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## Laurent NAVARRO

23 years of working experience

41 years old – French citizen

### SKILLS

Working area : Software Development, Training, Consulting, industrial computing and management applications, Internet, Administration, real-time constraint Systems.

Languages : C / C++, C#, PHP, HTML, JavaScript, Delphi, Paradox ObjectPal, PL/SQL, Basic, Assembly (8086,6809, 68000), Pro\*C, Python.

Tools : C++ Builder/VCL, Delphi, Paradox, Visual C++/.NET, Oracle Dév. 2000., CVS

Systems : PC Windows, Unix/linux, Oracle, SQL Server, MySQL, PostgreSQL,  
µC ARM,ST7,PIC, XC167, Coldfire, Modem WaveComm

Expertise : C++, C++ Builder, SQL,PL/SQL, Win32 system programming, XC167.

### QUALIFICATIONS

- 1999 DESS CAMSI (Applied Postgraduate Diploma in Computer Architecture Design)  
ENSEEIH / INSA / UPS, Toulouse - France.
- 1998 Masters of Science in Computer Science & Information Technology  
(IUP Paul Sabatier University, Toulouse - France).
- 1996 2nd year degree in Information Technology.
- 1994 High School Diploma in Electronics.

### WORK EXPERIENCE

#### Since 04/95 : Freelance then joint manager of ALTIDEV

Activity : Development of industrial computing and management applications. Consulting, training.

#### Industrial computing projects :

- Development and improvement of C++ Motorola plant supervision system (SCADA)
  - Distributed architecture « unconstrained real time» under Windows NT
  - 24 x 7 working, Software Cluster
  - Oracle database post-processing
  - 8000 sensors, 200 PLC, Modbus, Lonworks, ...
  - Alarms, Trends, Synoptic, logs, Pager Interface TAP
- Development of a server to manage product flow on automated production line (Siemens)
  - Distributed architecture, 24 x 7 working, Software Cluster
- Control workstation on production line (Siemens)
  - Interface with PLC and centralized production control system.
- Chemicals production control system (Valves and scales interface)
- Test application for aeronautics sector (Using ARINC bus)
- Several applications for tracking and monitoring
- Consulting and project follow up for setup a probe unit management application for a semi-conductor company based at Orsay.
- Consulting and design for interlocking/tracking system for an automotive company.

#### Embedded projects

- Embedded system development for tramway and truck battery management calculator based on XC167 and ST7 + supervisor and loader using C++ Builder
  - Embedded system development for car calculator based on XC167
  - Development of tools to simulate embedded environment (CAN, RS, ARINC)
  - Technical consulting on PIC16F, PIC24F using Microchip MPLAB.
  - Technical consulting on Coldfire using WindRiver and Wode warrior
  - Technical consulting on WaveComm Modem using Open AT
- Technologies : Bus : CAN, I2C, SPI, RS232, RS485, LIN, ARINC, USB, hard/soft integration, low layers, serial bootloader, devices : RTC, ADC, FLASH, Modem, Target : Arm STM32, TI DSP

#### Mobile projects

- Application development for Symbol & datalogic devices using Windows CE and .NET CF
- Communication server for GPRS devices, viewer based on Google MAP API.
- Supervisor for GPRS mobile device fleet (link using SMS, GSM, GPRS, RF) using GIS, KML

#### Management application projects

- Storage management systems, Miscellaneous management systems (Motorola)
  - Storage management of products and spare parts
  - Management of Tools & Chemicals safety forms database
- ISO 9000, ISO 14000 management software(Motorola),
  - Classified installations rules conformance tracking tool.
  - Audits and action plan databases for tracking and management.
- Management of offshote teams in India
- Internet, dynamic web sites, shopping cart, secured payment.
  - Products catalogues
  - Electronic payment interfaces (Crédit mutuel, Domicile, SIPS, ...)

Technologies : Delphi, PHP, IIS, Oracle, Mysql, LDAP directory & Active directory, SMTP interface

#### Development and marketing of products :

- Action Tracker : audits, Non conformity action plan management (Quality & EHS)
- AltiGED : Electronic Document management de documentary referential
- AltiFlow : workflow management and electronic forms
- Covoiturage : Software to manage Car Sharing
- SPM : Software to manage and trace software requirement.

Clients : Dekra, Tembec, Intespace, Freescale, SCT, Véolia, Techofan, Eurotunnel

#### Trainer :

- Database: SQL (Oracle, MySQL, SQL Server), PL/SQL, Pro\*C, Tuning Oracle & MS  
Author of book "Optimisation des bases de données" ( Database Tuning - Pearson 2010)
- Languages : C++, Delphi, C++ Builder, PHP, Python, real time programming.  
Author of few articles about C++ 11 & JQuery on French Linux Magazine

#### Support :

- Management of a 120 stock of PCs with several Windows NT servers
- End user support for Office and specific applications.

#### **06/93 to 04/05 : Software developer MOTOROLA Toulouse (as a sideline with study)**

Activity : Development of several miscellaneous management systems.

Technical Environment: C++, Paradox, Oracle, Window NT.

#### **ADDITIONAL INFORMATIONS**

- Driving License : Car and Motorbike (in France)
- English Technical and general : Good working level