

Curriculum Vitae

MUHAMMAD AHSAN SHAIKH

CONTACT INFORMATION

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PERSONAL INFORMATION

Date of Birth: 27-Sept-1989
Nationality: Pakistani
Gender: Male
Marital Status: Single

OBJECTIVES

As a Radio Frequency Engineer, my objective is to bring success to the company by being a highly competent member of the communications team and contribute my knowledge and expertise in all aspects of running an RF system maintenance, installation, and design. One of my objectives is to further my expertise in the field of radio frequency engineering. I am confident and I can do this best if I will be a part of a competent and innovative environment.

PERSONAL SKILLS AND COMPETENCES

- Hands-on experience of using Ascom's TEMS for Investigation and Data Collection, MAPInfo, Genex Probe, Alcatel's PIANO, etc.
- Performed BCCH Planning, TCH channel allocation and sectors planning using MAPInfo.
- Plotted practical network, resolved co-BCCH & co-BSIC issues, analysis of C/I, C/A parameters & evaluation of inter-site distances, etc.
- Live testing of network with idle & dedicated handsets, performed short & long calls, measuring Rx_Lev, Rx_Qual, BER/FER, SQI & TA parameters
- Detailed log file examination using MS Excel and importing details in GE maps for enhanced visualization and real-time terrain analysis
- Composite/Report design and suggesting recommendations for DT activities performed
- Familiar with Drive testing activities, such as Pre/Post DTs, Cluster DTs, Routine & Performance DTs and Inter-Network benchmarks, etc.

EXPERIENCE

- Trainee Engineer at NETKOM Pakistan as RF Engineer working on LTE Drive Test. (Current)
- One month (Nov-2015) training on RF Network Planning and Optimization
- Work as a Graduate Research Assistant for 10 months from Feb. 2014 to Nov. 2014 in wireless communication lab, Multimedia University, Malaysia.
- Three months internship (18-Feb-2013 to 12-May-2013) at IX telecom, Cyberjaya, Malaysia as a Network Assistant Engineer in Virtual Network Operation Center (VNOC).

EDUCATIONAL BACKGROUND

2010 – 2014	Degree Title:	Bachelor of Engineering (Honours)
	Field:	Electronics majoring in Telecommunications
	FYP Title:	Performance Analysis of LTE Physical Layer
	University:	Multimedia University, Cyberjaya, Malaysia
	CGPA:	2.97 out of 4.00
2007-2009	Course:	Higher Secondary School Certificate (HSSC) (Pre-Engineering)
	School:	Pakistan International School, Jeddah, Saudi Arabia
	Result:	77 % (A Grade)
2005 - 2007	Course:	Secondary School Certificate (SSC) Science
	School:	Pakistan International School, Jeddah, Saudi Arabia
	Result:	70 % (A Grade)

COURSEWORK DURING BACHELOR OF ENGINEERING

Electrical and Electronics Related

Electronics I, II, III
Circuits and Signals Theory
Digital Logic Design
Machines and Power Systems
Instrumentation and Measurements
Technique

Computer Related

Microprocessors and Microcontrollers
Computer Program Design (C Language)
Computer Organization and Architecture
Algorithms and Data Structure

Communication Related

Data communication
Analog Communication
Digital Communication
Information theory and Error Coding
Digital Signal Processing
Communication Network
Optoelectronics and optical communications

Mathematics and Science Related

Engineering Mathematics I, II, III, IV
Random Process and Queuing theory
Field theory and Circuit theory

MEMBERSHIP

LANGUAGE SKILLS

English: IELTS: 6.5

Other Languages: Native *Urdu*. Good skills in *Japanese* conversation. Knowhow of *Arabic* and *Malay*.

PROGRAMMING/OPERATION SKILLS

Language/Application

Matlab	Web Help Desk	Visual Basic.Net	NAIGOS
Multisim	Assembly Language	C++ Language	OpManager
C Language	MapInfo	MS Office & Visio	TEMS Investigation

AWARDS/ASSISTANTSHIPS AND PARITICIPATIONS

- Received graduate research assistantship for 10 months at Faculty of Engineering, Multimedia University, Cyberjaya, Malaysia (2014)
- Participated in IEEE 11th International Conference on Communications, at Kuala Lumpur, Malaysia (2013)

PERSONAL TRAITS AND GENERAL SKILLS

- Strong leadership skills
- Able to work individually as well as in teams
- Honest with a great approachable personality
- Proactive and believe in hard-work and dedication
- Able to communicate effectively with people with different background
- Eager to learn and explore new things

PROJECTS COMPLETED DURING BACHELOR OF ENGINEERING

- Performance analysis of LTE physical layer (Final Year Project)
- Infrared modem hardware using Visual Basic.NET (Mini-project)
- Variable speed fan controller with temperature sensor using 8051 micro controller (in Microcontroller and microprocessor course)
- Temperature sensor using thermocouples using Arduino (in Embedded system design course)
- LED decoration runner (in digital logic design course)

LIST OF PUBLICATIONS

- (1) Mohd Hairi Halmi, Muhammad Ahsan Shaikh, Khairunissa Ismail, "Iteration Reduction of 8×8 MIMO V-BLAST Systems for Reduced Computational Complexity," in *Proc. of Int. Conference on Information and Convergence Technology for Smart Society (iCiCTS 2015)*, Bangkok, Thailand, pp. 51-52. Jan. 21-24, 2015.
- (2) Mohd Hairi Halmi, Muhammad Ahsan Shaikh, Khairunissa Ismail, " 8×8 and 16×16 MIMO V-BLAST Systems with Iteration Reduction Scheme," in *Proc. of Int. Conference on Asia Pacific Conference on Wireless and Mobile (APWiMOB 2015)*, Bandung, Indonesia, pp. 163-166. Sept. 27-29, 2015.