

## SECURITY&TRUST RESEARCHER

### COMPUTER SKILLS

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- Security & Trust skills
- SAP knowledge (ERP, CRM, R/3, Pricing Engine, Sales)
- Strong practice of Unix/Windows software development (UML, eclipse, perforce, cvs/svn, jpro/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)
- Database: Oracle, MS-SQL, maxDB
- 3D computer-graphics skills (ray tracing, volume rendering, level of details, radiosity)

### PROFESSIONAL EXPERIENCE

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**Since 2008**    **Security&Trust Researcher (SAP Research – ERP enterprise – 53 500 employees)**

- Responsible of work packages for EU FP7 funded projects:
  - AVANTSSAR, [www.avantssar.eu](http://www.avantssar.eu), Automated VALIDation of Trust and Security of Service-oriented Architectures: design and implementation of a security validation plugin for business processes (**BPMN/BPEL**, **SAP NetWeaver**, **Java**, **WSDL**, **XML**)
  - PoSecCo, <http://www.posecco.eu/>, Policy and Security Configuration Management
- SAP Security Task Force member: main contact of the security training community, contributor to security trainings (**Java/ABAP**) targeting all SAP employees

**2000-2008**    **Senior Development Engineer (SAP – ERP enterprise – 53 500 employees)**

- **Java** development and 3<sup>rd</sup> level support as part of the Customer Relationship Management team for pricing softwares
- Architectural migration (to Java) and Multi-scenarios adaptation (CRM Order, SRM, ISA R/3, Mobile Sales, e-Commerce)
- Development of the Internet Pricing & Configuration software for the light PDA architecture (iPAQ) dedicated to 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 resources
- 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

## TRAININGS

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2009	Secure Programming, (Eurecom)
2007	<b>SAP</b> : SCM, Sales&Distribution / Sales Order, ( <i>SAP training center</i> )
2000-2007	Numerous <b>ABAP</b> trainings: Oriented Object, Workbench Foundations, Advanced ABAP
2006	Intercultural competence, ( <i>SAP training center</i> )
2005	<b>EJB</b> conception and development, ( <i>Valtech training center</i> )
1995	<b>OpenGL</b> : Advanced Notions, ( <i>Silicon Graphics training Center</i> )

## EDUCATION

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

## LANGUAGES

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

## PUBLICATIONS

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- W. Arzac, L. Compagna, S. Kaluvuri, and S.E. Ponta. *Security validation tool for business processes*. In Proc. of the 16th ACM symposium of Access control models and technologies (SACMAT'11), 2011
- W. Arzac, L. Compagna, G. Pellegrino, and S.E. Ponta. *Security Validation of Business Processes via Model-checking*. In International Symposium on Engineering Secure Software and Systems (ESSoS 2011), pp. 29–42, 2011
- W. Arzac, G. Bella, X. Chantry, and L. Compagna. *Multi-Attacker Protocol Validation*. In Journal of Automated Reasoning, Vol 46, pp 1-36, 2010
- W. Arzac, G. Bella, X. Chantry, and L. Compagna. *Validating Security Protocols under the General Attacker*. In Joint Workshop on Automated Reasoning for Security Protocol Analysis and Issues in the Theory of Security (ARSPA-WITS 2009), ENTCS. Elsevier-Science, 2009.
- W. Arzac, G. Bella, X. Chantry, and L. Compagna. *Attacking Each Other*. In 17th International Workshop on Security Protocols (IWSP 2009), LNCS. Springer-Verlag, 2009.
- 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