

JOHN RIZMOND ALFONSO

NETWORK ENGINEER

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PROFESSIONAL OBJECTIVE

To contribute to Mathaino's growth as a Co-Founder by delivering secure, reliable, and high-performing network solutions that address the evolving technology needs of our clients. With a strong background in designing, implementing, and managing network infrastructure, configuring and troubleshooting network devices, firewalls, and security protocols, I aim to apply my technical expertise to build resilient and scalable solutions while sharing practical knowledge that helps clients understand, maximize, and confidently manage the technologies they invest in.

EDUCATION

Bachelor of Science: Electronics and Communication Engineering

University of the East – UE Tech Caloocan, 1400 Kalakhang Maynila

2005 – 2010

PROFESSIONAL EXPERIENCE

Senior Network Engineer

Okada Manila | 2020 – Current

Network Design and Implementation

- Design and implement network infrastructure to meet organizational requirements.
- Plan and deploy network hardware such as routers, switches, and firewalls.
- Lead and manage network-related projects such as migrations, upgrades, and new implementations.

GPON (Gigabit Passive Optical Network)

- GPON Architecture & Design: Knowledge of OLT, ONT/ONU, and splitter configurations for enterprise and hospitality network distribution and for Gaming and Hotel.
- OLT Configuration & Management: Experience configuring and managing GPON OLT platforms for user provisioning and service activation.
- ONT/ONU Deployment: Installation, activation, and troubleshooting of Optical Network Terminals (ONTs) and Optical Network Units (ONUs).
- Fiber Optic Infrastructure: Proficient in fiber termination, splicing, OTDR testing, and signal loss measurement.
- PON Port Management: Configuring VLANs, service profiles, and bandwidth allocation for GPON subscribers and endpoints.
- Monitoring & Maintenance: Skilled in using network management tools for GPON performance monitoring, alarm handling, and preventive maintenance.
- Integration: Experience integrating GPON systems with Ethernet switching and routing environments for seamless LAN-to-PON connectivity.

DNI & Cisco Switching

- Switch Configuration & Management: Skilled in configuring and managing DNI and Cisco Catalyst switches for enterprise and campus networks.
- VLAN and Trunking: Proficient in VLAN segmentation, trunk port configuration (802.1Q), and inter-VLAN routing for efficient network segmentation and traffic control.
- Spanning Tree & Redundancy: Experienced in STP, RSTP, and EtherChannel configuration to ensure loop prevention and link redundancy.
- Port Security & Access Control: Implemented MAC-based port security, DHCP snooping, and dynamic ARP inspection to enhance network protection.
- Layer 2/3 Troubleshooting: Skilled in using CLI commands (e.g., show interfaces, show vlan, show spanning-tree) for fault isolation and network performance analysis.
- Switch Stack and Uplink Management: Experienced in configuring stacked switches, redundant uplinks, and link aggregation for high availability.
- Firmware & IOS Upgrades: Performed switch firmware and IOS updates, backup, and recovery operations with minimal downtime.

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- Network Documentation: Prepared and maintained switch topology diagrams, port mapping, and configuration records for operational reference.
- Integration: Supported integration with GPON networks, firewalls (Palo Alto/Fortigate), and Cisco ACI environments for unified infrastructure design.

Palo Alto & Fortigate Firewall

- Firewall Administration: Experienced in configuring, managing, and maintaining Palo Alto Networks (NGFW) and Fortigate Firewalls in enterprise environments.
- Security Policy Management: Skilled in designing and implementing security rules, NAT policies, and application-based filtering to enforce granular access control.
- VPN Configuration: Configured and supported IPSec site-to-site VPNs, SSL VPNs, and GlobalProtect for secure remote connectivity.
- High Availability (HA): Implemented active/passive and active/active HA configurations to ensure network redundancy and seamless failover.
- Traffic Monitoring & Troubleshooting: Utilized Palo Alto Panorama, FortiManager, and built-in monitoring tools for real-time traffic analysis, log inspection, and event correlation.
- Firmware & Policy Migration: Performed firmware upgrades, policy optimization, and migration of security configurations between environments.
- Network Segmentation: Designed and implemented zone-based segmentation and virtual firewalls (VSYS/VDOM) for multi-tenant or departmental isolation.

Cisco ACI (Application Centric Infrastructure)

- ACI Fabric Deployment & Management: Experienced in the design, configuration, and administration of Cisco ACI fabric, including spine-leaf topology, APIC controllers, and endpoint groups (EPGs).
- Tenant & Policy Configuration: Skilled in creating tenants, bridge domains, contracts, filters, and VRFs to segment and secure multi-tenant data center environments.
- Application Profiles: Configured Application Network Profiles (ANPs) to define relationships between EPGs and enforce traffic flow policies.
- Integration & Migration: Supported integration of traditional networks with ACI through L2/L3 external connections and migration of legacy VLAN-based architectures.
- Fabric Discovery & Health Monitoring: Performed fabric discovery, node registration, and health score analysis using APIC dashboards and telemetry tools.
- Network Segmentation & Security: Implemented micro-segmentation and contract-based access control for application isolation and compliance.
- Troubleshooting: Diagnosed connectivity and policy issues using EPG endpoint tracking, traceroute within ACI, and fabric log analysis.
- Firmware & Upgrade Management: Assisted in firmware upgrade planning, maintenance windows, and post-upgrade validation to ensure minimal service impact.

IT Engineer

Okada Manila | 2016 – 2020

Structured Cabling Design & Implementation

- Designed and implemented structured cabling systems supporting casino operations and hotel networks.

Fiber Optic & Copper Cabling

- Managed deployment of fiber optic and copper backbone to support high-availability connectivity across gaming, hotel, and back-of-house areas.
- Ensured all network cabling installations adhered to TIA/EIA and ISO standards for performance and safety.
- Conducted cable testing, labeling, and documentation for as-built records and network schematics.
- Provided technical recommendations for infrastructure expansion and modernization projects.

Integrated Antenna Systems (IAS)

- Designed and implemented the Integrated Antenna System (IAS) to enhance indoor mobile signal coverage across critical areas of the facility, including gaming floors, hotel towers, and back-of-house zones.
- Coordinated with telecom providers and system integrators for the installation, testing, and optimization of Distributed Antenna System (DAS) components, such as remote units, splitters, and antennas.

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- Conducted site surveys and signal strength validation to ensure balanced RF distribution and compliance with carrier specifications.
- Managed fiber and coaxial backbone cabling for IAS connectivity between main equipment rooms and remote antenna nodes.
- Supported troubleshooting and performance monitoring to maintain optimal cellular coverage for all major mobile carriers within the property.

Carpark Management Systems (CPMS)

- Led the design and implementation of the Carpark Management System (CPMS) to support automated parking operations, including entry/exit control, ticketing, and payment systems.
- Coordinated with system vendors and contractors for the installation of barrier gates, ticket dispensers, license plate recognition (LPR) cameras, and loop detectors.
- Oversaw the deployment of structured cabling and fiber backbone interconnecting parking equipment, control rooms, and network switches.
- Prepared as-built drawings, equipment inventory, and test documentation for system turnover and future maintenance.

Background Music (BGM) and Public Address Monitoring (PAM)

- Managed the installation and integration of the Background Music (BGM) and Public Address Monitoring (PAM) systems across public areas, gaming floors, and back-of-house zones.
- Coordinated with audio system vendors and contractors for the setup of amplifiers, speakers, controllers, and zoning equipment to ensure consistent sound coverage and clarity.
- Designed and implemented structured cabling routes and terminations to support audio signal distribution and network connectivity for centralized control.
- Collaborated with the Facilities and IT teams to integrate the BGM/PAM system with fire alarm, paging, and emergency broadcast systems.

Room Control Unit (RCU)

- Designed and deployed structured cabling and network connectivity between RCUs, gateways, and building management servers to ensure stable communication.
- Integrated the RCU system with Property Management System (PMS) and Building Management System (BMS) to automate room status updates and energy-saving functions.

Project Engineer

ENJ Distributors, Inc. | 2014 – 2015

CHARACTER REFERENCES

Jayrald Mariano — Senior Manager — 09177939793

Joshua Isip — Network Specialist — 09985961289

John Bryan Villanueva — Sr. IT Engineer — 09774073376