



# Mohammed Hadi

Lecturer | PhD Researcher | CCNA Instructor

Organised Lecturer/instructor/researcher, skilled in classroom management, and curriculum presentation. Strong history of increasing student engagement and fostering learning outcomes demonstrated over 5 years of experience. My PhD was about using Machine Learning algorithms to optimise cellular network.

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## TECHNICAL SKILLS

**Programming** MATLAB, Python, Optimisation using AMPL/MILP, and SQL (intermediate).

**Teaching & Tutoring** Academic lecturing, Cisco CCNA Instructor.

**Machine Learning** Python Scikit-Learn, and Orange Data Mining

**Academic Research** Published in high-impact, Q1, journals. Peer reviewer for IEEE journals (e.g., IEEE Access, IEEE TVT).

## LANGUAGES

English  
*Full Professional Proficiency*

Arabic  
*Native or Bilingual Proficiency*

## WORK EXPERIENCE

### Teaching | Assistance Lecturer & Cisco Instructor Al-Mansour University College

09/2010 – 11/2015

Baghdad, Iraq

#### Achievements/Tasks

- Worked as a Department Coordinator in the Computer Technology Engineering Department.
- Assist the department chair in daily undergraduate program operations, including scheduling and faculty assignments.
- Member of curriculum review committee.
- Dispersed, collected, and graded assignments to give detailed feedback, including papers, quizzes, and tests.
- Taught 3-4 undergraduate classes per semester, each with more than 50 student, in Networking, Electronic Instrument Testing, and Digital Logic Design. Further, provided laboratory-based teaching for the above subjects.
- Cisco CCNA 1 and 2 Instructor at Al-Mansour Cisco Academy. Further, conducted laboratory-based tutoring using Cisco Packet Tracer software.

Contact: Dr Mahmoud Shukur – mahmoud.shukur@muc.edu.iq

### PSTN, IN & SMS Engineer

#### ZTE Corporation

02/2007 – 08/2010

Baghdad, Iraq

#### Achievements/Tasks

- Worked with private and public-sector customers, understanding their requirements, and provided them with tailored services.
- Installing, configuring, and troubleshooting ZTE's Intelligent Network Solutions (ZXIN10), user creation, Voucher Card (Scratch Card) creation, and credit deduction process for ZTE's CDMA wireless networks.
- Installing, Configuring, and troubleshooting ZTE's SMS system.
- Installing, commissioning, and troubleshooting ZTE PSTN switches called ZXJ10, currently serving the telephone network for more than 40 sites throughout Iraq.
- Passed several qualification levels in each of the above fields with certificates (see certificates section).
- Participated in installing, configuring, and maintaining the SMS (Short Messaging System) and IN (Intelligent Network) systems in ZTE's Iraq 117k subscriber Switching project, and the Nasriya 40k subscriber CDMA project.

Contact: Dr. Ahmed Al-Qizweeni – qizweeni@gmail.com

## WORK EXPERIENCE

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### VSAT Engineer | Team Leader

#### InterGlobe Networks for Enterprise Solutions

01/2004 – 08/2006

Baghdad, Iraq

##### Achievements/Tasks

- Managing the VSAT department, scheduling tasks, following up with customers, and liaising with VSAT equipment vendors and VSAT service providers.
- Supervising and preparing technical proposals of tailored solutions for government and non-government entities.
- Upgrading, configuring, and troubleshooting more than 100 VSAT systems.
- Accomplished Projects: Central Bank of Iraq, TBI Bank, Baghdad Mayorality. Iraqi Ministry of Housing and Construction, Iraqi Ministry of Oil, Iraqi Ministry of Communication.

Contact: Mr. Amer Hameed – amer7909@yahoo.com

## EDUCATION

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### PhD | Electronic and Electrical Engineering

#### University of Leeds, Leeds, UK

02/2016 – 05/2020

##### Courses

- Project Name: Network optimisation using big data analytics
- Supervisor: Prof Jaafar Elmirghani- J.M.H.Elmirghani@leeds.ac.uk

### MSc | Computer Engineering

#### Al-Nahrain University, Baghdad, Iraq

09/2006 – 01/2009

### BSc | Computer Engineering

#### Al-Nahrain University, Baghdad, Iraq

09/2000 – 09/2003

## PUBLICATIONS

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##### Journal Paper

### Patient-Centric HetNets Powered by Machine Learning and Big Data Analytics for 6G Networks

##### Author(s)

Mohammed S. Hadi, Ahmed Q. Lawey, Taisir E.H. El-Gorashi, and Jaafar M.H. Elmirghani

05/2020

IEEE Access

<https://doi.org/10.1109/ACCESS.2020.2992555>

##### Journal Paper

### Patient-Centric Cellular Networks Optimization Using Big Data Analytics

##### Author(s)

Mohammed S. Hadi, Ahmed Q. Lawey, Taisir E.H. El-Gorashi, and Jaafar M.H. Elmirghani

04/2019

IEEE Access

<https://doi.org/10.1109/access.2019.2910224>

##### Conference Proceedings

### Using Machine Learning and Big Data Analytics to Prioritize Outpatients in HetNet

##### Author(s)

Mohammed S. Hadi, Ahmed Q. Lawey, Taisir E.H. El-Gorashi, and Jaafar M.H. Elmirghani

09/2019

IEEE INFOCOM 2019, France

<https://doi.org/10.1109/infcomw.2019.8845225>

##### Journal Paper

### Big data analytics for wireless and wired network design: A survey

##### Author(s)

Mohammed S. Hadi, Ahmed Q. Lawey, Taisir E.H. El-Gorashi, and Jaafar M.H. Elmirghani

02/2018

Elsevier | Computer Networks

<https://doi.org/10.1016/j.comnet.2018.01.016>

## ORGANISATIONS

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IEEE Communication Society (01/2019 – Present)

## CERTIFICATES

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### Cisco Certified Network Associate II (Certified Instructor) (11/2012)

*CCNA Routing Protocols and Concepts (certified Instructor)*

### ZTE ZXIN 10 level II Certified Expert (10/2009)

*ZTE's certification program for Intelligent Network and Short Message Service engineers.*

### ZTE ZXJ 10 level I Certified (04/2007)

*ZTE's certification program for PSTN engineers.*

### Cisco Certified Network Associate I (Certified Instructor) (10/2011)

*CCNA Network Fundamentals (Certified Instructor).*

### ZTE ZXIN 10 level I Certified Professional (10/2008)

*ZTE's certification program for Intelligent Network and Short Message Service engineers.*

## HONOR AWARDS

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### Fulbright Visiting Scholar Program (09/2014)

*The U.S. Department of State, Bureau of Educational and Cultural Affairs.*

- ▣ Recipient of the Fulbright Visiting Scholar Program.