

Dr. K. RENGANATHAN



Objective To pursue a challenging career in Engineering field, along with further enhancement of knowledge and skills towards Research & Development and Administration

Designation Professor and Head, Department of Electronics and Instrumentation Engineering, Sri Sairam Engineering College, Chennai

Qualification PhD, M.Tech, B.E

Area of Specialization Industrial Fault Diagnosis and Fault Tolerant Control (Safety)

Qualification
Doctor of Philosophy
Fault diagnosis and Fault tolerant control (2008-2012)
SRM University,
Kattankulathur, Kancheepuram District-603203,
Tamilnadu, India.

Master of Technology
Power Electronics (2002-2004)
Vellore Institute of Technology, Vellore,
Tamilnadu-632014, India.
CGPA-8.33

Bachelor of Engineering
Instrumentation and Control (1997-2001)
Sathyabama Engineering College, Affiliated to University of
Madras,
Chennai, Tamilnadu-600119, India.
Percentage -73.8%

Experience **Teaching- 20 yrs, Industry/Polytechnic: NA**

**Number of Workshops/
Conferences/ FDP/Online
courses Attended/Completed** WORKSHOPS-11
CONFERENCE- 14
FDP-05
ONLINE COURSE-12

**Number of Workshops/
Conferences/ FDP
Conducted/Delivered** WORKSHOPS-05
CONFERENCE- 02
FDP-03

Publications **Journals:**
National: 02
International: 09

Conferences:
National: 01
International: 16

Research Guidance:

Guided 35 UG projects till date

Obtained Guide ship in Anna University and currently a Recognized Supervisor in Faculty of EEE Reference No and Date :
21.03.21,29.05.2013

Guiding 5 Research Scholars in Anna University, Chennai and Co-guide for 1 Research Scholar under SRM University, Chennai

Acted as DC member for 8 PhD candidates and Currently DC member for 4 PhD candidates and acted as PhD Thesis examiner for one candidate

General:

Approved to serve as ABET Program Evaluator and successfully completed the training (PEV) at ABET Headquarters USA during May 2024

- **MoEs Institution Innovation council (IIC)-Member**
- **Defence Innovation (CDIIC)-Convener**
- **IEDC (Innovation and Entrepreneurship Development Centre)- Coordinator**

Appointed as Syllabus Sub Committee member for Anna University Reg2021 for the Departments of EIE and ICE

Acted as Session Chair in Many National / International Level Conferences / Symposiums

Acted as External examiner in numerous final year PG and UG project works

Regular question paper setter/auditor in Autonomous Engineering Institutions

Senior Active member of ISA, Membership No: 33138106, South India Section and Senior Active member of IEEE, Membership No: 92712198, Madras Section

Regular Reviewer for three International Journals- International Journal of ISA Transactions, Elsevier Publications; IEEE Systems, Man and Cybernetics Journal, and SAP Journal, USA

Achievements:

Instrumental in obtaining NBA certification and recertification for EIE department based on OBE during the years 2018-2021, 2022-2025.

IEDC Coordinator of College and have received a grant of Rs. 45 Lakhs for setting up IEDC Cell in the College

Principal investigator in receiving AICTE MODROBS fund of Rs.12 lakhs for "Modernization of Advanced process control and Automation lab"

Won the HOD of the year award by INSC Engineers for the academic year 2021

Have initiated Start up titled "Sai Krishna Automation solutions" (MSME Udyam Reg No: UDYAM-TN-08-0013544) to promote startup activities in the department

PHD THESIS TITLE:

Event based modeling and estimation techniques for fault diagnosis and fault tolerant control of systems

RESEARCH INTERESTS:

Event based modeling techniques; Petri net based modeling; Fault diagnosis and Identification; Fault Tolerant Control; Safety analysis; Cyber Physical Systems

EXPERIENCE:

| S. No | Name of the Institution | Designation | Department | Period of Experience | Total Experience |
|--------------|--|---------------------|--------------------------------------|-------------------------|------------------|
| 1. | Vel's Srinivasa College of Engg and Technology | HOD In-charge | Electrical and Electronics Engg | June 2004-June 2006 | 2 |
| 2. | Sri Sairam Engineering College, West Tambaram | Associate Professor | Instrumentation and Control Engg | June 2006-July 2013 | 7 |
| 3. | Sri Sairam Engineering College, West Tambaram | Professor and Head | Electronics and Instrumentation Engg | (August 2013-till date) | 11 |
| TOTAL | | | | | 20 |

THEORY SUBJECTS HANDLED:

- Power Electronics and Drives
- Digital Signal Processing
- VLSI design
- Electrical Drives and Control
- Electrical Machines
- Control Systems
- Process Control
- Robotics and Automation
- Sensors and Transducers
- Advanced Control Systems

PhD RESEARCH SCHOLAR DETAILS:

| S. No | Name of Scholar | Title of Research | Period | Status |
|-------|------------------|--|-----------|---|
| 1. | B. Uma Maheswari | Analysis of Flue Gas using Deep Learning Techniques | 2021-2022 | Confirmation completed (In process of Synopsis) |
| 2. | N. Nithyarani | Advances in Fault diagnosis and Prognosis for Industrial Processes using Deep Learning Techniques | 2023-2024 | Confirmation completed |
| 3. | H. Kala | Analysis of possible Vulnerability due to Depression | 2024-2025 | Course work |
| 4. | A. Durgadevi | Detection and classification of brain tumor using image fusion technique and hybrid classifier | 2024-2025 | Course work |
| 5. | G Suganya | An enhanced performance analysis of automatic Skin Cancer detection system using Deep Learning Technique | 2024-2025 | Course work |
| 6. | R. Premkumar | A new configuration of Multi Level Inverter with reduced components count | 2021-2022 | Confirmation completed (In process of Synopsis) |

UG PROJECTS GUIDED:

| S. No | Title of the Project work | Period of Guidance |
|--------------|--|---------------------------|
| 1 | Voltage Sag Reduction and Power Quality Improvement using DVR | 2023-2024 |
| 2 | Modeling and Analysis of Battery Electrical Vehicle using MATLAB | 2021-2022 |
| 3 | Techniques for Smart Home Automation framework using Petrinets | 2020-2021 |
| 4 | Soil productivity and fertility using neuro fuzzy logic inference | 2019-2020 |
| 5 | Safety and hazard analysis for chemical process modeled by Petri nets | 2019-2020 |
| 6 | Rescue mechanism for borehole accidents using triangular omni directional robots | 2018-2019 |
| 7 | Multifunctional Agrirobot | 2018-2019 |
| 8 | Adaptive control of an autonomous Helicopter | 2017-2018 |
| 9 | Automated unit for wall painting using Arduino | 2017-2018 |
| 10 | Non-linearity compensation of LVDT using PID Controller | 2016-2017 |
| 11 | Modeling and analysis of process supply chain in pharmaceutical industries using hybrid Petri nets | 2016-2017 |
| 12 | Modeling ,analysis and performance evaluation of food safety and quality control monitoring using stochastic petrinets | 2015-2016 |
| 13 | Comparative study of controller behavior in non-linear CSTR | 2015-2016 |
| 14 | Design and fault tolerance analysis of quadruped robot | 2013-2014 |
| 15 | Design of Low Cost UAV hardware & Control Stability Analysis using simulation in Flight Gear | 2013-2014 |
| 16 | Analysis of various control schemes of a Binary Distillation Column | 2012-2013 |
| 17 | Petri net based fault accommodation for a Hybrid dynamic system | 2011-2012 |
| 18 | Petri net based Fault diagnosis and Identification | 2010-2011 |

FDPs ATTENDED/GUEST LECTURES DELIVERED:**FDPs ATTENDED**

| S.No | Title of the Programme | Details of the Programme | Duration and Month/Year of Event |
|-------------|--|---|---|
| 1. | ICPCS Short Term Training programme on Machine Learning and Deep Learning for Real Time Applications | Organized by Dept of ECE, NIIT Warangal, AP sponsored by DST, GOI | 10 days Nov 29, 2019 to Dec 08,2019 |

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|----|---|---|--------------------------|
| 2. | Workshop on "Process Automation using MATLAB" | Conducted by Intellectz Tech 4 all is association with Dept of EIE at SEC | 3 days July 2018 |
| 3. | ISO 9001:2015 Training | Creative Management Consultants | 1 day June 2018 |
| 4. | FDP on "Power Electronics for Renewable Energy Systems" | Conducted by Dept of EEE, Tagore Engg College | 3 days January 2018 |
| 5. | Short term course on "Control systems design" | Dept of Avionics Engg, Indian Institute of Space Technology, Thiruvananthapuram, Kerala | 5days December 2012 |
| 6. | Faculty Development programme on "Entrepreneurship" | TBI@KEC and EMDC, Kongu Engineering College, Perundurai, Erode inassociation with NSTEDB, GOI | 15 days November 2011 |
| 7. | Staff Development programme on "FPGA and its Industrial applications" | Department of Instrumentation and Control Engineering, College of Engineering, Pune | 15 days June 2010 |
| 8. | Faculty Development programme on "Process Control" | Department of Instrumentation Engg, MIT, Anna University | 15 days December 2008 |
| 9. | Staff Development Programme on "Modern Controller Design Techniques" | Dept of Instrumentation & Control Engg, Manipal Institute of Technology, Manipal, Karnataka | 15 days June 2008 |

GUEST LECTURES DELIVERED

| S.No | Title of the lecture delivered | Details of the Programme | Month/Year of Event |
|------|---|---|---------------------|
| 1. | Discrete state variable technique and digital controller design | Computer Control of Circuits and systems | May 2022 |
| 2. | Performance Evaluation and Modeling | AICTE STTP on Green IOT for Smart Environment | February 2021 |
| 3. | Computer Control of Processes | FDP on Digital Logic circuits, Computer Control of processes and Biomedical Instrumentation | December 2020 |
| 4. | Resource Funding Opportunities | FDP on Recent Innovations in Electrical, Electronics, Instrumentation, Automation and Teaching pedagogy | May 2020 |
| 5. | Basics and Applications of DVM and Oscilloscopes | FDP on Electronic Instrumentation and Control Systems | November 2019 |
| 6. | PN Junction devices and Transistors & Thyristors | FDP on Electronic devices and Circuits | May 2019 |
| 7. | MPC and GPC in the space of computer control of process | FDP on Control strategy prediction between conventional and intelligent controllers | April 2018 |

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| 8. | Multi loop and multivariable control | FDP on Computer Control of Processes | November 2017 |
| 9. | FDP on Electrical Measurements | Guest lecture Delivered at Dept of EIE, Valliammai Engg College | March 2017 |
| 10. | Anna University Sponsored 7 days FDTP on "Power Electronics" by EIE dept at SEC | Acted as coordinator of the Programme and delivered guest lectures | June 2015 |
| 11. | Introduction to two port networks | Anna University Sponsored Seven days FDTP on EE6201 Circuit Theory at Agni College of Technology, Chennai | December 2014 |
| 12. | Control systems and its Applications | Guest lecture delivered in Dept of EEE at Saveetha School of Engineering, Saveetha University, Chennai | August 2014 |
| 13. | Modeling and analysis using Petri nets | Topic delivered at FDP on Control systems sponsored by Anna University, Chennai in the Dept of EIE at KCG College of Technology, Chennai | December 2013 |
| 14. | Control Systems Engineering and its applications | Guest lecture delivered in Dept of ECE, Hindustan Institute of Technology, Padur | September 2013 |

JOURNAL PUBLICATIONS:

NATIONAL JOURNALS:

| S. No | Paper Title | Journal Details | Publication details (Vol/Edition/Year) |
|-------|--|-------------------|--|
| 1. | Modelling, Analysis and Control of Multi Capacity Process Using Hybrid Petrinets | SSEC TECH Journal | Vol. 9, 2011 |
| 2. | Modelling and Simulation of Chemical Processes using Petri nets | SSEC TECH Journal | Vol.8, 2009 |

INTERNATIONAL JOURNALS:

AUTHORED

| S. No | Paper Title | Journal Details | Publication details (Vol/Edition/Year and month of publication) |
|-------|---|--|---|
| 1. | Melanoma Skin Cancer detection using KNN and SVM classifier | Journal of Xi'an University of Architecture and Technology (UGC Care2 Journal) | Vol.14, No.1, pp-267-271, 17 th Jan 2022 |

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|----|--|--|--|
| 2. | Techniques for Smart Home Automation Framework Using Petrinets | International Journal of Critical Reviews (Scopus Indexed) | Vol.4, No.7, pp-1121-1230, 25 th March 2020 |
| 3. | Safety and hazard analysis for chemical process modeled by timed Petrinets | International Journal of Research and Analytical reviews (UGC approved) | Vol.6, No.2, pp-155-163, April-June 2019 |
| 4. | Modeling, Analysis and Performance Evaluation for Fault Diagnosis and Fault Tolerant Control in Bottle-Filling Plant modeled using Hybrid Petri Nets | International Journal of Applied Mathematical Modelling, Elsevier Publications | Vol.37, No. 1, pp. 4842-4859, April 2013 |
| 5. | Performance evaluation and model checking in systems modeled as hybrid Petri nets | International Journal of Applied Mathematical Modelling, Elsevier Publications | Vol. 36, no.8, pp. 3941-3947, August 2012 |
| 6. | Petri net based approach for achieving on-line fault diagnosis and performance evaluation of real-time industrial processes | International Journal of Computer Applications (IJCA) | no.11, pp. 5-9, August 2011 |
| 7. | An observer based approach for achieving fault diagnosis and fault tolerant control of systems modeled as hybrid Petri nets | International Journal of ISA Transactions, Elsevier Publications | Vol. 50, no. 3, pp. 442-452, July 2011 |
| 8. | Observer Based On-Line Fault Diagnosis of Continuous Systems Modeled as Petri Nets | International Journal of ISA Transactions, Elsevier Publications | Vol. 49, no. 4, pp. 587-595, October 2010 |

CO AUTHORED

| S. No | Paper Title | Journal Details | Publication details (Vol/Edition/Year and month of publication) |
|-------|---|--|---|
| 1. | Study of Fault Detection for Vision Based Robot Using Petri Net in Dynamic Obstacle Avoidance | International Journal of Research and Technology (IJERT) | Vol.1, no.8, pp.1-5, October 2012 |

CONFERENCE PROCEEDINGS:

| S. No | Title of the paper | Conference Details | Month/Year of publication |
|-------|--|--|---------------------------|
| 1 | Self Charging In E-Vehicle Using Two Batteries | 2024 International Conference on Communication, Computing and Internet of Things, IC3IoT 2024 (Scopus Indexed) | April 2024 |

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|----|---|---|------------|
| 2 | A Systematic Approach on Waste Water Treatment Using Predictive Analysis | 2023 Intelligent Computing and Control for Engineering and Business Systems, ICCEBS 2023 Sri Sairam Engineering College (Scopus Indexed) | Dec 2023 |
| 3 | Development of Interactive Boolean Algebra Lesson Using Unreal Engine 5 | 2023 Intelligent Computing and Control for Engineering and Business Systems, ICCEBS 2023 Sri Sairam Engineering College (Scopus Indexed) | Dec 2023 |
| 4 | Development of Smart Energy Meter Based on IoT | 2023 Intelligent Computing and Control for Engineering and Business Systems, ICCEBS 2023 Sri Sairam Engineering College (Scopus Indexed) | Dec 2023 |
| 5 | Design of an Efficient LED Driver using Non Ideal Boost Converter for Lighting Applications | 2022 IEEE International Conference on Future Trends in Smart Communities (ICFTSC) December 1-2, 2022, Borneo Conventional Centre Kuching Sarawak, Malaysia (Scopus Indexed) | Dec 2022 |
| 6 | Review on Jaundice Detection in Neonates Using Image Processing | International Conference on Communication, Computing and Internet of Things, IC3IoT 2022 - Proceedings, 2022 (Scopus Indexed) | March 2022 |
| 7 | Modeling and Evaluation of Cyber physical systems using Petrinets | 4th IEEE International Conference on Computing and Communication Technologies, Sri Sairam Engineering College (Scopus Indexed) | Feb 2022 |
| 8 | Techniques for smart home automation framework using Petrinets | International e-Conference on Green Technologies for Power generation, Communication and Health Care, St. Peter's Institute of Higher Education and Research, Chennai | June 2020 |
| 9 | Safety and hazard analysis for chemical process modeled by Timed petri nets | National Conference on Signal processing, Communication and networking, NCSPCN-2019, Sri Venkateshwara College of Engineering, Chennai | March 2019 |
| 10 | Soil productivity and fertility using neuro fuzzy logic inference | IEEE conference on Information, Embedded and Communication systems, ICIECS-2019, St josephs College of Engg, Chennai (Scopus Indexed) | March 2019 |

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|----|---|---|----------------|
| 11 | ICT as a potential tool in Outcome based Accreditation | 4 th WOSA International Conference, NBA, Delhi | September 2018 |
| 12 | Estimation based fault diagnosis and identification in sequential industrial batch processes modeled as Hybrid Petrinets | IEEE Second International Conference on Computing and Communication Technologies (Scopus Indexed) | February 2017 |
| 13 | Performance and stability analysis of a second order liquid level interacting system | International Conference on Electrical, Electronics and Computer science (ICEECS2014) held at Chennai | March 2014 |
| 14 | Petri net based approach for achieving on-line fault diagnosis and performance evaluation of real time industrial processes | International Conference in VLSI, Communication and Instrumentation (ICVCI 2011) at Saintgits College of Engg, Kottayam, Kerala | April 2011 |
| 15 | Observer based Approach for Determining Place Markings of Multi Capacity Systems Modeled as Hybrid Petri Nets | International Conference in Trends in Industrial Measurements and Automation (TIMA 2011) at CEERI centre, CSIR Complex, Taramani, Chennai | January 2011 |
| 16 | Mathematical Approach for Modelling, Analysis and Control of Multi Capacity Process Using Hybrid Petri nets | International Conference on System Dynamics and Control (ICSDC-2010) by Dept of ICE at Manipal Institute of Technology, Manipal | August 2010 |
| 17 | Mathematical Model for Fault Diagnosis and Control of Batch Process using Timed Petri nets | International Conference on Mathematical and Computational models (ICMCM-2009) by Dept of MCA at PSG College of technology, Coimbatore | December 2009 |
| 18 | Modelling and Simulation of Continuous and Batch Processes using Petri nets | International Conference on Electrical Energy systems & Power Electronics in Emerging economics (ICEESPEEE-2009) by Dept of EEE at SRM University, Kattankulathur | April 2009 |

BOOKS/CHAPTERS PUBLISHED

| S. No | Title of the Book/Chapter | Publication Details | Month/Year of publication |
|-------|--|--|---------------------------|
| 1 | Current trends in artificial intelligence and machine learning: a comprehensive overview | Cutting edge technologies in health and allied science, ESN Publications | January 2023 |
| 2 | Electronic Circuit Design | Scientific International Publishing House | March 2024 |

ONLINE COURSES UNDERGONE

| S. NO | Name of the Course | Course Platform | Duration of Course | Date/Period of Completion |
|-------|--|---------------------|--------------------|---|
| 1. | Entrepreneurship-I- Laying the Foundation | Coursera | 14 Hours | Feb 6, 2020 |
| 2. | Creativity and Entrepreneurship | Coursera | 8 Hours | March 5,2020 |
| 3. | Complete Electric Circuit Course for Electrical Engineering | Udemy | 10.5 Hours | March 31, 2020 |
| 4. | Complete Electrical Machines for Electrical Engineering | Udemy | 14.5 Hours | March 31, 2020 |
| 5. | Step into Robotic Process Automation | Guvi | 15 Hours | June 1, 2020 |
| 4. | IIC Online sessions conducted by IIC MHRD Innovation Cell | IIC | 22 days | July 7, 2020 |
| 5. | ATAL FDP on Cyber- Physical Systems | AICTE and ATAL | 5 days | 07-11-2020 to 11-11- 2020 |
| 6. | ATAL FDP on Artificial Intelligence | AICTE and ATAL | 5 days | 07-12-2020 to 11-12- 2020 |
| 7. | ATAL FDP on Capacity Building | AICTE and ATAL | 5 days | 15-02-2021 to 19-02- 2021 |
| 8. | NPTEL Online course on Road map for Patent creation | NPTEL and Swayam | 8 weeks | Jan –March 2021 (obtained a score of 80% and elite + silver medal) |
| 9. | NPTEL Patent Law for Engineers and Scientists | NPTEL and Swayam | 12 weeks | Jan-Apr-2022 56% |
| 10 | NPTEL Managing Intellectual Property in Universities | NPTEL and Swayam | 4 weeks | July-Aug 2022 57% |
| 11 | NPTEL Patent Drafting for Beginners | NPTEL and Swayam | 4 weeks | July-Aug 2022, July- Aug 2023 45%, 64% |
| 12 | NPTEL Introduction On Intellectual Property To Engineers And Technologists | NPTEL and Swayam | 8 weeks | Jan-Apr 2023 63% |
| 13 | NPTEL Innovation by design | NPTEL and Swayam | 8 weeks | July-Aug 2023 53% |

PATENT DETAILS

| S. No | Title | Type | Application No | Patent Filing date | Status |
|-------|--|-------------|----------------|--------------------|---|
| 1. | Automated Safety system for Driver and Pillion Rider in Two Wheeler | Application | 202041043044 | 09.10.2020 | Application in Hearing |
| 2. | Computation and Governance of Driver's Performance Using Machine Learning | Application | 202041056851 | 08.01.2021 | Reply Filed. Application in amended examination |
| 4. | Efficient charging strategies: grid-integrated pv-solar EV charging modes | Application | 202441039777 | 31.05.2024 | Awaiting Request for Examination |
| 5. | Machine learning analysis of teacher social support effects on student emotions | Application | 20241104209 | 07.06.2024 | Awaiting Request for Examination |
| 6. | The role of machine learning and biotechnology in autonomous harvesting and data driven management for advancements in agriculture | Application | 202441041428 | 07.06.2024 | Awaiting Request for Examination |
| 7. | Machine learning and IoT for predicting electric power and optimising features based on soil moisture in agriculture | Application | 202441048130 | 05.07.2024 | Awaiting Request for Examination |
| 8. | Predicting academic engagement: machine learning analysis of teacher social support effects on student emotions | Application | 202411042090 | 07.06.2024 | Awaiting Request for Examination |
| 9. | The role of machine learning and biotechnology in autonomous harvesting and data driven management for advancements in agriculture | Application | 202441041428 | 07.06.2024 | Awaiting Request for Examination |
| 10. | Bicycle Storage Rack using Solar Light as a Power Source | Design | 350756-001 | 05.10.2021 | Granted 04-01-2023 |

PROJECT WORKS UNDERGONE:

- Qualification** : **Doctor of Philosophy**
- Project title** : **Research studies for On-line Fault Diagnosis of Real Time Industrial processes modeled as Petri nets**
- Duration** : 3 months
- Company** : Chennai Petroleum Corporation Limited (unit of IOCL)
Manali, Chennai, Tamilnadu, India.
- Project Description** : The work involved in the real-time data collection and for carrying research studies on real-time Industrial processes. The plant taken for study was SRU plant of CPCL, limited.
- Qualification** : **Master of Technology**
- Project title** : **IGBT based Digital Control Unit for Brushless DC Generator of Main Battle tank (ARJUN)**
- Duration** : 12 months
- Company** : Combat Vehicles Research and Development
Establishment (CVRDE), Avadi, Chennai, Tamilnadu, India.
- Project Description** : The project involved in the fabrication and development of a Hardware and assembly program using 8051 Microcontroller to control the output voltage and provide necessary protection for over voltage and over current of Brushless DC Generator present in the Main Battle tank- Arjun. This was an indigenisation project completed successfully in the organisation for the imported product (Control unit) present along with the generator.
- Qualification** : **Bachelor of Engineering**
- Project title** : **Automatic Controller for Liquid Infusion With Computer Interface**
- Duration** : 6 months
- Company** : Sundaram Medical foundation, Chennai, Tamilnadu, India
- Project Description** : The project involved in the development of hardware model and a software program written in C language for controlling the amount of fluid (saline) infused into the body of a person and continuous monitoring with the help of a Computer. This was an innovative biomedical project submitted with fulfillment for completion of course work.

SOFTWARE SKILLS:

Operating Systems : MS Dos, Windows XP, Windows 10 and Windows 9x
Languages : C
Applications : Matlab, PSpice, VI LabVIEW, PLC and SCADA
Others : MS-Office 2024, MS-Excel 2024

PERSONAL TRAITS:

- ✓ Hard working and team minded
- ✓ Willingness to learn
- ✓ Possessing good communication skills

PERSONAL DETAILS:

Age : 45 years (27-07-1980)
Marital status : Married, 2 sons
Languages Known : English, Tamil, Hindi and Telugu
Passport Number : W8487569, Chennai, Tamilnadu, India

REFERENCES:

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DECLARATION

I hereby declare that the above information's furnished by me are true to the best of my knowledge.

Yours faithfully,



(Dr. K. RENGANATHAN)