

PERSONAL DETAILS

Pedro Manuel Poço Nascimento Ferreira
Born in 1965, November 25th in Mozambique
Portuguese nationality
Two childs
Military Service in 1990



Address: 38, cours Jean Jaures
38000 Grenoble

Tel: 0476 87 36 64
Tlmv.: 0685 08 02 75

EDUCATION

Fourth year of a Degree of *Electronic and Computers Engineering*, in the area of *Computers and Systems*, in the Instituto Superior Técnico (IST) - Lisbon

PROFESSIONAL FORMATION

Courses:

- ETEL Technology - Contrôleur DSCDP / Multi-axis DSMAX (decembre 2003)
- Java – Débuter en Java + Java Avancé (septembre 2002)
- 2072: Administering a Microsoft SQL Server 2000 Database (2001)
- Object Oriented Analysis with UML (mai 2000)
- 1012: Mastering COM Development Using Microsoft Visual C++ (decembre 2000)

Certifications:

- **Microsoft Certified Solution Developer (MCSD) (year 2001)**
 - 70-016: Design. and Impl. Desktop Appls with Visual C++ 6.0 (decembre 1999)
 - 70-015: Design. and Impl. Distributed Appls with Visual C++ 6.0 (mars 2000)
 - 70-024: Devel. Appls with C++ Using the MFC Library (decembre 1999)
 - 70-100: Analyzing Requirements and Defining Solution Architectures (juliet 2000)
- **Microsoft Certified Professional**
 - 70-028: System Administration for Microsoft SQL Server 7.0 (decembre 2000)

FOREIGN LANGUAGES

English: Good knowledge, written and spoken
French: Good knowledge, reading and spoken
Spanish: Good knowledge, reading and spoken
Portuguese: Mother language

PROGRAMMING LANGUAGES

C / C++ ; STL ; PHP ; Java
Bourn Shell ; Perl
SQL
Assembler (Z80 - 8086 - 80286 microprocessors, MMX, SSE ; 8031 - 8051 microcontrolers)

OPERATING SYSTEMS

Linux (RedHat) ; Unix SCO ; HPUNIX ; Solaris (Sun OS)
Windows (3.11, 95, 98, NT, 2000)
VAX/VMS

TOOLS / APIs

Bugzilla (OpenSource bug control application)	2003 - 2005
CVS (OpenSource version control application)	2004 - 2005
ETEL Tools (electronic motor control)	2003 - 2005
Cognex API (imaging toolkit)	2003 - 2005
Microsoft Visual Studio 6.0 (C++, InterDev, Source Safe, Modeler)	1999 - 2005
OpenGL (mesh optimization, terrain generation)	2001 - 2005
GNU tools (gcc, autoconf, automake)	2000 - 2005
Linux Network (sendmail, iptables, snort)	1999 - 2005
ANSI C, C++ shell programming in Unix (HPUX, aCC)	2000 - 2001
Pixtools toolkit de Pixel Translations (imaging)	2000 - 2001
ISIS drivers et spécification de Pixel Translations (imaging)	2000 - 2001
Plexus Floware (system administration and API)	2000 - 2001
Rational Rose (outil pour l'analyse de systèmes en UML)	2000 - 2001
Requisite Pro (Rational)	2000 - 2001
Microsoft SOAP toolkit	2000 - 2001
Microsoft XML parser (MSXML4)	2000 - 2001

DATABASES

MySQL (installation / administration)	2003 - 2005
Microsoft SQL Server – MS Certified Professional	1999 - 2001
Informix Online Server (administration)	1996 - 2001
Oracle (programming)	1999 - 2001

NETWORK AND WEB

Apache Web Server ; Sendmail
TCP/IP ; Microsoft Windows network (NetBEUI / SMB)
HTML, XML, J2EE

PROFESSIONAL EXPERIENCE

- Since december 2002

Activity in an IT Services Company (VITechnology – Grenoble/France) as Senior Software Analyst/Programmer, in the development of software systems for industrial equipment control (AOI).
C++ programming, systems analyses and design using UML.

Some of the last projects:

- Multithreaded Display Engine for CAD objects using OpenGL
- 3D display console in OpenGL for 3D visualization of 3D scanner images
- Imaging API for automatic quality control (using Cognex API)
- Multi-user file share system (using CVS)
- Industrial electronics control (ETEL tools and API)
- Web technologies (Apache Web Server, PHP, Windows / Linux integration)

- Since november 2001 until november 2002

Activity in an IT Services Company (GCim – Grenoble/France) as “Ingénieur d’Études” to work as external resource.

Development of a software application to control an industrial equipment, in C++:

- User interface design (MFC Document/View architecture; GDI; View inside View)
- OpenGL (trajectory viewing in 3D)
- XML (load/save application data)
- Multithreads and electronic control
- COM objects

- Since september 1999 until october 2001

Activity in an IT Solutions Company (GE Capital ITS / General Electric Company – Lisbon/Portugal) as a Senior **Software Analyst/Programmer** in **Document Imaging Solutions and OCR/ICR**.

Some projects:

- Automatic VAT forms processing system (Portuguese State Taxes)
- Portugal Censos 2001 prototype and final project
- Digital Scanning software applications and automatic data recollection
- Web Services for document digitization and indexing (XML, SOAP)

Other:

- Unix / Linux administration and configuration
- Database administration (Informix, SQL Server, Oracle)

- Since 1997, until September 1999

Work as a free lance Software/Hardware Consultant (Lisbon/Portugal), in the development of complete Information Systems by customer order.

Also completed 3rd and 4th years of the University Degree of **Electronic and Computers Engineering**, interrupted since 1990. Due to academic experience with Unix/Linux systems and C programming language, professional activity started to be more significant in the areas of System Administration, Programming and Software Analysis. Professional experience as free lance:

- Software utilities in MS Visual Basic and MS Visual C++
- Systems Administration of Unix (Solaris, SCO), Linux (RedHat 5) and Windows NT Servers
- Internet and Mail Gateways with Linux RedHat 5 (iptables / sendmail)
- Collaboration in software projects (outsourcing / external collaboration)

- Since 1996

Activity at an IT Solutions Company (Prológica – Lisbon/Portugal) in Hardware/Software technical support. Experience with remote software tools to minimize travelling to clients. Also, at the same Company:

- Installation and maintenance of Microsoft Operating Systems (NT, 95)
- Installation and maintenance of automatic barcode identification systems from **Symbol** and **Barcode** (collaboration with **ZETES Portugal**)
- Installation and maintenance of barcode printers from **ZETES**

- Since 1993

Activity in an Electronics Company (Niposom – Lisbon/Portugal), in **Product Management and Maintenance Supervisor** of **Velleman** electronic kits. Also, at the same Company:

- Help in translation of technical manuals from english to portuguese
- Responsible for **Software Maintenance and Computer Network Administrator**
- Development of **automatic forms generation (Informix - SQL)** for transfer of information from UNIX system to MSDOS / WINDOWS application
- Development of working tools in **MS ACCESS** and **MS EXCEL**
- Development of software for **Clients Account Management**, and **Point of Sale (POS)** in **(Visual Basic 3.0)**
- Assembly of Unix and Windows NT servers with fault tolerant systems (RAID)

- Since 1988

Activity in a Computer Company (Burótica – Lisbon/Portugal), in **the development of the Hardware Department**, and **responsible for the maintenance** of all the hardware equipment.

At the same time, **planning and development** of new hardware equipment, such as:

- Automatic battery chargers
- Display (LCD) for data monitoring of bar-code readers
- Electronic device for automatic measurement, based on a bar-code reader's optical pen, for database management of Pharmaceutical Products
- Hardware development of an automatic electric cash drawer and P.C. adapter card
- Assembler test programs, for auto-testing of Portable Data Terminals (Symbol - MSI)

- In 1987/1988

Activity in INESC (Lisbon/Portugal), in the implementation of **C programming language in ELENA workstations**