NIYITANGAERIC

Senior Network Engineer

CONTACT

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CERTIFICATIONS

. **HCIP Advanced Routing and Switching**
. **HCIP WLAN**
. **CCNA Routing and switching**
. **CISCO IT Essential**
. **Cyber security for service work**

TECHNICAL KEY SKILLS

- IPRAN, IP Metro, MPLS, MPLS-TE
- Servers, switches
- BGP, MP-BGP, OSPF, IS-IS
- L2VPN, L3VPN, VPLS, VRF
- VLAN, STP/RSTP, VRRP/HSRP
- Enterprise WLAN (AC + Fit AP)
- Firewall, NAT, ACL, IPSec, SSL VPN
- Huawei NCE / iMaster NMS
- DNS, Active Directory, DHCP
- VMware vSphere, FusionCompute
- CCTV / IP Surveillance Systems
- Site Survey & Low-Level Design
- Commissioning, Cutover & Acceptance
- Network O&M, Incident Response, DR

EDUCATION

B.Sc. Information & Communication Technology
University of Kigali
Jan 2023 — Feb 2025

Advanced Diploma, ICT
IPRC Ngoma — Rwanda Polytechnic
Jan 2017 — May 2021

LANGUAGES

Kinyarwanda	Native
English	Intermediate
French	Elementary

Profile

Senior Huawei-trained Network Engineer with 4+ years delivering carrier-grade transmission and enterprise networks across Rwanda and international. I have personally led the end-to-end lifecycle for now, I have did site survey, low-level design, installation, commissioning, cutover and acceptance for WLAN, IPRAN, IP Metro, MPLS / VPN backbones and high-density enterprise WLAN. My clients include tier-one telecom operators (MTN, Airtel, Lumitel), the central bank and development bank of Rwanda, Tres, Ntare Louisenlund international school, Kigali International airport and the Rwanda Defence Force according to the completed project so far.

Project Portfolio

Each engagement below was personally delivered (not part of a shared team task). Equipment listed reflects what I configured, commissioned or cut over with my own hands.

Burundi Lumitel in Nationwide IP Metro Transmission Network

Lumitel (Burundi) for Huawei Technologies | Jan 2026 — Jun 2026 | Bujumbura, Burundi

Role: Network Engineer (on-site deployment)

Scope: Greenfield deployment of the national IP Metro transmission backbone covering preparation, low-level design, rack & stack, configuration, commissioning, integration and final cutover.

Responsibilities

- Performed pre-deployment site surveys and produced the low-level design pack for the IP Metro nodes.
- Built the IGP underlay using OSPF, then layered MPLS, MPLS-TE tunnels and L2/L3 VPN services on top.
- Configured MP-BGP for VPNv4 route distribution between PE routers.
- Coordinated cutovers across multi-vendor and multi-cultural teams.
- Owned site acceptance documentation and handover to local O&M.

Outcome: *Network delivered on schedule; gained first-hand experience of full international cutover*

Airtel Rwanda in IPRAN Transport Network (≈200 Tower Sites)

Airtel Rwanda for Huawei Technologies | 2023 — March 2025 | Nationwide, Rwanda

Role: Network Engineer

Scope: Design and rollout of Airtel Rwanda's IPRAN transport network covering approximately 200 mobile tower sites, including IP planning, routing-protocol design, configuration templates and per-site commissioning.

Responsibilities

- Produced the IP addressing plan, routing design and configuration templates reused across all 200 sites.
- Configured access, aggregation and pre-aggregation nodes; integrated each site into the live MPLS backbone.
- Executed commissioning, service activation and acceptance tests for 2G / 3G / 4G backhaul services.
- Performed troubleshooting and post-go-live optimization on routing convergence and QoS.

Outcome: *Full IPRAN footprint delivered, providing transport for Airtel's mobile services across Rwanda.*

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MTN Rwanda in IPRAN Build & Service Modernization

MTN Rwanda for Huawei Technologies | Jan 2024 — Apr 2025 | Nationwide, Rwanda

Role: Network Engineer

Scope: IPRAN deployment for MTN Rwanda combined with the MTN Modernization project as back-office service migration from the legacy transport network to a new IPRAN platform without service interruption.

Responsibilities

- Designed and implemented new IPRAN nodes ; migrated existing services site by site with minimum-downtime cutovers.
- Coordinated with MTN core, transmission and field operations teams for change windows and rollback plans.
- Wrote per-site MOPs (methods of procedure) and conduct technical acceptance with the customer.

Outcome: *MTN's legacy transport services migrated to the modern IPRAN platform; ongoing back-office engineer for the live network.*

China Economic & Commercial Embassy in Smart Wi-Fi & Security

China Economic & Commercial Embassy in Rwanda under Huawei | February 2024 | Kigali, Rwanda

Role: Network Engineer

Scope: deploying smart Wi-Fi and security network for the embassy compound implementation.

Responsibilities

- Performed the on-site survey and produced the LLD
- Manage Installers and configured firewall, routers, switches, access points, surveillance cameras and servers.
- Integrated all elements into a single NMS view for unified monitoring and incident response.
- conduct user-acceptance testing and handed over documentation to the embassy IT team.

Outcome: *Deployment completed successfully as per plan with appreciation from customer side.*

Burundi China Embassy in WLAN & Security Network

Embassy of China in Burundi Under Huawei | 2026 | Bujumbura, Burundi

Role: Network Engineer

Scope: Deployment of the full WLAN and security stack for the Chinese embassy in Burundi: firewall, routers, switches, access points, IP cameras, servers and NMS.

Responsibilities

- Performed the on-site survey and produced the LLD
- Manage Installers and configured firewall, routers, switches, access points, surveillance cameras and servers.
- Integrated all elements into a single NMS view for unified monitoring and incident response.
- conduct user-acceptance testing and handed over documentation to the embassy IT team.

Outcome: *Learned of working abroad on international project delivered outside Rwanda; built confidence in cross-border deployment under language constraints.*

GAKO Military Academy in Smart Campus Network

Rwanda Defence Forces — GAKO Military Academy | June 2022 — November 2024 | GAKO, Rwanda

Role: Design & Implementation Engineer

Scope: Smart campus network covering the academy: high-density enterprise WLAN, structured core/aggregation/access switching, firewall and servers to secured internet edge and centralized network management.

Responsibilities

- Conduct survey
- Produced the campus LLD, VLAN plan and high-density WLAN coverage plan.
- Managed Installation team and configured the entire LAN and WLAN; segmented user populations
- Integrated the deployment with centralized monitoring and security policies.

Tres in Network Security

Tres under Huawei| June 2024 — November 2024 | GAKO, Rwanda

Role: Network Engineer

Scope: Implement Firewall configuration and TOR configurations as well as support in integration

Responsibilities

- Advice on requrements
- Installing firewall and configure
- Integrate NetEco and support in transition of new Firewall with new Network

Outcome: *Completed successfully as per plan*

Kigali International Airport in Hangar Network

Kigali international Airport Under myself | April 2026— November 2024 | Rwanda

Role: IT Engineer

Scope: Manage the installation team and Deployment and configuration of Security Camera, access point, firewall, switches.

Responsibilities

- Conduct survey
- Produced the campus LLD
- Managed Installation team and configured the entire LAN and WLAN; segmented user populations
- End to end configuring the network.

Outcome: *I gained high-end experience in working with critical area and successfully deployed.*

Ntare Louisenlund International School in Smart campus Network

Ntare Louiselund International school Under Huawei | April 2026— November 2024 | Rwanda

Role: Network Engineer

Scope: Manage the installation team and Deployment and configuration of Security Camera, access point, firewall, switches.

Responsibilities

- Conduct survey
- Produced the campus LLD
- Managed Installation team and configured the entire LAN and WLAN; segmented user populations
- End to end configuring the network.
- Provide daily support as they need

Outcome: *I got Good rate from Campus employees on how I supported them.*

National Bank of Rwanda (BNR) in Enterprise LAN

Banque Nationale du Rwanda (BNR) under Huawei | October 2024 — February 2025 | Rwanda

Role: Network Engineer

Scope: Design and delivery of the BNR enterprise LAN: redundant core, segmented user/server VLANs, hardened security policies and high-availability gateway design.

Responsibilities

- Conduct survey

- Designing the LAN topology with redundant core and per-department VLAN segmentation.
- Configuring switches, gateway redundancy (VRRP) and security ACLs aligned with the bank's policy.
- Migrating user and server connectivity to the new platform with minimum disruption.
- Implementing Tunnels to connect all BNR Branches

Outcome: *Bank-grade LAN platform delivered to the central bank with redundancy and segmentation suitable for a regulated environment.*

Development Bank of Rwanda (BRD) in LAN Design & Expansion

Development Bank of Rwanda (BRD) under Huawei | January 2023 — March 2023 | Kigali, Rwanda

Role: Network Engineer

Scope: Design and expansion of the BRD enterprise LAN to support new departments and services.

Responsibilities

- Surveyed existing topology, designed new topology for new floors / departments.
- Installed, configured and integrated new access switches into the existing core.
- Documented the as-built topology for the BRD IT team.
- Swapping access controllers with Cloud access controllers

Outcome: *Expanded LAN capacity at BRD without disrupting existing services.*

RPF Chairman Voting Event in Critical Network Support

RPF Presidential Voting Event Under Huawei | April 2023 | Rwanda, Arena

Role: On-site Network Support Engineer

Scope: Provision of mission-critical connectivity for a national political event with zero-downtime requirement during voting.

Responsibilities

- Pre-event readiness checks of switches, APs and uplinks.
- Live monitoring and rapid incident response throughout the event.

Outcome: *Event delivered without network-side downtime.*

Employment History

Role: Network Engineer

Huawei Technologies Rwanda Ltd • Jan 2022 — Present • Kigali, Rwanda

Role: ICT Trainer

APEKA Kabarondo • Jan 2020 — Dec 2020 • Kabarondo, Rwanda

Role: IT Officer

NCDS Ltd • Mar 2016 — Mar 2020 • Rwanda

References

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