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PROFESSIONAL INTERESTS

Software architecture and analysis using Agile process and Object-Oriented technologies.

Java and Distributed Objects Architectures.

Technical leader, project management, mentoring, audit.

PROFESSIONAL EXPERIENCE (SUMMARY)

Civil Engineer graduated from the ULB in 1990, Sun Certified Java architect and developer, I was involved in process- and quality-oriented Object-Oriented software developments, with main experiences:

- **Object-Oriented process development** (Agile, Unified Process, XP), **Object-Oriented modeling** (UML, OMT) and **Design Patterns**, 16 years
- **Architecture and technical coordination** (IBA, Syllis, Alcatel), 9 years
- **Distributed objects architectures** (CORBA, J2EE, RMI, Messaging Middleware), 8 years (IBA, Syllis, Software AG, Unisys), known for 10 years
- **Industrial and real-time projects** (Proton-Therapy System, GSM, Private Radio), 7 years
- **Java** (incl. RMI, JMS, JDBC, Swing, JMX), 8 years (IBA, OPL, Syllis), known for 11 years
- **C++**, 5 years (IBA, OPL, Alcatel), known for 13 years
- **Scripting languages** regularly used for prototyping, scripting and test: Python (Software AG, IBA), known for 5 years and Ruby (IBA), known for 3 years
- **XML**, 3 year, known for 6 years

My projects were generally three-tiers projects (distributed environment, Spring Framework, J2EE, CORBA), using different operating systems (Unix, Windows, Linux, MacOS), Relational Databases (Oracle, PostgreSQL, MySQL), and sometimes Graphical User Interfaces (Java-Swing, C++ MFC).

Some projects were also client facing: at IBA (client: Massachusetts General Hospital), at Syllis (client: GOCA and Banksys), at Software AG (client "Parlement de la Communauté Française").

In parallel with this architecture and development activity, I'm a technical trainer (Java, OO, UML, CORBA, C++) for 6 years, and I regularly audit projects and people (technical audits or interviews).



PROFESSIONAL EXPERIENCE (DETAILS)

FloConsult SPRL Freelance

Audit / Training / Consulting

In parallel with main activities, I periodically perform short activities to help companies for evaluation, knowledge transfer, ...

Companies: Fabricom-GTI, IBA, Sylis, Trasys France, OA Group.

Audit, consulting and coaching for:

- Project organization (estimation, risks, ...),
- Requirement activities (Use Case, modeling),
- Architecture and code development
- Test activities.
- Tools

Course material realization and presentation about:

- Java and C++ programming languages
- Distributed architecture using CORBA
- Object-oriented modeling using UML
- Object-oriented Design using Patterns

Main Projects

04/07-today: Software Architect / Mentor – IBA

Development of Pencil Beam Scanning treatment (method in which a proton beam spot is moved by magnetic scanning while the beam intensity is adapted simultaneously yielding finally to the desired dose distribution).

Use of Java, C++, Spring Framework, Maven, Ibatis, SmartSocket and Enterprise Architect.

08/05-03/07: Project Manager – IBA / UFPTI (Florida)

Development of a specific proton therapy system to treat eye tumors.

6 people project. Project Manager using Agile practices (iterative development, scrum, continuous integration, test driven development, ...) and according to the FDA constraints.

Use of Java, C++, Spring Framework, Maven, IBatis, ACE/TAO, JacORB (CORBA), SmartSocket and Enterprise Architect.

08/05-11/05: CORBA Consultant – Fabricom

Design and technology mentoring to migrate a passenger adviser system for the Belgian train company (SNCB/NMBS).

Use of OmniOrb and ACE/TAO using C++ (gcc).

01/05-07/05: J2EE Designer – Unisys / Federal Belgian Government

Integration of Belgian Court of Justice application (Phenix Project) for the Belgian Federal Government.

Development of business components using J2EE technologies.

Use of JBoss (J2EE Application server), Oracle, EJB, JMS, Cactus (Unit test), Ant, SourceSafe, XML Schema and XSLT.



01/04-12/04: XML/Python analyst and designer – Communauté Française

Parlement de la Communauté Française de Belgique for Software AG (Brussels).

Development of software applications to control and supervise activities of a parliament (activities control and supervision, documents workflow, ...).

Use of XML (Sax, XSLT, Xpath, DocBook), Python, wxPython, LaTeX, CVS, PostgreSQL.

Working on Windows 2000 and Linux.

12/03-01/04: J2EE analyst and programmer – Social buildings Database management

Région Wallonne for Syllis Belgium (Brussels).

Update of a J2EE Distributed application (made for the “Région Wallonne”, about the social buildings management).

Use of Java, Swing, Websphere, Tomcat, Netbeans, CVS.

8/03-11/03: Project Leader – TAMS

Syllis Belgium (Brussels).

Responsible of an application used to configure the Banksys Terminals.

Use of Unified Process, UML, C++ and Java. Working on Windows NT.

5/99-8/03: Software Architect - Proton Therapy Control System

IBA (Louvain-La-Neuve).

Responsible of the architecture of a control system for a Proton Therapy Center in Boston.

Use of CORBA (ACE/TAO, ORBacus, OmniORB), CORBAServices (Naming, Notification), UML, Oracle database, Java (RMI, JDBC, Swing) , C++, C and Python languages. Working on VxWorks (Tornado), HP-UX, Sun Solaris and Windows NT.

People coordination and mentoring.

9/02-2/03: Project Coaching – Driver License Examination application

Syllis Belgium (Brussels).

Application used to test the traffic laws, road signs and safety rules (multimedia tests) and to manage driving tests (appointments, resource allocation, ...). Project Management and Java technologies coaching.

OPL Benelux Consultant

11/97-3/99: Software engineer - Proton Therapy Control System

IBA (Louvain-La-Neuve).

Object-Oriented analysis and architecture of a control system for a Proton Therapy Center in Boston. Use of Oracle database, UML, Rational Rose (script development for Ansi-C code generation), SoDA, Ansi-C language and SmartSockets (Message-Oriented Middleware / Talarian). Working on HP-UX 10.20 and VxWorks.

10/97-11/97: CORBA trainer

3IL - Limoges (France) (last year student in software sciences).

Course material realization and presentation (duration: 3 weeks). This course presented the development of a distributed Object-Oriented application using CORBA and C++. Theory about CORBA and practice using ORBacus (Iona).



4/97-9/97: Software Engineer - Project Management application

Development of an application to record and to manage change requests and problem reports during a development. Use of UML, PowerBuilder 5 and Sybase.

Alcatel ETCA (Charleroi) Employee

12/96-3/97 : Technical Coordinator - Network Management application R&D

Development of a Network Management application for a TV Broadcast network offering phone services. Use of UML, HP-OpenView, C++ and CORBA (prototyping). Coordination of a 4 people team.

01/96-12/96 : Technical coordinator - Mobile Communication (GSM) R&D

Performance Measurements functionality (centralization and treatment of network performance measurements) of a BSC (Base Station Controller) equipment. Involved in the specifications, analysis, system architecture phases and module development. Use of OMT, Chill language. Coordination of a 6 people team.

10/94-1/96 : Technical Coordinator - Mobile Communication (GSM) R&D

Development of a management console for BSC (Base Station Controller) equipment. Use of OMT, Design Patterns and C++ language. Coordination of a 3 people team.

8/93-9/94: Software Engineer - Radio Communications, R&D

Development of an Operator Desk used to manage a PMR (Private Mobile Radio) network. Use of OMT, ODBC and C++ language and MFC framework.

12/92-7/93: Software Engineer - Radio Communications, R&D

Development of a link protocol MAP27 for PMR (Private Mobile Radio). Use of SA/RT (functional analysis) and Ansi-C language.

1/92-11/92: Software Engineer - Radio Communications, R&D

Development of a BIIS 1200 (digital air protocol) simulator used for integration and validation test. Use of C++ language.



EDUCATION

Civil Engineer in Telecommunications, 1990, Free University of Brussels, "Grande distinction" (End Study Work: "Image Processing Didactic Software").

Sun Certifications:

- Sun Certified Enterprise Architect for Java 2 Platform – parts II & III, 26 July 2005
- Sun Certified Enterprise Architect for Java 2 Platform – part I, 09 July 2004
- Sun Certified Business Component Developer for J2EE 1.3, 13 May 2004
- Sun Certified Programmer for the Java 2 Platform 1.4; 16 March 2004
- Sun Certified Programmer for Java 1.1 Releases"; August 1998



SOFTWARE SKILLS

Process:

Agile methodology and practices (Iterative development, scrum, test driven development, continuous integration, ...), Unified Process (RUP, OpenUP).

Object Oriented development:

OMT, Booch, OOSE/Use Cases, Design Patterns, OO Design principles (R. Martin).

Structured development:

SA/RT analysis, Structured Design.

Programming languages:

Java, Ansi-C++ (STL), Erlang/OTP, Python, Ruby, Ansi-C, Chill, Pascal.

Databases:

RDBMS (Oracle, PostgreSQL, MySQL), JDBC, JDO, Hibernate, IBatis, OODBMS (notions of ODMG).

Middleware:

CORBA (TAO, ORBacus, OmniORB, Visibroker), RMI, JMS, RPC, SmartSockets (Talarian/TIBCO).

Real-Time:

VxWorks (Tornado), VRTX.

XML Technologies:

SAX, DOM, XML Schema, DTD, XPath, XSLT, DocBook.

Java tools and technologies:

Eclipse, Spring, Maven, JBoss, Websphere, Tomcat, EJB, JMS, JMX, Swing, Ant, Log4J, Junit, EasyMock, Cactus, XDoclet.

Quality Assurance:

Software development according to the ISO9001 standard, FDA, CMM (notions).

Tools:

Plone, Vim, LaTeX, Subversion, CVS, Clearcase, SourceSafe, Enterprise Architect, ArgoUML, Rational Rose (script language, SoDA), Together, SNIFF+, StP-OMT, Teamwork/Ensemble, NetBeans, JBuilder, Visual C++, C++ Builder, Makefile.

Operating Systems:

Unix (HP/Sun), Linux, Windows 2000/NT, DOS.

Office tools:

OpenOffice, MS-Office, Interleaf.



SPECIFIC TRAININGS (EXTRACT)

- SpringOne 06/2007; Most appreciated talks: "*Improving application design with a rich domain model*" (Chris Richardson); "*Advances in Aspect-Oriented Programming*" (Ramnivas Laddad); "*Strategic Domain-Driven Design*" (Eric Evans).
- Valtech day 03/2007; "*Ruby on rails*" & "*Eclipse RCP*"
- Javapolis 12/2006; Most appreciated talks: "*Typical Pitfalls in Agile Software Development*" (Jutta Eckstein); "*Desktop Patterns and Data Binding*" (Karsten Lentzsch); "*Java Performance Myths*" (Brian Goetz); "*Java in the Trenches*" (Erich Gamma) and "*Spring OSGi*" (Costin Leau).
- "*Introduction to .NET*"; "*Comparing J2EE and .NET*", "*Distributed .NET*", and "*Reverse engineering architectures using patterns*" (M. Stal); ECOOP 2003 (2 days).
- "*Zope 3 Tutorial*", "*Zope and XML*",...; EuroPython 2002 (1 day)
- "*The Agile Unified Process*" (Craig Larman), "*Concurrency: How can I Get It To Work?*" (Frank Buschmann), and "*Generative Programming: Methods, Techniques, and Applications*" (Krzysztof Czarnecki); ECOOP 2002 (2 days).
- "*Using UML for Developing Complex Real Time Systems*" (Selic); "*Framework Development and Adaptation with UML*" (Fontoura/Pree/Rumpe); "*Programming with XML*" (Buneman); ECOOP 2000 (2 days).
- "*Modeling Component Architectures*" (Alan Cameron Wills); "*Patterns at Work*" (Frank Buschmann); "*Advanced C++*" (James O. Coplien) ; 2 days; ECOOP 1998.
- "*Fast track Powerbuilder*", "*Power++*"; Sybase; 6 days; 1997.
- "*Diriger et Motiver*"; André-Dumont; 6 days; 1997.
- "*Mise à Niveau OMT2*"; Valtech (Paris); 2 days; 1996.
- "*Analyse et Conception Système avec OMT*", "*Conception OMT et implémentation en C++*", "*Programmation Orientée Objet avec C++*"; Valtech (Paris); 13 days; 1995.
- "*HP OpenView*"; HP; 5 days; 1995.
- "*Bases de données relationnelles*", "*Architecture client-serveur*"; ORSYS (Paris); 5 days; 1994.



LANGUAGES

French: mother tongue.

English: working language.

Dutch: passive knowledge.

German: basic knowledge.

CITIZENSHIP

Born on January 25th, 1967, Belgian, married, 2 children.

Officier de réserve de la Force Aérienne Belge (1991).

MISC

Co-founder in 2010 of Palantiris SPRL, company specialized in medical processes, see www.palantiris.com.