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Passport No: P 00427233.
Date of Birth: 07th November 1986.
Place of Birth: Muscat, Sultanate of Oman.
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Religion: Islam.
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EDUCATION

2012-2013	University of Nottingham – United Kingdom (Nottingham). Faculty of Electrical & Electronic Engineering. MSc in Electronic Communications & Computer Engineering (Hons), **With DISTINCTION Award** (All semesters achieved consecutive DEAN'S LIST result) **Graduation & Availability:** December 2013.
2004-2009	Sudan University of Science & Technology – Sudan (Khartoum). Faulty of Engineering, Electronics Department. Bachelor of Communications Engineering (Honour), **CGPA: 3.33 – First Class Degree** (All semesters achieved consecutive DEAN'S LIST result) **Graduation & Availability:** October 2009.
2001-2002	Muscat Certificate of Secondary School, achieved 96.18%.

Soft Skills

- **Office Tools:** Microsoft Office Word, Excel and Power Point.
- **Graphic Design:** Proteus & multisim.
- **Engineering software:** NS2,C++ , MATLAB, C and Mirco C, LISP AI Language , CISCO Packet Racer.
- **Programming languages:** Assembly Language Programming and VHDL.
- **Others:** Computer maintenance, Acrobat Reader, Movie Maker, Corel Drawing.

WORK EXPERIENCE

1) Working at Electronic Systems Research Centre in National Telecommunications Corporation (NTC)

Work Description: Handling duties and responsibilities under the Electronic Systems Research Centre, National Telecommunication Corporation NTC. Major duties are:

- Technical and academic support for final year students' Graduation projects, Department of Engineering Communications, Faculty of Engineering, Sudan University of Science and Technology.
- Assistant lecturer on part-time basis, Department of Engineering Communications, Faculty of Engineering, Sudan University for Science and Technology.
- **Lead a project titled** *"A PROPOSAL OF A SUDANSES SATELLITE: SUDASAT".*
- Working as assistant researcher to design and plan Library RFID Management System.

Period: **from 01/Nov/2009 to 30/Jan/2011**

2) Working at Sudan University of Science & Technology, School of Electronics Engineering (Communications & Computer Departments), Faculty of Engineering,

Work Description: Handling responsibilities under School of Electronics Engineering (Communications & Computer Departments), Faculty of Engineering. Major duties are:

- Working as a lecturer in Communications & Computer Departments teaching the following modulus:
  1. Digital Signal Processing (DSP).
  2. Digital Image Processing (DIP).
  3. Artificial Intelligence (AI).
  4. Analog Communications.
  5. Programming by MATLAB & its Applications.
  6. Optical Fiber Communications Systems.
  7. Basic of Electronics Engineering.
- Supervisor for final year students BSc Graduation projects.
- **A Head of** *"ACCREDIDATION & TRAINING DEPARTMENT"* **in faculty of Engineering,** Supervisor for engineering training courses for students inside & outside the university.
- Supervisor and administrator of university webpage and responsible of making any updating for this website.

Period: **from 01/Nov/2009 to present**

TRAINING & COURSES

15/ 01 /2014 – 28 / 1 / 2014	CCNA Course – JELECOM, Sudan.
10/ 11/2013 – 14/ 11/ 2013	VSAT and Satellite Systems Workshop – ITU Centers of Excellence, Sudan.
07 /10 /2008 – 10 /10/ 2008	Technical training on wireless communication system design and microcontroller applications – UPM University, Malaysia.
13 / 04 / 2008 – 08 / 05 / 2008	VSAT – Sudatel Telecommunications Academy, Sudan.
08 / 09/ 2007 – 27/ 09 / 2007	Training courses in (Communication: HF/ VHF, Navigation: VOR/DME, ILS, Computer) – Civil Aviation Authority, Sudan.

BSc FINAL YEAR PROJECT

Graduation Project (Final Year) Title: "*Cooperative Relaying Communication in 4G Cellular Mobile Systems*".
Project Description: This project investigates a single relay system that aims for a reliable communication. The main goal is to study the feasibility of the proposed single relay cooperative transmission in the mobile environment, and evaluate it with respect to the direct link transmission. Both systems are presented and a comparison in terms of bit error rate (BER) reveals that the single relay system performs better. The proposed single relay system needs an efficient coding technique to improve the performance in terms of reliability. Therefore, a STBC as a coding technique is proposed, and the results proved that the proposed technique decreases the BER.

This research have been awarded wining prizes best seminar from Association for the Promotion of Science Innovation (APSI) in wireless applications (2010).

MSc PROJECT

MSc Project (3th Semester) Title: "*Evaluation of Ultrasound Techniques for Testing Wire Aging in Aircraft*".
Project Description: Nowadays, aging aircraft wires has become a crucial issue in the world of aircraft industry due to aircraft incidents and failure. This problem appeared over the time when the wire insulation becomes brittle and cracks and causes short circuits and fires in the aircraft wires. Thus, the aviation industry is looking forward for a reliable inspection techniques or methods to quantify aging aircraft wire insulation and to improve the reliability of the aircraft wiring. In the past, the traditional inspection methods that were used to evaluate aging wire are focusing on the application of electrical sensing techniques. Unfortunately, those techniques are sensitive to the condition of the conductor instead of condition of the wire insulation. This dissertation investigates the possibility of applying long inspection technique based on ultrasound guided wave for aging wire on aircraft. The proposed system uses guided wave and consists of a cylindrical geometry of waveguide that surrounds another material which have acoustic properties that should be determined. Where, the material properties can be determined according to the change in speed and attenuation of the wire by plotting the dispersion curves of guided wave. The main idea is to apply ultrasound guided wave to propagate along the wire. Where the wire is embedded, the guided wave can be characterised according to the material properties of the wire. Thus, an inspection for the aging wire can be achieved in order to prevent the aircraft from failure or damage.

EXTRA-CURRICULAR AWARDS

Awards Received

- Several appreciation certificates for superior academic performance in primary, elementary and secondary school.
- Overseas scholarship by the Development Solution Scholarship of International Office (University of Nottingham) – 2013.
- Award winning prizes best seminar from Association for the Promotion of Science Innovation (APSI) in wireless applications.
- Participating in WICOM 2011 Conference in Wuhan (China) with paper about The Performance of Cooperative Distributed Space Time Block Codes (DSTBC) in Wireless System.
- Reviewer of IEEE scientific papers for ICCNEEE2015 Conference in SUDAN and Attending as a chairman of wireless track.

REFERENCES

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