

Daniel Ashitey

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SKILLS SUMMARY

Over 30 years' experience in Network Engineering, focusing on training, development, mentoring, network design, implementation, operation and support of Enterprise Network and Data Center Systems. Excellent technical and organizational skills, able to communicate technical information effectively. Experienced in project management methodologies. Worked with major telecommunication and network equipment manufacturers. Managed the deployment of large switching and networking systems.

Experience in the following areas:

- Project management: Planning, design, development, implementation, operation and support.
- Customer Engineering: Post-Sales engineering support, Proof of Concepts (POC), respond to RFQs
- L2/L3 Technologies: MLAG, VARP, BGP, MP-BGP
- Arista Universal Cloud Network: Arista EOS, CVP, DMF, MP-BGP
- Data Center Architectures: Leaf-Spine, Overlay/Underlay, EVPN, VxLAN, ACI, Nexus
- Cisco Digital Network Architecture: Cisco SD-Access, SD-WAN, ACI, Nexus Platforms
- Network Security Solution: Arista NDR, Cisco NGFW, Cisco AMP, ISE

CERTIFICATION

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| • ACE-L7 | Arista Cloud Expert # AC:E7:23:AA:00:58 |
| • ACE-L6 | Arista Cloud Architect |
| • ACE-L5 | Arista Cloud Automation |
| • CCSI | Cisco Certified System Instructor |
| • CCIE-Security | Written Exams |
| • CCIE-DC | Written Exams |
| • CCDP | Cisco Certified Design Professional |
| • CCNP-RS | Cisco Certified Network Professional Routing and Switching |
| • CCNP-S | Cisco Certified Network Professional, Security |
| • CCNP-DC | Cisco Certified Network Professional, Data Center |
| • ITIL®F | Foundation Certificate for IT Service Management |

EDUCATION

- 2024 PhD (Information Systems) 1st year PhD Student, UPSA, Ghana
- 1993 M.Eng. (Electrical Engineering), Carleton University, Ottawa, Canada
- 1990 B.Sc. (Electrical Engineering), University of Science and Technology, Kumasi, Ghana

EMPLOYMENT HISTORY

March 2024 – Present

Danash Systems Limited, Ghana

Consultant

Lead the strategic direction and technical development of Danash Systems, with a focus on AI-enabled software development, energy and storage solutions, and training and capacity building. Combine systems engineering, enterprise networking and consulting experience to help organisations improve operations, strengthen technical capabilities and plan sustainable technology investments.

Key Responsibilities and Areas of Focus

- **Business Leadership and Technical Advisory:** Guide business development, client engagement and solution planning, aligning technology recommendations with clients' operational needs and strategic objectives.
- **AI-Enabled Software Development:** Lead the design and development of software solutions for business operations, service delivery and decision support, exploring appropriate applications of artificial intelligence and automation.
- **Platform Development:** Develop a multi-tenant transport and fleet management platform incorporating role-based access, trip management, configurable pricing and country-specific settings.
- **Problem Solving:** Create and deploy AI-Enabled apps that address diverse challenges in the country, ensuring sustainable and impactful outcomes.
- **Green Energy and Storage Solutions:** Develop a comprehensive green energy capacity planner: it must accurately inventory all power consumption devices, calculate aggregate power requirements, and specify appropriate solar panels, controllers, and LiFePO₄ storage sizing to ensure reliable energy for businesses, institutions, and households.
- **Monitoring & Evaluation:** Deploy AI systems to monitor project performance, assess impact, and optimize processes in real-time.
- **Sustainable Project Development:** Experienced in collaborating with government and non-governmental organizations to create comprehensive frameworks for sustainable initiatives.
- **Training and Capacity Building:** Provide technical instruction and knowledge transfer in enterprise networking and related technologies, drawing on consulting and instructor experience.

Technical Skills

- **Generative AI (GenAI):** ChatGPT, Claude, and Gemini
- **Back-End Development:** WSL, Python, Docker, FastAPI, SQL, PostgreSQL and REST APIs.
- **Front-End Development:** JavaScript/React, Flutter/ Dart, HTML5 & CSS3
- **Cloud Deployment & DevOps:** AWS, Azure, GCP, CI/CD Pipeline
- **Data Science & Analytics:** Data Manipulation (Pandas/NumPy), Dashboards & BI Tools
- **Security, Authentication:** SSO, 2FA, JWT, OAuth 2.0

I have consulted on several projects that involves ISE deployment, Wireless Networking, Nexus, ACI and ASR platforms, ASA/Sourcefire and VPN. Project worked on include:

- **SDN-PROs – Network Instructor/Consultant** – Training Arista Engineer and customers on Leaf-Spine technologies and Arista CloudVision Management System. Building datacenters using the Leaf-Spine approach with MP-BGP EVPN control in the plane and VxLAN in the data plane.
- **WWT/Huntington Bank – Network Security Engineer** – Lead Engineer for implementation of Cisco ISE TrustSec. Contribute to the development of Scope, Requirement, High-Level, and Low-level documents for ISE TrustSec Implementation. Implement ISE solution for campus LAN, wireless, remote access and guest network environments. Integrate ISE with other solutions. Perform network engineering tasks such as configuration of switches, LANS, VLANs, VPN, and network security and Firewall appliances.
- **FireFlyEducate – Cisco Instructor** – Provide pre-scheduled training seminars and consulting services for Firefly’s customers in the United States and the rest of the world. Focus on : IEEE 802.1X, Cisco ISE, Cisco ASA/FTD, Cisco DNA and SD-WAN solutions, Datacenter Architecture (Nexus NxOS and ACI) and implementation.
- **NterOne Corp – Network Consultant and Cisco Instructor** – Design and develop customized training programs for customers. Deliver custom training programs for Cisco Partners and customers worldwide. Training include ISE for SDA, Cisco Viptela, Security and Data Center training courses.
- **Dimension Data USA – Systems Architect/Project Engineer.** Design, integration, and implementation of a global, multiple-site distributed ISE deployment. Supported the installation, configuration and testing of two Datacenters for AirBnB in Ashburn VA, USA and London, UK. Configured Cisco Nexus 9000 switches, ASR 1000 routers and Palo-Alto 7080 firewalls. Provided Technical support to valued customers. Deployed Cisco ASA FirePower and ISE. Provided support for the migration from ISE 1.2 to 2.0. Implemented the migration of ASA5515 ver8.2 to ASA5525-X ver 9.2 with FirePower Services. Implemented FightSight Management Center and configured IPS, AVC, AMR and URL filtering.
- **Cisco Systems, USA – Network Consulting Engineer.** Lead and/or support a team of engineers in the design, integration, and deployment of major network projects. Provide tactical and strategic input on improving overall network operations and related projects. Design appropriate architectural solutions, applying architectural and engineering concepts to design solutions that meet operational requirements, such as scalability, security, availability and reliability. Provide network security solution services including Security Optimization Subscription, Security Design Assessment, Security Design / Configuration Reviews, Cisco security product implementations and knowledge transfer. Job role include installing, configuring, troubleshooting and managing one of the largest Cisco ISE deployments in the world supporting well over 350,000 endpoints. Additional tasks involve installing, configure and troubleshoot security devices in a large enterprise environment (routers, switches, ASA IPS/Sourcefire, Wireless Controllers, VPN appliances).
- **TekSystems USA – Senior Network Consultant, Roswell Park Cancer Institute.** Redesigned Campus network to accommodate new network infrastructure that include C6500 SUP-2Ts and C4500X switches at the backbone and distribution layer and C3850s at the access layer. Configured and managed over 1000 wireless access points including some 3702s controlled by a pair of redundant 8810 wireless controllers. Implemented

Cisco Prime Infrastructure 3.0. Deployed a 6-node ISE network with a capacity of 20,000 endpoints using certificate-based machine authentication.

Current and past clients include:

- WWT/Huntington Bank, Columbus OH - ISE Segmentation/Trustsec Implementation
- Forfusion Limited, Newcastle, UK - Cisco SD-WAN Configuration, Troubleshooting and Training
- TattGroup, Brisbane Australia - Cisco SD-WAN Configuration, Troubleshooting and Training
- Cisco Systems Partners, Denmark - ISE for SDA Training
- Mayer Brown, Chicago and London - ISE deployment, Global Network Infrastructure
- New Jersey OIT, Trenton NJ - ASA Firewall Migration
- BJC Healthcare, St. Louis, MO - ASA Cluster, Nexus 9K and ASR1006 Integration
- Ameriprise Financial, MN - Network Optimization Subscription, Security Services
- GEICO, Chevy Chase, MD - ISE Implementation, ASA VPN Configuration, F5-LTM
- Mayo Clinic, Rochester MN - ISE Implementation, Cisco Wireless Network, MSE, F5-LTM
- Dimension Data USA - Datacenter deployment, ISE Migration, ASA FirePower and
- AirBnB, Reston VA and Slough UK - Cisco Nexus switches, ASRs and Palo-Alto Firewalls configuration
- Roswell Park Cancer Institute, NY - Cisco Wireless Network, ISE Implementation, Prime Infrastructure
- Nterone Corporation, NC - Data Centre and Network Security Training and Consulting

<i>August 2002 – January 2014</i>	<i>Danash Engineering, Ghana</i>	<i>Principal IT Consultant</i>
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Provide vision, guidance and set goals for increasing productivity. Plan the course of the company focusing on growth opportunities for the company. Create new business opportunities, strengthen existing business channels, motivate employees to bring out the best in them. Instil proper discipline and good work ethics among workers.

Notable accomplishment includes:

- **IT Consultant, Network Infrastructure for Newmont Ghana Gold Limited** - Developed and implemented an enterprise network solution for Newmont Ghana. The system supports both voice and data and included the installation and configuration of Cisco routers, switches, VoIP devices and ASA security appliances.
- **IT Consultant, Network Infrastructure for Ghana Health Service** – Planned, designed, implemented and supported a state-of-the-art network system for Ghana Health Services. The system supports both voice and data and included structured cabling of multiple buildings, installation and configuration of Cisco network devices.
- **IT Consultant, ICT Directorate, University of Ghana** - Designed a new Campus Area Network for the ICT Directorate of the University of Ghana main campus. The design utilized Cisco Multi-Layer Backbone Network equipment with fiber optic links connecting the aggregation points on the network. Danash also implemented this design by supplying, installing and configuring the Cisco Backbone network equipment.
- **Project Manager, CISCO NEPAD e-School Project in Ghana** – As Cisco Partner, we support several Cisco projects in Ghana. The Cisco Consortium NEPAD eSchool project for Ghana is one such project. Danash was the project support partner in Ghana. We coordinated all deliveries and schedule of activities during the implementation phase. We provided logistics, training and support for the project for two years from the project implementation phase through to the project handed over to Ghana government.

<i>August 2002 – Present</i>	<i>Danash Advance Technology Academy, Ghana</i>	<i>Director</i>
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Founded an institute of professional studies in IT. Danash Advance Technology Academy (DATA). Since its inception as a training institute, DATA has and continues to provide high class training for individuals and corporate entities in both the private and public sectors. Among the beneficiaries of our program include the University of Ghana ICT Center, Legon, Newmont Ghana Gold Ltd., Tigo MTN; Coca Cola; Ministry of Defence and Kasapa among others. DATA has developed into a well-established institute with a niche of expertise in the delivery of IT training.

Notable accomplishment includes:

- CCNA, CCDA and CCNP training for Technical Staff of Vodafone Ghana
- Network + and CCNA Training for Technical Staff of Newmont Ghana
- Network + and CCNA Training for Ministry of Defence, Government of Ghana
- Microsoft Office Training for Local Government Employees in Western Region, Ghana.
- Microsoft Office training for staff of Ghana Shippers Council
- Network + and CCNA Training for Technical Staff of Ghana Health Service

<i>September 2012 – December 2012</i>	<i>Ashesi University, Ghana</i>	<i>Adjunct Lecturer</i>
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Used innovative methods to teach undergraduate course in Software Engineering. Software Engineering involves using methodologies to develop software. These methodologies go through a software development life-cycle (SDLC) which has evolved over time. The SDLC includes phases such as requirements, specification, design, testing, deployment, quality assurance, documentation etc. Several techniques have evolved in recent years to make software development more adaptable to customer's needs. In class, we form a team of 4-6 students to tackle software engineering projects. We adopt some of these new approaches, assigning different team leadership roles for each phase of the software development life cycle. I also mentor and engaged undergraduate final year students in software engineering project work.

<i>May 2001 – July. 2002</i>	<i>Samlin Consulting, U.S.A</i>	<i>Management Consultant</i>
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Provide Management and Technology consulting services to Government Agencies and IT Industries.

Responsibilities include auditing and review of various system-related application controls and general data processing controls for various software and hardware platforms. Perform a comprehensive and objective assessment of risks and controls associated with the reliability of data systems. Develop effective business plan and perform business analysis to maximize output. Identify and resolve network issues using troubleshooting and system monitoring schemes. Providing technical advice to management on network security and reliability.

<i>October 2000 – March 2001</i>	<i>Cisco Systems Inc., Wall NJ U.S.A</i>	<i>Project Manager</i>
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Developed Design Methodologies and Implementation Procedures for Multimedia and Wireless Enterprise solutions such as Wireless LAN, GSM over IP, Content Delivery Networking, and IP Telephony. Responsibilities included coordinating project related tasks throughout a project lifecycle. Managing customer expectation with regards to Methods and Procedures deliverable and generating detailed progress reporting and documentation. Analyzing Business and Technical goals, developing Network Models, characterizing Network Traffic, building and testing Prototype Network Systems, Configuring and troubleshooting Cisco routers and switches, Developing Security and Network Management strategies. Implementing and documenting Quality of Service (QoS) requirements. Creating Design and Engineering Guides, Troubleshoot Guides, Customer Acceptance Test Plans and Solution Upgrade Guides.

<i>October 1999 – September 2000</i>	<i>AT&T Wireless, Paramus NJ U.S.A</i>	<i>Consultant</i>
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Provided telecommunication-consulting services to Wireless Service Providers. Responsibilities included program managing wireless expansion projects, performing NACN compliance testing and Interoperability testing. Managing telecommunication circuit/facility provisioning. Coordinating communication between internal (i.e. Planning, Engineering, Implementation, Operations & NOC) and external facility providers (i.e. LEC, IXC etc.) for activities associated with installation of DACS, DS-1, DS-3, PSTN & IMT facilities. Writing high-level requirements for wireless communications signaling protocols for network element integration. Defining operations support and billing capabilities for wireless prepaid services.

<i>October 1992 - September 1999</i>	<i>Ericsson Inc., Canada and U.S.A.</i>	<i>Telecom Solutions Manager</i>
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Manager of Technical Sale Support. Managed a team of Engineers. Responding to Request for Proposals. Provided technical expertise for a wide range of Ericsson products, including, Generalized Packet Radio System (GPRS), GSM over IP, Dense Wave Division Multiplexing (DWDM), Asynchronous Transfer Mode (ATM) switches, Unified Messaging Systems (UM), Short Message Systems (SMS), Wireless Application Protocol (WAP) Gateways, and IN-based Prepaid System. Handled all technical requirements from customers, defining requirement specifications and following through until product delivery and acceptance. Developed Sales argument and Business Cases. Organized workshops, seminars and presentations for customers.

Product Manager and Team Leader. Responsibilities included strategic product planning of mobile network products and services. Network dimension and capacity analysis. Forecasting and planning of network expansions. Represented Ericsson in a number of Standard bodies. Participated in discussions with FCC and contributed to regulatory guidelines on E911, LNP and CALEA (Lawfully Authorised Electronic Surveillance) and submitted contributions on radio network architectures and interfaces to relevant industry forums and standard committees such as CTIA, TR45.2, GSM MoU, and T1P1.5. Editor of T1P1.5 sub-committee on PCS1900 Number Portability.

Product Marketing Manager. Responsibility included strategic product planning of Intelligent Network products. Products based on both American and European Intelligent Network standards. Supported applications such as Freephone, Universal Personal Telecommunication (UPT), Virtual Private Network (VPN), Prepaid System, and Televoting. Provided Technical Sales Support, Trade Shows demonstration, Customer Presentation of such products. Consolidated market requirements, product definition,, and outlined main product requirements. Developed solutions, fulfilling customer needs with regards to functionality, availability, reliability and profitability. Represented Ericsson in a number of Standard bodies and industry forums.

Mobile Network Designer. Developed mobile network application on the Ericsson AXE platform. Created specifications based on market requirements, develop software modules to comply with the specifications. Generated codes and performed testing and integration into existing platform. Developed and maintained product information and customer documentation. Performed lab and field trials and overall system integration of AXE systems at customer premises. Handled emergency corrections and system configuration setup. Provided design support for field engineers. Train new engineers on Ericsson AXE switching platform.

<i>September 1991 – September 1992 Carleton University, Ottawa Canada</i>	<i>Research Engineer</i>
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Research Assistant, Carleton University. Worked on a number of projects sponsored by Telecom companies such as Nortel Networks whiles in graduate school. Collected performance metrics on a Personal Communication System supporting several Intelligent Network applications. Analysed data to determined system capacity limitations.