

# Ahmad Naseem Alvi



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## OBJECTIVE

To become an integral faculty member of an organization where I may deliver my 12 years of technical skills and 7+ years of academic knowledge to students and excel in my research area.

## SUMMARY

- Assistant Professor at COMSATS Institute of Information Technology, Islamabad
- Visiting Faculty member at International Islamic University, Islamabad
- Masters in Computer Systems Engineering from Halmstad University Sweden.
- B.E Electronics from NED University of Engineering and Technology Karachi, Pakistan.
- Research publications in reputed journal and conference proceedings.
- CCNA and CCNP CISCO academic certified from Sweden.
- 12 Years of technical operational experience in the field of Networking and Telecommunication
- 7+ Years of managerial experience in the technical side
- Successfully launched multiple mega projects of card pay phone, ISP, DSL and calling cards
- Multiple professional foreign trainings.

## EDUCATION

- PhD (Electrical Engineering) (2012 to 2016)  
*COMSATS Institute of Information Technology, Islamabad, Pakistan*
- Masters of Science (Computer Systems Engineering) (2008 to 2009)  
*Halmstad University, Halmstad, Sweden*
- Baccalaureate of Engineering (B.E Electronics Engineering) (1992 to 1997)  
*NED University of Engineering & Technology Karachi, Pakistan*

## ACADEMIC EXPERIENCE (Sep 2009 – to date)

*Feb 2010- to date*

**Assistant Professor**

**COMSATS Institute of information Technology, Department of Electrical Engineering, Islamabad**

- Assistant Professor, COMSATS Institute of information Technology, Department of Electrical Engineering, Islamabad

*Sep 2009- Jan 2010*

**Visiting Faculty Member**

**International Islamic University Islamabad**

## PROFESSIONAL EXPERIENCE (Oct 1996 – Aug 2008)

*July 2007- August 2008*

**Manager Technical**

**Unified Secure Services Private Limited.**

- Recruitment and build up of technical Team
- Launched different projects including GSM based vehicle security system, home security system, DVRs with cameras and walk through gates in north zone.
- Testing and commissioning of GSM based home security system, DVR, PTZ cameras, IP cameras and multi zone walk through gates.
- Managing and task assigning to the teams consisting of activation and fault rectification team.
- Training of technical teams for installations and configuration of equipments.

**Nov 1998 - June 2007** *Manager Technical*  
**Dancom Pakistan Private Limited.**

- Plan and establish the intranet of Dancom by connecting three offices
- Lead the technical team of pay phone, ISP and DSL teams.
- Configured Cisco routers and switches for routing and managing the ISP traffic.
- Commissioning of CISCO PIX Firewall for securing multiple ISP servers.
- Implemented routing protocols like RIPv1, RIPv2, EIGRP and OSPF.
- Implemented, configured and trouble shoot different VLANs
- Configured and troubleshoot VTP and RSTP
- Applied the Access Control List as per network requirements
- Configure, verify and troubleshooting of IP addressing services like NAT, DNS and DHCP
- Configuring and implementing multi-area network with OSPF
- Implement and verify BGP for ISP connectivity
- Implement gateway redundancy technologies in multilayer switched network
- Configure security features in a switched network
- Configuring and Commissioning of DSLAM and ADSL routers
- Configuration and commissioning of ZTE NGN network infrastructure.
- Configuration of SIP based IADs
- Configuration and commissioning of Intelligent Network
- Operation and Maintenance of card phone network of North Zone
- Plan and Execute the laying of fiber optic cable for FLL project
- Supervise and maintain three different types of card phone's NMS
- Lead the equipment selection team for testing and finalizing the equipment
- Testing of GSM Pay phones with Mobile operators
- Making and implementing the card pay phone tariff in Pakistan
- Testing of Card phone on VHF network in AJ&K
- Training of technical team of card phone and ISP
- Representing the technical and operational aspects at the highest level of PTCL and SCO

*Oct 1996-oct 1998* **Engineer Operations**  
**TELECOM FOUNDATION, ISLAMABAD**

- Lead the central lab supporting the whole Pakistan
- Trouble shooting the different cards of card phone
- Preparing the technical feasibility in equipment selection
- Coordinate with the different vendors regarding the necessary modifications
- Update the firmware and making different hard ware changes

## Research Interests

- Wireless Sensor Networks (MAC and Routing Protocols)
- Vehicular Communication (Layer-2 and Layer-3 handover)
- Data and Wireless Communications

## Publications

- A book "**Fast Layer-3 Handover in Vehicular Networks**" published.
- An article "**BEST-MAC: Bitmap-Assisted Efficient and Scalable TDMA-Based WSN MAC Protocol for Smart Cities,**" published in IEEE Access, vol. 4, no. , pp. 312-322, 2016."
- A book chapter titled "**Influence of Backoff Period in slotted CSMA/CA of IEEE 802.15.4**" published in Wired/Wireless Internet Communications, Publisher: Springer, pp.40 – 51, April 2016.
- An article "**Enhanced TDMA based MAC Protocol for Adaptive Data Control in Wireless Sensor Networks**" published in Journal of Communication and Networks, vol.17, no.3, pp.247-255, June 2015, doi: 10.1109/JCN.2015.000046.
- A journal paper "**ASIC Design Implementation of Memory Efficient Infinite Impulse Response UWB Equalizer**" published in PRZEGLD ELEKTROTECHNICZNY (Journal of Electrical Engineering).

- A paper titled “**Performance Evaluation of slotted CSMA/CA of IEEE 802.15.4**” published at international conference of BWCCA 2012.
- A paper titled “**Vertical Handover Triggering Condition Estimation for a Mobile Node Moving Out of a WiFi Cell**” published in PRZEGLD ELEKTROTECHNICZNY (Electrical Review), ISSN 0033-2097, Pages 86--88, R. 89 NR 3a/2013
- A paper titled “**EE-PBC: Energy Efficient Position Based Clustering for Strip Area WSN**” published in international conference of IIISC 2014.
- An article “**Improved superframe structure of IEEE 802.15.4 standard with Minimum Delay and Maximum CFP Link Utilization for WSNs**” published in ad-hoc and sensor wireless networks, December 2016, Ad Hoc & Sensor Wireless Networks 35(1-2):151-171

## Networking Skills

- Build up the simple Ethernet network using routers and switches
- Configuration skills of RIPv1, EIGRP and OSPF

## Volunteer Work

- Students counselling for improvement in their CGPA
- Financial Assistance to the needy students
- Resolve academic issues of students

## PROFESSIONAL AFFILIATION

- Professional Engineer (PE) of the Pakistan Engineering Council  
(Reg. electro/4488) since 1997

## PROFESSIONAL TRAININGS

- 11<sup>th</sup> Jan06 -21<sup>th</sup> Jan06* ZTE Next Generation Network  
ZTE University Schangen China.
- 11<sup>th</sup> Jan06 -21<sup>th</sup> Jan06* ZXMSG7200 Media Gateway and Signalling Gateway  
ZTE University Schangen China.
- 8<sup>th</sup> -20<sup>th</sup> Oct, 2000* NMS Of Intracom Card Pay Phones  
Intracom Athens, Greece

## INDUSTRIAL PROJECTS

### May 2008

Successfully testing and Commissioning of DVRs in multiple remote sites of the PTCL exchanges and its remote monitoring from the centralized location of the PTCL head quarter.

### July 2007- Mar 2008

Testing, Commissioning and launching of different security related project under the umbrella of USS including GSM based Home security system, GSM based vehicle security system, DVRs and cameras in North zone.

**July 2005- Mar 2006**

Testing and commissioning of ZXMSG7200 during the local loop NGN projects.

**July 2004 – May 2005**

Testing and configuring the DSLAMs and ADSL during the DSL project using ATM back haul and the ADSL using the G.DMT technology.

**June 2002 – July 2003**

Testing and launching of Intelligent Network Platform of North wing and planned the tariff of the whole country.

**Jan 2001 – Dec 2001**

Create the Intranet by connecting all the North, South and Central node through DXX and then convert it into the DSL after the implementation of DSL project.

**Jan 1998 – May 2007**

Lead the technical team of card pay phones comprising of more than 60 technical staff.

Supervising and monitoring the 4 different NMS of card pay phones through which all the north wing is connected.

**Nov 1998 – May 2007**

Lead the technical team during the PSTN card pay phone and GSM card pay phone selection.

**Sep 2005 – Mar 2006**

Commissioning of VSAT project in Kuwait Embassy, Islamabad. (A project of British Telecom, UK)

## **REFERENCES**

**Professor Dr. Shahid A. Khan**

(shahidk@comsats.edu.pk)

- Dean of Engineering  
COMSATS Institute of Information Technology, Islamabad

**Professor Dr. Junaid Mughal**

(junaid.mughal@comsats.edu.pk)

- Chairman (Electrical Engineering Department)  
COMSATS Institute of Information Technology, Islamabad