PRATAP SINGH DARJEE

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SUMMARY

I have led the Safecity project in Bhutan for six years. This project includes a server-based Security Surveillance System, a Vehicle License Plate Recognition system, and an Alarm Management System. I was responsible for creating the engineering drawings, IP plan, setup, configuration, and implementation of these systems at various sites. Additionally, I maintained the network switches, servers, decoders, storage units, databases, applications, and backup power systems. The fiber networking for the project was carried out through the fiber infrastructure of Bhutan Telecom Limited (BTL) and the Department of Information Technology and Telecom (DITT), and I worked with them to maintain the network. There was a support agreement for software and hardware updates with RAD, Bynet Software Solutions, and HTS International, and I closely collaborated with them on this. These companies are based in Israel and have projects throughout the USA and Canada.

EDUCATION

Algonquin College, North York, ON

Computer Programming 2023 – 2025

- HTML, CSS, JS, React, PHP, Java
- System Analysis and Business analytics
- Android Programming
- Database Management systems
- GNU/Linux OS system
- Network Programming

Jigme Namgyal Engineering College

Diploma in Electronic and Communication Engineering 2014-2017

- Applied Mathematics
- Computer Programming and Application
- Communication Engineering
- Physical Networking
- Microprocessors, Microcontrollers, and
- Interfacing Devices
- Wireless Communication

SKILLS

- Network Equipment & Tools: routers, switches, servers
- Network Management & Systems: NMS,CLI,GUI
- Fiber, Ethernet, and Wireless Networking: Fiber optics, ethernet, BTS, antennas
- Advanced Telecom Technologies: CWDM,DWDM,PTN
- Switch Management & Network Simulation: Cisco packet tracer, meboxtreme, putty
- Power system: EM, MCB, MCCB, TVSS, UPS(Emerson &Ericsson), Backup Battery

CERTIFICATIONS

- CCTV and VLPR training by Bynet Software System, Israel and India 2017
- ICT Project Management and System Design training by Bynet Software Isreal 2017

PROFESSIONAL EXPERIENCE

ICT Technical Project Lead

Royal Bhutan Police & Bhutan Telecom 2017-2023
Safe City Project ICT Technical Lead

- Coordinated and managed the Safe City project with a budget of 147 million BTN.
- Planned and coordinated the installation of the Vehicle License Plate Recognition (VLPR) system at various sites, with a budget of 6 million BTN for each site.
- Planned and coordinated the use of govNet, the ADSS fiber network of DITT, which spans across the country.
- Coordinated and maintained fiber technologies like PTN, DWDM, CWDM, fiber patch panels, fiber joint closures, and repeater switches (Cisco and Juniper) for BTL and DITT.
- Managed networking in server and control rooms, which included MCBs, fiber patch panels (96F), fiber switches (Cisco), fiber SFPs (1G and 10G), Ethernet core switches (stacked and Cisco), master servers, recording servers, VLPR servers, alarm servers (all running Windows Server 2012 R2), HDR, NVR, decoders, display wall matrices, and workstations.
- Managed power systems in the power backup room, which included MCCBs, MCBs, TVSS, Emerson UPS, DC backup batteries, AC units, and earthing.
- Maintained camera sites, which consisted of IP66 cabinet boxes, indoor joint closures, SFPs, Korenix switches, lightning protectors, cameras, I/O devices, temperature sensors, door lock relays or switches, EMs, MCBs, and earthing.
- Maintained VLPR sites, which included IP66 cabinet boxes, LPR cameras, trigger/loop detection units, ADAM units, and HTS controller application servers (Windows Server 2012 R2).
- Integrated the VLPR system installed at various sites with the main VLPR server and managed the MySQL database to store data, set alert messages, and query data.
- Added all cameras and VLPR sites to the alarm server and managed alert messages related to power faults, open doors, and exceeding cabinet temperatures.
- Wrote and updated Standard Operating Procedures (SOPs) to recover systems from disasters for subordinates and conducted training sessions for technicians and operators to ensure the smooth functioning of the project.
- Coordinated the Issue Ticketing System with BTL, RAD, Bynet Software Solutions, HTS, and provided assistance during support activities.

ICT and Communication Engineering Intern

Bhutan Telecom Limited, Gelephu 2016-2017

- Installed, configured, and troubleshot various network equipment.
- Utilized Network Management Systems (NMS), working with both Command Line Interface (CLI) and Graphical User Interface (GUI) for efficient network monitoring, configuration, and maintenance.
- Deployed, managed, and troubleshot fiber-optic and Ethernet networks, along with cellular networks (Cell/BTS) and antennas.
- Worked with advanced telecom technologies such as CWCM (Carrier Wavelength Channel Management), DWDM (Dense Wavelength Division Multiplexing), PTN (Packet Transport Network), SDH (Synchronous Digital Hierarchy), and 4G densification technologies to ensure optimal performance of modern telecom infrastructure.
- Utilized Cisco Packet Tracer for modeling and troubleshooting network scenarios.