

COMPUTER SCIENCE ENGINEER 17 YEARS EXPERIENCED

COMPUTER SKILLS

- **SAP** knowledge (ERP, CRM, R/3, Pricing Engine, Sales)
- Strong practice of **Unix/Windows** software development (UML, eclipse, perforce, cvs/svn, japro/ant)
- Programming experience (**JAVA, C++**, C, **XML**, ABAP, Prolog)
- **BPM/Web Services** (BPMN/BPEL, UDDI, WSDL, SOAP)
- Application-server and multi-tiers technologies (SAP **Netweaver CE**, EJB)
- **Security & Trust** knowledge
- **Database**: Oracle, MS-SQL, maxDB
- **3D** computer-graphics skills (ray tracing, volume rendering, level of details, radiosity)

PROFESSIONAL EXPERIENCE

- Since 2008** **Security&Trust Researcher (SAP Research – ERP enterprise – 48 500 employees)**
Responsible of work packages for the **AVANTSSAR** (www.avantssar.eu) FP7 EU project, that aims to propose a rigorous technology for formal specification and Automated VALidationN of Trust and Security of Service-oriented ARchitectures
- Industrially-suited specification languages that define security and trust properties of services, their associated policies and their composition into Service-Oriented Architectures (**BPMN/BPEL, XML**)
 - Implementation of the AVANTSSAR Validation Platform (**Java, WSDL, XML**)
 - Migration of the project results (eclipse plug-in) to the SAP development environment (**NetWeaver BPM**)
- 2000-2008** **Senior Development Engineer (SAP – ERP enterprise – 48 500 employees)**
- **Java** development and 3rd level support as part of the **Customer Relationship Management** team for pricing softwares: **Netweaver** Application Server architecture, R/3 to CRM conversion, sales area
 - Architectural migration (to Java) and Multi-scenarios adaptation (CRM Order, SRM, ISA R/3, Mobile Sales, e-Commerce)
 - Adaptation of the **Internet Pricing & Configuration** software to the light PDA architecture (iPAQ) for the **Direct Store Delivery** market
- 1998-2000** **Development Engineer (ATOS Origin – Computing services company – 47 000 employees)**
- **HP-OPENVIEW** porting to 64bits Digital Alpha. Based on **CMIP** and **SNMP** protocols. HPOV-ITO monitors system and network ressources (5 millions lines of **C/C++**)
 - Analysis and implementation of the security layer of **SNMP V3** (Simple Network Management Protocol)
- 1994-1998** **Product Responsible (MECALOG – Crash-Test Simulation company – 30 employees)**
- Responsible for specification, development, training and support of **ModAnim**, a 3D interactive animation software for visualization of numerical simulations (80 000 lines of **C/OpenGL**)
 - Test and optimization of new 3D video cards of most hardware manufacturers. Porting for all major UNIX hardwares (Silicon Graphics, IBM , HP, DEC, SUN)

1993-1994 **Research & Development Activities (INRIA – Computer Science National Research Center)**
Development and support of **VIGIE**, a **3D** interactive software for **visualisation** of **numerical computation** results. Research and development (**C**) of many new **3D** visualization algorithms

1992-1993 **Trainings (GEOIMAGE, INRIA)**

- Design and implementation (**C/C++**) of a satellite image processing software, (6 months training), for GEOIMAGE, Sophia-Antipolis
- Development of a tridimensionnal mesh visualization software at INRIA, Sophia-Antipolis

TRAININGS

2007 **SAP:** SCM, Sales&Distribution / Sales Order, (*SAP training center*)
2000-2007 Numerous **ABAP** trainings: Oriented Object, Workbench Foundations, Advanced ABAP
2006 Intercultural competence, (*SAP training center*)
2005 **EJB** conception and development, (*Valtech training center*)
1995 **OpenGL:** Advanced Notions, (*Silicon Graphics training Center*)

EDUCATION

1990-93	Computer Science Engineer diploma at Polytech'Nice	<i>Sophia-Antipolis</i>
1993	Master Degree (DEA) in Computer Sciences	<i>Nice Sophia-Antipolis University</i>
1988-90	DEUG A - Mathematics and Computer Sciences	<i>Orléans University</i>

LANGUAGES

French	Native language
English	Daily practice
Spanish	Read, Spoken
Italian	Read, Spoken
German	Beginner
Arabic	Beginner

PUBLICATIONS

- R.Fournier, W.Kherrati, "*Etudes d'algorithmes graphiques dans le cadre de la simulation numérique*", INRIA research report n°2502, Program 6, 1994
- W.Kherrati, "*Rendu volumique pour des maillages non-structurés complexes*", Rapport des "Journées AFIG" (Association Française pour l'Informatique Graphique), 1993
- W. Arzac, G. Bella, X. Chantry, L. Compagna, "*Validating Security Protocols under the General Attacker*", Proceeding of the Automated Reasoning for Security Protocol Analysis and Issues in the Theory of Security (ARSPA-WITS 2009), March 28-29 2009, York, UK
- W. Arzac, G. Bella, X. Chantry, L. Compagna, "*Attacking Each Other*", Proceeding of the International Workshop on Security Protocols, April 1-3 2009, Cambridge, UK