Dr. Engr. Muhammad Mohsin Khan

Present Address	Permanent Address

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Objective: To contribute in the growth and vision of a dynamic organization while utilizing my potential for achieving excellence, enhancing my technical and managerial skills.

Experience

(A) International Islamic University, Islamabad (IIUI) Oct 07 – to Date

Department of Electronic Engineering is the 1st department of the Faculty of Engineering and Technology at International Islamic University Islamabad (IIUI). I am the pioneer member of our departmental faculty, joined IIU in 2007. I have worked at IIUI in various capacities, details of which are given below:

1. Lecturer (Feb 2016-to Date): After the completion of my MS degree I have taught the following courses at the Undergraduate level:

- Instrumentation & measurement
- Basic Electronic Engineering
- Linear Algebra
- Communication System
- Calculus I
- Fundamentals of Programing
- Embed systems

2.   Lab Engineer / Junior Lecturer (October 2007-Feb 2016): I have start my career working as a Lab Engineer / Junior Lecturer at the Department of Electronic Engineering, International Islamic University Islamabad, Pakistan.

3.   Lab Incharge: I have developed various labs in the Department of Electronic Engineering at International Islamic University, Islamabad, especially that include Control System Lab, Instrumentation & Measurement Lab and Communication system Lab. Maintaining the laboratory Inventory and proper management of lab's staff is also part of my duty in IIU Islamabad

4. **Laboratories Taught**: My job also include to instruct labs. I conducted the following labs at the Undergraduate:

- Instrumentation & Measurement Lab
- Basic Electrical Engineering Lab
- Digital Signal Processing Lab
- Communication system Lab I
- Communication System Lab II
- Basic Electronics Lab
- Digital Logic Design Lab
- Control system Lab
- Signals & Systems Lab
- FPGA Lab and
- Computer Networks Lab

5. **Program Coordinator:** I have been working as Program Coordinator at Department of Electronic Engineering in year 2007- 2009

6. **Student Activity**: In-charge student activities at the Faculty of Engineering & Technology in year 2010 – 11

7. **PGSRET Workshop:** Member of the workshop organizing committee of Power Generation Systems and Renewable Energy Technologies at International Islamic University Islamabad in year November 2010.

8. **Annual Engineering Open house:** Member of the organizing committee of annual engineering open house of the University for Last five years.

(B) **Internship:**

1). 03 months of internship on networks & systems in Hazara Telecom Abbottabad.

2). Internship of 03 months at NRTC (National Radio Telecommunication Corporation) Haripur Worked on following projects Digital Switching in PABX, Production/Alignment and Testing of VHF Frequency Hopping Radio Set, Research and Development Department.

Education

2018	**PhD EE** Signal & Image Processing International Islamic University, Islamabad, Pakistan. (CGPA 3.4/4.00)
2011	**MS Electronic Engineering** Major in Signal and Communications International Islamic University, Islamabad, Pakistan. (CGPA 3.15/4.00)
2007	**BS Computer Engineering** Comsats Institute of Information Technology Abbottabad, Pakistan. (74%)
2003	**Higher Secondary School Certificate** Pre-Engineering Govt. Collage Mandian Abbottabad, Pakistan.

PhD Thesis

Efficient Computer Diagnostic System for Early Detection of Cancer

Areas of Specialization

- Medical Image Processing.
- Signal Processing.
- Digital Logic Design.

Training / Work Shops

- Master Trainer Faculty Professional Development Program
  8 Jan – 28 Feb 2018, HEC Islamabad Pakistan
- Outcome based Education Pakistan Engineering Council
  3-4th December 2017

Research Articles

Tittle	Journal	Year	Status	Impact Factor	ISSN No
Three Class Mammogram Classification Based On Descriptive CNN Features.	BioMed research international	2017	Published	2.15	2314-6141
Classification Of Mammograms for Breast Cancer Detection Based on Curvelet Transform and Multi-Layer Perceptron.	Biomedical Research	2017	Published	.219	0970-938X
Trimmed Mean Autoregressive Model For Reduction Of Poisson Noise In Scintigraphic Images	*IIUM ENGINEERING JOURNAL*	2018	Published	ISI Index	1511-788X
Beam Pattern Synthesis For An FDA Radar With Hamming Window-Based Nonuniform Frequency Offset.	IEEE Letters	2017	Published	2.53	1536-1225

Conference Articles

- Novel mammograms classification for breast cancer detection based on multi-layer perceptron
  IUH M. Mohsin Khan, Q. Zhang, S. Butt
  Proceedings of the 4th ICAC, Birmingham, UK, 2016.

- DWT and Descriptive Features based Mammogram Classification for Breast Cancer
  Detection
  M. Mohsin Khan, Rizwan Sadiq, Ihsan ul Haq
  Proceedings of the (ICAIE), FIRAT Uni Turkey, 2017.

Professional Skills

- MATLAB
- C++
- Win pro ladder (PLC)
- Auto Cad 2000
- Pic Microcontroller Programming

Professional Affiliations

- HEC Certified Master Trainer.
- Member as a "Professional Engineer" (Comp / 4436) of Pakistan Engineering Council.
- CISCO Certified Network Associate

References

Dr. Ijaz Mansoor Qureshi
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