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Married with 2 kids
Mauritania

1. EDUCATION

1999 - 2002: Design Engineer in Computer Science from the Polytechnics University of Dakar.

1997 - 1999: DUES Mathematics and Physics at the Faculty of Technical Sciences in Dakar.

1995 - 1996: High School degree in Mathematics, Nouakchott (Mauritania)

2. TRAININGS AND SEMINARS

Period	Specialty	Place of training or seminar
02-06 Novembre 2012	Cisco ICND2	SPG Advancia : Tunis - Tunisia
15-25 April 2012	Internal auditor certification of ISO 9001:2008	Demming Consulting: Nouakchott - Mauritania
16-18 December 2011	Local management and coaching	MCRM Consulting: Nouakchott - Mauritania
11-15 May 2009	UMTS: Technology and Applications	ESMT: Nouakchott - Mauritania
March 2009	SmartAXMA5600, SmartAXMA5200G: Operation & Maintenance	Huawei: Nouakchott -Mauritania
May - June 2008	IPv6: Afrinic 8 Meeting	Rabat - Morocco
September 2007	MPLS: Technology and Applications	IIT: Dakar - Senegal
August 2007	NGN Operation and Maintenance Training	Huawei: Nouakchott - Mauritania
September 2006	LIR + IPv6 Training	Johannesburg - South Africa
March 2006	Building Cisco Multilayer Switched Networks	Azlan: Paris – France
November 2005	A level of Broadband Access System ZXDSL-8220	ZTE University in China

October 2005	SmartAXMA5100, SmartAXMA5200G, iManage N2000: Operation & Maintenance	Huawei: Nouakchott - Mauritania
June 2004	UX072-Linux DNS, DHCP, Apache, Samba, Messaging	Azlan: Paris - France
June 2003	Installation and Administration on Solaris 9 Level 1	TMI & SUN: Nouakchott - Mauritania
April 2003	Products Patton G. SHDSL 3201 & 3086, ForeFront 3096RC, SAR 2960, and 3092 IDSL SmartNode ToIP	Inalpe network: Bern - Switzerland

3. Positions held

Position : QoS Manager

Employer : The Mauritanian Telecommunications Company (Mauritel)

Period : December 2011

Mission :

- ✓ Establishment and development of tools for QoS / QoE (mobile, fixed, internet)
- ✓ Administration tools for monitoring the QoS (RNO ALCATEL, Solarwinds .. etc) of the global network of Mauritel SA: data collection performance of the various nodes of the global network of Mauritel SA (mobile, fixed and Internet) and creation of reportings .
- ✓ Analysis and processing of daily indicators of QoS at Central.
- ✓ Daily monitoring of the normalization of indicators deteriorated in coordination with other concerned entities as QoS monitoring process in place.
- ✓ Design and dissemination of QoS reportings.
- ✓ Edition QoS reports daily, weekly, monthly, special
- ✓ Support from other entities of the company and transfer of competence according to the need expressed by the entities

Position : Project Manager

Employer : Mauritanian Telecommunications Company (Mauritel)

Period : March 2010 to December 2011

Mission :

Pilot a project of his original idea to widespread deployment. Among the tasks that I ensure:

- ✓ Project definition, identification of needs;

- ✓ Development of specifications;
- ✓ Costing of the project;
- ✓ Supervision of the production team;
- ✓ Monitoring and reporting of project progress in terms of quality, cost and time.

Position : IT Technician

Employer : Tasiast Mauritania Ltd

Period : December 2010 to Marsh 2011

Mission :

Ensure stains daily operation of the network in place that consists of a platform with an Active Directory Exchange messaging system. Stains are summarized in the following:

- ✓ Provide daily supervision and maintenance;
- ✓ Provide helpdesk users;
- ✓ Provide advice and monitoring during the evolution of the system
- ✓ Audit the existing network and provide the best solutions for its development

Position : QoS Manager

Employer : The Mauritanian Telecommunications Company (Mauritel)

Period : September 2010 to December 2010

Mission :

- ✓ Establishment and development of tools for QoS / QoE (mobile, fixed, internet)
- ✓ Administration tools for monitoring the QoS (RNO ALCATEL, Solarwinds .. etc) of the global network of Mauritel SA: data collection performance of the various nodes of the global network of Mauritel SA (mobile, fixed and Internet) and creation of reportings .
- ✓ Analysis and processing of daily indicators of QoS at Central.
- ✓ Daily monitoring of the normalization of indicators deteriorated in coordination with other concerned entities as QoS monitoring process in place.
- ✓ Design and dissemination of QoS reportings.
- ✓ Edition QoS reports daily, weekly, monthly, special
- ✓ Support from other entities of the company and transfer of competence according to the need expressed by the entities

Position   : Project Manager

Employer   : The Mauritanian Telecommunications Company (Mauritel)

Period   : April 2009 to September 2010

Mission   :

- ✓ Study and monitoring of projects and technical IP telecom Mauritel
- ✓ Preparations of specifications
- ✓ Technical evaluation of bids from suppliers
- ✓ Monitoring the implementation and reception following the technical standards defined
- ✓ Ensure technological monitoring to propose new projects

Position   : Manager of Internet Center

Employer   : Mauritanian Telecommunications Company (Mauritel)

Period   : March 2006 to April 2009

Mission   :

- ✓ Ensure technological monitoring, develop and integrate new Internet services throughout the National territory.
- ✓ Planning infrastructure needs and capabilities of IP networks
- ✓ Achieve the operations and maintenance of all Internet platforms and IP
- ✓ Ensure the overall quality of service, secure infrastructure IP / Internet and third level support

Position   : Network and Systems Administrator

Employer   : Mauritanian Telecommunications Company (Mauritel)

Period   : February 2003 to March 2006

Mission   :

- ✓ Administration of the platform system Mauritel (Web, DNS email).
- ✓ Administration of IP network Mauritel throughout National territory
- ✓ Achieve the operations and maintenance of all Internet platforms and IP

4. TECHNICAL PROJECTS

Project Manager interconnect all sites border of Mauritania to the profile of the Directorate General of National Security (ongoing)

This is a project that involves the interconnection of all the border sites of the country via internet access through VPN tunnel. 33 border sites concerned and will be served via different types of links using the offset BLR Ethernet for very remote sites.
Traffic will be routed to a central site in Nouakchott to attack a DB system in the main site.
This project is within the scope of the overall project of computerization of the Directorate of National Security, funded by the World of Immigration.

Manager of Blackbarrey Project (ongoing)
It is a complete architecture for the provision of services to blackberry users (GPRS and 3G) network in the Mauritel.

MPLS IP Project Manager

It is a complete architecture for providing services for L3 and L2's clients of Mauritel.

This solution is based on an access solution HUAWEI interconnected on a Cisco Internet backbone.

Manager for the redesign project of all Internet platforms Mauritel SA

This project is a part of all steps taken by Mauritel SA to improve the quality of services by setting up a redundant architecture (hardware and software), flexible and complete.
Mauritel SA intended to achieve the following objectives:

- ✓ Get a fully redundant architecture for all platforms of Mauritel's data network
- ✓ Provide high availability of service by avoiding any type of collision or saturation
- ✓ Reliability network by implementing tools and procedures for updating the following standards and international standards.
- ✓ Extend the network allowing a continuous and rapid evolution without disruption.

The platforms involved are the following:

- ✓ Transit Network & Backbone
- ✓ Platform ADSL
- ✓ Platform for Internet access LS (Routers Cisco 3845, Cisco 7204, catalyst 3550)
- ✓ Access Networks (ADSL DSLAM Huawei MA5300, MA5600 and ZTE ZXDS 8220)
- ✓ Platform Service (DNS, Mail and Web)
- ✓ Platform Authentication Server (Cisco Secure ACS)
- ✓ Platform Security (PIX525, PIX 515)

Project Manager Interconnection of all heads of places of Mauritania to the profile of the ONEC

This is a project that involves the interconnection of all administrative units of the country by using leased lines. All 53 locations will be sent to the capital Nouakchott, via leased lines of 128kbps.

We used a Cisco 2800 with an E1 interface in the main locality in Nouakchott and a Cisco 1845 with serial inteface for each administrative unit.

This project falls within the global project of computerization of the State Civil in Mauritania.

Coordinator Project: 3G Mauritel SA

It is a complete architecture for the provision of 3G services such as MMS, GPRS, WAP and video call, for the subscribers of Mauritel SA (global operator).

This solution is based on an HUAWEI access solution interconnected on a Cisco Internet backbone.

Extensions of the regional POPs of the ISP Mauritel

Upgrade of Mauritel POP architecture (Mauritania historic ISP) in OSPF in terms of capacity, scalability and QoS covering all the National territory.

I had to prepare the technical requirements for bids and to operate the solution.

Implementation of a Transit 45M + STM1 links and activation of the BGP Multi homing

Activation of multi-homing in BGP on cisco 7200 that allows redundancy and load sharing at the level of transit routes to the ISP Mauritel.

I had to design the solution, prepare the technical requirements for bids its and implement the solution.

Implementation of a platform for data interconnection

It is a platform ensuring the interconnection of LANs traders such as banks and others.

This platform is composed of several multiplexing systems all over the country converging to the capital city (Nouakchott) via several types of transmission medium (Optical Fiber, Microwave, and satellite).

I had to design the solution, prepare the technical requirements for bids its and implement the solution.

Implementation of the services platform (email, DNS, Web, AAA, etc)

This platform comprises a SMTP/POP/IMAP offering services to more than 4,000 mail users, a primary and a secondary DNS server providing services to all users of the sole ISP in the country.

The platform enables web hosting of the official website of the company and more than 20 other customers of the ISP.

As for the AAA platform, it allows to serve more than 50,000 users for Dialup (ADSL, PSTN ...).

I had to install all the components of the solution.

Setting up the ADSL platform of Mauritel

Participate to the installation of a comprehensive ADSL architecture, which is now managing all ADSL customers of the ISP across the country.

This platform is composed of a variety of DSLAM and BRAS that are interconnected through ATM and IP providing a continuous link between the subscriber and the provider on one hand and offering all the necessary IP data to allow the subscriber to surf on the internet with a high speed connection on the other hand.

The technical administration of this platform was part of my former tasks.

Oracle Development of an Oracle application

Develop an Oracle application for managing certain types of transactions and serving such as a protocol between an oracle database and a COBOL system.

Development of dynamic web applications

Developing of dynamic websites (PHP and MySQL on Linux), such as: mauritel.mr, toyota.mr, tourath.mr ...

5. **Skills**

- IP technologies (TCP / IP, MPLS ...)
- Operating System and enterprise network:

  - Linux with Samba

  - Windows 2003/2008 with Active Directory

- Systems integration
- Network Integration
- Network Security
- Email Solutions (Sendmail, eXchange)
- Backup & Storage
- Cisco Technologies: CCNA
- Telecommunication (PSDN, GSM,...)
- Development: (Pascal, C, C + +, Java, PHP, WINDEV ...)
- Database (MySQL, Oracle ...)

6. **Language**

Arabic **:** Native language

French **:** Excellent

English **:** Intermediate level

Wolof **:** Intermediate level

Nouakchott, April 3, 2013