



ABOUT ME


An Associate Professor, Experienced Engineering Manager/Consultant with over 24 years of working knowledge and skills in the Satellite and Telecommunications Industry Sector and Value Chains including Experience in Applying Design and Application for realization of United Nations Sustainable Development Goals in Africa.

Lasisi Salami LAWAL

Nationality: Nigerian (Nigeria)

Gender: Male


CONTACT

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 lawal.lasisi.salami (**Skype**)

EDUCATION AND TRAINING

14/04/2011 – 14/10/2014 Brighton, United Kingdom

PhD in Engineering University of Sussex

Address Falmer-Brighton, BN1 9RL, Brighton, United Kingdom |

Website www.sussex.ac.uk

14/09/2009 – 14/10/2010 Brighton, United Kingdom

MSc (Distinction) in Satellite Communications and Space Systems University of Sussex

Address Falmer-Brighton, BN1 9RL, Brighton, United Kingdom |

Website www.sussex.ac.uk

14/10/2005 – 14/01/2007 Beijing, China

Professional certificate in Communications Satellite and Satellite technologies Shenzhou Institute, China Academy of Space Technology

Address Beijing, Beijing, China | **Website** <https://www.cast.cn/english>

14/04/2004 – 14/06/2006 Minna, Nigeria

Post Graduate Diploma in Business Management Technology Federal University of Technology, minna

Address Main Campus, Gidan Kwanu, 920232, Minna, Nigeria |

Website www.futminna.edu.ng

14/06/1994 – 14/09/1999 Minna, Nigeria

B.Eng in Electrical and Computer Engineering Federal University of Technology, Minna

Address Main campus, Gidan Kwanu, 920232, Minna, Nigeria

14/06/2011 – 14/10/2016 Nsukka, Nigeria

MEng in Telecommunications Engineering University of Nigeria

Address Nsukka, 410002, Nsukka, Nigeria | **Website** www.unn.edu.ng

14/02/2019 – CURRENT Nsukka, Nigeria

MBA (in view and Course Work Completed) University of Nigeria

Address Nsukka, 410002, Nsukka, Nigeria | **Website** www.unn.edu.ng

WORK EXPERIENCE

02/08/2023 – CURRENT Sokoto, Nigeria

Visiting Associate Professor Usmanu Danfodiyo University

Teaching, Research in Information and Communications Engineering (ICE) Department, Faculty of Engineering and Environmental Design (FEED) and Community Service. Teaching includes Satellite Communications, Control Systems, Antenna & Propagation. Research and Research tools includes Aeronautics and Astronautics 2.0, Cubesat & Pocketsat, use of Matlab & Simulink and Fusion of Artificial Intelligence and use of AI tools such as TensorFlow, PyTorch, Weka etc. Produced Graduates of Engineering Knowledge that can apply knowledge of mathematics, science, engineering fundamentals and an engineering specialization to the solution of developmental and complex engineering problems.

08/04/2021 – CURRENT Abuja-FCT, Nigeria

Acting General Manager, Directorate of Technical Services and Head of Department, Navigation Nigerian Communications Satellite Ltd

- Senior Management Team in the Directorate of Technical Services and the company.
 - Project Manager for the Implementation of Satellite Based Augmentation System (SBAS) as well as drive sensitization exercise and demonstration to facilitate acceptance and adoption of SBAS Technologies in Aviation Sector at Continental Level and Non-Aviation Sectors such as Maritime, Civil Engineering, Survey, Rail Transport etc.
 - System Design, solutions and applications in line with corporate objectives, mission, vision and mandate of the company.
- Pursuit of innovations, creativity and optimization of services and technology applications through research, collaboration and partnerships with research institutes, Universities, industries etc.
- Applying Design and Application of Telecommunication Systems.

17/11/2023 – CURRENT Geneva, Switzerland

Vice-Chair, International Telecommunication Union Radiocommunication (ITU-R) Satellite Study Group 4 (SG-4), 2023-2027. International Telecommunication Union (ITU)

To support the Chair of SG4 group of ITU for the period from 2023 to 2027 with study group activities concerning Systems and networks for the fixed-satellite service, mobile-satellite service, broadcasting-satellite service and radiodetermination-satellite service. The group has three Working Parties (WPs) on studies concerning the followings:

- 1.WP 4A Efficient orbit/spectrum utilization for the fixed-satellite service (FSS) and broadcasting-satellite service (BSS).
- 2.WP 4B Systems, air interfaces, performance and availability objectives for the fixed-satellite service (FSS), broadcasting-satellite service (BSS) and mobile-satellite service (MSS), including IP-based applications and satellite news gathering (SNG).
- 3.WP 4C Efficient orbit/spectrum utilization for the mobile-satellite service (MSS) and the radiodetermination-satellite service (RDSS).

12/12/2018 – CURRENT Abuja, Nigeria

Nigerian Project Manager, Satellite Based Augmentation System Nigerian Communications Satellite Ltd

Satellite Based Augmentation System (SBAS) Co-operative Agreement with Thales Alenia Space (TAS, France) and NIGCOMSAT Ltd with Agency for Aerial Navigation Safety in Africa and Madagascar (ASECNA) as a potential Business Partner.

To cooperatively implement and characterize the capacity of NIGCOMSAT-1R SBAS Payload with 9m Antenna earth station and related ground infrastructure with test-bed trials geared towards *facilitating Acceptance and Adoption of SBAS Technology in Africa's Aviation Sector with SBAS Flight Demonstrations across African Countries.*

Business or Sector Professional, scientific and technical activities | **Department** International/Multilateral Cooperation on SBAS for Africa

14/07/2014 – 08/04/2021 Abuja, Nigeria

Assistant General Manager, Satellite Applications and Development Nigerian Communications Satellite Ltd

- Senior Management Staff in the Directorate of Engineering Services and the company.
- Project Manager for the Implementation of Nigerian Satellite Augmentation System (NSAS).
- Applying Design and Application of Telecommunication Systems.

■ System Design, solutions and applications in line with corporate objectives, mission, vision and mandate of the company.

Pursuit of innovations, creativity and optimization of services and technology applications through research, collaboration and partnerships with research institutes, Universities, industries etc.

14/05/2008 – 14/09/2014 Abuja, Nigeria

Technical Assistant to MD/CEO of NIGCOMSAT Ltd Nigerian Communications Satellite Ltd

Assisting MD/CEO on technical matters in line with corporate objectives and mandate of the company.

31/12/2006 – 14/10/2011 Abuja, Nigeria

Assistant Manager (AM), Deputy Manager (DM). and Manager, Satellite Applications Nigerian Communications Satellite Ltd

1. Supervision of day-to-day operations of the Network Operations Center (NOC) and Spacecraft Control Center (SCC).
2. Business solutions, applications and demonstration through pilot projects for clients, Government agencies and private sector exploiting NIGCOMSAT-1R COMSAT and Ground infrastructure.
3. Link budget computations, System design and VSAT deployments for Satellite service delivery.
4. Carrier Spectrum Management and Monitoring
5. Interpersonal roles, information role and liaison between management team and technical staff
6. Satellite System Engineer, Payload specialist and participation in the day-to-day operations of Network Operations Center (NOC) and Spacecraft Control Center (SCC).
7. Team Leader, NIGCOMSAT-1 Project Office-Beijing: Coordination of activities of field officers of NIGCOMSAT-1 Project Office-Beijing, China on behalf of the project manager, Progress and Daily update of NIGCOMSAT-1 Spacecraft, Update of meetings with various sub-contractors of NIGCOMSAT-1 project and its reviews, launch campaign activities, launch and post launch of NIGCOMSAT-1 Spacecraft to ensure qualitative workmanship and successful launch.
8. Field Officer, NIGCOMSAT-1 Project Office-Beijing: Working in collaboration with consultants(TELESAT) to monitor and supervise over \$200 Million Satellite project covering Integration, Assembling and Test including Launch campaign activities.
9. Monitored, supervised and participated in activities involving In-Orbit Test (IOT) of the launched NIGCOMSAT-1 Spacecraft and other post launch activities.

Business or Sector Information and communication | **Department** Communications Satellite Services and Satellite Operator | **Address** Obasanjo Space Center, Airport Road, Lugbe,, P.M.B 647, Area 10, Garki, 900107, Abuja, Nigeria |

Email lasisi@nigcomsat.gov.ng | **Website** www.nigcomsat.gov.ng

PROJECTS

National and International Projects and Assignments

Vice-Chair, International Telecommunication Union Radiocommunication (ITU-R) Satellite Study Group 4 (SG-4) 2023-2027.

NIGCOMSAT-2 Project Payload & Applications Line Manager. April, 2021 to Date.

Nigerian Project Manager, Satellite Based Augmentation System (SBAS) Co-operative Agreement with Thales Alenia Space (TAS, France) and NIGCOMSAT Ltd with Agency for Aerial Navigation Safety in Africa and Madagascar (ASECNA) as a Potential Business Partner December, 2018 to Date with Real SBAS flight Demonstrations and SBAS outreach in Togo, Cameroun and Nigeria and Non-Aviation Applications in Congo.

Contract Expert(H2020-ICT-2020-2) to Research Executive Agency (REA) of European Commission, 2020

Vice Convener, ITU Resolution 609 Consultation Meeting, September, 2016 to 2019.

LOC Chairman/Vice Convener, 15th ITU Res. 609 CM and Radionavigation Satellite Service(RNSS) Symposium held on 2nd-5th October, 2018 at Abuja-Nigeria.

Member, ICT Systems Thematic Group, The Science and Technology Policy Commission (STPC) of Nigerian Economic Summit Group (NESG).

Board Member, Engineering Bureau Services Board of Nigerian Society of Engineers (NSE),2018 to 2020

Member, Technical Audit Committee on ICT, Training and Capacity-Building of Nigeria Police Force (NPF), November, 2014.

Standing Committee Member on Communication Satellite of the National Frequency Management Council (NFMC), Nigeria. Since 2012.

Member, Joint Committee at Federal Ministry of Communication Technology on free use of GLONASS (Russian GNSS System) by the Government of Russian Federation. January, 2014.

Member, ICT Technical Working Group of the National Integrated Infrastructural Master Plan (NIIMP) for 30 years (2014-2043) at the instance of National Planning Commission March, 2013.

Member, Stakeholders' forum on E-Governance Strategy for the Security sector by National Planning Commission (NPC); July, 2013.

Member, Committee on Assessment of National Communications/Surveillance Assets of Military and Paramilitary Agencies at the Office of the National Security Adviser (ONSA). November, 2011.

Project Field Officer, Payload and Satellite Systems Engineer at NigComSat-1R Project Office-Beijing: Monitoring and supervising the over \$200 Million satellite project covering Integration, Assembling and Test (System, subsystems and units) including Launch Campaign activities of NIGCOMSAT-1R Communication spacecraft to ensure qualitative workmanship and successful launch. November, 2010.

Project Consultant for upgrade and implementation of 100kW Transmitter at Radio Al Fayda 90.1MHz FM Station, Kaolack, Senegal.

Project Team Leader, NIGCOMSAT-1 Project Office-Beijing: Co-ordination of activities of Field Officers of NIGCOMSAT-1 Project Office, Progress and daily update of NIGCOMSAT-1 Spacecraft project, Interface meetings and reviews with various sub-contractors of the spacecraft project, launch campaign activities, launch and Post-launch support. January, 2007

● **Field Officer, NigComSat-1 Project Office-Beijing**

working in collaboration with consultants (TELESAT) to monitor and supervise Integration, Assembling and Test of NIGCOMSAT-1 to ensure qualitative workmanship. June, 2006.

● **Resource Person, Council for the Regulation of Engineering in Nigeria (COREN).**

Accreditor to Engineering Programmes of Universities and Board Member, Engineering Regulation Monitoring and Enforcement (ERME) & Chair, Aerospace & Aviation Sector on behalf of the Council of the Regulation of Engineering in Nigeria (COREN).

Senior Research Fellow, Advanced Engineering Innovation Research Group (AEIRG), Department of Mechatronics Engineering, Federal University of Technology, Minna -Niger State, Nigeria.

Honorary Senior Research Fellow, Department of Mathematics and Computer Science, Summit University, Offa-Kwara State.

● **International Advisory Board Member**

International Conference on Computer, Communication and Control Technology (I4CT), 2015

Editorial Board Member, American Journal of Engineering and Technology Management <http://www.ajetm.org/editorialboard>

17/03/2022 – CURRENT

● **Editorial Board Memembr of Nigerian Society of Engineers' Magazine**

Responsibilities of the Editorial Board Committee include but not limited to:

- To uphold the editorial policy by dictating the tone and focus of The Nigerian Engineer magazine
- To coordinate collation of editorial content and ensure timely publication of the magazine as well as the Society's periodic e-newsletter.
- To develop strategies to attract Advertisements and Special Features materials to generate funds and make the magazine self-financing.
- To ensure that the magazine is produced to meet the highest standard of quality in richness and technical accuracy of content, as well as in design and production.
- To submit a quarterly report to the Corporate Services Board on its activities.

DIGITAL SKILLS

Microsoft Word | Microsoft Excel | Outlook | Microsoft Powerpoint | Microsoft Office | Social Media
Zoom | Skype | Google Docs | LinkedIn | Organizational and planning skills | Good listener and communicator | Team-work oriented | Written and Verbal skills | Instagram | MATLABSimulink | Satellite Tool Kit | Satellite Database
Satellite Geodesy | Crowd Marketing and online Networking | interaction through digital platforms | online marketing platforms | Microsoft Visio | microsoft Project | Satsoft Satellite Software | Good Communication Skills

NETWORKS AND MEMBERSHIPS

● **Professional Memberships**

Fellow, Nigerian Society of Engineers (FNSE;19408)

Fellow, The Nigerian Institute of Electrical and Electronic Engineers (NIEEE; 00499)

Fellow, Nigerian Institute of Space Engineers (FNISEng)

Fellow, African Scientific Institute (FASI)
Fellow, The Institute of Management Consultants (FIMC.ABJ.1963.18)
Member, Council for the Regulation of Engineering in Nigeria (COREN R. 16,264)
Senior Member and Life Member, American Institute of Aeronautics and Astronautics (SMAIAA 417701)
Senior Member, Institute of Electrical and Electronic Engineers (MIEEE 90454403)
Member, International Institute of Communications (ICC #39869)
Member, Nigerian Institute of Management (MNIM 259690)
Member, Certified Management Consultant (CMC)
Member, Engineering Council of UK; Chartered Engineer (CEng; 590976)
Member, Project Management Institute (MPMI; 1524520)
Member, The Institution of Engineering and Technology (MIET 1100111798)
Professional Member, Society of Satellite Professionals International (MSSPI 6838516)
International Member, National Space Society (MNSS 2090295)
Member, Royal Aeronautical Society (MRAeS 2001490)
Member, International Association of Engineers (MIAENG 156941)
Member, Society of Manufacturing Engineers (MSME 14496648)
Member, Association of Computer Machinery (ACM 8999063)
Member, Institute of Electrical Engineers UK (MIEE 35199263)

HONOURS AND AWARDS

Honours and Awards

Distinguished Lecturer Award by Nigerian Society of Engineers (Giri Branch) for Maiden edition of Engr. Mrs. Aishatu Aliyu Umar Distinguished Lecture with Theme as : Application of Space Technology; A tool for enhancing National Security; 19th August, 2019.

Second Best Position Award in Capacity Building Program for Directors, Deputy Directors and Assistant Directors of MDAs by Korea International Cooperation Agency (KOICA) and Federal Ministry of Communications and Digital Economy at Public Service Institute of Nigeria(PSIN); Jan.2016.

MSc Distinction, University of Sussex, United Kingdom, January, 2011.

Outstanding Graduating Trainee Engineer at China Academy of Space Technology, CAST; Beijing, January, 2007

Federal Capital Territory National Youth Service Corps Award, July, 2001

Most Creative graduating student, School of Engineering and Engineering Technology, Department of Electrical and Computer Engineering, 1999

Deans List Award, Federal University of Technology, Minna, 1995, 1996, 1997, 1998 & 1999.

MANAGEMENT AND LEADERSHIP SKILLS

Organizational and Managerial Skills

Leadership, Target-oriented, Self-motivated and Effective Time Management (as experienced as far back as 2002 where I was responsible for a team of 21 technical assistants (TA) for a state-wide project).

Ability to work under pressure and tight reporting schedule as proven during NIGCOMSAT-1 Spacecraft project; a communication satellite project launched within 26 months after contract agreement.

Good command of quality control processes (As experienced in Satellite Project Engineering Management)

Technical Management as evident in successful launch of NIGCOMSAT-1 and NIGCOMSAT-1R (Insurance replacement of NIGCOMSAT-1) Spacecraft projects.

Excellent crafting skills, repairs, troubleshooting and maintenance from low to complex systems through experience and stemming from knowing how it works.

Excellent Technical Skills

Public Engagement in Science and Technology Education as a volunteer to schools and universities

CREATIVE WORKS

Patents

DIGITAL ELECTRONIC BALLOT COUNTER BOX; Patent no. RP, 14,631 on 31st July, 2001 and sealed on 15th March, 2002 according to Patents and Designs decree 1970 of Federal Republic of Nigeria.

BOOKS

Chapter Contributions in book and Orcid Link

1. Lawal, L.S., & Chatwin, C.R. Recent Study on the Criticality of Space Based Oscillators for the Optimal Performance of Time-Based Signals

2. Future Wireless Networks and Information Systems
Lawal, L.S., & Chatwin, C.R. (2012). The Future of Wireless Communications in Africa. Future Wireless Networks and Information Systems, Lecture Notes in Electrical Engineering, Springer Link, 143, 243 -251. doi: 10.1007/978-3-642-27323-0_31. Retrieved from: https://link.springer.com/chapter/10.1007/978-3-642-27323-0_31
3. Recent Developments in Engineering Research Vol. 11 (Book Publisher: International, Third Floor, 207 Regent Street, London, W1B 3HH, UK, Fax: +44 20-3031-1429). Retrieved from: <https://stm.bookpi.org/RDER-V11/issue/view/26>
Chapter Four: A Study of a Low-Cost Navigation Augmentation System: The United Kingdom's Immediate Answer to the Galileo Brexit Conundrum. Retrieved from: <https://doi.org/10.9734/bpi/rder/v11/6732D>
4. Chapter Five: An Overview of Global Navigation Satellite and Augmentation Systems. Retrieved from: <https://doi.org/10.9734/bpi/rder/v11/6733D>
5. Chapter Six: Nigcomsat-1R Satellite-Based Augmentation System (SBAS) Test Bed Trial: A Scientific Explanation. Retrieved from: <https://doi.org/10.9734/bpi/rder/v11/734D>

Link <https://orcid.org/0000-0001-9964-6183>

REFERENCES

References

Prof. Emeritus Muhammed Munzali Jibril,

FNAL, FNESA, FNIM, FLAN, OFR,
Bayero University, Kano-Nigeria.
Pro-Chancellor and Chairman of the Governing Council,
Federal University, Lafia, Nassarawa State,
Former Executive Secretary, National Universities Commission.
Tel:+2348058376288

Email: munzalijibril@yahoo.co.uk

Prof. Chris R. Chatwin,

Eur Ing, BSc, MSc, PhD, CEng, CPhys, CSci, FIET, FInstP, FIMechE, SMIEEE, FRSA.
Engineering and Design,
School of Engineering and Informatics,
Room 2B07, Shawcross Building,
University of Sussex,
Falmer, Brighton-UK,
BN1 9QT

Tel:+441273678901

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Email: C.R.Chatwin@sussex.ac.uk

Prof. Abiodun Musa Aibinu

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