

MAHAMUDUL HASAN

PROFESSIONAL SUMMARY

Senior Network Engineer with 18+ years of experience specializing in optical transport networks, DWDM and data centre interconnect solutions. Expertise across LAN/WAN, MPLS-TP, Carrier Ethernet and data center connectivity with strong experience in incident management, network performance optimization and lifecycle delivery. Proven ability to lead complex network issues, improve availability and support secure and scalable infrastructure. Experience in cross-functional collaboration across operations, deployment and engineering teams. Developing expertise in network automation, infrastructure as a code and cloud-connected networking to support modern AI and software-defined infrastructure environments

WORK HISTORY

Tata Communications – Network Engineer

Melbourne, Australia

07/2023 - Current

- Provided specialist engineering support for complex telecommunications systems across Nokia optical network environments in a 24x7 operational setting
- Applied AI-driven analysis of network telemetry and logs to enhance troubleshooting and accelerate impact assessment, reducing incident enrichment time by 30% and improving service reliability
- Maintained 98% SLA compliance and 95% KPI performance, ensuring continuity of service for critical network infrastructure
- Directed a team of six offshore engineers in fault monitoring and resolution, meeting weekly aggregated KPIs for network incidents
- Contributed to continuous improvement of operational procedures, enhancing network reliability and performance

nbm Australia - Core Network Engineer

Melbourne, Australia

04/2018 - 06/2023

- Developed and reviewed MOPs ensuring safety, compliance and successful integration of telecommunication infrastructure
- Supported lifecycle management of telecommunications systems including upgrades, augmentation, and replacement within a 24x7 safety-critical environment
- Managed DWDM, IP/MPLS (7750/7210), GPON, and DSLAM technologies within operational and regulatory frameworks

Melbourne, VIC 3024

+61436329422

mhsumon85@gmail.com

linkedin.com/in/mahamudulhasan85

SKILLS

- AI assisted troubleshooting
- DWDM, MPLS-TP, Carrier Ethernet
- Data centre interconnect
- Optical network architecture
- Optical service provisioning
- Fibre optic and copper cabling
- Optical performance optimization
- Python (Basic)
- HLD/LLD preparation

EDUCATION

04/2007

Khulna University of Engineering & Technology

Khulna, Bangladesh, Bangladesh

Bachelor of Science : Electrical & Electronic Engineering

CERTIFICATION

- nbm AI Literacy Fundamentals
- nbm Data Literacy Fundamentals
- AWS Certified AI Practitioner - Early Adopter
- Microsoft Certified - Azure AI Fundamentals

- Applied structured change management processes to maintain system integrity and minimize service disruption
- Collaborated with field teams and stakeholders to ensure safe execution of engineering activities aligned with compliance and operational standards
- Authored detailed troubleshooting procedures that streamlined fault resolution processes, enabling other engineers to reduce troubleshooting time by 50%
- AWS Certified Solutions Architect - Associate
- AWS Certified Developer Associate
- AWS Certified SysOps Administrator - Associate
- Cisco Certified Network Associate

Ericsson - Senior Network Engineer

Dhaka, Bangladesh

01/2008 - 08/2017

- Designed and deployed end-to-end telecom transport networks incorporating DWDM, carrier ethernet, and microwave technologies to support high-capacity and scalable infrastructure solutions
- Managed technical deliverables across project lifecycle including scope, cost, risk and stakeholder engagement
- Produced legacy network migration strategies, service designs, and detailed-level network architecture within a telecom service provider environment to enable seamless transitions and service reliability
- Delivered high-impact presentations to senior stakeholders, clearly articulating architectural strategies, design trade-offs, and technical decisions to guide project direction and alignment with business objectives
- Applied safety-in-design principles during planning and execution of network upgrades

KEY ENGINEERING PROJECTS

- Led end-to-end design and deployment of carrier ethernet network to support 4G/5G mobile backhaul that reduced network infrastructure cost of customer by 50%
- Led investigation, impact analysis, customer notifications, network augmentation and restoration of critical network incidents in a 24x7 network management center environment
- Led analysis and mitigation of priority one safety critical incidents in a 24x7 NOC environment ensuring safe, compliant and timely resolution of issues impacting critical infrastructure
- Passed nbn AI literacy fundamentals, Azure AI fundamentals and AWS AI practitioner early adopter beta exam showing passion for learning and applying AI at work