MUHAMMAD AMIR MEHMOOD

217-B New Chauburji Park, Lahore 54500 Pakistan.

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RESEARCH INTERESTS

My research interests are in large-scale computer networks. They encompass traffic engineering, routing, switching, network measurements and network security. I focus on problems faced during the operations of large IP/ATM backbone networks. I also have a particular interest in adapting tools from various vendors to solve problems in the large-scale backbone networks.

CURRENT POSITION (JUNE 2001 – PRESENT)

Assistant Divisional Engineer, Information Technology Infrastructure Department, Pakistan Telecommunication Company Limited.

EDUCATION

December 2005 MSc. in Electrical Engineering with specialization in Computer Engineering

from University of Engineering and Technology, Lahore Pakistan

Thesis Title: Design of Efficient Architecture for Implementing End-to-End QoS in IP

Networks.

BSc. in Electrical Engineering from University of Engineering and October 1996

Technology, Lahore Pakistan

Thesis Title: Real Time Implementation of Code Excited Linear Prediction (CELP) on

AT&T's DSP32C.

AWARDS

Best Conference Paper Award in IEEE International Conference on Emerging September 2005

Technologies (ICET), 2005 organized by Center for Advanced Studies in

Engineering (CASE) on September 2005 at Islamabad, Pakistan.

First Prize in 2nd IEEE Annual Final Year Project Competition held at University October 1996

of Engineering and Technology Lahore, Pakistan. October 1996.

PUBLICATIONS

Evaluation of VoIP quality over the Pakistan Internet Exchange (PIE) backbone 2005

Mehmood, M.A.; Jadoon, T.M.; Sheikh, N.M.

IEEE International Conference on Emerging Technologies –ICET 2005

Islamabad, Pakistan. Page(s): 258-263

Assessment of VoIP quality over access networks 2005

Mehmood, M.A.; Jadoon, T.M.; Sheikh, N.M.

Page(s): 5 pp.

The first IEEE and IFIP Conference in Central Asia on Internet – ICI 2005

Bishkek Kyrgyzstan.

June 2001 - To Date

PTCL - Pakistan Telecommunication Company, Ltd.

Currently working as "**Network Administrator**" of Pakistan Internet Exchange *PIE* Lahore, which is the Information Technology Infrastructure (ITI) Division of PTCL. PIE is a Tier-2 ISP responsible for providing IP Transit Services to ISP's, software houses, Call Centers and educational institutions on high-speed intercity IP backbone consisting of STM-1/4 links between Karachi, Lahore Islamabad and other cities. Internationally PIE is connected to Tier-1 ISP's like MCI, BT, TIS, STIX, and TeleGlobe with STM-1/4 links through SEA-MEA-WE ¾ optical fiber cables.

I am involved in maintenance, operations and planning of Pakistan Internet Exchange CORE/DISTRIBUTION Layer equipment like Cisco GSR 12410,7513,7206 Huawei NE80/40 routers, Cisco Catalyst Switches 6506, 4003, ATM Switches BPX 8620 & MGX 8850, Cisco PIX 525 Firewall, Arbor Peak Flow SP, Sniffer. For the last five years I have been involved in Level one Technical support to Lahore PIE node customers. My core competency is in routing and switching protocols such as OSPF and BGP. Also I have good experience in protocol analysis of IP traffic along with VOIP signaling protocol such as SIP, H323 and RTP media formats such as G.711, G.729a and G.723.1. Currently I am a part of technical team, which is conducting provisional acceptance test for the migration of PIE network from IP to MPLS for PIE Data & Voice Backbones. I have been involved in the setup of Packet Data Switched Network PDSN for wireless V-Phone Internet service.

May 2000 - June 2001

SIEMENS ENGINEERING PAKISTAN

I worked here as "Senior Executive Engineer" and was the regional Head of the Services Department of SIEMENS ICN EN Division Lahore region. I was responsible for the installation and commissioning of SIEMENS Digital Switches (HICOM 350, HICOM 300E, HICOM 150 E etc. along with voice mail systems from VOXTRON, DIALOGIC and different types of Call logging Software. Installation of Switches includes Routing, Zoning, Trunk Group planning and Tariff management. Routine maintenance includes all type of onsite and remote fault diagnosis and rectification. Here I lead a team of fifteen switching support engineers and technicians for the maintenance and commissioning of Siemens Switches. Also I was into Installation and commissioning of CALL CENTER Solutions (HIPATH PRO CENTER office ver 1.0) that includes unified messaging, voice mail and ACD (Agent Call Distribution) with HICOM 150 E.

Oct 97 - Apr2000

CALLMATE TELIPS TELECOM, Ltd.

I worked here as "*Manager Technical*" and was Involved in installation, commissioning and maintenance of Payphone Network along with Central Fault Management System (CFMS C90) for both Magnetic Card (TSP 91) and Chip Card (TEAM2m) from URMET Italy. Maintenance and Troubleshooting of Payphones was carried out by checking on line alarms status from Central Fault Management System (CFMS C90) and through different teams of technicians working in the field. Protecting line losses by installing Line Protection Units in SIEMENS EWSD and ERICSSON AXE-10 Digital Switches in Lahore Telecom Region.

Jan 97 - Aug 97

CADCAM CONSULTANT, Ltd.

I work here as "*Project Engineer*" for the rural electrification project for the province of Baluchistan. I was responsible for the design of LT and HT lines for rural areas under the specifications of WAPDA.

TEACHING EXPERIENCE

	UNIVERSITY OF CENTRAL PUNJAB, LAHORE (VISITING FACULTY)	
Spring 2006	"Advance and Next Generation Computer Networks". CS5133 "Multimedia Applications Over Broadband Networks". TE5313	
Fall 2005	"Advance Computer Networks". MCSc/MS Telecom class	
Spring 2005	"Current & Next Generation Networks". BS Telecom class.	
	UNIVERSITY OF ENGINEERING & TECHNOLOGY, LAHORE (EXTERNAL EXAMINOR)	
Spring 2006	"Computer Networks" 7 th Term Session-2003 Regular BSc Electrical (Communication) Engineering	
	COMSATS NETWORK TRAINING, LAHORE (VISITING FACULTY)	
Fall 2003	"Diploma in Telecommunication" "Interconnecting Cisco Network Devices" http://www.cnt.com.pk/dip_com.htm http://www.cnt.com.pk/icnd2.htm	
INVITED TALKS		
Aug 2006	"Traffic Prediction and Voice Quality Assessment" South Asian Network Operators Group (SANOG- 8) held from 27 th July to 4 th August 2006, Karachi, Pakistan.	
Dec 2005	"BGP Issues in Pakistan Internet Exchange" University of Engineering and Technology Lahore.	
Nov 2002	"Pakistan Internet Exchange – PIE" Lahore University of Management Sciences LUMS. Invited by IEEE Lahore Section.	
PROFESSIONAL TRAININGS		
2006	Introduction of Arbor Peak Flow SP May 2006 organized by ARBOR Networks at Karachi.	
2005	Implementing Cisco Quality of Service, 6 th -12 th September 2005 organized by Fast lane Dubai.	
2005	Implementing Cisco Multi Protocol Label Switching, 13th-19 th September 2005 organized by Fast lane Dubai	
2005	Implementing Cisco Multi Protocol Label Switching, Traffic Engineering, 20 th -24 th September 2005 organized by Fast lane Dubai	
2003	Cisco 12000 Series Technical Product Training, 16 th - 20 th June 2003 organized by Fast lane Dubai	
2003	<i>IP Network Security</i> , 4 th - 6 th June 2003 organized by National Post Graduate Institute of Telecommunication and Informatics, Islamabad.	
2003	Advance Networking in Cisco Routers, 10 th October to 31 st December 2003 organized by Corvit Pakistan.	

2002	<i>Telecom Management</i> , 1 st – 31 st January 2002 organized by Excellence at Telecom Staff College Haripur.
2002	Introduction of Cisco Routers, Switches, basic Configuration, Advance Routing Protocols (OSPF & BGP) and MPLS. 22 nd –30 th April 2002 organized by Sysnet Education Karachi.
2002	ATM Technology and WAN Switches. Solaris System Administration and Cisco WAN Manager. 3 rd – 10 th May 2002 organized by Sysnet Education Karachi.
2002	Cisco Router and Switches Trouble shooting & Cisco PIX firewall and Network Security. 11 th – 13 th May 2002 organized by Sysnet Education Karachi.
2002	Configuration of Integrated Services Digital Network (ISDN). 9 th – 12 th September 2002 organized by National Post Graduate Institute of Telecommunication and Informatics, Islamabad.
2001	Seven Months training of Switching, Transmission System and IT Infrastructure of PTCL in the whole country that include Siemens EWSD, Ericsson AXE-10, PDH, SDH, DXX and Optical Fiber Systems organized by PTCL staff College, Haripur
2000	Introduction and Configuration of HiPATH Procenter Office Unified Messaging Solution. 13 th –25 th November 2001 organized by SIEMENS Regional Training Institute Bangkok Thailand.
2000	Installation and Commissioning of SIEMENS Digital Switches and Voice Mail Systems. September 2000 organized by SIEMENS Engineering Company Limited. Pakistan.
1998	Management of Centralized Fault Management System and Anti Line Theft Units. April 1998 organized by TELIPS International Karachi.

Pakistani Citizen

CITZENSHIP