

Tulha Moaiz Yazdani

Engineer - Lectureship

COLLEGE OF ENGINEERING, MAJMAAH UNIVERSITY

P. O. Box 66

Riyadh, Saudi Arabia

Email Address: t.m.yazdani@gmail.com

Day Phone Number: +966.556612617

Evening Phone Number: +966.556612617

Mobile Phone Number: +966.556612617

Target Job

Target Job Location: Europe, USA, Canada, Gulf, Saudi Arabia, China, India

Career Objective: An Electronics & Communication Engineer with multiple masters, and a short yet impressive experience in the telecommunication sector, specializing in BSS & OMC-R domain, seeking to work in a challenging environment, with ample opportunities to apply specific skills in making tangible contributions to the financial bottom line.

Target Industry: Education, Training, and Library; Engineering; Installation, Maintenance, and Repair; Oil/Petroleum; Technical/Maintenance; Telecommunications

Employment Type: Employee

Employment Status: Full time

Personal Information

Birth Date: 15 April 1983

Gender: Male

Nationality: Pakistan

Visa Status: Residency Visa (Transferable)

Residence Location: Riyadh, Saudi Arabia

Marital Status: Married

Driving License: Pakistan; Saudi Arabia

Professional Experience (13 Years, 04 Months)

Oct. 2010 – To Date: Lecturer

Majmaah University

College of Engineering, Riyadh, Saudi Arabia

Company Industry: Education, Training

Job Role: Education/Training

Responsibilities:

Taught courses

- Basic Electronic Devices + Lab experiments
- Analog and Digital Integrated Circuit + Lab experiments
- Electric Circuit Analysis +Lab experiments
- Analog and Digital Measurement+ Lab experiments
- Signal and System Analysis
- Automatic Control System
- Optical Fiber communication
- Communication Principles+ Lab experiments

Administrative Units and Council at College and Program Level

- Secretary of Post Graduate Studies Unit at Faculty of Engineering, Majmaah University
- Secretary of Council of Department of Architecture and Interior Design at faculty of Engineering (Female Branch), Majmaah University
- Secretary of Educational affairs and Examination Unit

Community Services

- Member of Community Service Committee
- Coordinator of Bridging Program Committee
- Disaster Management Flood Relief 2010

Administrative Committees at Department Level

- Member of Documentation and Archiving Committee
- Member of Scheduling Program Committee
- Member of Laboratory Development Committee
- Member of Senior Design Committee
- Member of Undergraduate Research and Assistance Committee

Research Grant:

[Types of Lightweight Cryptographies in Current Developments for Resource Constrained Machine Type Communication Devices: Challenges and Opportunities](#)

Fund Support: Deanship of Scientific Research, Majmaah University under project R 2022- 84

Certifications:

University Teaching

The University of Hong Kong, Center for Enhancement of Teaching and Learning

<https://coursera.org/verify/U4BNBSF5BDLW> , Feb 22, 2024

Training:

Academic Advising Skills

Deanship of development and Quality, Majmaah University

Forum

Renewable Energy Engineering Forum

College of Engineering, Majmaah University

Student Forum

College of Engineering, Majmaah University

Laboratory Development at College of Engineering-MU:

Training, Installation and commissioning of electronics workbench Laboratory

Training, Installation and commissioning of Microwave Laboratory

Training, Installation and commissioning of Communication Laboratory

Training, Installation and commissioning of Antenna Laboratory

Training, Installation and commissioning process of Machines Laboratory

Training, Installation and commissioning process of Transmission Line Laboratory

Training, Installation and commissioning process of Control Laboratory

Publications:

[Types of Lightweight Cryptographies in Current Developments for Resource Constrained Machine Type Communication Devices: Challenges and Opportunities](#)

[S Ullah, RZ Radzi, TM Yazdani, A Alshehri... - IEEE Access, 2022 -
ieeexplore.ieee.org](#)

[Outdoor large-scale path loss characterization in an urban environment at 26, 28, 36, and 38 GHz](#)

[MN Hindia, AM Al-Samman, TA Rahman, TM Yazdani
Physical Communication 27, 150-160](#)

[Compact wideband series linear dielectric resonator array antenna](#)
[YM QASAYMEH, A AIMUHASIEN, T Yazdani](#)

[Measurement Tools for IP Multimedia Subsystems \(IMS\)](#)
[H Ali, TM Yazdani](#)

[Design And Fabrication Of A Microstrip Antenna For WI-MAX Applications](#)
[TM Yazdani, M Islam](#)

**June 2005 - March
2007:**

BSS/RF Performance Engineer (CDMA-WLL)
Telecard Ltd Islamabad, Pakistan

Company Industry: Telecommunications

Job Role: Engineering

Highlights:

- Entrusted additional responsibility as a OMC-R Engineer to manage Radio Access Network (RAN)/Transmission Equipment and coordinate BSS & RF operations in liaison with Field Engineering staff and Call Center.
- Handled overall technical and management operations of the department in compliance with organizational policies.

Responsibilities:

- Maintained fluidity of traffic and signaling systems by evaluating periodic BSS/RF reports provided by the OMC-R.
- Handled trouble tickets related to BSS nodes and recommended timely actions and solutions based on investigation performed or as instructed by the Radio Network Engineering Group.
- Provided technical solution planning and hands-on support to optimize the RAN network to the AM/Manager BSS/RF OPS.
- Performed commissioning, configuration, testing of RAN equipment, and maintenance and media issues of LDI-POP (Telecard Multan).
- Interfaced with Field Engineering staff to locate technical problems and perform necessary trouble shooting/fault rectification.
- Analyzed and put forward the instructions and request from Operators and Vendors at Tier 1 level TT/AR opening.
- Monitored the operational/network status of all networks and instituted immediate measures to rectify breakdowns, ensuring optimal levels of network connectivity.
- Recommended modifications to seniors in management chain and the Radio Network Engineering group for any abnormality observed in the network.

Trainings:

- Feb '05-May '05 Internship- GSM Network, U-fone Ltd - Pakistan telecommunication mobile Ltd
 - Worked as technical solution support trainee engineer in BSS Department and assisted in installation (Alcatel Equip) of U-fone MSC
 - ATOLL, Software of RF Planning, Telecard PVT Ltd
 - RF Optimization, Telecard PVT Ltd
 - Transmission Training ZXMP S320 (SDH Equipment)
-

Education (Specialization in Telecommunication and Radio Communication)

January 2010:

Blekinge Tekniska Hogskola, Karlskrona, Sweden

Master's degree, Electrical Engineering -**Telecommunication**

Core Modules Studied:

- Network Security
- Mobile Communication
- TCP/IP Communication
- Applied Signal Processing
- Telecommunication Systems (Seam Less Communication, Peer-to- Peer Network, Content Distribution over IP)
- Wireless Network
- Network Management
- Linear Optimization

Dissertation:

- Submitted a project report (IEEE transaction format) on Network Performance Monitoring to Dr. Patrik Arlos.

Laboratory Work:

IP Communication

- IP Routing
- OSPF Simulation
- TCP Simulation
- Model the BTH WAN using OPNET
- Network Design and Implementation (Configure Cisco Switches and Routers) WPAN
- Introduction to Bluetooth: HCI commands, connection and Piconets
- Introduction to ZigBee: Understand communication between Bluetooth modules and host PC
- Introduction to RFID: How to store information and apply basic security measurements

Graduation Thesis:

Measurement Tool for IP Multimedia Subsystem

Decoded SIP message to gather response time information for signaling between IMS entities and other network elements and provide a proposal on which tool is suitable for measuring signaling protocol regarding performance, exportability and hardware requirements for research purpose.

O.S & Tools

- Linux, Windows
 - Oscilloscope
 - Spectrum Analyzer (Agilent)
 - Wire Shark (Protocol Analyzer)
 - Network Analyzer (Rohde & Schwarz)
 - OPNET (Network Simulator)
-

January 2009:

Blekinge Tekniska Hogskola, Karlskrona, Sweden
Master's degree, Electrical Engineering - **Radio Communication**

Core Modules Studied:

- Signal Processing II
- Antenna Theory
- Digital Transmission & Radio Communication
- Radio Communication
- Wireless Personal Area Network
- Research Methodology with emphases on Electrical Engineering
- Random Process & Time Series Analysis

Laboratory Work:

Radio Communication

- Fading in Wireless Communication Systems
- Handoff in Wireless Communication System
- Calculating and Plotting the Bit Error Rate using MATLAB
- Implement a function that simulate block encoder/decoder
- Measurement of S11 and S21 parameter using Network Analyzer
- Fundamental of Antenna technology using Lucas-Nulle Antenna Training System

Master Thesis:

Design and fabrication of Micro-strip Antenna for WiMAX

Application:

Designed and fabricated a micro-strip antenna operating at 3.5GHz to achieve a maximum bandwidth for WiMAX application based on IEEE 802.16- 2004. The transmission line model is used for analysis. S- parameters (S11 and S21) are measured for the fabricated micro-strip antenna using network analyzer in a lab environment.

O.S & Tools

- PCB Designing
 - Oscilloscope
 - Network Analyzer (Rohde & Schwarz)
 - Spectrum Analyzer (Agilent)
 - OPNET (Network Simulator)
 - Wire Shark (Protocol Analyzer)
 - MS Office (MS Word, MS Excel, MS Access)
-

Deferred
(Only thesis work
is pending)

Royal Institute of Technology, Stockholm, Sweden
Master's degree, Project Management & Operational Development
Status: Semester Break

Summary:

The Master degree program is based upon two standards for assuring quality and success in project management; ISO 10006 and ANSI 99 - 00 - 2000 (PMBOK).

Study Modules:

- Project management 1
- Project management 11
- Risk Management System
- Leadership for Operational Development
- The Organization and the Management System
- Practical Analysis

Key Assignments Handled:

- Design and construction of a fixed bridge spanning the Strait of Gibraltar)

This project deal with Planning of project, scope, integration and cost management

- Green Show Project-Wave and wind power in pacific

The Project that works with integration, quality, HR & communication, Procurement and Risk

- Creating a risk management system for industrial enterprise

The group assignments are aimed in understanding a risk management system and its compliance with the overall management system and to understand its methods and the limitations.

- Developed a symbol, a concept, an image, a “rumour, a logo or any other item that reflects To market KTH, internationally, as the most attractive, competent and educationally well-developed Institute of Technology in the world

- The group assignments were aimed in developing business strategy, setup company type and relation map, construct and implement business type.

- The seminar covers the knowledge in risk assessment, in particular Monte Carlo methods, as a manual for risk analysis.
-

March 2005:

Allama Iqbal Open University, Islamabad, Pakistan
Bachelors of Engineering in Telecommunication

Core Modules

- Digital Communication System
- Telecom Transmission System
- Telecom Switching Principles
- Antenna & Wave Propagation
- Engineering Economics
- Statistical Quality Control
- Management Sciences
- English & Technical Report Writing.

Bachelor Thesis

- UWB wireless data propagation through fading channel, simulation using MATLAB.

O.S & Tools

- Windows
- Oscilloscope
- Network Analyzer (Rohde & Schwarz)
- Spectrum Analyzer (Agilent)
- OPNET (Network Simulator)
- Wire Shark (Protocol Analyzer)
- MS Office (MS Word, MS Excel, MS Access)

Skills

Skill	Skill Level	Experience	Last Used
Radio Programming, Satellite Transmission, BSS/OMC-R Systems, Project Mgmt., Land Communication	Expert	More than 2 years	1 month or less
Digital Communication System, TCP/IP Communication, Wireless Network, Linear Optimization	Expert	More than 2 years	1 month or less
Quality Assurance, Risk Control, Optical Fiber, SDH Transmission, IP Networks, Cisco Routers & Switches	Expert	More than 2 years	1 month or less
Lucas-Nulle Antenna Training System, Plotting the Bit Error Rate using MATLAB, IP Routing	Expert	More than 2 years	1 month or less
OSPF/ TCP Simulation, Risk Management, Operations & Maintenance, RAN Network	Expert	More than 2 years	1 month or less

Skill	Skill Level	Experience	Last Used
BTH WAN, OPNET, HCI Commands, RFID, Linux, Windows, Oscilloscope, Spectrum/ Network Analyzer	Expert	More than 2 years	1 month or less
ZXC (CDMA)-10 BSC Software, Configuration, Testing & Commissioning of RAN/ Transmission Equipment	Expert	More than 2 years	1 month or less
Knowledge of Base Station Testing, Multi-Meter, RF Watt Meter, TDR, VSWR Meters, MAPINFO	Expert	More than 2 years	1 month or less
Voice & Data Services, Wire Shark, MS Office Suite & Internet Applications	Expert	More than 2 years	1 month or less
Communication, Interpersonal, Negotiation, Presentation, Analytical & Leadership Skills	Expert	More than 2 years	1 month or less
Self-Management, Good Learner & Hard Working	Expert	More than 10 years	1 month or less

Languages

Language	Skill Level	Years of Experience	Last Used
English	Expert	More than 10 years	1 month or less
Urdu	Expert	More than 10 years	1 month or less
Arabic	Intermediate	More than 13 years	1 month or less

References

Name	Job Title	Phone Number	Email Address
Mats Pettersson Karlskrona Sweden BTH	Associate Professor BTH	+46.457385720	mats.pettersson@bth.se
Mikael Asman Karlskrona Sweden BTH,	Engineering Program Coordinator Dept.	+46.457385728	mikael.asman@bth.se
Shahzad Iqbal Telecard Ltd Multan	Manager (r) (NOPS)	+92.61457929	shahzad_iqbal@telecard.com.pk