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Sex M| Date of birth 12/05/1975 | Nationality Sudanese

JOB APPLIED FOR Faculty Member
POSITION Tenure-track
PREFERRED JOB Teaching courses related to computer engineering and electronics.
PERSONAL STATEMENT **Entrepreneur, researcher, and assistant professor focused on computer engineering, robotics, and embedded systems. Currently, seeking for a faculty position within a world-class university.**

WORK EXPERIENCE

2016 - Now

✓ **University of Khartoum. Khartoum-Sudan.**
- College of Postgraduate. Assistant Professor (**part time**).Teaching Advanced Digital Design.

2011-2012

✓ **BAYAN College for Science and Technology. Khartoum-Sudan.**
- Department of electronics systems and engineering. Assistant Professor (**part time**).
  - Teaching instrumentation, power electronic courses.
  - Supervising of final year projects.

2010 – Now

✓ **Karary University. Omdurman-Sudan.**
- College of Engineering and Postgraduate College. Assistant Professor (**part time**), teaching embedded systems Design, and Applied Cryptography, **(2017-now).**
- Manager of Information Security Department, Communication and Information Security Research Centre, (**full time**). This department has two research laboratories. One is concerned with design and implementation of cryptographic algorithms in PLD devices. The other laboratory concerned with systematic test and evaluation of mainstream encryption systems, **(2014-2016).**
- College of Engineering and Postgraduate College. Assistant Professor (**full time**), with the following responsibilities:
  - Teaching different computing, and electronics disciplines.
  - Supervising of final year projects.
  - Engaged in many department committees.
  - Carry out research and produce publications **(2010-2016).**

EDUCATION AND TRAINING

2007-2010

✓ **Vladimir State University. Vladimir-Russian Federation.**
- PhD, System Analysis, Controlling, and data processing (in industry) (no: 05.13.01). Dissertation Title: *Mathematic and algorithmic software development for automatic signature verification.* 14/January/2010.

2004-2006

✓ **Vladimir State University. Vladimir-Russian Federation.**
- M.Sc. Computer Engineering and Information. Dissertation Title: *Soft-hardware realization of DSP algorithms in programmable logic devices.* 12/June/2006.

1995-2000

✓ **Karary University. Omdurman-Sudan.**
- B.Sc. (Honor) Computer Engineering and Systems – Second Class Division one (3.85 out of 5.00). Dissertation Title: *Development of warehouse control system using Oracle and PL/SQL*.11/November/2000.

PERSONAL SKILLS

Mother tongue(s) **Arabic**

Other language(s)

UNDERSTANDING		SPEAKING		WRITING
Listening	Reading	Spoken interaction	Spoken production	
B2	B2	B2	B2	B2

ENGLISH

Organisational / managerial skills

- Organizer of International Data privacy day Champion, National Cyber Security Alliance and National Information Center, Khartoum-Sudan, 2019.
- Co-Chair of Technical Committee for ICCCCEE International Conference. Karary University, 2017.
- Track co-chair/chair for many IEEE International Conferences held in Khartoum-Sudan, 2013-2019.

Communication skills
- Strong speaking, listening communication skills.

Core competencies

Innovative, Team Player, Attentive, Active Listener, and Collaborating.

RESEARCH EXPERIENCE

Citations

More than **45 citations** Scholar index **h-index = 4**

Supervision of MSc and PhD
- Supervised about fourteen thesis of postgraduate students.

Auditing & Reviewing
- Reviewing and auditing many scientific papers, and thesis of undergraduate and graduate students.

Funded Projects
- Project manager for about five industrial and funded projects that are implemented successfully.

Professional Development
- Attended the 19th Conference on Cryptographic Hardware and Embedded Systems, International Association for Cryptologic Research, Taipei-Taiwan, 2017
- Attended the tutorial “Post-Quantum Cryptography for Embedded Systems”, Tim Güneysu, Taipei-Taiwan, 25 Sep. 2017.
- Attended the 20th Conference on Cryptographic Hardware and Embedded Systems, International Association for Cryptologic Research, Amsterdam the Netherlands, 2018.
- Attended the tutorial “Counterfeit Integrated Circuits: Threats, Detection, and Avoidance”, Domenic J. Forte (University of Florida) and Rajat Subhra Chakraborty (Indian Institute of Technology, Kharagpur), Amsterdam the Netherlands, 9 Sep. 2018.
- Attended the Riscure User Workshop, Amsterdam the Netherlands, 13–14 Sep. 2018.

Invited talks
- sdNOG 6 meeting, “Data Brokers Are Watching You”, Khartoum-Sudan, 31 Oct. 2019

TEACHING PROFILE

Teaching, undergraduates and graduates, courses Coordination Responsibilities (2010-now)
- Digital Circuits.
- Digital Systems Design using VHDL.
- Embedded systems Design Using Microcontrollers.
- Microprocessors Design and Assembly Language.
- Information security using Python.
- Understanding Cryptography.
- Object Oriented Programming using C++ and JAVA.
- High level Programming Techniques.

Hardware and Software Development Tools I’m using in my Lectures
- Texas Instruments: eXpressDSP software development tools, DSP Starter KIT- TMS320C6455, Code Composer Studio IDE
- Analog Devices: CROSSCORE Development Tools, TS210S-EZLITE, VISUALDSP++ for TigerSHARC Processor Family
- XILINIX FPGA: Virtex-6 FPGA Embedded Kit, Xilinx Zynq-7000 SoC ZC706 Evaluation Kit, ISE, Vivado 2016.3.
- FEEDBACK training kits: digital circuits, interfacing, assembly, Intel microprocessor
- PIC Microcontroller training kit: based on PIC16F1789, Write programs in assembly and C, using MPLAB X professional IDE.
- NewAE Technology: ChipWhisperer lit CW1173, chipwhisperer-0.10RC1, WinPython
- Engineering CAD Software: Proteus, MATLAB, Altium Designer, and Elektronika.

Honor and awards
- Membership of International Association of engineers (**IA ENG**), since 2019.
- Membership of International Association for Cryptologic Research (**IACR**), since 2017.
- Best scientific paper award, presented and published in ICCNEE 2015 International Conference, Khartoum-Sudan, 2015.
- Internship at Karary University with CETC-SCI team help, Omdurman-Sudan, Information Security Strength Evaluation, June-July 2013.
- Internship at CETC-SCI, Chengdu-China, Systematic Test and Evaluation of Mainstream Encryption System, April-May 2012.
- Internship at Karary University, Improving Teaching Staff Performance. February-March 2012.
- scholarship for Ph.D., Ministry of Education and Science, Russia Federation 2007-2010
- scholarship for M.Sc., Ministry of Education and Science, Russia Federation 2004-2006
- Membership of Sudanese Engineering Society (**SES**), since 2001.
- Academic achievement award, bachelor program, Electrical and Computer Engineering Department, College of Engineering, Karary University, Khartoum-Sudan. 2000.

Digital skills

SELF-ASSESSMENT				
Information processing	Communication	Content creation	Safety	Problem solving
PROFICIENT USER	PROFICIENT USER	PROFICIENT USER	PROFICIENT USER	PROFICIENT USER