

ERIC NICOLAS

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32-year old, Divorced
French citizenship

Business analyst / Project manager – Capital markets 9-year experience

Key skills

Business management: Business plan, strategy, customer relationship, quality assessment, procurement, budget planning and accounting.

Management: Recruitment, team management and motivation, project management.

Business analyst: In-depth knowledge of capital markets (Fixed Income, Equities, Derivatives products, Trading, Arbitrage, Trading strategies, ...)

Software architecture: Object oriented design, distributed systems, design patterns, relational databases, real-time systems. Electronic trading system architectures, integration of heterogeneous systems.

Software development: Advanced object oriented programming (C++, Java), functional programming (C, Visual Basic), web (HTML, XML, CSS, ASP, PHP), relational databases (SQL, SqlServer, MySQL, SQLite), distributed systems (CORBA, COM, .Net).

Professional experience

2003..now

BNP Paribas, Paris, Equity & Derivatives Research

Responsible for the worldwide architecture of front office softwares within a 30-people research team. Specification, implementation and optimization of shared components (connection to real time feeds, order routing, proprietary middle ware based on Tibco Rendez-vous, Corba integration, ...), integration of innovative technologies (ACE/TAO, QT, distributed computing).

In parallel to this transversal role: responsible for an automated strategy software platform as well as some dedicated stocks and derivatives arbitrage strategies, in cooperation with traders and research.

2002..2003

BNP Paribas, Paris, Equity & Derivatives Research

Responsibility for the market making applications suite for France, United Kingdom, Netherlands, Japan and Hong-Kong trading. These software

modules (front office integration, order routing, real-time graphical front end) are used by many traders, with a failure rate extremely low.

2001..2002

Next generation market, Paris, CTO

Co-founder, core shareholder and chief technology officer responsible for the technology strategy of the company. Development of all interfaces to the core computation library (Ms Excel, PHP, ASP.Net) and of all the web aspects (commercial web site, business web front ends).

Consulting work: C++ developement, SQL, Web, MsExcel, real-time data integration.

2000..now

Aventures Intérieures, Paris, Partner

Co-founder, core shareholder. A.I. markets multimedia contents in the area of DVD and Music, such as the full database of existing DVDs in France (visible on <http://www.dvdf.com/>).

Responsible for the technical infrastructure, integration of B2B flows with customers, financial advising, strategy. The company is growing quickly since 2002 (3 full time employees, € 120k gross earning).

2000..2001

BNP Paribas, Londres, head of fixed-income e-commerce

Business area: foreign exchange, interest rates derivatives, credit. Clients: 700 market operators worldwide; Budget: € 12M. The role includes creating an Intranet and Internet transactional and non-transactional services offering and connecting ten external electronic trading platforms to the bank's legacy systems (order routing and straight-through processing).

Selecting appropriate technologies to meet the objectives (The transactional core is built from C++ and Java components over a Corba middleware. Front ends are Java graphical user interfaces and web technologies —ASP, VBScript, COM, DCOM, SqlServer). Growing and managing a team from one to thirty people over a six month period. Projects portfolio management, reporting, and quality control techniques within the team.

Deliveries after a year:

- Foreign exchange web transactional suite (online order placing transactions...) accessible from Intranet and Internet
- About ten small communication applications integrated in a business Intranet together with internal news and real-time feeds.
- Financial research web site (categorised document repository) accessible from Intranet and Internet.
- A transactional “eRouter” backbone connected to three external etrade platforms (Eurex Bonds, BondClick, FxAll) and to internal front-office systems, both in London and New York.

1996..2000

BNP, Paris, Fixed Income quant research

IT project manager during a front-office pricing software rewrite. Business coverage: interest rates derivatives. Selection of new technologies (C++, Design patterns, Generic programming...), design and implementation of the

software's object oriented framework, introduction of new VB/MsExcel interfacing techniques, distributed computing on heterogeneous cluster.

Technical expert of the team, technical support to the other team members. Software engineer in charge of porting a C front-office pricing software to Windows NT. Interface to Microsoft Excel. Administration of a Windows workstations network and its Windows NT server. Installation of an intranet Web server.

1995..1996

Conscription, CEA, Grenoble, Software engineer

Military conscription in Grenoble's CEA (Commissariat à l'Energie Atomique). Automatic detection of breast cancer using image analysis techniques (co-author in a published research paper). Assistant to the UNIX network administrator (SUN Solaris workstations and servers).

Education

Graduated from **Ecole Supérieure d'Optique Paris** (French leading engineering school in advanced optics), specialised in Image Processing.

Languages

French: native language.

English : fluent.

Spanish : academic.

Others.

Driving license.

J2EE (Valtech).

Management participatif (BNP Paribas).

Conception orientée objet (Orsys).

Gestion de projets informatiques (Axime).

Money Market Risk Management (IFF London).

Hobbies

Computing : Use and development of open source software. Creator of SWORD <http://www.erik-n.net/sword/> a general purpose, high performance C++ library based on ACE.

Movies, DVD : Creator of <http://www.dvdf.com/>, 1st independant french information web site about DVD (1,2 million pages viewed a month).

Music : Gold Medal of French Flûte in 1990. 1st flûte in a Paris University Symphonic Orchestra in 1994 and 1995.

Photography

Travel