

# **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, Route Analysis, MAPInfo, 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
- Spectrum/Channels scanning to find interference issues, in existing ARFCNs optimization and new site BCCH channel allocation
- Detailed log file examination using TEMS Route Analysis, 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.

## RESEARCH EXPERIENCE

Work as a Graduate Research Assistant for 10 months from Feb. 2014 to Nov. 2014 in wireless communication lab, Multimedia University, Malaysia.

## INTERNSHIP/TRAINING

- One month (Nov-2015) training on RF Network Planning and Optimization
- 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

<b>2010 – 2014</b>	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
<b>2007-2009</b>	Course:	Higher Secondary School Certificate (HSSC) (Pre-Engineering)
	School:	Pakistan International School, Jeddah, Saudi Arabia
	Result:	77 % (A Grade)
<b>2005 - 2007</b>	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  
Control Theory  
Field theory and Circuit theory

## MEMBERSHIP

**Pakistan Engineering Council:**

ELECTRO/21822

## 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 PARTICIPATIONS

- Received graduate research assistantship for 10 months at Faculty of Engineering, Multimedia University, Cyberjaya, Malaysia (2014)
- Participated in IEEE 11<sup>th</sup> 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  $8 \times 8$  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, " $8 \times 8$  and  $16 \times 16$  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.