Aymen Mohammed

Date and Place of Birth: 27 March 1989, Kerbala   Nationality: Iraqi

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Profile

- ❖ Lecturer at the College of Information Engineering, Al-Nahrain University/ Iraq
- ❖ Program Coordinator of the Networks Engineering Department, Al-Nahrain University/ Iraq
- ❖ Master's degree in Communications and Signal Processing Engineering with distinction/ UK
- ❖ Experienced in microwave circuit design, networks design and wireless communications
- ❖ Academic Course Representative at the University of Leeds in the UK
- ❖ High academic achiever with excellent communication and computer skills

Education

2014-2015   **MSc in Communications and Signal Processing Engineering / University of Leeds, UK**

Classified as *Distinction*

Modules:

Wireless Communications System Design - Digital Signal Processing Communication

Cellular Mobile Communication Systems - Digital Wireless Communication Principals

DSP Hardware Implementation - High Speed Internet Architecture - Data Communications & Network Security – Optical Communications Network

My Masters Project: I worked on a project entitled ''Generalized Chebyshev Lowpass Filter Design with a Suspended Substrate Stripline (SSS)'', supervised by Professor Ian Hunter, a pioneer in microwaves, at the University of Leeds in the UK. The project included each of theoretical, fabrication and measurement phases then publication.

2008-2012   **BSc in Computer Communications Engineering / Mansour University College, Iraq**

Overall grade (78.8/100) – Ranked as the 6th out of 138 graduates.

Modules:

First Year	Second Year	Third Year	Fourth Year
Electrical Circuit Theory	Microprocessors	Numerical Analysis	Artificial Intelligence
Physical Electronics	Electronic Circuits	Communication II	Digital Signal Proc.
Mathematics I	Communication I	Control Systems	Computer Network
Computer Programming	Object Oriented Prog.	Computer Architecture	BSc Project
Engineering Drawing	Mathematics II	Data Structure	Communication III
Fund. Of Comp. Sys.	Eng. Laboratory II	Data Security	Modelling &Simulation
Eng. Laboratory I	Electromagnetic Fields	Eng. Laboratory III	Eng. Laboratory IV

Competencies and Behavioural Skills

- **Accountability:** Since my early age, I have been following all the relevant procedures and policies to ensure perfect outcome. For instance, I applied to HCED scholarship program in Iraq and successfully got it. Consequently, my responsibility for representing the educational bright view of my county in the UK was accomplished by achieving first class (honors) in my master's study.

- **Team Management and Leadership:** I was elected to be a course representative at the University of Leeds. The responsibility was managing and reporting students' feedbacks regarding with attended academic course to reflect them directly to the course manager. The University have given me a friendship letter for my assistance to rectifying university courses.

- **Team Working**: In my master's study, I worked with my colleagues to do group projects and group reports along with the intensive cooperation in the laboratory every week. That has given me the experience of team working and how individuals can perform great jobs and duties once they work together as a team.

- **Time Management**: I got many assignments with different importance in my study. In consequence, I had to learn how to organize their priorities especially during cases in which many deadlines were set in a very narrow period of time. Time management was a critical element for me to finish them on time depending on their priorities and significances.

- **Creativity and Initiative:** As the world keeps continuously developing, I tend to follow the latest International development in Economy, Politics, Sport, and Humans Right Acts. Therefore, I am often looking for develop my own ideas or resolve a current problem to keep pace with the current world.

- **Planning and Organizing:** I think that preparing beforehand for everything in this life is a key role to adequately achieve the required goals. Thus, I used to plan a head, assess the ideas and the projects, identify the priorities and risks, and then after getting the advice from the senior manager, start achieving the targets.

- **Document Preparing and Reporting:** As I completed my master's study at University of Leeds, I intensively handed in tens of technical reports and assignments along with time management to guarantee submission prior to deadlines. Also, I attended 5 months academic courses in the UK involving writing formally and professionally with necessary presentation skills.

Experience

March 2014 to
April 2014

Technical Support Engineer at EarthLink Co.

Baghdad, Iraq

I worked for EarthLink Company (Internet service provider ISP) at the support department. That position provided me with lots of skills in terms of networking and troubleshooting. Additionally, that job helped me understanding how communication networks are established and data being exchanged. I left this position since I awarded a fully-funded scholarship to do masters in the UK.

October 2014 to September 2015	**RF and Microwave Circuit Design Researcher at the University of Leeds** Leeds, United Kingdom

During my master's degree, I engaged in different projects related to computer networking, cellular network planning, RF circuit design and signal processing hardware implementation. In addition, I developed and fabricated a microwave low-pass filter that is applicable in cellular base stations. I experienced the sense of manufacturing process staring from filter mathematical synthesis and simulation to the fabrication and measurement stages.

September 2016 to December 2016	**Telecommunications Engineer at Almouja Co. for Telecom Services** Baghdad, Iraq

I worked in this position as telecom and technical engineer. My duties were mainly related to analyzing the technical offers to Almouja company by different telecom leading companies such as Huawei and LS telcom to have mutual technical business agreements. Also, I was preparing technical offers for applying on some announced tenders related to governmental companies such as SCIS, CMC and ITPC as well as Iraqi Ministries like the Ministry of Oil, Ministry of Electricity and Ministry of Communications. In addition, I involved in several technical meetings, as a representative of Almouja company, with Huawei Co. and SCIS to discuss some projects related to 4G cellular networks in Iraq.

July 2017 to November 2017	**Security Team Leader in the ITP project** Iraq

I participated in the Iraq IT Platform (ITP) Project which aimed to build IT infrastructure to link all Iraqi Institutions and Ministries around provinces within backbone networks via MPLS. My duties as the security team leader were concerned with building, configuring and troubleshooting security appliances such as IPSs and Firewalls.

December 2016 to Present	**Assistant Lecturer at Al-Nahrain University** Baghdad, Iraq

Currently I am employee at the department of Networks Engineering, College of Information Engineering, Al-Nahrain University, as assistant lecturer. I have been the module leader of different courses involving the disciplines of computer networks, data communications, wireless communications, digital signal processing, physical electronics and signals& systems. In addition, I leaded a special wireless communication course taught for Iraqi Officers pursuing their Higher Diploma degree at the Institute of Security Development/ Ministry of Interior/Iraq. Also, I reflected that skills I have got in the UK as English learner into teaching when I taught prospective postgraduate students at Al-Nahrain University some skills included essay writing, paraphrasing, proofreading and plagiarism avoidance.

October 2018 to Present	**Department Coordinator at Al-Nahrain University** Baghdad, Iraq

I have been assigned as the Coordinator of the department of Networks Engineering, Al-Nahrain University for a couple of academic years. My main responsibilities fall within dealing with scientific programs management as well as leading committees for updating course syllabuses. Moreover, some of my other duties at the school are involving the grading and exam management systems as a member of the Exam Committee as well as proofreading and copyediting as a member of the IJICT journal copyediting team.

Publications

Research Interests

- My research interests are concerned with mobile networks, advanced MIMO techniques, wireless communications energy-efficient system design, adaptive filtering, digital signal processing technologies.

Journals& Conferences

- Al-Kadhimi, A.M. and Ali S. A. M., 2018. *Design of Asymmetrical Generalized Chebychev Lowpass Filter with a Wide Stopband Rejection*. Journal of Fundamental and Applied Sciences, 10(6S), 193-197.
- Al-Kadhimi, A.M., 2020. *Performance Evaluation of LTE and UMTS Cellular Networks in Iraq with Multiple Terrains.* Journal of Physics: Conference Series.
- Al-Kadhimi A. M., Marhoon H. M. and Karam Z. A., 2018. *Implementation of Cell Phone Detection Mobile Robot for Restricted Areas Using NodeMCU*. Iraqi Journal of Information & Communications Technology, 1(1), 27-35.
- Ali, S.A.M., Al-Kadhimi, A.M. and Hasan, S., 2018, September. *Investigating the Parallel Components of TLD Algorithm Using OpenCL Computation Framework*. In *2018 10th Computer Science and Electronic Engineering (CEEC)* (pp. 36-40). IEEE.
- Karam, Z.A., Al-Kadhimi, A.M. and Saeed, E.A., 2018, October*. Design and Implementation of a Wireless Robotic Human Hand Motion-Controlled Using Arduino*. In *2018 International Conference on Advanced Science and Engineering (ICOASE)* (pp. 518-523). IEEE.
- Karam, Z.A., Ghintab, S.S. and Al-Kadhimi, A.M., 2018, December. *Intelligent Fuzzy PD Controllers Design for XY Table of Semiconductor Packaging Based on ALO*. In *2018 Third Scientific Conference of Electrical Engineering (SCEE)* (pp. 162-167). IEEE.

B.Sc. Students Projects Supervision

- Wireless Networks Planning with LTE/UMTS Technologies Applied in Iraq.
- Deployment of Computer Networks Security with Virtualization Using IPS.
- Wireless Communication Channel Identification Using Adaptive Algorithms.
- IoT Based Healthcare Monitoring System

Extra Skills and Achievements

Technical Skills:
- Computer networks design and troubleshooting
- Virtualization
- Modelling and simulation
- Fabrication and measurements
- MATLAB, Simulink and C programming
- Routers and switches installation and troubleshooting
- ASA firewall and IPS appliance management
- Technical report writing

CAD Software:
- Microwave Design (CST, HFSS); Networking **(**EVE, GNS3**,** WireShark); Communication system design/planning (ADS, WiMAP); Drawing/Layout (SolidWorks, AutoCAD)

Languages:
- Arabic: Native
- English: Fluent; I have attended English language courses for 8 months at the Language Centre of the University of Leeds/UK. The courses were involving some skills such as report preparation, formal academic writing, critical thinking and presentation.

Achievements:
- Awarded a scholarship by the Higher Committee for Education Development in Iraq (HCED). I granted a fully-funded scholarship to pursue my master's degree in the UK.
- Elected to be a student representative at the University of Leeds in academic year 2014.
- Ranked 2nd in my MSc study with a First-Class Honours (Distinction) Classification, the University of Leeds, UK.
- Awarded a couple of Praising Letters by the President of Al-Nahrain University for my contribution as a member of the Exam Committee at my school.

Certificates:
- Leeds University Friendship Letter
- Cisco Certified Network Associate CCNA.
- MikroTik Certified Network Associate MTCNA.
- Knowledge of Cisco Certified Network Associate CCNA Security.