

Jose Xavier Ferreira Da Silva

Flat 1, Charmille Court, Warren Road, TW15 1SD Ashford – Surrey - UK
+44 789 519 348 2 • www.avlis.pro • jxaldasilva@gmail.com
Driving Licence • Own Car

Personal statement

I am graduated in Informatics & Telecommunication Engineer. At this time, I find myself enrolled in the Faculty of Science and Technology (UNL) in Portugal, finishing my PhD in Electrotechnical and Computer Engineering - specialization in Computing and Perceptual Systems.

My competences (more than 30 years), gives me an excellent track record in top management, CTO, EPC Engineer, project manager, hands-on, OJT, and implementation; high value placed on teamwork, flexibility, and quality interpersonal communication and strong analytical, conceptual, and organization skills.

My Area of knowledge comprise: IT, Software Engineer, Embedded Systems, Optical/Coper/Wireless Networks, Intrinsic Environmental Communication, (IP)PABX, CCTV and Security Systems, Aeronautical Systems /NAVAIDS/ RF Telecommunication, Microwave Bridge, Repeaters, Network Security/Cisco PIX Multiprotocol Label Switching (MPLS) -traffic engineering, Meteorology (AWOS) Systems, Marine Systems, Microcontroller, Solar Panels (PV) and Fuel Cells.

I speak English, Spanish, Portuguese, and understand a little French.

Education

University Nova de Lisboa - Portugal

(2013 – 2015)

Attend a PhD in Electrotechnical and Computer Engineering - Specialization in Computing and Perceptual Systems

University Nova de Lisboa - Portugal

(2011 – 2013)

Diploma of Advanced Studies in Computer and Perceptual Systems

ISUTC

(2001 – 2006)

Graduate in Informatics and Telecommunication Engineer

Training

- Training D-Link
- CISCO - CCNA
- Network Security / PIX / CISCO (AFRALT)
- Multiprotocol Label Switching (MPLS) - Layer 2/3 traffic engineering (by IIT Canada)
- Training CGE ALSTHOM / ATR / ALCATEL telecommunication.
- Training IMPULSE PHYSICS meteorological stations GmbH
- Training VAISALA meteorological stations, Finland.
- Linux / Windows Operating System
- RICOCHET recording systems - Norway
- FREQUENTIS Voice Control Systems - Austria
- HARRIS - Voice Control Systems - Canada
- COMSOFT - Aeronautical Communication - Germany
- MESOTECH - Meteorology – USA
- EADS – Radar - Germany
- SELEX – ILS - Italy
- PIC Microcontrollers (Microchip certified company)

Work Experience

CTO – EPC Engineer & Project manager

(01/2007 to 2013)

Analysis of the requirements, Design & construction (Site Survey, installation, SAT, FAT, commissioning, documentation).

NavAid Systems (Radar, ILS, DME, NDB, etc.);

Electronic systems at airports, Radio Telecommunications, Network.

Engineering Software - C #, C ++, C, DEPLHI, MySQL, Embedded Systems, etc.

Project & Installation of Ethernet CAT5 / 6, Wireless, Fibre-Optics, Microwave Bridge, Repeaters etc.

Rehabilitation from scratch of 9 Airports in Angola (Telecommunication, NETWORK, AWOS and Security), including Luanda, with installation of all Airport TWR equipment.

- VCCS (Harris & Frequentis VCS),
- Meteorology Station – AWOS - (Vaisala & Mesotech),
- Aeronautical Communication in VHF AM A/G, VHF FM G/G, HF SSB, and Cellular
- Professional mobile radio/ private mobile radio (PMR)/ (LMR), RF, GPS, RF Links, SAT, BST
- NDB, DVOR, ILS, RADAR
- AMHS/AFTN,
- Digital Recorders,
- Network LAN, WAN, Cisco Layer2/3, CAT5/6, Microwave bridge, Campus Fibre-Optic, etc.
- CCTV & Access Control, (IP)PABX
- Solar Panels (PV), Fuel Cells as backup

Complete Site Survey at Maputo Airport (for GECI) - Spain.

Project & design of 2 Mobile ATCs (Angolan Air Force & ENANA) complying w/ ICAO standards.

Project & presenting ADS-B Mode-S (w/ ComSoft) for ENANA.

Project & installation of Solar Panels (PV)/Fuel cells to be used as DVOR's main power supply.
Making a TOR for migration from AFTN → AHMS for ENANA.
Installation and commission of AMHS/AFTN (X.400) in Luanda.

ATC Towers project, design including FDIS, VCCS, VHF AM T/A, VHF FM T/T, HF, NDB, DVOR, ILS / DME, AWOS and Digital Recorders for ENANA.

Project & Installation of AWOS Stations MitrasIV, Ceilometers, RVR with Vaisala aviMet, Frequentis TapTools Data Management, servers (Windows & Linux) - Monte Real & Beja Air Force - Portugal.
Maintenance: ILS/DME, EADS/EASAT Secondary Radar (SSR MarkXII/A- IFF) on Montreal & Beja Air Force - Portugal.

Software Client/Server (RS232/TCP) for 8x8 VGA Matrix control for Civil Protection in Lisbon.
Design and programming PIC μ controller for a rotating beacon motor (PWM) with fault detection.
Meteorological Data controller w/ PIC μ controller & application in C#, C, C++.
Cold temperature in refrigerators, and glaciers through PIC, with graphical application in C#.
Design Switching Power Supply with control current intensity and voltage.

CTO – EPC Engineer / Project Manager

(01/2000 to 2006)

LAN installation and upgrading, using the latest copper and fibre technologies, such as structured cabling (voice and data over the same cabling).

Extending and upgrading legacy infrastructures such as Category 3 & 5, Token Ring, 10Base2 and 10Base5, to the latest specifications and beyond.

Testing third-party installations copper, voice, data and fibre networks to ensure optimum performance, using a Fluke DSP4100 or any fibre OTDR.

WAN installation and configuration using the latest Layer 3 switching products (Cisco).
Supply and installation of high-performance multi and single-mode optical fibre cables for backbone and desktop applications.

Wireless Networking System – installation and project for CASA MILITAR (military president's guard).

Rural public street lighting project using solar panels (PV) in Mozambique.

Supply, installation and configuration of analogue and digital telephone systems, from 4 extensions to hundreds of extensions/ports, including all necessary cabling.

Delivery of PSTN exchange lines, ISDN services and independent telephone system maintenance.

APRS project using cellular phones and owner developed program (software) system, using Delphi7 and MySQL database. The hardware uController using PIC.

Java's project – building personal bank software with MySQL's Database link.

Web Page - JSP 2.0, JS, HTML and PHP, LINUX

CTO – EPC Engineer / Project Manager Co-owner

(01/1992 to 2000)

Networks design, planning and documentation using the latest standards communication technology.
Power supply backup project and installation for public telephone exchanges using Solar Panels (PV) for Mozambique Telecom (TDM).

Training courses in networking and radio communication on CFAM.

Security Systems & CCTV

Installation and project for Security Systems & CCTV on all Mozambican Embassies located in Malawi, Swaziland, Zambia and Zimbabwe.

Mozambique's President - Satellite system communication using Mini-M, INMARSAT and IRIDIUM for voice and data with Advanced Encryption Standard (AES).

Other

Build a Data Base for 5th Police Station.

One million American dollars' project - Building PC Part's Factory.

Police Minister – Project and installation of network and computer system.

RM – Radio Station – Portable voice and Data system using IRIDIUM satellites.

Project using HF, VHF, UHF, Repeaters and BST for data communication in Mozambique, Angola, using dedicated software, and surveillance equipment.

Participation with RACAL UK - on building vessel's location System along Mozambican coast.

Installation:

- *Avionics Communication*, (GPS, VHF, HF, Radar, etc.).
- *Marines Equipments* – EPIRB distress radio, sonar, sounders, plotters, GPS, Satellite Communications, etc.
- *PMR Cellular* in VHF and UHF with repeaters base stations.
- *Intrinsic Environmental Communication*

Engineer

(01/1988 to 1990)

Airbase nº 1 in Sintra, Portugal- Project and Installation of meteorological station (AWOS) using IMPULSE PHYSICS and VAISALA sensors.

Monte Real Air force - Repairing and assistance on Meteorological (Weather) Station.

Two way radios - Project and installation of two way radios.

Navigation Marine Equipment - Radar, Sounder, HF/VHF, Sonar, Auto-pilot, Plotter, Gyroscopic, GPS, Satellite, (Furuno, Icom, JRC, Raytheon, Sailor, Thrane & Thrane, Dansk radio.).

Links - BST, Repeaters, Long distance communication, etc.

Hobbies & Interests

I have a keen interest in Music, Robotics and Aeronautic. I play drums, and I design RC airplanes and Robots.

Also I am very concerned about the asymmetries in the world, between richest and poor countries, and all the involved violence. I am joined on an organization who helps 3rd world countries, mainly Mozambique.

References

References are available on request.