

Curriculum Vitae

Moutaman Mirghani Daffalla Elbasheer

Institute of Space Research and Aerospace (ISRA)

National Center for Research (NCR)



www.sites.google.com/site/moutamanpage

PROFILE

Currently, I am an Associate Research Professor at the National Center for Research (NCR), and the Director of the Institute of Space Research and Aerospace (ISRA).

Before, I was an Associate Professor at Karary University, where I taught both undergraduate and postgraduate students and participated in many academic and scientific committees. In addition, I directed two research centers prior to ISRA.

I have excellent skills in research, teaching and industry. I have published two textbooks for students in Arabic, as well as a number of papers and articles on several periodicals and journals and have supervised many research dissertations.

EDUCATION

- **Ph.D., Electrical Engineering**, University of Khartoum, 2009, Dissertation: *Radar Signal Coding, Approach Applying DSP.*
- **M.Sc., Electrical Engineering**, University of Khartoum, 1998, Dissertation: *Automation of Manually Operated Radar.*
- **B.Sc., Electrical Engineering**, University of Khartoum, 1989, Dissertation: *Design of Frequency Hopping Modulator.*
- **Sudanese Certificate**, Al-Moutamar High Secondary School, 1984, Major Theme: Science and Mathematics.

HONORS AND AWARDS

- Best Paper in ICCEEE 2013 Conference, IEEE Sudan Subsection, Aug 2013.
- Telecom Prize for the Best Graduated Student in Telecommunications Engineering from the University of Khartoum, Nov 1989.

TEACHING POSITIONS

- **Associate Professor**, Karary University, March 2011 – Dec 2013.
- **Assistant Professor**, Karary University, March 2005 – March 2011.
- **Lecturer**, Karary Academy of Technology, Oct 2002 – March 2005.
- **Teaching Assistant**, University of Khartoum Nov 1989 – April 1990.

ENGINEERING POSITIONS

- **Systems Engineer**, Vega Aeronautics and Engineering Systems Company, MIC-Sudan, July 1998 - Oct 2002.
- **Researcher**, Research Department, Military Industry Corporation (MIC), Sudan, Aug 1994- July 1998.
- **Engineer**, Rudwan Contractors Co., Khartoum, March 1993 - Aug 1994.
- **Electrical Engineer**, Beverage Company, Tripoli-Lybia, May 1990- Feb 1993.

ADMINISTRATIVE POSITIONS

- **Director**, Institute of Space Research and Aerospace, National Center for Research, Ministry of Higher Education and Scientific Research, since 2013.
- **Director**, Communication and Navigation Research Center, College of Engineering, Karary University, 2008 - 2012.
- **Director**, Nile Center for Technical Research (NCTR), Formerly Nile Electronic Systems Center, Sudan, 2005 - 2007.
- **Technical Manager**, Modernization of the Air Defense Surveillance Radar Network Project, Sudan A/D and MIC-Sudan, 2000-2002.
- **Head**, Systems Department, Vega Aeronautics and Engineering Systems Company, MIC-Sudan, 1998 - 2002.
- **General Secretary**, Engineering Society of Students, Faculty of Engineering, University of Khartoum, 1987.

EXECUTIVE CONTRIBUTIONS

- **Rapporteur**, Remote Sensing and Space Technology Theme, 10th Scientific Conference of National Center for Research, Khartoum, 1-3 Dec 2015.
- **Chair**, Embedded Systems Track, ICCNEEE15, 2nd IEEE Conference, Khartoum, 7-9 Sept 2015.
- **Member**, Executive Committee for the Agreement between Sudan and South Africa on Scientific and Technological Cooperation, 2015.
- **Chief**, Committee of Employment, National Center for Research, 2014.

ACADEMIC CONTRIBUTIONS

- **Member**, Committee of Avionics MSc/PhD Program Syllabus, School of Aeronautics, Sudan University of Science and Technology, 2014.
- **Main Reviewer**, BSc of Electronics Curriculum of Sudan International University, Ministry of Higher Education, 2013.
- **External Examiner**, Avionics Department, School of Aeronautics, Sudan University of Science and Technology, 2010-2015.
- **Member**, Committee of Evaluation of BTech Program in Sudan University of Science and Technology, Ministry of Higher Education, 2013.
- **External Examiner**, Department of Electronic and Electrical Engineering, International University of Africa, Khartoum, 2012.
- **Member**, Committee of Evaluation of Space and Communication College Programs in Future University, Ministry of Higher Education, 2010.

- **Member**, Committee of Evaluation of Kenana Technical College Engineering Diploma Programs, Engineering Council, July 2010.
- **Member**, Committee of Evaluation of Geraif Technical College Engineering Diploma Programs, Engineering Council, April 2010.
- **Chief**, Committee of Air Defense Diploma Syllabus, Technical College, Karary University 2008.
- **Member**, Committee of Marine Studies Bachelor Program Syllabus, Marine Studies College, Port Sudan, 2008.
- **Chief**, Committee of Evaluation Rules for Graduation Projects, Electrical Engineering Department, Karary University, 2007.
- **Member**, Committee of Electronics BSc Program Syllabus, Electrical Engineering Department, Karary University, 2007.
- **Chief**, Committee of Communications and Radar BSc Programs Syllabus, Electrical Engineering Dept., Karary University, 2007.
- **Member**, Joint Committee of Air Defense Bachelor Program, Karary Academy of Technology and Air Defense College, 2004.
- **Member**, Committee of Communications MSc Program Syllabus, Electrical Engineering Department, Karary Academy of Technology, 2003.
- **Member**, Joint Committee of Technical College Syllabus, Karary Academy of Technology and Military Industry Corporation, 1998.
- **Coordinator**, Committee of Electrical Engineering Department Syllabus, Karary Academy of Technology, 1996.

TECHNICAL CONTRIBUTIONS

- **Technical Consultant and Research Advisor**, Nile Center of Technology Research (NCTR), 2008 - Present.
- **Member**, Technical Recruiting Committee for Safat Aviation Complex, Safat Aviation Company, MIC-Sudan, April 2010.
- **Technical Consultant**, Project Commissioning Technical Team, Surveillance Radar Network Project, Air Defense, Sudan, 2002-2005.
- **Member**, Technical Committee of Radar Network Tenders, Ministry of Civil Aviation, Sudan, 2001.
- **Member**, Project Commissioning Technical Team, Khartoum Airport Radar Project, Civil Aviation Authority, Sudan, 1997.

AFFILIATIONS AND ASSOCIATIONS

- **Academic Member**, Athens Institute for Education & Research (ATINER), 2016.
- **Member**, Institution of Electrical and Electronic Engineers (US), [MIEEE](#), 2011.
- **Member**, Institution of Engineering and Technology (UK), [MIET](#), 2006.
- **Chartered Engineer**, Engineering Council (UK), [CEng](#), 2002.
- **Member**, Institution of Electrical Engineers (UK), [MIEE](#), 2002.
- **Associate Member**, Institution of Electrical Engineers (UK), [AMIEE](#), 2001.
- **Member**, Sudanese Union of Engineers, 2000.

TRAINING COURSES

- Theory and Principles of Electronic Warfare, CETC Co. Ltd., China, 2012.
- TI Digital Signal Processors, GNH Software Co., Bangalore, India, 2012.
- BL-904 Radar System, Norinco Company, Xian, China, 2005.
- Digital Signal Processing, Accelerated Systems Co, India, 2004.
- Microcontrollers and VHDL, Indian Institute of Science (IISc), Bangalore, 2001.
- Computer Interfacing for Control, Jordanian University, Jordan, 1998.
- ATC PSR/MSSR Instructors Course, Marconi College, Chelmsford, UK, 1996.
- Dual Surveyor and Messenger Radars, Marconi College, UK, 1996.
- SA2 Radar System, Air Defense Institute, Port Sudan, Sudan, 1995.
- P12 Search Radar, Sudan Air Defense, Omdurman, Sudan, 1994.
- Electrical Installations, Arab Contractors Co., Cairo, Egypt, 1988.
- Aeronautical Engineering, Sudan Air Force Institute, Omdurman, 1988.

COMPUTER SKILLS

- MATLAB and Simulink.
- C/C++ Programming.
- Visual Basic (Proficiency from BrainBench Skills Authority).
- Intel 8051 Assembler using μ Vision.
- Code Composer Studio and VisualDSP++.
- EDA Tools (Proteus, OrCad, Multisim).
- Microsoft Office.

REFERENCES

- Prof Mohamed Ali Hamad Abbas, Faculty of Engineering and Arch, University of Khartoum, mohabb@hotmail.com, Tel: +249-924305594.
- Prof Sami Mohamed Sharif, Faculty of Engineering and Arch, Khartoum University, smsharif@uofk.ed, Tel: +249-912307260.
- Prof Sharief Fadul Babikir, Faculty of Engineering and Arch, University of Khartoum, shariefbabikir@gmail.com, Tel: +249-914587764.
- Prof Shambuol Adlan Mohamed, Dean College of Engineering, Mogtaribeen University, drshamboul@gmail.com, Tel: +249-912304760.
- Prof Abdel Rahim Mohamed Hamad Satti, Principal, Mogtaribeen University, asatti_99@yahoo.co.uk, Tel: +249-918416445.