

Kamran Abid

6th August 1977

Married with 02 Kids

Pakistani

PERMANENT ADDRESS:

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Lahore 54000, Pakistan

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PROFESSIONAL EXPERIENCE

[13 years extensive hands on experience]

I obtained my Master's degree in computer science in 2000 and joined the Institute of Leadership and Management, Lahore, Pakistan. Later I joined the University of the Punjab in 2002 as Director IT, where I worked on automation and optical communication projects. I have been teaching to graduate and post-graduate classes at the University of the Punjab and University of Management & Technology. I did my PhD from the Department of Electronics & Electrical Engineering, University of Glasgow, UK, in 2011. My research interests include, semiconductor device fabrication technologies, organic & semiconductor devices, radiation detectors, light emitting diodes, solar cells, information retrieval and programming languages.

Assistant Professor:

**College of Engineering &
Emerging Technologies.
University of the Punjab**

12/2011 – todate

□ College of Engineering & Emerging Technologies offers variety of courses. This includes bachelors of Electrical Engineering, material engineering, polymer engineering & coal technology. I am serving as Assistant Professor in department of Electrical Engineering.

Major Responsibilities

- Teaching B.Sc Classes
 - Semiconductor Devices
 - Engineering of Microelectronic Devices
 - Fabrication Process Engineering
 - Computer Networks
 - Optical Fiber Communication
 - Optoelectronics
- Research Work
- Departmental Administration

Deputy Registrar (Networks):

IT Centre

06/2004 – 11/2011

University of the Punjab

□ University of the Punjab (www.pu.edu.pk) is the oldest University of Pakistan Established in 1882. Information Technology Centre is a Services Departments. It is having several sections, like NOC, OF Section, ISP Section, Database Section, Web Section, Graphics Section Hardware Repair and Maintenance Section & Support Section etc.

Major Responsibilities

- To manage the OF Network, LAN, WAN, ISP, Wireless connectivity among both the campuses and related work. Network volume 3500 Nodes.
- To manage the Software & Web development activity. IT Centre has In-House Software development team [data centre].
- Purchase / Technical consultancy of Hardware / Technological Equipment.
- Management of NOC, along with linux/unix based servers, Cisco routers and manageable switches.
- Working with HEC on CMS and PUCNEP.
- Troubleshooting and performance tracking of windows and linux based servers.
- Management of professional team of IT Centre. (the then around 30 members)

OTHER PROJECTS:

- Campus Management Solution for Phase-1 activity with HEC.

- Expansion of Optical Fiber University network. Completed in May 2005. 28 KM OF Network.

Director IT: [Additional Charge]
04/2004 – 09/2007
Charge)

Major Responsibilities as above.

IT Centre
University of the Punjab (Double

Network Administrator / In-charge :
02/2002 – 04/2004

Major Responsibilities almost as above.

IT Centre:
University of the Punjab

Database Administrator :
09/2001 – 02/2002

Major responsibilities.

- Database Server Administration. Oracle 9i, SQL Server 2000.
- Conducting Workshops on Distributed Database Systems
- Additional responsibility is to look after the Optical Fiber Network of the University.

PUCIT
University of the Punjab

Head S/W & Student Support :
02/2000 – 09/2001

- Institute of Leadership & Management now University of Management & Technology (www.umat.edu.pk) is one of the private sector University in Pakistan. Information Processing Centre is a Technology Resources Centre for students.

Major responsibilities.

- Management of Software support team for student support in normal working and in Final Projects.
- Management / configuration / maintenance of database, IIS, Proxy, Windows, Print servers with more than 1500 users.

Information Processing Centre
ILM now UMT www.umt.edu.pk

Assistant DBA:
09/1999 – 02/2000

- Futuresight is a multidimensional company working in the areas of Engineering solutions & telecommunications services extensively.

Major responsibilities.

- I worked in Lahore, Defense office [head office] for evening shift to manage the database of client projects and a small computer network of 15 nodes.

Futuresight Engineers & Contractors

Software Engineer:
02/1999 – 09/1999

- Institute of Leadership & Management now University of Management & Technology (www.umt.edu.pk) is one of the private sector University in Pakistan. MIS is a Technology Resources Centre for Faculty and Administration, basically an in house software development and Network Services section.

Major responsibilities.

- I worked to develop two different project namely LIMS and ARS.
 - Library Information & Management System as Team Member
 - Accounts Reconciliation System as Team Leader

MIS Department, ILM, Lahore
 now www.umt.edu.pk

Trainee Software Engineer:
02/1999 – 09/1999

- IWAYS a dynamic software house emerged out of a unique idea. IWAYS 's philosophy combines leading educational Institute and Industry Expertise by consolidating resources. www.iways.net .

IWays (Pvt) Limited
www.iways.net

Major responsibilities.

- I worked in Lahore Branch Office, on the modules related to project for Karachi Port Trust – iPOS Enterprise Application Integration. [on part time flexible hours basis from 02/1999 to 09/1999 as part of course work]

Teaching Experience: (Visiting)

(Visiting Faculty)

- | | |
|--|---|
| • Institute of Statistics | MIS |
| • College of Earth & Environmental Science | Information Technology & Communication. |
| • Post Graduate Centre for Earth Sciences | DBMS |
| • Department of Women Studies | Software Applications |
| • Punjab University College of IT | DBMS, DDBMS |

1.University of the Punjab

"When I taught it was ILM, now it is a private sector chartered university named UMT."

2.University of Management & Technology

(Visiting Faculty) Major Subjects taught in School of Science & Technology UMT are :-

- System Analysis & Design
- Databases Management Systems
- Software Application
- Introduction to Computer Science.

EDUCATION

PhD	09/2011	University of Glasgow, Glasgow, Scotland, UK
MS (TQM)	12/2004	University of the Punjab, Lahore, Pakistan
M.Sc. (CS)	12/1999	Hamdard University Karachi, Pakistan

PROFESSIONAL SKILLS

Languages: Java, JSP, ASP.NET, C/C++, C#, UML

Tools: Photo-lithography, E-beam-lithography, Fabrication techniques, Tanner Tools, Erwin, Rational Rose

Platforms: Linux/Unix, Windows

Databases: MS SQL Server, Oracle, MySQL, MS Access, PL/SQL

AREAS OF INTEREST

Device Fabrication, Photo Lithography, e-beam lithography, Networks & Communication, Optical Communication, Semiconductor Devices, Data Warehouse, Software Quality Assurance & Educational Administration.

PUBLICATIONS

2010

1. F., Rahman, Abid, K., Schmidt, C., Pfaff, G. and Koenig, *Interference pigment coated solar cells for use in high radiant flux environments*. Jordan Journal of Mechanical and Industrial Engineering. **4**(1) (2010). page 129 – 134. ISSN 1995-6665.

(IF. 1.0)

2011

2. Abid, K., and F. Rahman, *Gated Lateral p-i-n Junction Device for Light Sensing*. *Photonics Technology Letters*, IEEE. **23**(13) (2011): p. 911-913. **(IF. 1.98)**
3. Abid, K., and F. Rahman, *High spectral responsivity gated silicon photodiodes*. UK Semiconductors 2011, University of Sheffield, UK. p. 117.
4. Abid, K., A.Z. Khokhar, and F. Rahman, *High responsivity silicon MOS phototransistors*. *Sensors and Actuators A: Physical*, **172**(2) (2011) P. 434-439 **(IF. 1.93)**
5. Chee Heng Teo, Nireeksha S. Karode, Abid, K., F. Rahman, *Interfacial behaviour of polyaniline as an organic electronic material*. *Journal of physics and chemistry of solids*. **72** (2011) page 886–890. **(IF. 1.381)**
6. Abid, K., Xingshang Wang, A. Z. Khokhar, S. Watson, S. Al-Hasani and F., Rahman, *Electrically tuneable spectral responsivity in gated silicon photodiodes*. *Applied Physics Letters*. **99**, 231104 (2011) **(IF. 3.845)**
7. Abid, Kamran,, *Gated Lateral Silicon p-i-n Junction Photodiodes*, PhD Thesis, (2011) University of Glasgow **(Book)**
8. Muhammad Shoaib Farooq, Adnan Abid, Sher Afzal Khan, Muhammad Azhar Naeem, Amjad Farooq, Kamran Abid, A Qualitative Framework for Introducing Programming Language at High School, (2012) *Journal of Quality and Technology Management*.. **{Accepted for Publication}**

2012

9. Abid, K., and F., Rahman, *High Responsivity Gated Silicon p-i-n Photodiode with Enhanced Blue and Ultraviolet Response*. **Submitted to Chinese Physics Letter. {Under 2nd Review Process}** **(IF. 1.077)**
10. Abid, K. and F., Rahman, *Optical polarization detection by a lateral p-i-n photodiode with integrated metal grating*. **Submitted to Journal of Optics. {Under 2nd Review Process}** **(IF. 1.765)**
11. Hanif Saqi, et al, *The investigation of invisible oscillations in the photodetachment cross section of di-atomic negative ion near a surface*. **Submitted to Chinese Physics Letters {Under Review}** **(IF. 1.077)**
12. Abid, K. and F., Rahman, *Gate-bias-induced tuneable spectral response of silicon p-i-n photodiode with enhanced UV sensitivity*. P 71 (2012) UK Semiconductors 2012.
13. Abid, K. M. A. Naeem, F., Rahman, *Silicon Based Self Tuneable Micro-spectrometer: A Possibility*. International Conference and Workshop on Nano Science & Technology, Quaid-i-Azam University, Islamabad. 1-5 October 2012.

MAJOR PROJECTS:

Fabrication & Characterization of Dual Organic FET's

The project is ongoing project at Department of Electrical Engineering, in collaboration with Centre for Solid State Physics.

MERCK GmbH Germany

This project was related to the assessment of the effectiveness of Solarflair coatings for reducing the efficiency degradation of silicon solar cells. The project was carried out at University of Glasgow in collaboration with MERCK GmbH, Germany.

Gated Silicon p-i-n Junction Photodiode

This project was part of Optoelectronics Group at University of Glasgow. I completed this project as partial fulfillment to satisfy the requirements of my PhD.

Campus Management Solution (CMS):

A project of HEC to computerize public sector Universities in Pakistan. I was focal person and nominee of the University for CMS. PU was placed in first phase by HEC, I moved for my PhD studies and could not further work on it. I am quite familiar with Software, its development phases, maintenance and backup related issues of databases.

Pakistan Educational and Research Network (PERN) Project:

PERN Project was materialized in PU, with the help of IT Centre in the time when I was looking after the centre as Director. I was focal person for PERN related issues with HEC.

Punjab University Computerization & Network Enhancement Program

A project to incorporate extension of Optical Fiber Network in University of the Punjab to provide all departments (Academic / Administrative) with all the network facilities.

Student Information & Management System

A project to keep track of student activities related to academics, implemented in different Department of PU.

Multilingual Library Information & Management System

A project to cater to the needs of Multilingual Library.

Hostels Management System

A project to cater to the needs of resident students using hostel facilities of the University. [implemented in liaison with the then secretary hall council]

Health Care Management System

A project to cater to the needs of university employees, students, staff (in service / retired) for health related issues. [implemented in collaboration with CMO and Sr. Pharmacist]

Services Management System

A project to cater to the needs of Network related activities available in the University for registering complaint, having web based tracking in the University Network

Internet Service Provider Infrastructure:

A project to cater to the needs of off campus faculty, staff and students. The set up was tested successfully under my supervision.

Conference / Seminars Attended

UK Semiconductors 2012 Conference (04-05th July 2012)

University of Sheffield, UK

International Conference on Emerging Sciences (28-29th January 2012)

University of the Punjab

UK Semiconductors 2011 Conference (06-07th July 2011)

University of Sheffield, UK

Science and Engineering 21 Action Plan 2011 Conference (02nd June 2011)

Glasgow Science Centre, Glasgow, Scotland UK

Big-Optoelectronic Group Conference (01-02nd June 2011)
The Burn (Country Side) Scotland, UK

Literacy in Oral Cultures: Conflicts, Compromises and Complications Conference
(24th Nov 2010)
Senate Room, University of Glasgow, UK

Integrated and Waveguide Photonics Conference (20th October 2010)
Senate Room, University of Glasgow, UK

Post Graduate Conference (17th August 2010)
Kelvin Conference Centre, University of Glasgow, UK

Big-Optoelectronic Group Conference (26-28th July 2010)
The Burn (Country Side) Scotland, UK

Special International Conference: Theme - Tackling Poverty For a Fairer World
Conference: Special Lecture by Nobel Peace Laureate Professor Muhammad Yunus, (04th July 2010)
University of Glasgow, UK

Oxford Instruments & Glasgow University Nano-scale Plasma Processing Workshop, (30th June 2010)
University of Glasgow, UK

IEEE Engineering in Medicine and Biology Society (EMBS) Workshop, (15th June 2010)
University of Glasgow, UK

Photonics for a Secure World, Workshop (01st June 2010)
IET Teacher Building, 14 St Enoch, Glasgow ,UK

"Quantum Optics" Organized by Scottish Chapter of the IEEE Photonics Society,
Workshop (19th March 2010)
Heriot Watt University ,Edinburgh, UK

Science and Engineering of Micro/Nano-Photonics Workshop, (07th July 2009)
Strathclyde University, Glasgow, UK

Post Graduate Conference (23rd June 2009)
University of Glasgow, UK

Big-Optoelectronics Group Conference (26-28th May 2009)
The Burn (Country Side), Scotland, UK

Electron Devices Workshop (04th August 2008)
School of Engineering, University of Glasgow, UK

ACADEMIC DISTINCTIONS

- Received foreign scholarship from University of the Punjab, for PhD studies.
- Received Scholarship on merit in College
- Received scholarship on merit in high school.

OTHER INTERESTS

Reading, Cycling, Hiking and Traveling

REFERENCES

Professor Dr. Ehsan Malik

Director / DG Gujranwala Campus

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