



UMAIR ALI SHAH

Network Planning, Design and Deployment Engineer (Ip-Core and FTTP)

Cisco Certified Network Associate || HCIE (Datacom)-13957 || PRINCE2® Practitioner Certified

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Career Summary

I am a driven, self-motivated, and experienced network professional with 15 years of experience in the telecom industry. I have successfully designed and delivered small and large ISP and OSP projects. My proven track record includes managing multi-disciplinary teams and overseeing various aspects of project delivery, such as network planning, deployment, operation, and maintenance.

I offer comprehensive IP Core and FTTP network solutions that drive efficiency and performance. My services include:

- ✓ IP Core Network Planning (HLD, LLD)
- ✓ IP Core Network Development, Testing, and Handover
- ✓ Network Operation and Maintenance
- ✓ *Project Management and Project Control Management*
- ✓ FTTP Survey, Planning, and Design
- ✓ *Network Deployment (Splicing, PN/SN Node Installation, MDU Installation)*
- ✓ Power Meter and OTDR Testing
- ✓ As-Built

Technical Proficiencies

- **Network Fundamental:** Router ID, Classless and classful Subnetting, IP addressing and Ethernet fundamentals, network access, IP connectivity, IP services, Wildcard Mask, TCP/IP Routing, Rate Summarization, Routing Table, Autonomous Number System, Clock Rate, Keep-Alive, WAN technologies and QoS mechanisms
- **Routing Protocol:** OSPF, RIP, RIPV2, BGP, IGRP, EIGRP, ISIS, Hybrid Protocol, Scalable Routing, Routed Protocol, Static and Default Routing
- **Security:** Fortinet Firewall Configuration, Access Control List (Standard + Extended, Name & Number), IPsec and VPN operations, LAN security threat mitigation, Layer 2 Security, BPDU Guard, DHCP Snooping, Root Guard
- **Network Automation:** Network Automation and optimization, software-defined networking, virtualization, and automation.
- **Operation:** Configuration and troubleshooting of network devices, Installation of IOS from TFTP/FTP server
- **Switching:** VLAN, Access Port, Trunking, VTP Modes, Domain Name, NAT/PAT, DHCP, ARP, Native VLAN, STP, RSTP, MSTP, Ethernet Channel, InterVLAN Routing,
- **Microsoft Azure:** Microsoft Office 365 Admin: Azure Admin: Public Cloud: Private Cloud: Active Directory Domain Services: Virtual Machine: LAN Card: Networking: Storage: Azure Resources: Domain creation.
- **FTTP:** HLD to RFC Planning and commissioning: Fibre to the Premises Link Budgeting: Network optimization: OSP/OFC route and cost analysis: Long Haul Network Link budgeting of optical network: Identify & manage design and implementation assumptions and Risk: Managing and monitoring OFC network deployment: Onsite Survey and Audit: PIA Network Solution (UG and OH): Onsite Auditing and As-built Completion.
- **Project Management:** Project planning and Monitoring: Managing and monitoring network deployment: Team

Management: Manage and control Project implementation plan: Risk and Assumption Management: Revenue and Cost: Stakeholder Engagement: Customer Management. Tolerance Management.

➤ **Hardware & Software Expertise:** Cisco Routers: 2600, 2800, 2900 Series. Cisco Switches: Catalyst (2960, 3650, 3750, 3850); FG-30E, FG-50E: Huawei Net Engine Enterprise Service Router: Huawei NE40E Universal Service Router: QGIS / ArcGIS: AutoCAD: MS Project Pro and Visio: Openreach Customer Portal: Plan and road Works Tool: Fujikura Splicing machine 60S 62Sand 80S and 90S: Sumitomo Splicing machine 71C and 72C: EXFO OTDR FTB200.

Training and Certification

• PRINCE2® Practitioner Certified	PRINCE2® Foundation Certified
• CCNA 200-301	Huawei Certified ICT Expert (Routing and switching)
• HCIP (Advance Routing and Switching)	HCNA Routing and Switching
• Office 365 Administration	Azure Administrator
• SA001 - Overhead Safety	SA002 Underground Safety
• S5 PIA Pole Survey	S006 PIA Duct Survey
• Fire Marshal	Manual handling and Cat & Genny
• AutoCAD	FTTH Design

Educational Background

- Bachelor of Technology Electronics (Telecom)

Employment History

<u>Implementation Manager</u>	<u>Sep 2024 – Present</u>
<u>Netelz Ltd</u>	

➤ Led onsite technical execution of fiber and data infrastructure projects, ensuring compliance with design specs and safety standards.

➤ Supervised installation, splicing, and testing of fiber optic networks, including both active and passive components.

➤ Managed contractors and field teams, assigning tasks, resolving technical issues, and maintaining quality control.

➤ Conducted OTDR and power meter testing to verify link performance and network readiness.

➤ Maintained clear documentation of site activities, test results, and as-built records for handover.

➤ Coordinated with project managers, vendors, and backend teams to ensure smooth delivery and issue resolution.

➤ Enforced HSE protocols and conducted routine site inspections and toolbox talks. Interface with local authorities, landlords, and utility providers for site access and permissions.

➤ Collaborate with implementation managers to align on project timelines and milestones.

➤ Assist in the final project handover by providing all necessary documentation and support.

➤ Ensure a smooth transition from deployment to operations/support teams.

<u>Network Planner</u>	<u>Feb 2022 – Aug-2024</u>
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Zzoomm PLC

The major responsibilities are.

- Plan and design HLD, LLD, BOM/BOQ, and RFCs for Build/Fibre teams.
- Prepare designs for Access, Feeder, and Distribution layers (SDU and MDU) for construction readiness.
- Plan routes from Cabinet to Primary Node and Primary Node to Secondary Node, specifying cables & splitters.
- Develop cost-effective designs adhering to Network Architecture and PIA standards.
- Manage and implement design change requests with onsite solutions.
- Forecast risks and produce CapEx and OpEx for infrastructure projects.

- Monitor network deployment, conduct audits, and finalize As-Built designs.
- Collect as-built data, highlight variations, and update civil and optical designs.
- Lead surveyors for onsite surveys and joint walkouts.
- Create statistical and graphical project data representations for higher management. Monitor team activities and tasks using ArcGIS, AutoCAD, etc.
- Manage the design tracker and resource allocation with internal and partner teams.
- Assist the Project Team in forecasting RFS quantities and developing implementation plans.

Network Manager

March 2020 – Dec 2021

Huawei Tech. Investment, KSA

As Network Manager for the MOI Network Deployment Project at Huawei:

- Created DDs, scripts, topology diagrams, port mappings, and RCAs.
- Monitored network deployment progress and planned according to PIP.
- Implemented MPLS backhaul technologies (L3 VPN/L2VPN).
- Managed KPIs, SLAs, trouble tickets, work orders, reports, ATPs, and project documentation.
- Developed high-level and low-level solutions, maintained topology databases, and obtained DTRB approval.
- Facilitated customer approval for designs and solutions.
- Supported field engineers in node installation, integration, migrations, and ATPs.
- Reviewed project progress daily, communicated key actions and reports internally and defined implementation processes for acceptance.

Implementation /Design Team Lead

Oct 2015 – March 2020

Huawei Technologies, Pakistan

As Design and Implementation Team Lead for transmission projects including DWDM, FTTX, & long-haul fibre:

- Managed L-2 and L-3 queries configured AR-2200 and NE-20 routers, and L-3 switches.
- Oversaw network deployment, testing, and operation and maintenance.
- Planned and designed HLD, LLD, BOM/BOQ, and RFCs for Network teams.
- Reviewed OSP route design proposals per contractual requirements and prepared route cost analyses.
- Provided trenching and cable laying solutions during implementation according to defined standards.

Transmission Engineer

June-2010 - Oct-2015

Nayatel Pvt Ltd, Pakistan

As a Transmission Engineer in Nayatel's transmission department, my main responsibilities included:

- Managed OFC network deployment, planning, commissioning, and quality testing.
- Conducted network deployment, testing, and operation and maintenance.
- Maintained POPs and optimized FTTC, FTTH, and FTTB networks.
- Performed technical surveys and designed optical networks.
- Designed FTTM, FTTB, FTTC, FTTH/GPON, DWDM, OLTs, and ONU networks