SEGUN ODEJIDE
Cypress, TX 77433
Email: olodejide@pvamu.edu

SUMMARY:
- Highly skilled in IT security, system analysis, network administration, troubleshooting, diverse software usage and programming.

COMPUTER APPLICATION AND SKILLS:
Operating Systems: Windows (7, Vista, XP, 2000, 2003, 2008 server), UNIX, Linux.
Application Software: Visio, AutoCAD, pcAnywhere, Citrix, solarwind, CA Spectrum, wireshark, etc.
Computer Application and Programming Skills: Matlab/Simulink, Visual Basic, Mathematica, Java
Technology: LAN, WAN, DNS, Active Directory, TCP/IP protocol stack, SNMP, WLAN, Radius, TACACS, IPSEC, NAT, ACS, NAC, BGP, OSPF, EIGRP, ACL, VOIP, SCADA, MPLS.
Certification: CCNA, CCNP, CEH, CISSP, SCP, Palo Alto Net ACE, MCSE (Windows NT & 2000).

EXPERIENCE:

11/2017 to Date

Transocean, Houston, TX
Lead Security Engineer
- Design, architect and implement various security tools in the environment
- Proof of concept (POC) analysis of security solutions
- Responsible for network security solutions on both corporate and OT networks
- Development of security policy; governance, risk and compliance analysis of IT systems and environment
- Managed Cyber security training and awareness campaign program

03/2015 to 10/2017

Global Tel* Link, Houston, TX
Senior Staff Engineer
- Designed and implementation of computer networks for corporate and company VOIP services platforms.
- Review, audit, and optimize the company network for security compliance with PCI requirements
- Worked on process optimization, and network documents standardization.
- Designed, configured and managed Cisco Secure ACS servers for device management
- Devices and technology worked with include Cisco ASA, Cisco Firepower IPS and Management Center, Palo Alto, Adtran routers, Solarwind Orion, etc.

08/2016 to Date

Prairie View A&M University, Prairie View, TX
Adjunct Faculty, Electrical and Computer Engineering Dept
• Developed and taught graduate level IT/Cyber Security classes
- General IT/Cyber security
- Web Application security/Ethical Hacking/Penetration Testing
- Cloud Security

08/2013 to 02/2015

Baker Hughes, Houston, TX
Cyber Security Analyst/Network Security Engineer
- Network security policy development and implementation (firewall, ACS, NAC, IPS, CX, FireEye, etc).
- Configuration and administration of IPS, Malware protection, Web-security, incident response, log collection and analysis, using several tools like McAfee, loglogic, Dell SecureWorks, Websense, etc.
- Respond to users' security issues and request through ticketing system, devices include several Cisco firewalls, routers, switches, etc (PIX, ASA 5500s & 5500-X, ACS, NAC, IPS, CX, etc)
- Configuration and troubleshooting of VPN tunnels (secure access, site-to-site).
- Team lead for network security projects involving ASAs, FireEye, Gigamon, ACS, IPS, CX, etc.
- Wrote several project documentations – gold build, standards, operational documents, etc.

01/2014 to Date

Lone Star College, Cypress, TX
Adjunct Faculty, Computer Information Technology Dept.
- Taught various Cisco certification classes (CCNA (Routing and Switching; CCNA Security)
- Development of IT Security program requirements and objectives in preparation for state approval for Associate Degree accreditation.

| 03/2013 to | **Cimation,** Houston, TX |
| 07/2013 | **Infrastructure Systems Consultant** |

- Installations, maintenance and administration of network infrastructure equipment for oil & gas SCADA system-Cisco routers (IE 3000), Cisco switches, radios, etc.
- Network security policy development and implementation (firewall, IDS devices, etc).
- Analysis of SCADA infrastructure network performance for utilization and future health prediction
- Team lead for IP address scheme remediation project for SCADA network at Shell Eagle Ford site.

| 01/2012 to | **AIR FORCE RESEARCH LABORATORY (AFRL),** Rome, NY |
| 02/2013 | **NRC Research Fellow** |

- Conduct research in the areas of wireless visual sensor networks for efficient resource management using Game Theory
- Analysis of performance of Visual Sensor Networks in multi-path fading environment
- Installations, maintenance and administration of network equipment-Cisco routers,& switches.
- Network security policy development and implementation (firewall, IDS devices, etc).
- Designs, deploys and support network protocols such as OSPF, EIGRP, HSRP.
- Optimization of wireless visual sensor networks for efficient resource management using Game Theory.

09/2009 – 12/2011: **Postdoctoral Research Fellow, CECSTR, Prairie View A&M University**

- Conduct research in the areas of compressive sensing, cooperative communications, cognitive radios, waveform design for integrated voice/data networks, cross-layer optimization, and wireless link adaptation
- Wrote and submitted at least three proposals for grants and research funding
- Coordinator of CECSTR-TI scholar mentoring and development program
- Mentoring of graduate and undergraduate students

01/2010 – 12/2011: **Adjunct Faculty, Engineering Technology Department, Prairie View A&M University**

- Classes taught includes "CPET 3163-CPU Architecture, ELET 1141-AC Circuits Lab and ELET 3023-Computer Application to electrical Engineering, CPET 4383 –Digital Signal Processing Applications," at the department of Engineering Technology.

01/2006 – 06/2009: **Graduate Research Assistant, Center of Excellence for Communication Systems Technology Research, Prairie View A&M University**

- Worked on wavelet based compressive sensing system sponsored by L3-Communications ($300,000 for 3 yrs)
- Conducted research on low-complexity wideband spectrum sensing technique and developed an automatic detection algorithm for Nyquist Folding analog-to-information Receiver.
- Conducted research on Wavelet Transform application to signal detection and classification
- Conducted research on mixed signals devices as well as networked control systems.

08/2008 – 05/2009: **Instructor, ECE, Prairie View A&M University**

- Taught "ELEG 2023-Network Theory I," a fundamental course in ECE department with over 30 students.
- Taught "ELEG 2053-Introduction to Electrical Engineering," an electrical engineering course for non-ECE majors with over 40 students.

01/2005 – 07/2008: **Graduate Teaching Assistant, ECE, Prairie View A&M University**

- Tutored various courses in ECE department (ELEG 3063-Logic Circuits, ELEG 4003-Communication Theory, ELEG 3023-Signals and Systems, ELEG 4273-Analog Mixed signals I, ELEG 1043-Computer Applications in engineering, ELEG 3013-Network Theory II)
- Coordinated and taught several lab courses in ECE department (ELEG 4021-Power Lab, ELEG 2011-Electrical Circuit Lab and ELEG 3021-Logic Circuit lab)

08/2003 to	**FORESIGHT TECHNOLOGIES**, Nashville, TN
12/2004	**Systems/Network Engineer**
	Performed the following duties as lead technical support personnel to clients all over TN State:

- Diagnose, troubleshoot, and resolve hardware, software, or other network and system problems, and replace defective components when necessary.
- Defining, implementing and enforcing of computer network security policies for client.
- Configured, installed and maintained computer networks and communication systems (LAN, WAN) for clients.
- Plan, coordinate, and implement network security measures to protect data, software, and hardware.

| 09/2001 to | **CISE Laboratory, TSU** Nashville, TN |
| 08/2003 | **Graduate Research Assistant** |

- Worked in the campus IT dept as technical support providing maintenance and troubleshooting of computer and network systems in various offices and dormitories on campus.
- Developed a web service for interoperability of robotic systems on multiple platforms using DLL built in VB6, a web service developed in Visual Studio .net (both running on windows OS); a client program developed in Java running on Linux OS.
- Designed and developed a launcher tube heating system for submarine usage using Commercial off-The Shelf (COTS) products (sponsored by US Navy).

01/2001 to **First Bank Plc**, Nigeria.
08/2001 **Systems/Network Engineer- Networks and Comms. Dept.**
Performed the following duties as technical support personnel to clients:
- Designed, plan and supervised structured cabling for branch LAN networks.
- Configured, installed and maintained computer networks and communication systems.
- Maintained the bank's network involving UNIX, Windows and Novell Netware.

10/1997 to **RIPPCON NIGERIA LTD**, Nigeria.
12/2000 **Systems/Network Engineer**
Performed the following duties as technical support personnel to clients:
- Designed, plan and implement structured cabling for clients LAN networks.
- Configured, installed and maintained computer networks and communication systems for clients.
- Designed, installed and configured an interconnectivity system involving UNIX, Windows and Novell Netware system for First Bank with over 300 branches across the nation.

EDUCATION:

PRAIRIE VIEW A&M UNIVERSITY, Prairie View, TX
PhD Electrical Engineering

TENNESSEE STATE UNIVERSITY, Nashville, TN
M.Sc Comp. & Information Systems Eng.

UNIVERSITY OF IBADAN, Nigeria
B.Sc. Electrical Engineering (1st Class honors)

Professional Organization:

Institute of Electrical and Electronics Engineers (IEEE)
(ISC)[2]
EC Council
Infragard (Member)

Publications and Technical Report

i. Peer-Reviewed Publications
- A Wavelet Based Transmission of Communication Systems Signals Using Multicode CDMA Modulation, TAMUS Symposium, Texas A&M University, Kingsville, TX, Nov. 5-6, 2005.
- Development of Wavelet Based Signal Detection and Measurement Algorithm, Proc. ASEE 6th Global Colloquium on Engr. Edu., Istanbul, Turkey, Oct. 1-4, 2007.
- Wavelet Based Detection of Communication Signals and Modulation, Texas A&M University System Symposium Prairie View A&M University, Prairie View, TX, Nov. 9-10, 2007.
- Sparseness measures of signals for compressive sampling, ISSPIT, Cairo, Egypt, Dec. 15 – 18, 2007.
- Sparseness measures of signals for compressive sampling in the presence of additive white Gaussian noise, International Symposium on Spectral Sensing Research (ISSSR) Conference, Hoboken, NJ. June 23 – 27, 2008.
- Signal and Modulation Type detection using Wavelet Transform, IEEE World Congress on Computer Science and Information Engineering, Los Angeles/Anaheim, March 31-April 2, 2009.
- Determination of Best Sparsifying Basis for Compressive Sampling, International Review of Electrical Engineering, pp. 327 – 335, April 2009.
- Application of Analytic Wavelet Transform for Signal Detection in Nyquist-Folding Analog-to-Information Receiver, Proc. IEEE ICC'09, Dresden, June 14-18, 2009.
- Joint Design of Channel-Source Coding for Compressive Sampling Systems, Proc. IEEE Consumer Communications & Networking Conference, Las Vegas, January 2010.

- Efficacy of compressive sensing for dynamic spectrum access, Proc. SPIE Defense, Security, and Sensing Conference, Orlando, April 2010.
- Wideband signal detection using a Nyquist folding analog-to-information receiver in multipath fading environment, Proc. SPIE Defense, Security, and Sensing Conference, Orlando, April 2010.
- Adaptive Multiresolution Modulation for Multimedia Traffic, Proc. IEEE Consumer Communications & Networking Conference, Las Vegas, January 2011.
- Unified Analysis of Energy Detection of Unknown Signals over Generalized Fading Channels, IEEE International Wireless Communications and Mobile Computing (IWCMC) July 2011
- Further Results on Area under the ROC Curve of Energy Detectors over Generalized Fading Channels, Proc. IEEE Sarnoff Symposium, Princeton, NJ, May 2011.
- Adaptive Multiresolution Modulation for Multimedia Traffic in Dynamic Wireless Environment, Proc. IEEE Sarnoff Symposium, Princeton, NJ, May 2011.
- On the Energy Detection of Unknown Deterministic Signals over Generalized Fading Channel, Proc. International Conference on Wireless Networks (ICWN), Las Vegas, July 2011.
- A Performance Study of Energy Detection for Dual-Hop Transmission with Fixed Gain Relays: Area under the ROC Curve (AUC) Approach, Proc. IEEE International Symposium on Personal, Indoor, and Mobile Radio Communications (PIMRC), Toronto, Canada, September 2011.
- Cross-Layer Throughput Optimization Using Adaptive PHY/MAC/APP Layer Techniques, Proc. IEEE International Symposium on Personal, Indoor, and Mobile Radio Communications (PIMRC), Toronto, Canada, September 2011.
- Energy Detector's Performance Evaluation in a Relay-Based Cognitive Radio Network: Area Under the ROC Curve (AUC) Approach, Proc. IEEE GLOBECOM, Houston, TX, December 2011.
- Further Results on the Energy Detection of Unknown Deterministic Signals Over Generalized Fading Channel, Proc. IEEE GLOBECOM, Houston, TX, December 2011.
- New Results on Throughput Optimization Using Adaptive PHY/MAC Layer Techniques Approach, Proc. IEEE Military Communications Conference (MILCOM) 2011.
- Joint-Design of PHY/MAC Layers for Throughput Optimization, Proc. IEEE Consumer Communications & Networking Conference, Las Vegas, January 2012.
- Dynamic Spectrum Detection via Compressive Sensing, International Journal of Computer Networks and Communications (IJCNC), vol. 4, No. 2, 2012.
- A Unified Framework for the Performance Analyses of Diversity Energy Detectors over Fading Channels, Int. J. Autonomous and Adaptive Communications Systems 2012
- Throughput Optimization of Joint-Design of PHY/MAC Layers for QoS Constrained Applications, IEEE International Symposium on Personal, Indoor, and Mobile Radio Communications (PIMRC)
- Resource Management in Visual Sensor Networks using Nash Bargaining Solution in generalized Fading Environment, IEEE CCNC, January 2013
- Effective Resource Management in Visual Sensor Networks with MPSK, IEEE Signal Processing Letters, 2013

ii. Technical Reports

- O. Odejide, and C. Akujuobi, "Wavelet Based Signal Detection and Modulation Type Identification," ECE/*CECSTR Quarterly Technical Report submitted to L-3 Communications*, Volume I, 2006.
- O. Odejide, C. Akujuobi, and A. Annamalai, "Determination of Best Basis for Compressive Sampling Signal Reconstruction," ECE/*CECSTR Quarterly Technical Report submitted to L-3 Communications*, Volume I, 2007.
- O. Odejide, C. Akujuobi, and A. Annamalai, "Investigation of Compressive Sampling signal reconstruction Algorithms in the presence of an AWGN channel," ECE/*CECSTR Quarterly Technical Report submitted to L-3 Communications*, Volume II, 2007.
- O. Odejide, C. Akujuobi, and A. Annamalai, "Reconstruction of a Noisy signal using Compressive Sampling," ECE/*CECSTR Quarterly Technical Report submitted to L-3 Communications*, Volume III, 2007.
- O. Odejide, C. Akujuobi, and A. Annamalai, "Investigation of Nyquist Folding analog-to-information Receiver (NYFR) data analysis using wavelet transform," ECE/*CECSTR Quarterly Technical Report submitted to L-3 Communications*, Volume I, 2008.
- O. Odejide, C. Akujuobi, and A. Annamalai, "Time-Frequency analysis of NYFR data using Analytic Wavelet Transform," ECE/*CECSTR Quarterly Technical Report submitted to L-3 Communications*, Volume II, 2008.
- O. Odejide, C. Akujuobi, and A. Annamalai, "Development of automatic detection algorithm and GUI training and demonstration tool for NYFR system," ECE/*CECSTR Quarterly Technical Report submitted to L-3 Communications*, Volume I, 2009.