Khan Imtiaz Mahmud Alam

Work Status: Australian Permanent Resident

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I have a record of pro-active engineering leadership in changing or evolving markets and technologies. I have broad experience in engineering operations and management, research and development, and as technology subject matter expert in emerging network engineering architecture and optimization. I showed consistent success improving performance while slashing costs-delivering savings for all companies through technology innovation and strategic sourcing/management of equipment and service providers with a multi-million record of cost savings. I possess multifunctional capabilities with the ability to assure and excel diverse operational assignments outside the scope of original assignment. My areas of expertise include:

* Transmission Network Design and Operation
* DOCSIS, HFC and FTTx technology
* Wideband technology
* Database Management
* Incident Management
* Disaster Handling
* Resource Optimization
* Inventory Management
* Process Development
* New Equipment Training

Technical Proficiencies

**Technical Expertise**:

* *Transmission Design Tools: AND 4.9 for HFC, SpatialNet Modelling for FTTx, Pathloss & Elipse for Microwave link*
* *Drawing/Survey tools: ArcGIS ,AUTOCAD, Bluebeam*
* *Design and Planning Area:* HFC SDU/MDU, FTTx(FTTP,FTTB, FTTN), Hybrid Microwave link
* *OTDR Tester:* EXFO, CORNING
* *Splicing Machine:* Fujikura
* *Features:* QoS, AMR, MSTP, RSTP, ERP, MPLS-TP, LAG, LACP, Radio LAG, Eth Trunking, L2VPN
* *Packet and Hybrid MW Products* : NEC(iPASOLINK200, iPASOLINK400, iPASOLINK1000, iPASOLINK100E, iPASOLINK400A), Huawei(RTN905, RTN910, RTN950, RTN980) and SIAE(ALCplus2, ALCplus2e)
* *ISM Band Radio*: Cambium IP Radio
* *PDH and SDH MW Product:* NEC(Pasolink,Pasolink+,3000s), Siemens(SRAL, SRAL XD, SRA3, SRA4, SRT1C) and Ericsson(Minilink)
* *NMS operation*: PNMSj,U2000, NMS5UX, Netviewer
* *ADM*: Surpass hiT DC7070, SC7070, SC7050, SMA
* *DWDM*: Optix OSN 3800/6800/8800
* *Routers*: Juniper - MX960/480/240 || Cisco- VXR 2600/2800, 3845/3745, || Huawei- NE40E-X8/X2
* *Switch*: Juniper- EX4200
* *Protocols*: BGP, OSPF, EIGRP, RIPv1, RIPv2

**Certification:**

* ITIL® Foundation certified in ITSM registered by AXELOS and EXIN (5619668.20507362)

Training and Development

* NBN Type 2.0 Architecture and SpatialNet Modeling Brown Field Theory & Practice by TELEAUS Solutions(1 day, Mascot-NSW) – May 2016
* HFC MDU planning and design by TELEAUS Solutions(1 day, Mascot-NSW) – April’2016
* Huawei next generation MW features testing(8 days, China) – October’2014
* Training on Microwave link planning and design(3 days)
* Training on Cambium ISM Band Radio unit operation ( 3 days)
* Huawei RTN planning (5 days)
* Training on IPRAN applications for 3G Network. (5 days)
* CCNA Routing and Switching (5 days)
* JUNOS for Routing and Switching (5 days)
* 3G Workshop for Radio and Transmission network readiness(1 day)
* Training on DWDM technology- Huawei Optix OSN 3800 / 6800 (14 days)
* Training on Microwave NMS Operation (2 days)
* Basic Training on PDH System, SDH Transmission and RBS (3 days).
* Fiber Splicing Development Program and SDH overview.(3 days)
* Training Microsoft Office 2007 (2 days )

Education

* Bachelor of Science in Electrical and Electronic Engineering(2002-2007)

Bangladesh University of Engineering and Technology, Dhaka Bangladesh

* Executive MBA in Technology and Operations(2014-2015)

Institute of Business Administration, University of Dhaka, Bangladesh

Professional Experience

**TELEAUS SOLUTIONS, Mascot, NSW, Australia (**[**http://teleaus.com.au/**](http://teleaus.com.au/)) **April’2016-Present**

**HFC & FTTx Engineer**

* Design of HFC MDU/SDU following NBN Network Architecture 2.0.
* Work with NBN designers, constructors and planners across Telstra and NBN FSAM design evaluation of NDD (Network Design Document), FIR(Field Inspection Report) and DDD(Detailed Design Document) against use of maximizing principles and fitness rules.
* Design the customer network to reduce customer and O&M impact.
* Prepare diagram for RF calculation with optimum signal level, required number of devices following Optus and Telstra rules.
* Field Survey at MDU and SDU for drawing and prepare report using Bluebeam.

**GRAMEENPHONE LTD (Telenor Group), Dhaka, Bangladesh Sep’2013-April’2016**

**Senior Lead Engineer- Service Operations**

* 2nd and 3rd level support for transmission service activation, provisioning and faults by orderly management.
* Provide drawings/prototypes/research/presentations in support of technical sales meetings/teleconferences with customers as required to develop new business and resolve existing product related issues
* Set Acceptance criteria and design verification of new transmission link.
* Analysis of Optical and Microwave Transmission related faults and prepare a guidelines for smooth trouble-shooting
* Coordination of multi-tasks (troubleshooting, reporting, training, support etc) so that they can be completed on time.
* Auditing and Managing different product partners/vendors for service related issues and performance evaluation
* Verification and report preparation on new equipment before applying in real network
* Monthly IP transmission faults and outage analysis and action points set with stakeholders to improve scenario
* Logical preventive maintenance of SDH & Packet Radio Network and prepare a way forward against findings
* Create written design documentation and Job-aid training in support of network configurations and new technology introductions including detailed implementation project plans and procedures
* Inventory design and dimensioning for smooth spare management for O&M, LOS-break triggering, preparing way-forward and reporting.

**Key Contributions:**

* Design analysis of 400km optical fiber laying for Abis over IP and 3G projects in Grameenphone.
* Spike fiber protection of 22 OF sections through MW links.
* Operation support 900 km Railway fiber shifting project during 4lane expansion work at Tongi-Bhairab-Sylhet and Comilla-Sylhet routes Customized operation manual for ISM band Radio equipment( Cambium Networks)
* Prepared Guidelines and conducted knowledge sharing sessions on Ethernet feature operation in MW transmission network for smooth migration of TDM sites to IP sites.
* Methodology of Bandwidth Utilization calculation and auto-report generation for 1st line monitoring.
* Initiated and applied logical protection features (MSTP, ERP, LAG and MPLS-TP) in Grameenphone Microwave Transmission network to capitalize optimum bandwidth.
* Design, testing and applied Quality of Service in MW Ethernet service.
* Introduced and Developed Configuration process of Inband Network Management system which saved OpEx of BDT1.5 MN.
* Initiate and successfully implemented BW up-gradation project and MW Configuration tuning project.

**GRAMEENPHONE LTD. (Telenor Group),Dhaka,Bangladesh May’2010-Sep’2013**

**Lead Engineer- Network Operation**

* Ensure 24x7 supreme network quality for the corporate clients of industrial zone in order for holding the impression and continuing revenue growth
* Troubleshooting of faults as per trouble tickets or fault alarms from NOC monitoring tools and escalate to 2nd level if required.
* Overhaul and all technical jobs like Blowing, Splicing, OFC testing (OTDR) and Link Testing with Laser Source-Power Meter. Preparing budgets and bids for tenders of Clients.
* Co-ordination and activity assignment of team-players to meet different project deadline and retain smooth network infrastructure
* Report and analysis of faults and initiate proactive projects to reduce similar faults in future
* Maintain database of all fixed assets under the sub center to ensure SOA and FA compliance
* Implementation of different cost efficient projects to meet operational excellence
* Report to Regional Manager and assist him to achieve functional objectives
* Ensure preventive maintenance of all sites and network elements under the sub-centre to reduce fault.

**Key Contributions:**

* Swapping 300 legacy (TDM) microwave links with Hybrid (packet+TDM) Microwave links
* Initiated Fiber relocation project as preventive action to restrain optical fiber break due to extensive road extension work.
* Operation support 900 km Railway fiber shifting project during 4lane expansion work at Tongi-Bhairab-Sylhet and Comilla-Sylhet routes.
* Update of As-building drawings of Dhaka-Mymensingh regions

**GRAMEENPHONE LTD.(Telenor Norway,Dhaka,Bangladesh June’2007-May’2010**

**Deputy Superintendent Engineer/ System Engineer- Network Operation**

* 24x7 on-call and roster based 1st line troubleshooting and monitoring of Transmission equipments and Radio Base stations deployed in GSM network.
* Troubleshooting of optical fiber cut incident by fault localization from OTDR measurement, fault identification using as-build drawing and fault restoration by re-splicing using splicing machine
* Securing Optical fiber routes, Hand-holes, marker pillars and update As-build drawing after each fault restoration or optimization planned work.
* Fault diagnosis, Service restoration within SLA and fault database update.
* Co-ordination of Microwave Transmission projects under Barisal region
* Software upgradation of Transmission equipment e.g. hiT, SMA and IDU.
* Acceptance of new Microwave and optical fiber links
* Ensure preventive maintenance of all Transmission and Radio elements.
* Re-routing and Traffic shifting of different sites and links for smooth transmission.

**Key Contributions:**

* Co-ordination of MW and GSM Antenna realignment project in Barisal region
* Implement DVS project to reduce OPEX from AC running cost

Personal Information

**Father’s name :** Giash Mohammad Alamgir

**Mother’s name :** Latifa Sultana

**Date of birth :** 12th October, 1983

**Gender :** Male

**Marital Status :** Married

**Spouse Name :** Israt Jahan

**Nationality :** Bangladeshi

**Religion :** Islam (Sunni)

References

**Zahangir Alam**

Technical Specialist

NBN Survey, Design and Geospatial

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