

# KUSAY RUKIEH, PhD, CISSP, CCSP, PMP

Curriculum Vitae

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## INFORMATION SECURITY | APPLIED RESEARCH

*Accomplished information systems professional with solid history of success collaborating with interdisciplinary partners on extensive research to provide valuable insight on emerging trends and solutions in computer and electrical engineering.*

*Currently working in Academia and looking for challenging opportunities*

*Vast experience developing comprehensive grants and proposals for government and non-profit organizations by compiling artifacts from various functional areas.*

*Proven curriculum development and mentoring skills to ensure quality program management and success in an academic environment.*

## EDUCATION AND CREDENTIALS

### **Doctor of Electrical Engineering**

Florida Institute of Technology, Melbourne, FL

### **Master of Science in Computer Networks**

North Carolina State University, Raleigh, NC

### **Bachelor of Science in Computer Engineering**

North Carolina State University, Raleigh, NC

### **— Qualifications & Licensure —**

Certified Information Systems Security Professional (CISSP- 520349), Certified Cloud Security Professional (CCSP-- 520349), (Cisco Certified Network Associate (CCNA-R&S-CSC011003035), CompTIA Cyber Security analyst (Cysa+ - COMPO01020150915), CompTIA Penetration Tester (Pent+ - COMPO01020150915), Project Management Professional (PMP-2099783), EXIN Agile Scrum Master (ASM), and EC-Council Encryption Specialist (ECC-61340298657).

In-Progress: Certified Ethical Hacker (CEH), Certified Information Systems Auditor (CISA), AWS Certified Solutions Architect Associate, GIAC Certified Intrusion Analyst (GCIA), PCI/DSS, FIPS, DISA, NIST, CIS Benchmark, HIPAA.

## ***AREAS OF EXPERTISE***

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- Wireless Technology
- Internet of Things (IoT)
- Mobile Cyber-Physical System
- Network Architecture
- Software Development Life Cycle
- Big Data Analytics
- Healthcare Informatics
- Virtualization
- Analysis & Troubleshooting
- Performance Auditing
- Research & Development
- Project Management
- Proposal Development
- Technical Support
- Testing & Verification

## **ACADEMIC EXPERIENCE**

*2017 – Present    University of Maryland- University College (UMGC), Adelphi, MD 20783*

***Adjunct Professor- Cyber Security program***

- CMIT – 421: Threat and Vulnerability assessment
- CMIT – 320: Fundamental of information Security
- CMIT – 320: Ethical Hacking
- CMIT – 326: Cloud Technologies
- CMIT – 326: Switching, Routing, and Wireless Technologies
- CMIT – 424: Digital Forensics Analysis and application

*2011 – 2016    Florida Institute of Technology, Melbourne, FL*

***Adjunct Professor- Electrical and Computer Engineering/Computer Science/Computer Information System***

- CIS 5750 - Wireless Information Systems
- CIS 5400-1G - Special topics in CIS: Mobile Applications programming
- ECE 5570: Special topics in ECE: Wireless Systems and Networks
- ECE 1551 – Introduction to Computer Logic
- CIS5410 - Computer Networks for Information Specialist 1
- CIS 5000 – Fundamental of Information Systems
- ECE 4551 – Computer Architecture
- HCI 112 – Electronic Health Record

*2010 – 2014    Everest University, Melbourne, FL*

***Adjunct Instructor - Department of Computer Science***

- CET 1605C – Network Routing I
- CET 2607C – Network Routing II
- CNT 2400C – Network Security Fundamentals
- CISP 3150 - Special topics in Computer Science
- CISP 2400 - Linux Administration
- BUS 5100 - System Enterprise Management

## **PUBLICATIONS:**

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- I. Kostanic, K. Rukieh, "Mobile WiMAX Performance under Different deployment Strategies," The International Conference on Computer Communications and Networks (CCN-10), 2010
- I. Kostanic, K. Rukieh, "Evaluation of Mobile WiMAX Deployment Strategies," The 8th International Conference on Computing, Communications, and Control Technologies (CCCT 2010). 2010
- I. Kostanic, K. Rukieh, "A Study of Mobile WiMAX Performance Using Different Antenna Technologies," The International Symposium on Models and Modeling Methodologies in Science and Engineering (MMMse 2011), 2011
- Y. Barayan, I. Kostanic, K. Rukieh, "Performance with MIMO for the Downlink 3GPP LTE Cellular Systems," Universal Journal of Communications and Network Vol. 2(2), pp. 32-39, Horizon Research Publishing (HRPUB), Jan. 2014
- AlAmeer, M., AlSayyari, A., Kostanic, I., Otero, C.E., Rukieh, K., "An Empirical Path Loss Model for Wireless Sensor Network Deployment in a Sand Terrain Environment," IEEE World Forum on Internet of Things (WF-IoT), 2014.

### ***CURRICULUM DEVELOPMENT***

- Developed curriculum to adapt to new standards and latest technologies and tech industry needs
- Profound knowledge of curriculum design, development, implementation and evaluation
- Excellent ability to coordinate and organize educational programs, meetings and special events
- Ability to design curriculum for a variety of delivery systems (CBT, web-based, and classroom environment)

### ***COMMITTEES:***

- Served as an outside committee member for Computer Science Master Student candidate
- Functioned as a committee member for Computer Information System Master Student candidate
- Assisted as an outside committee member for Computer/Electrical Engineering Doctorate Student candidates
- Served as a committee member for Computer Education Master Student candidate

### ***INVITED TALKS & PRESENTATIONS:***

- *Demystifying 4G*, presented at Florida Institute of Technology, Melbourne, FL, 2010
- *The Convergence of Wired and Wireless Technologies*, presented at Florida Institute of Technology, Melbourne, FL, 2011
- *Mobile Application Evolution*, presented at Florida Institute of Technology, Melbourne, FL, 2014

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L3Harris, Melbourne, FL

## **PRINCIPAL INFORMATION SECURITY ENGINEER** (July/2017 to December/2022)

Responsible for design, implement and run security solutions by analyzing requirements and specifications. Conduct research on new and emerging technologies for practical application to solve business problems and strategic initiatives. Research & develop proof of concepts on new security technologies relevant to the customer. Develop new solutions architectures and implement them to improve enterprise capabilities. Ensure designed solutions are successfully implemented and delivered. Provide leadership and guidance to coach, motivate, and lead team members

- Review the current technology architecture landscape and seek ways to implement best practices, improve and/or extend existing technology investments while ensuring that business goals and regulatory requirements are achieved along with proper security controls.
- Experience implementing security standards such as the NIST 800-series and FIPS/FedRAMP guidelines.
- Demonstrated ability to create realistic project timelines and deliver results on-schedule while collaborating with business unit leaders, technology leaders, applications systems experts, and other team members in order to map business requirements into technology solutions.
- Strong practical knowledge of Mission Networks
- Experience planning, researching, developing, and implementing security policies, standards and procedures
- Write detailed technical specifications and documents such as POCs, RFPs, vendor assessment
- Well versed with creation and execution of automation scripts using Python and Java
- Strong system administration knowledge for various operating systems such as Linux and Windows

JPMorgan Chase, Tampa, FL

## **TECHNICAL MANAGER/PRINCIPAL ARCHITECT** (July 2016 to 2017)

Design, implement, and evaluate enterprise-wide Data Center network solutions that mitigate risk, optimize operations, and ensure financial success. Subject Matter Expert in Data Science, supporting executive business goals for portfolio expansion by providing intimate knowledge and strategic guidance on emerging trends and technologies. Perform quantitative and qualitative analysis of data sets from multiple sources to ensure operational excellence, maximum security, and industry and legal compliance. Growth-focused management of 10 employees, actively engaging in recruitment, development, mentoring, and evaluation, and providing coaching or mentoring as needed.

- Established a strategic security architecture vision, including standards and frameworks, aligned with the business strategic initiatives
- Directed network security and architecture and the collaboration with DevOps to ensure a 99.9999% uptime for 40+ credit processing applications with 5B annual transaction

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- Led a team of 5 engineers to deliver security solutions supporting 2 datacenters, 5 remote offices, and 1000 managed merchant locations, ensuring compliance with internal controls.
- Managed vendors and relationships including Cisco, F5, CheckPoint, Tier1 internet carriers, data center operations.
- Established security architecture, including standards and frameworks that aligned with overall business plans and met budgetary and resource requirements.
- Delivered management and executive-level KRI, KPI, and SLA reports on security, risk, and audit controls, including deviations from standards, operational issues, and violations of policy or law.

Hotwire Communications, Fort Lauderdale, FL  
**SENIOR TECHNICAL ARCHITECT (2015 to 2016)**

Oversaw all activities related to the implementation, integration, and optimization of specialized solutions for clients across a variety of industries including healthcare and hospitality. Utilized expert knowledge of data science and wireless communications to translate customer requirements into opportunities for innovation and recommend solutions. Engaged key stakeholders during all phases of the software development lifecycle (SDLC) including site survey, installation, integration, commissioning, system upgrade, acceptance and maintenance services while responsible for technical design, implementation, and RFI/RFP. Led enterprise-wide, cross-functional efforts for operational efficiency, implementing and maintaining key performance indicators (KPIs) and service expectations (SLAs).

- Mentored and managed a team of 10 new, inexperienced employees and field technicians for required hardware and software, resulting in reduction in labor cost and on-boarding time
- Architected mitigating controls for network cybersecurity requirements in enterprise and test environments
- Designed and deployed customer services including site surveys, installations, integrations, commissioning, and drafting the technical response to RFIs and RFPs
- Reduced manpower costs by \$51,000 through the development and implementation a WiFi and small cells training for technicians and engineers
- Led a team of 5 engineers to deliver security solutions supporting 2 datacenters, 5 remote offices, and 1000 managed merchant locations, ensuring compliance with internal controls.
- Managed vendors and relationships including Cisco, F5, CheckPoint, Tier1 internet carriers, data center operations.
- Established security architecture, including standards and frameworks that aligned with overall business plans and met budgetary and resource requirements.
- Delivered management and executive-level KRI, KPI, and SLA reports on security, risk, and audit controls, including deviations from standards, operational issues, and violations of policy or law.

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Harris Corporation, Melbourne, FL  
**LEAD INFORMATION SECURITY ENGINEER (2004 to 2015)**

Developed, implemented, and maintained cyber security measures within network infrastructure to secure digital information for clients. Duties included monitoring, analyzing, and maintaining optimal security levels of enterprise IT systems through root cause analysis; conducting regular risk assessments and vulnerability scans of enterprise environments; and utilizing various tools to conduct web-content filtering and systems monitoring. Collaborated on multimillion dollar network designs for wired and wireless communication systems, leveraging expansive knowledge of the RFI/RFP life cycle to elicit and manage vendor requirements.

- Served as a SME to architect and implement security solutions maintaining customers' security posture.
- Completed network Infrastructure security vulnerability scans, risk assessments, and capacity planning.
- Bolstered security infrastructure through the implementation of a multi-factor authentication process and other security controls.
- Implemented a quality control program for auditing network reports, increasing accuracy to 90%
- Automated customer onboarding, resulting in a 50% in deployment time and a 30% increase in customer satisfaction
- Established risk management processes such as disaster recovery / business continuity, incident response, and identity / access management.
- Scheduled daily SOC activity, managing resources for installations, remediating security issues, and maintenance.
- Defined and maintained operational standards assuring a test-ready infrastructure and collaborating with performance and application development groups to meet project and production requirements.
- Planned and implemented infrastructure changes, including tech refreshes and upgrades to new technologies.

*Additional experience as **System Test Engineer** at Fujitsu Network Communications and as an **Assistant Network Administrator** at North Carolina State University.*

## AWARDS

- Harris Excellence Award for Network Testing (2005/06)
- Harris Recognition Award for Project Excellence (2006/2011)
- UROCK Award for Order Completion (2012)
- FAA Certificate of Recognition for EMS365 Program (2014)