

# MUHAMMAD BILAL KHAN

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## CAREER SYNOPSIS:

Professional event work engineer with the necessary drive and determination needed to resolve complex networking issues. Possessing effective organizational skills and excellent working knowledge of networking technologies and having a commitment to keep up to date with the latest developments. Now looking for a new and challenging network engineer position, one which will make best use of my existing skills and experience and also further my development.

## TECHNICAL EXPERTISE:

- CCNA (Cisco Certified Network Associate)      03 Months      Corvit, Lahore
- CCNP (Enterprise Core (350-401) ENCOR)      03 Months      Corvit, Lahore

## PROFESSIONAL EXPERIENCE:



### Designation: Network Engineer (From Feb 2023 – To Date)

#### Responsibilities:

- Managing Network of 3000+ users with Cisco and Ruckus switches.
- Manage SOPHOS Firewall.
- Implementation of Port security on Cisco Catalyst.
- Managing, Installation and maintenance of all network devices
- The configuration of routing and switching equipment.
- Install and configure wireless networking equipment.
- Manage Cisco Wireless Controller (WLC-5520)
- Manage Ruckus Wireless Controller (SmartZone SZ100)
- Cisco VOIP Services (CUCM).
- Install and configure Cisco IP Phones.
- Network monitoring through NMS (PRTG), Solar Winds Orion NPM to ensure
- 24/7 network availability and in-time notification and ticket assignment.
- Generate Network BOQ.
- Installing new hardware (servers, printers, computer workstations, Cisco Switches, etc.).
- Troubleshoot various network issues that affect solutions and collaborate with staff and Outside vendors to resolve complex problems.
- Fixing network faults, Network maintenance, and technical support for Users.
- Coordination with Team on different technical issues and with ISP for 24\*7 Network availability
- Manage information technology and computer systems.

- Design, develop, implement, and coordinate systems, policies, and procedures.
- Plan, design, develop & execute Network infrastructure of Campuses.
- Ensure security of data, network access and backup systems.
- Preserve assets, information security and control structures.
- Knowledge of managing HP Servers, Mail Server, VMware, Active directory, Cisco Switches, Routes and Firewalls i.e. Sangfor M5200 & PFSense.



### **Designation: IT Officer (From July 2022 – Feb 2023)**

#### **Responsibilities:**

- Perform network design and capacity planning.
- Fully support, configure, maintain and upgrade corporate customer's networks and in house servers
- Install and integrate new server hardware and applications Resolve problems reported by end user.
- Define network policies and procedures.
- knowledge of best practices around management, control, and monitoring of server infrastructure
- Experience on firewalls, Internet VPN's remote implementation, troubleshooting, and problem resolution supporting server applications and operating systems.
- Provide helpdesk assistance in resolving software, hardware and network related problems.
- Assist in equipment set-up and software installation and updates.
- Assist in maintenance of telephone systems and computer stations.
- Perform troubleshooting, archiving and back-up of server applications.
- Manage inventory of software licenses, software application, hardware components and IT supplies.
- Generate email and network accounts for new users. Configure computers for new users.
- Update regularly emails and phone numbers of users. Respond to service calls and emails promptly.
- Maintain both internal and external company networks.
- Assist in implementing firewalls and security devices to ensure network security.
- Coordinate with Manager to set user access, permissions and roles to prevent unauthorized access.
- Manage Local and wide area data and voice network by providing access to network resources, maintain equipment and monitoring network performance.
- Interpret needs and oversee planning, installation and documentation of network systems.
- Evaluate and recommend network/telecom hardware and software components as require.
- Works' cross-functionally to execute network strategies.
- Network/telecom internal audit and compliance.
- Check all primary and backup links.
- Conduct training session for non-trained staff.
- Ensure the availability of all network resources for the end user.
- Maintaining and troubleshooting of data and voice network.
- Configuration and management of point-of-sale server and computers.
- Ensure antivirus protection and solution are updated on all client's systems.



**Designation: IT Assistant Networking (From Mar 20 – July 2022)**

**Responsibilities:**

- Maintained communication networks, monitored network performance, and resolved any technical issues
- Install and monitor CCTV camera with NVR and DVR and troubleshoot issues.
- Provide support in implementation of new software to customers.
- Collaborated with colleagues on the improvement of network infrastructure to increase quality, reliability, effectivity, and reduce expenses.
- Installed and configured network devices, including routers, modems, hubs, switches, wireless APs, and WLAN controllers.
- Performed backups of all servers and provided support and assistance to users.
- Completed troubleshooting, tested networks, and performed other duties as required.
- E-mail configuration, Recover E-mail, Repair, Printer Installation, sharing, File Sharing, Configure

**TEACHING EXPERIENCE:**

- Govt. Degree College Karor CTI Lecturer Computer Science (Layyah)
- Govt. Degree College Kot addu CTI Lecturer Computer Science
- Govt. Commerce college Layyah CTI Lecturer Computer Science
- Visiting Lecturer computer science FGK College Layyah

**ACADEMIC RECORD:**

<b>2018-2020</b>	<b><u>MS(Computer Science)</u></b> <b>Government College University, Faisalabad, Pakistan</b> <b>Subject Included:</b> Advance Operating system, Advance Software Engineering, Advance Computer Architecture, Research Methodology.	<b>CGPA: 3.39</b>
<b>2013-2017</b>	<b><u>BS Hons(Software Engineering)</u></b> <b>Government College University, Faisalabad</b> <b>Subject Included:</b> Computer Networks, Computer Graphics, C++, ICT, Software Construction, Operating system, Software Engineering, Computer Architecture.	<b>CGPA: 3.49</b>
<b>2011-2013</b>	<b><u>FSC (Pre-Engineering)</u></b> <b>BISE DG KHAN</b>	<b>1<sup>st</sup> Division</b>
<b>2008-2010</b>	<b><u>Matric (Science)</u></b> <b>BISE DG KHAN</b>	<b>1<sup>st</sup> Division</b>

## PROJECTS:

### Project Name: - Network Infrastructure Deployment

Company: - Unique Group of institutions – (Sahiwal Campus)

Role: - Network Administrator

Project Summary: -

- Plan, Design and deploy Network infrastructure.
- Cisco 3850 Switches Configuration.
- Access Point's Configuration and deployment.
- Wireless controller configuration.

### Project Name: - WLAN Deployment

Company: - Unique Group of Institute

Role: - Network Administrator

Project Summary: -

- Access Point's planning and deployment.
- Access point Configuration.
- Wireless controller configuration

### Project Name: - Network Infrastructure upgradation (KIPS College)

Company: - KIPS College Lahore

Role: - Network Administrator

Project Summary: -

- Cisco 9300 & 9200 48 Port Switches configuration.
- VLAN, VTP, VTY, NTP, SNMP, Trunk & ACL Configuration.

## TECHNICAL EXPERTIES:

Switches and Routers configuration | Window Server Installation | Network installation and Troubleshooting | Wi-Fi Controller configuration and management | CCTV installation and management | Basic hardware troubleshooting | Knowledge of routing protocols such as RIP V1/V2, OSPF | Configure WAN Protocols, including HDLC, PPP | Setting up Ethernet Interfaces | IT and Desktop services | Window and Software Installation

### ROUTING: -

- **Cisco 2800, 2900, 3900** Series Routers
- Static, RIP, RIPv2, OSPF, ACL and Inter VLAN routing.

### SWITCHING: -

- **Cisco Catalyst C1000, 9300, 9200, 2960, 3750, and 3850** Series Switches.
- VLANs, VTP, Trunk, STP, RSTP, MSTP, Ether Channel. IPsec and I SAkmp VPN tunnel.

#### FIREWALL: -

- **Sophos** firewall deployment and policies implementation.
- **PFsense** open-source firewall deployment, configuration, and management.

#### ANTIVIRUS: -

- **Kaspersky** Antivirus Solution Management.
- **Panda** Server base Antivirus solution & Symantec endpoint security management.
- **MacAfee** security management & Bitdefender antivirus solution.

#### SECURITY SURVELLIENCE: -

- **Audio/Video** DVR & NVR configuration and management.
- [Hikvision](#), [Lorex](#), [Reolink](#), [ABM](#) & [Dahua Technologies](#).

#### WIRELESS NETWORK: -

- **Cisco Access Points** (Catalyst 9117AXI & Catalyst 9120AXI).& 5500 Wireless Controller.
- **Unifi Access Points** (UAP-AC-LR, UAP-AC-Pro & UAP-AC-HD) & Cloud base controller.
- **TPLink Access Points** (EAP245)

#### LANGUAGES:

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- ✓ English (Conversional)
- ✓ Urdu (Expert)
- ✓ Punjabi (Expert)