

## CURRICULUM VITAE

### Engr. Dr. SHAMIM AKHTAR

✉ Permanent Address: 16/A, Salman Farsi Society Malir Halt  
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### OBJECTIVE

*I want to secure a teaching position in a professionally run organization. I will apply my knowledge, experience and concepts of over 20 years in the field of computer, electronics and electrical engineering courses. I will gain more expertise in my area of knowledge.*

### PERSONAL

Name	: <i>Shamim Akhtar</i>
Father's Name	: <i>Akhtar Hussain</i>
Passport Number	: JA1347032
Pakistan Engineering Council (PEC)	: PEC Registration Number. ELECT / 22275
The Institute of Electrical and Electronics Engineers	: IEEE Registration Number. 93697909
Place of Birth	: Pakistan
Date of Birth	: 01-04-1974
National Identification Card # (Pakistan)	: 42201-0586703-3
Marital status	: Married
Sex	: Male

### EDUCATIONAL QUALIFICATION

#### ACADEMIC

- 📖 I completed my Dr. of Philosophy (Ph.D.) in Fall 2023 from University of Malaysia Pahang (UMP), Malaysia.
- 📖 I Completed my Master of Science (M.S.) Telecommunication in 2012 from IQRA University Karachi Pakistan.
- 📖 Completed my Master of Engineering (M.E.) Electrical in 2008 from N.E.D University of Engineering & Technology Karachi Pakistan.
- 📖 Completed my Bachelor of Engineering (B.E.) Electrical in 1996 from N.E.D University of Engineering & Technology Karachi Pakistan

📖 Completed six months Diploma of Networking from S.D.C (Skill Development Council), consisting of the following courses:

- 📁 Course of Hardware
- 📁 Data Communications
- 📁 Novell NetWare V3.12
- 📁 Unix
- 📁 Windows Nt. 4.0 Server.

## TEACHING EXPERIENCES

- ✍ I am a **Faculty of Engineering and Science Technology Department in IQRA University Karachi Pakistan**, as an Assistant Professor. I taught the following subjects,
  - ✍ Applied Physics
  - ✍ Electrical Measurement and Instrumentation
  - ✍ Basic Electronics
  - ✍ Electromagnetic Field theory
  - ✍ Basic Electrical Engineering
  - ✍ Computer Programming
  - ✍ Software Engineering
  - ✍ Probability and Statistics
  - ✍ Object Oriented Programming
  - ✍ Electronics II
  - ✍ Information Theory and Coding
- ✍ Taught in NED University of Engineering & Technology Karachi, as a visiting faculty member in the Electrical, Electronic, and Telecommunication Departments. The courses are
  - ✍ Electromagnetic Field.
  - ✍ Programming with C Language.
- ✍ Taught in Institute of Business Management (IoBM) as visiting faculty for MS program
  - ✍ Data Mining
  - ✍ Advance Numerical Method
  - ✍ Human Computer Interface
- ✍ Taught in PAF KIET as a visiting faculty the courses are
  - ✍ Opto-Electronics
  - ✍ Instrumentation and control
  - ✍ Electrical Machines
- ✍ Taught in Newport Institute of communications and Economics Karachi
  - ✍ Software Engineering
  - ✍ Data Structure
  - ✍ Object Oriented Programming
- ✍ Taught in Preston University (Engineering Campus Malir) as a visiting faculty member. The courses are
  - ✍ Digital Circuit Logic (Theory & Practical) for B-Tech program.
  - ✍ Basic Electronics (Theory & Practical) for B.E program.
  - ✍ Electronics Circuits (Theory & Practical) for B.E program.
  - ✍ Applied Physics for B.S program.
- ✍ Taught in PIMSAT as a visiting faculty member.
  - ✍ Applied Physics for B.S program.
  - ✍ Fundamentals of Communications for B-Tech program.
  - ✍ Java Core Programming.

✍ Taught in Dada Bhoje Institute of Higher Education, as a visiting faculty member for B-Tech program.

- ✍ Basic Electronics.
- ✍ Digital Electronics.
- ✍ Linear Circuits.

✍ Taught in New Port University (Tariq road branch) as a visiting faculty member.

- ✍ Applied Physics
- ✍ Computer Architecture for BCS program.
- ✍ Basic Electronics for BCS

## RESEARCH PUBLICATIONS

- 📖 On the Design of Electromagnetically Coupled Microstrip Antenna (2014) ASIAN JOURNAL OF ENGINEERING, SCIENCES & TECHNOLOGY, VOL. 4, ISSUE 1
- 📖 Smart Grid System (2016) SAI Computing Conference 2016 July 13-15, 2016 | London, UK
- 📖 A Novel Two-Dimensional Adaptive Filtering Algorithm for Image De-Noiseing via Fractional Gradient (2017) International Journal of Software Engineering and Its Applications, Vol. 11, No. 3 (2017), pp. 21-30
- 📖 Real Time Gait Feature Based Human Identification & Classification Using Artificial Neural Network and Project Management Approach of Its Implementation (2017) International Journal of Engineering & Technology, 5 (x) (2017) xxx-xxx
- 📖 Smart Monitoring and Controlling of Frequency Deviation by Using MATLAB GUI and ARDUINO DAQ Card (2018) Indonesian Journal of Electrical Engineering and Computer Science Vol.11, No.1, July 2018, pp. 224~232 ISSN: 2502-4752, DOI: 10.11591/ijeecs.v11.i1.pp224-232
- 📖 Gait Feature Based on Human Identification & Classification by Using Artificial Neural Network and Project Management Approaches for Its Implementation, W Tariq, ML Othman, S Akhtar, F Tariq, International Journal of Engineering & Technology 8 (1.7), 133-137 (2019)
- 📖 A Critical Study on the Internet of Medical Things for Secure WBAN, Book Chapter (2020), <https://www.igi-global.com/submission/confirm-personal-information/?projectid=ff1323a2-ca54-4e4c-917f-156b83e20fc8&ct=3>
- 📖 A Novel Deep Learning Architecture for Data-Driven Energy Efficiency Management (D2EEM) - Systematic Survey, Shamim Akhtar; Muhamad Zahim bin Sujod; Syed Sajjad Hussain Rizvi. (2021)
- 📖 A Hybrid Soft Computing Framework for Electrical Energy Optimization. Shamim Akhtar; Muhamad Zahim Bin Sujod; Syed Sajjad Hussain Rizvi. (2021)
- 📖 A Comprehensive Comparative Evaluation Of Machine Learning Algorithms On Facebook Comment Dataset, 1Iffraah Rehman, 2Muhammad Umair, 3Shamim Akhtar, 4Waqar Khan, 5Haider Abbas, ISSN (P): 2412-0448, ISSN (E): 1998-4154 19 (2 July-December 2021), 11
- 📖 Towards Secure Implementations of SDN Based Firewall, R Iqbal, R Hussain, S Arif, AA Siddiqui, S Akhtar, Journal of Independent Studies and Research Computing 20 (2), 40-47. (2022).
- 📖 An Intelligent Data-Driven Approach for Electrical Energy Load Management Using Machine Learning Algorithms, S Akhtar, MZB Sujod, SSH Rizvi, Energies 15 (15), 5742. (2022).

📖 "A Novel Optimized Variant of Machine Learning Algorithm for Electrical Energy Efficiency Management" submitted to JISR-C for publication. Volume 22 Issue year 2024.

## UNITED KINGDOM DESIGN PATENT

UK Design Grant Patent Filled Successfully Title: -  
"X Ray Diffraction Apparatus for Nanoparticles Tracking Analysis in Nanomedicine"  
Application Number:- 6346268

## MY RESEARCH PUBLICATIONS LINKS

### 📄 GOOGLE SCHOLOR

<https://scholar.google.com/citations?user=YnkNF10AAAAJ&hl=en>

### 📄 RESEARCHGATE

[https://www.researchgate.net/profile/Shamim\\_Akhtar22/stats/report/weekly/2020-05-03](https://www.researchgate.net/profile/Shamim_Akhtar22/stats/report/weekly/2020-05-03)

## REVIEWER

### 📄 Thesis Reviewer

Manuscript Review JISRC 182 and 189 - SZABIST University

## FIELD EXPERIENCES

Sept 1997-Aug 1998	worked in <b>Data Communications &amp; Controls (Pvt.) Ltd.</b> I have worked there as an Electronic System Engineer. The major responsibilities were Hardware and Software installation of <b>Data Switch Control System, PCB Designing of MUX &amp; WAN System</b> and worked as system support Engineer on other main clients of our company.
Sept 1998-Jan 1999	worked in <b>AWACOM Systems International</b> I worked there as a marketing executive. I have designed some static web sites. In addition, I was involved in analysis of sales reports, market research and segmentation. Preparation of operating plans, promotional as well as PR programs. To develop technical and sales skills of the team for the betterment of company.
Feb 1999-July 1999	worked in <b>SofLite systems international.</b> I have worked as an. I.T consultant. The major responsibilities are web site designing & hosting. I am also involved in Oracle/Developer 2000 programming (as a trainee programmer).

## MANGEMENT EXPERTISE

I have the capabilities to design schedules, obtain targets, evaluations of teachers, an in-charge of arranging guest speaker sessions. Implement and follow quality assurance policies. Preparing daily, weekly and monthly status & progress reports.