**Dr. Muhammad Wasimuddin**

Hayatabad Peshawar

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**INFORMATION TECHNOLOGY PROFESSIONAL**

Experienced IT professional with Ph.D. Computer Science and Engineering (AI) and dual Masters in Electrical Engineering and Technology Management. Over 20 years in IT, teaching, excelling in staff management, datacenter operations, and cybersecurity. Proven success in implementing datacenter infrastructure, disaster recovery, and cybersecurity, zero trust model, SD-Wan across education, health, and public sectors. Strong in problem-solving, documentation, communication, and fostering team collaboration.

**SKILL STRENGTHS**

* Network/Windows/Linux Administration
* Office 365 (Exchange, SharePoint, Teams) Admin
* Active Directory & Azure AD
* Cyber security(Zero Trust Model, SIEM)
* SD-Wan Implementation
* Documentation/SOP
* Automation/Scripting
* Virtualization (Hyper-V, VMware)
* Cloud Infrastructure (AWS, Azure)
* ERP/HER/EMR Implementation

**CERTIFICATIONS/TRAININGS**

* ISC2 CISSP, Azure AZ-900
* CCNA, CCNP Part1
* Virtualization Certified Expert (VCE)
* Oracle Certified Solaris Administrator (OCSA)
* VMware boot camp and troubleshooting
* Splunk 7.x Fundamentals
* MS SharePoint Server Admin
* Red Hat Enterprise Linus (RHEL 5)
* Global Business Conduct and Compliance Program
* Data Safe Guarding and Information Security Policy
* Aruba Clearpass (NAC), Airwave, IMC
* Fortinet NSE4/5

**EDUCATION**

* **Ph.D. in Computer Science and Engineering(AI)**

University of Bridgeport, 2023

* **Masters in Technology Management**

University of Bridgeport, 2011.

* **Masters in Electrical Engineering**

University of Bridgeport, 2008.

(Award: Best Employee of the Year 2007)

* **Bachelors in Computer Science and Electronics** (Distinction Position Holder)

University of Peshawar, 2005.

**Tools**

* **OS:** Windows 11, 2022, CentOS 7, Hybervisor, Cisco IOS, PANOS, ArubaOS, Aruba CX, FortiOS.
* **Software/Applications:** Office 365, Exchange, Sharepoint, AD, Azure AD, Apache, Updox, Phreesia.
* **Security:** Sophos, Sentinel, Guardicore, Okta, ArcticWolf, HP Clearpass, NPS Radius, SIEM/MDR.
* **Management:** Fortimanager, Fortianalyzer, WLC, HP IMC, Nagios, Zabbix, SNMP, Zenmap, Airwave, Connect Wise Control, Barracuda.
* **Networking:** Azure, AWS, DHCP, DNS, OSPF, BGP, SD-Wan, Python, Powershell, Wireless.
* **Web servers/Databases:**IIS, Apache, MSSQL and MySQL administration.

**PROFESSIONAL EXPERIENCE**

**Network and Security Manager** | *CT Orthopaedics Specialists, CT* | Sep 2021 – Dec 2023

* Led networking and security at 20 remote sites and datacenter for CIO
* Implemented zero-trust model and managed multiple initiatives
* Oversaw WAN, LAN, SD-WAN, and security systems
* Managed projects, documentation, and SOPs for business continuity and disaster recovery
* Handled day-to-day operations, end user cases, and vendor relationships
* Mentored teams in cybersecurity, including penetration and vulnerability testing
* Deployed STP, QoS, 802.1x (HP Clearpass) and wireless bridge connections at 20 sites
* Deployed Managed Detection and Response (MDR) with ArticWolf
* Provided Tier 1/2/3 network engineer support

**Assistant Professor** | *University of Peshawar, Peshawar, PK |* Dec 2016 – Present

* Conduct research in Machine Learning (AI) in area of Electronics and Computer Science
* Teach different electronics courses to undergrad, M.Phil. and Ph.D. students
* Supervised research and student projects using Arduino, Raspberry Pi, IoT and other Electronic tools
* Train faculty/staff on datacenter footprint security
* Document SOPs, technical writing guide for student projects
* Member of Electronics Project Exhibition Committee

**Infrastructure & Network Services Manager** | *University of Bridgeport, CT* | Feb 2019 – Sep 2021

* Reported to CIO, build, upgraded and managed datacenter and its admins, staff training, reviews
* Administered network infrastructure, ERP, LAN/WAN, Linux systems, network security projects
* Implemented Unity 450f storage, and Dell IDPA 4400 backup solution and Disaster Recovery site
* Deployed hybrid Exchange, Azure AD, and AWS-based offsite backups
* Upgraded Copper/Centrex POTs lines to VoIP phones (Verizon one-talk)
* Upgraded 200+ network switches from Cisco 2950 to Cisco 2960x stacks

**Lead Network Administrator** | *University of Bridgeport, Bridgeport, CT* | Jan 2016 – Jan 2019

* Reported to CIO, managed on-premise datacenter and core network services/ERP/DB/Applications
* Developed cross-functional training, capacity planning, network projects, security measures
* Created SOPs, security policies, network/systems visio diagrams
* Managed VoIP, VPN, LAN, WAN, BGP/OSPF, campus Wireless, Firewall, Wireless, Load balancer
* Upgraded datacenter firewall Palo Alto (HA), Cable TV to Philo IPTV using Roku for dorms
* Upgraded HVAC for on-premise datacenter with 40KVA to 100KVA backup generator

**Lecturer (Contract)** | *University of Peshawar, Peshawar, PK |* Jan 2013 – Dec 2015

* Taught electronics courses to B.S. Eletctronics
* Provided hands-on IoT training to undergrad and grad students
* Supervised final year projects using Arduino, Raspberry Pi
* Documented SOPs, technical writing guide for student projects
* Member of Electronics Project Exhibition Committee

**Network Infrastructure Engineer** | *IFAST Solutions, Peshawar, PK |*  Mar 2012 – Dec 2012

* Reported to CIO, managed network infrastructure and new projects
* Led RFPs, designed infrastructure, implementation plans, client project use cases and requirements
* Implemented new projects, managing timelines, POCs, and deployment
* Deployed new infrastructures such as Datacenter
* Implemented network, servers, and applications infrastructure including HR and Payroll

**Sr. Systems Administrator** | *Ellucian, Reston, VA |* July 2007 – Mar 2012

* Reported to Executive Director IT, managed on-premise datacenter, LAN, WAN, Switches, Routers
* Managed AD, DNS, DHCP, Radius, Webservers, Firewalls, router/switches
* Upgraded AD 2008, Storage to TEK Array 6140 and Implemented F5 LTM for network load balancing
* Deployed virtual infrastructure with HP blade system (C7000), migrated physical servers to virtual
* Led performance appraisals, solution architectures, RFP analysis, documentation

**EDUCATIONAL PROJECTS**

* New Business Plan, Strategy, Planning, MS Technology Management USA 2011
* Datacenter Temperature Analysis, Total Quality Management, MSTM USA 2011
* State Estimation Using Kalman Filter, MS Electrical Engineering USA 2008
* Fetal ECG LMS Filter, Adaptive Line Enhancer (ALE), Drill Noise Cancellation, MSEE USA 2007
* Computerized Vehicle Tracking System, MSc Electronics 2004

**Publications**

1. Muhammad Wasimuddin, Khaled Elleithy, Abdelshakour Abuzneid, Miad Faezipour, Omar Abuzaghleh, **“Multiclass ECG Signal Analysis Using Global Average-Based 2-D Convolutional Neural Network Modeling”**, MDPI Electronics Journal, Jan 14, 2021.
2. Muhammad Wasimuddin, Khaled Elleithy, Abdelshakour Abuzneid, Miad Faezipour, Omar Abuzaghleh, **“Stages-based ECG Signal Analysis from traditional signal processing to machine learning approaches: A Survey”**, IEEE Open Access Journal, Dec 28, 2020.
3. Muhammad Wasimuddin, Khaled Elleithy, Abdelshakour Abuzneid, Miad Faezipour, Omar Abuzaghleh, **“ECG Signal Analysis Using 2-D Image Classification with Convolutional Neural Network”**, The 2019 International Conference on Computational Science and Computational Intelligence (CSCI), Dec 5-7, 2019.
4. Muhammad Wasimuddin, Omar Abuzaghleh, **“A Key Solution To Vehicle Purchase Process Using Block Chain Technology”,** Faculty Research Day, March 28, 2019.
5. Thomas Arciuolo, Muhammad Wasimuddin, Sushant Singh, Khaled Elleithy, **“A Novel Reversible Four Bit One’s Complement Quantum Gate (OCQG-4B)”**, 2018 9th IEEE Annual Ubiquitous Computing, Electronics & Mobile Communication Conference (UEMCON), Nov 8-10, 2018.
6. Thomas Arciuolo, Muhammad Wasimuddin, Sushant Singh, Khaled Elleithy, **“Iris Print Biometric Identification Using Perceptual Image Hashing Algorithms”**, 2018 9th IEEE Annual Ubiquitous Computing, Electronics & Mobile Communication Conference (UEMCON), Nov 8-10, 2018.
7. Muhammad Wasimuddin, Viyaleta Peterson, Karan Manoj Bhosale, Jeongkyu Lee, **“Branching Artificial Neural Ensemble (BRANE): Supervised Learning For Missing Data”**, 2018 19th IEEE/ACIS International Conference on Software Engineering, Artificial Intelligence, Networking and Parallel/Distributed Computing (SNPD), June 27-29, 2018.
8. Muhammad Asif, Sana Ul Haq, Naveed Ahmad, Tariqullah Jan and  Muhammad Wasimuddin, **“QoS Assurance in Higher Mobility Mobile Ad Hoc Networks using Multipath Admission Control Protocol”,** Pakistan Academy of Sciences Journal, April 17, 2015.
9. Muhammad Wasimuddin, Navarun Gupta, “**Design and Implementation of Least Mean Square Adaptive Filter on Fetal Electrocardiography**”, IEEE, ASEE NE section conference, University of Bridgeport, April 3-4, 2014.
10. Shahid Latif, Muhammad Kamran, Muhammad Wasimuddin, Rahat Ullah and Abou Bakar Nouman, “**Security Enhancement of Fhss Transmission System Using Hopping Sequence and its Compliment (CHS-FHSS)**”, World Applied Science Journal, June 21, 2013.
11. Muhammad Wasimuddin, Luja Shrestha, “**Timestamp Optimization Technique For Quality Of Service In Wireless Sensor Networks**”, ASEE NE section conference, University of Bridgeport, April 3-4, 2009.