AHMED MUHUMED MOHAMED
Odoo Developer | RNPO Engineer

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Highly skilled telecommunication engineer with two years of experience as a radio network planning and optimization engineer. Possessing exceptional skills in network planning, optimization and troubleshooting for GSM, UMTS and LTE networks. In addition to my technical expertise, I have gained valuable teaching experience as a physics instructor, which has honed my ability to communicate complex ideas in a clear and concise manner. With a passion for software engineering and proficiency in a range of programming languages, I am committed to leveraging my technical and teaching skills to help organizations achieve their goal.

🎓 EDUCATION

2018 - 2020 **M.Sc. in Communication Systems Engineering**
Bahir Dar University
Bahir Dar, Ethiopia

2015 - 2018 **B.Sc. in Telecommunication Engineering**
Gollis University
Hargeisa, Somaliland

2022 - 2023 **Software Engineering**
African Leadership Xcelerator - ALX

💼 PROFESSIONAL EXPERIENCE

January 2023
Present

Odoo Developer (Part-time),
Hustle Solutions Provider - 📍 HARGEISA
- Design, development and testing of Odoo (OpenERP) modules, projects, products and interfaces
- Customization of Odoo/OpenERP modules as per requirements
- Configuration, installation and maintenance of the server and multi-database Odoo/Ubuntu environments
- Analyze customer needs and build solutions with Odoo. Able to identify the requirements and propose a good alternative solution to client requirements
- Design, build, and maintain high-performance reusable and reliable python code
- Keeping different projects/versions under control using Git/Github
- Integrate software into the company's ERP system and keep technical documentation for the same

Python | PostgreSQL | HTML | Javascript | XML | OOPs | API Integration | Pycharm | Bash | Git/Github

April 2021
January 2023

Radio Network Planning and Optimization Engineer,
AMTEL - 📍 GAROWE
- Carried out optimization techniques (antenna selection for optimal horizontal/vertical performance, Mechanical/electrical tilting, appropriate transmit power setting, antenna clearance, etc.
- Network parameter optimization on the radio networks that resulted in 6.3% uplift in RSRP and 3.5% increase in SINR with 93% success rate on inter-cell hanovers and 90% success rate on intra-cell handovers
- In depth analysis of the worst LTE performing cells to find out root causes of ERAB failures, RRC failures, Low throughput from signaling data
- Provided recommendation for physical optimization and parameter changes to improve LTE coverage, quality and capacity.
- Optimized the 3G/LTE network to improve the data throughput by 23.5% through handover parameter optimization and antenna selection optimization
- Performed field verification and tests to validate the optimization based on the KPI trending reports.

TEMS Investigation | Actix Analyzer | Atoll | Genex Assistant (basics) | GENEX PHU | Planet

October 2015
October 2018

Physics Teacher,
Qulleh Aden Secondary School - 📍 HARGEISA
- Preparing and delivering lecture sessions, assigning projects and assignments to the students.
- Maintaining examination grades and attendance, planning and creating teaching materials.
- Facilitating class discussions on various scientific topics.
- Participating in science exhibitions and assisting students in their science projects.

Physics Literacy | Education and Teaching Literacy | Scientific Literacy | Humanistic Literacy | Information Literacy

PROJECTS

PROJECT OF PLANNING NEW GSM/UMTS/LTE SITES
2021

Led a team of radio network engineers, conducted site surveys, and used planning tools such as Atoll and Planet to design and plan new GSM/UMTS/LTE sites for AMTEL's network expansion.

`Planet` `Atoll` `Global Mapper` `Google Earth`

GSM/UMTS/LTE NETWORK OPTIMIZATION PROJECTS
2021 - 2022

Collaborated with AMTEL's network optimization team, conducted network audits, and utilized TEMS Optimization tools to improve network performance and service quality by 20%

`TEMS Investigation` `TEMS Pocket` `GENEX PHU` `Actix Analyzer` `MapInfo Pro`

DATA CENTER INSTALLATION PROJECT
2022

Collaborated on doubling the capacity of AMTEL's data center, completing the core, and contributing to site surveys, schematics, floor plans, and the installation of racks, servers, network equipment, and cabling, ensuring timely and cost-effectively.

WIRELESS OPTICAL COMMUNICATION PROJECT
2022

Designed and implemented a wireless optical transmission system for AMTEL, tested for its ability to transmit large volumes of data as part of a backhaul network. Conducted site survey to identify optimal locations for transmitters and receivers, installed and configured equipment, and provided training and support to AMTEL's staff.

PROFESSIONAL COURSES & TRAINING

- Odoo 15 Development Training
- Radio Network Planning and Optimization Training by AMTEL
- CS/PS Core Network Training by AMTEL
- Huawei U2020-M training by AMTEL
- HCIA-5G Course certification on Huawei Talent
- Data Analyst - ALX by Udacity

SKILLS

Frameworks & Libraries	Jupyter | Matplotlib | Numpy | Pandas | Seaborn | Tidyverse | Odoo
Programming Languages	Python | R | Java | C/C++ | C# | Javascript | CSS | HTML
RNPO Skills	TEMS Investigation | Actix Analyzer | TEMS Pocket | Atoll | Genex Assistant
Database Skills	Oracle Database | Microsoft SQL Server | MySQL | PostgreSQL | MongoDB
Development Tools	IntelliJ Idea | Eclipse | Visual Studio Code | Pycharm | git
Networking Tech	Cisco Routers | Switches | WAN | LAN | Ethernet | Fast Ethernet | TCP/IP | OSPF | BGP | EIGRP | ISIS | LDP | RIP | CDP
Operating Systems	Windows Server | Windows 10 | Windows 11 | Linux Redhat | Linux Ubuntu
GIS Skills	ArcGIS (Basics) | MapInfo | Global Mapper | Google Earth | Geopandas
Data Viz Tools	Tableau | Microsoft Power BI (Basics) | Advanced Excel | Ploty | ggplot2
Others	ANSYS HFSS | COMSOL Multiphysics | CST Studio | Packet Tracer | SPSS | MATLAB | Electrical AutoCAD | Altair WinProp | LaTeX

LANGUAGES

Somali ●●●●●
English ●●●●○
Arabic ●●●○○
Amharic ●●○○○

STRENGTHS

- Curiosity, Leadership and Innovation
- Time Management
- Team Working
- Problem Solving
- Good Communication

ACHIEVEMENTS

- Ethiopian Goverment Scholarship for Somaliland Students
- High School Salutatorian in all Somaliland Public Schools
- Elected RF technical lead of Zone 2, AMTEL

REFERENCES

Dr. Sayid Abdulle
Cheif Executive Officer, AMTEL
✉ Sayidabdulle@amtelkom.com

Abshir Nour
Human Resource Manager, AMTEL
✉ hr@amtelkom.com