



ING.DR. SAMBA SESAY

PROFILE

A dynamic professional engineer with over eighteen years of experience in the field of Telecommunication, Electrical and Electronic Engineering. Committed to making a significant impact in these sectors as they become pivotal in national development and globalization.

CONTACT



+232-76323708



sambasey@gmail.com,
samba.sesay@usl.edu.sl



3 Turay Drive, Korgbo1, Ogoo
Farm, Freetown

REFERENCE

Name: Prof. Jonas A.S Redwood-Sawyer

Position: Professor, Electrical & Electronic
Engineering Department
Fourah Bay College, University of Sierra Leone

Address: 5, Macfoy Lane, Congo Town,
Freetown, Sierra Leone

Email: abiosehrs@gmail.com

Tel: +232-76670904,

EDUCATION

PhD in Communication and Information System Engineering

Huazhong University of Science and Technology, Wuhan, China
September 2003 – June 2006

M.Eng in Telecommunication and Electronic System Engineering

Huazhong University of Science and Technology, Wuhan, China
September 2000 – June 2003

B.Eng (Hons) in Electrical and Electronics Engineering

Fourah Bay College, University of Sierra Leone
July 1998

Higher Teachers Certificate SLHTC(s)

Milton Margai Teachers College
September 1987 – July 1990

EMPLOYMENT HISTORY

Head of Department and Senior Lecturer

Electrical & Electronic Engineering Department, Fourah Bay College, University of Sierra Leone

January 2015 – Present

- General administration of the department
- Superintends the running courses and researches
- Lectures Digital System Design, Satellite Communication and Electronics.

Ag. Technical Director/Network Quality Manager

Comium SL. Ltd

2009 – 2014

- Provides leadership and direction for the Technical Units
- Develop Network Stability and Quality Improvement Strategies
- Prepare Network Expansion and Modernization plan
- Produce Monthly and annual technical reports
- Conduct Performance appraisal and represent the company in all external technical issues.

UMTS Product Manager

Huawei Technologies Co. Ltd. Shenzhen China.

June 2006 – February 2009

- Design of mobile networks
- Technical presentations and training
- Participation in Telecommunication bidding projects in 21 countries

PROFESSIONAL ACTIVITIES

- Council Member, Sierra Leone Institution of Engineers
- Programme Development and Implementation Manager, National Science, Technology, and Innovation Council.
- Board Member, Independent Media Commission IMC
- Sierra Leone Team Lead, African Satellite Constellation AFCONSAT
- Member, Sierra Leone Open Data Council
- Member, National Technical Committee of the Sierra Leone Standards Bureau
- Member ECOWAS Technical Harmonization Committee THC5

SPECIAL SKILLS

- Communication Networks design
- Network Quality Analysis and Control
- Digital Transformation
- Energy modeling systems
- Renewable energy solutions design and implementation
- Project Management

LANGUAGE

- English
- Chinese (Madarin)

PUBLICATIONS

- 1.F. Gardumi, L. Petrarulo, S. Sesay, "Supporting a self-sustained energy planning ecosystem: Lessons from Sierra Leone," Energy for Sustainable Development, Vol 70, Oct. 2022.
- 2.S. Sesay, Z. Yang, J. He, "A Survey on Mobile Ad hoc Wireless Network," Information Technology Journal, Vol 3, No. 2, 2004.
- 3.S. Sesay, Z. Yang, B. Qi, J. He, "Simulation Comparison of Four Wireless Ad hoc Routing Protocols," Information Technology Journal, Vol 3, No. 3, 2004.
- 4.S. Sesay, J. He, C. Qing, Z. Fan, "A Beam Broadcasting Protocol for Ad hoc Wireless Network," 计算机科学, 2005.
5. J. Xiang, S. Sesay, Y. Wang, J. He, "Ad hoc Network State Aware Routing Protocol," IEEE WCNC 2007, Hongkong, China, 2007.
- 6.S. Sesay, J. Xiang, J. He, Z. Yang, W. Cheng, "Hotspot Mitigation in Mobile Ad hoc Networks," ITST 2006, Chengdu, China.
- 7.Z. Yang, S. Sesay, Z. Fan, J. He, "Gradient Broadcasting in Mobile Ad hoc Wireless Network Using Smart Antenna," Asian Journal of Information Technology, Vol 3, No.10, 2004.
- 8.S. Sesay, Z. Yang, J. He, C. Qing, "Joint Load Balancing and Hotspot Mitigation over MANET," WirelessCom 2005, Maui, Hawaii, USA.
- 9.S. Sesay, J. Xiang, J. He, X. Du, "Ensuring Efficiency and Robustness in MANET," Mobility 2005, Guangzhou, China.
- 10.Z. Yang, S. Sesay, C. Qing, D. Xu, "Securing Sensitive Data in Databases," American Journal of Applied Sciences, Vol 1, 2004.
- 11.S. Sesay, Z. Yang, C. Qing, D. Xu, "A Secure Database Encryption Scheme," IEEE CCNC'05, Las Vegas, Nevada, USA.
- 12.J. Xiang, J. He, S. Sesay, N. Xie, "Subjective Quality Evaluation for Voice Over MANET," WirelessCom 2005.
- 13.N. Xie, J. Xiang, J. He, S. Sesay, "A Packet Loss Salvation Scheme for Voice over MANET," IEE Mobility Conference 2005.
- 14.S. Xu, Z. Yang, Y. Tan, W. Liu, S. Sesay, "An Efficient Batch Rekeying Scheme," ISCIT 2005, Beijing China.
- 15.S. Xu, W. Chen, Y. Tan, S. Sesay, W. Liu, "Fast Rekeying of Multimedia Dimensional Hierarchical Tree," ISCIT 2005, Beijing China.
- 16.L. M. and S. Sesay, "Performance Degradation of Radio Channels near Residential Areas," IEEE MAPE 2005, Beijing China.
- 17.L. M. and S. Sesay, "Mobile Base Station Transmitters Installations Arouse Human Health Concerns," World Engineers' Convention, Shanghai, China, 2004.