 2017 at Sethu Institute of Technology, Kariapatti

RESEARCH AND SEMINAR PROPOSALS

- A National Seminar entitled “RECENT ADVANCES IN ELECTRONICS & INSTRUMENTATION FOR ONCOLOGICAL DETECTION” from Defence Research and Development Organization(DRDO) , Govt of India, New Delhi ,India worth Rs. 40,000- **GRANTED AND PROGRAM CONDUCTED** on 28th and 29th Nov’2012

- Submission of proposal under the scheme Faculty Development Training Programmes on “CS2461-APPLIED SOFT COMPUTING” to CENTRE FOR FACULTY DEVELOPMENT,Anna university Chennai- **GRANTED**

- Submission of proposal under the scheme Faculty Development Training Programmes on “EI2352-Process Control” to CENTRE FOR FACULTY DEVELOPMENT, Anna university Chennai- **GRANTED AND CONDUCTED** on 15th -22nd December, 2014 at Sethu Institute of Technology, Kariapatti.

- Submission of proposal under the scheme BRNS seminars on“APPLICATION OF SOFT COMPUTING FOR OPTIMIZING NUCLEAR POWER PLANTS” to Department of Atomic Energy (DAE),BRNS.

THEORY SUBJECTS HANDLED

1. Control System
2. Advanced Control System
3. Digital Control System
4. Process Control
5. Power Plant Instrumentation
6. Biomedical Instrumentation
7. Analytical Instruments
8. Transducer Engineering
9. Instrumentation System Design
10. Circuit Theory
11. Digital Electronics
12. Electronic Devices And Circuits
13. Micro Processors And Interfacing
14. Industrial Data Networks
15. Applied Soft Computing
16. Principles Of Management
17. Medical Imaging Equipments
18. Human Assist Devices
19. Professional Ethics
20. Value Education And Human Rights

LAB HANDLED

1. Electron Devices and Circuits Laboratory
2. Transducers and Measurements Laboratory
3. Linear and Digital Integrated Circuits Laboratory
4. Automation Laboratory
5. Industrial Instrumentation Laboratory
6. Control System Laboratory
7. Process Control System Laboratory
8. Advanced Control System Laboratory
9. Instrumentation System Design Laboratory
10. Virtual instrumentation laboratory
11. Microprocessor and microcontroller laboratory
12. Digital laboratory
13. Design Project laboratory
14. Computer Control of Process laboratory

PROJECT:

- Presented a project Titled “ Robotic fire safety at fire works” in Faculty Talent Hunt 2015 on 19th August,2015 at Sethu Institute of Technology, Kariapatti.

GUIDANCE OF B.E PROJECTS

- **U.G** : 18 batches Completed (Sethu Institute of Technology, Kariapatti)

LECTURES

- Delivered an expert lecture on “Carrier guidance program” in Sri Venkatesvara Polytechnic College, Pudukottai on 12.03.14
- Delivered an expert lecture on “Neural Network Toolbox & System Identification Toolbox ” in SOFT COMPUTING TECHNIQUE USING MATLAB– Student Training Program at Sethu Institute of Technology, Kariapatti on 05.03.2015,06.03.2015
- Delivered an expert lecture on “Practical session: Flow, level, Temperature control” Anna University approved FDTP on “EI2352-Process Control” on 15th – 22nd December, 2014 at Sethu Institute of Technology, Kariapatti.
- Delivered lectures in placement training cell

ADDITIONAL RESPONSIBILITIES

- Participated in NBA, NAAC Accreditation, and NIRF work in the Department.
- Class Advisor for 2014-2018 batch students.
- Class Advisor for 2017-2021 batch students.
- Member of FDP cell, IQAC cell ,EDC cell NSS and ECHO club.
- As organizing Member in conducting Department Association activities.
- Exam cell coordinator
- Department Library in charge
- Time-Table Incharge
- ISO File handling

JOURNAL PUBLICATIONS

- Published a paper on “Constrained Model Predictive Control For Fluorocarbon Refrigerant Distillation Column” in International Journal of Advanced Research in Electrical, Electronics and Instrumentation Engineering, DOI:10.15662/IJAREEIE.2015.0411059, Vol. 4, Issue 11, November 2015.
- Published a paper on “Parameter Identification and Dynamic Matrix Control Design for a Nonlinear Pilot Distillation Column” in International Journal of ChemTech Research CODEN (USA): IJCRGG ISSN: 0974-4290 , Vol.7, No.01 , pp 382-388, 2014-2015.

PRESENTATIONS IN INTERNATIONAL AND NATIONAL CONFERENCES

- “Model identification and dynamic matrix control of ethane-ethylene distillation column” in International Conference on Electrical, Electronics and Optimization Techniques on 3rd – 5th March 2016 at DMI College of Engineering, Chennai- Under Review (Papers will be published by, IEEE Xplore)
- Presented a paper on “Comparison of Analog and Fuzzy Logic Control for Superheated Steam Temperature System” in DRDO sponsored National Conference on Future perspective in Medical Imaging -“NCFMI’11” on 26th & 27th April 2011 at Sethu Institute of Technology, Kariapatti.
- Presented a paper on “Fuzzy implemented DC-DC Step down Converter” in National Conference on Recent Trends in Electronics, Instrumentation and Automation -“RTEIA-2012” on 14th March 2012 at Erode Sengunthar Engineering College, Erode.
- Presented a paper on “An FPGA based DC motor speed control using Fuzzy PID” in International Conference on Intelligent Instrumentation, Optimization and Signal Processing (2013)-“ICIIIOC’13” on 1st & 2nd March 2013.
- Presented a paper on “Design of DC to DC Step down Converter using Fuzzy” in International conference on Emerging Trends in Communication Systems on 25th & 26th April 2013

TRAINING AND WORKSHOPS

- Having completed **certificate course** in **INDUSTRIAL AUTOMATION CONTROL** (PLC, DCS, and SCADA) organized by **MSME (Micro, small & Medium Enterprises), Guindy, Chennai.**
PLC- SIEMENS S7 200 (STEP7-Micro/WIN), OMRON (CX-programmer), DELTA (delta WPL soft)
SCADA-GE Ifix32, SIEMENS WINCC
DCS-SIEMENS PCS 7
- Having completed **certificate course** in **CALIBRATION** (Thermal, Pressure and Electro technical parameters) organized by **NSIC (National small industries corporation limited), Chennai.**
- Undergone **In-Plant Training** at Load Dispatch Center, **TNEB, Erode.**
- Undergone **In-Plant Training** at **BSNL, Erode.**
- Attended a **workshop** on “Evolutionary Computing Strategies” on April 2008 conducted by department of EEE, **Thiagarajar college of engineering, Madurai.**
- Attended a **workshop on “PID Controller”** on 22.09.12 to 23.09.12 at **Madras Institute Of Technology, Chennai**
- Attended a **two week ISTE Workshop** on “Analog Electronics” from 4th to 14th June, 2013 conducted by **IIT, Kharagpur.**
- Attended a NI labVIEW Core 1 and Core 2 course from 17th to 21st June,2013 at Engg, Sethu Institute of Technology, Kariapatti.
- Attended a “PLC Programmer” training program from 1st to 6th July,2013 at Sethu Institute of Technology, Kariapatti.
- Attended a **two days Workshop** on “Applications of softcomputing techniques using MATLAB” on 02.09.13.03.09.13 at **Kongu Engineering College, Perundurai,Erode.**
- Attended LaTeX Workshop on 09.12.13 at Sethu Institute of Technology, Kariapatti and passed LaTeX test
- Attended two days IE Workshop on “Industrial Automation using PLC,SCADA” from 25th to 26th September,2014 at Sethu Institute of Technology, Kariapatti.
- Attended two days IE Workshop on “Recent Trends in Solar Energy Technology” from 18th to 19th February, 2015 at Sethu Institute of Technology, Kariapatti.
- Attended one day Workshop on “Google Applicationj for Education” from 22nd Aug, 2015 at Sethu Institute of Technology, Kariapatti.
- Attended **two days Workshop** on “Advanced Control Engineering” from 9th and 10th, October 2015 at **National Institute of Technology, Trichy.**
- Attended one day Workshop on “Intellectual Property Rights and Innovation” from 4th Apr, 2016 at Sethu Institute of Technology, Kariapatti.
- Attended two days IISc-MSME CENTER OF EXCELLENCE, INDIAN INSTITUTE OF SCIENCE, BENGALURU INDIA. Design workshop on Internet of Things from 4th and 5th October 2017 at Sethu Institute of Technology.

SEMINARS AND FACULTY DEVELOPMENT PROGRAM

- Participated two days workshop on **Deep Learning and Project Ideas using MATLAB** at E.G.S PILLAY Engineering College on 01.03.2023 to 02.03.2023
- Participated in 3 Days nation level faculty development program on **Research Challenges In Artificial Intelligence And Robotics** at Sri Krishna Engineering college Coimbatore on 27.12.2022 to 29.12.2022
- Participated **two weeks FDP** on Circuit Theory on Dec 10 to Dec 21 at **Anna University, Madurai.**
- Attended **3 days FDP** organized by PMO-IEDP (Program Monitoring Office-Innovation & Entrepreneurship Development Programme) from 10th August 2017 to 12th August 2017 at **Thiagarajar College of Engineering, Madurai.**
- Attended one day FDP on “Effective Pedagogical Practices” from 25th November, 2016 at Sethu Institute of Technology, Kariapatti.
- Attended a National Seminar on “Intellectual Property Rights” on 25th July, 2016 at Sethu Institute of Technology, Kariapatti.
- Attended TEQUIP sponsored **one week FDP** on “School on System and Control” from 29th June -06th July, 2016 at **National Institute of Technology, Calicut.**
- Attended **one week FDP** on “System Identification and Control” from 06th -11th June, 2016 at **SASTRA University, Tanjore.**
- Attended one week FDTP on “EI2352-Process Control” from 15th -22nd December, 2014 at Sethu Institute of Technology, Kariapatti.
- Attended a **One week FDTP** on “EE2253-Control Systems” held during 17.12.13 to 23.12.13 at **Anna University, Coimbatore.**
- Attended a **3 Days FDP** on “Workshop on Modern Control Engineering using MATLAB” held during 12.05.14-14.05.14 at **Veltech, Chennai.**
- Attended a AICTE Sponsored National Seminar on “Research Methodologies and Property Rights” on 28th and 29th Nov’2013 at Sethu Institute of Technology, Kariapatti.
- Attended a Faculty Improvement Program on “Paradigms in recent research methodology” on 06.05.13, 07.05.13 at Sethu Institute of Technology, Kariapatti.
- Attended a DRDO Sponsored National Seminar on “Recent Advances in Electronics & Instrumentation for Oncological Detection” on 28th and 29th Nov’2012 at Sethu Institute of Technology, Kariapatti.
- Attended a National Seminar on “Salient Aspects of New Accreditation System (Washington Accord)” on 3rd and 4th Feb’2012 at Sethu Institute of Technology, Kariapatti.
- Attended a Faculty Induction Program on 7th - 8th & 14th – 16th July 2011 at Sethu Institute of Technology, Kariapatti.
- Attended a FDP on “Instrumentation & Automation” held on 5.5.2011 at Sethu Institute of Technology, Kariapatti.

EXTRA CURRICULAR ACTIVITIES

- Having donated blood in through regional blood transfusion center.
- Has been the class representative of ISTE in UG.

PERSONAL PROFILE

Father's Name : M. Karuppaiyan
Mother's Name : K.Gandhimathi
Date of Birth : 29-04-1982
Sex : Male
Nationality : Indian
Languages Known : English, Tamil

I, **KALANITHI K** do here by confirm that the information given above this is true to the best of my knowledge.

SIGNATURE

(KALANITHI K)