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PhD, Engineer — Information & Industrial Systems¹

Work experience

- since nov. 2008 **Research engineer**, UNIVERSITY OF TOULOUSE. Development of “Numeric University” :
– setting of directory servers and automatic feeding programs (Perl, shell)
– installation and system administration for servers (CentOS)
- 2008 **Development engineer**, C-S (Communication & Systèmes : designer, integrator and operator of mission critical systems, Toulouse). Support and software evolutions :
– development of new features for existing software
– support for these applications
– writing and update documentation
- 2008 **Sysadmin & developer**, PRAKSYS (FOSS services company, between Toulouse and Montauban) :
– development of internet/intranet/extranet sites (Plone)
– system administration (Debian)
– development and setting of “information systems” (from file server to small ERP)
- 2007 – 2008 **Research engineer**, industrial systems, ARMINES (Research association for the French engineering schools “Écoles des Mines”, Albi). Development of applications for order management, planning and workshop management, and their interfaces :
– development of two applications : orders management and planning (Perl/CGI) and workshop management (GlobalScreen Intra — *Java* framework)
– tests, system administration
– industrial IT : communication with automata (Ethernet), between servers (IP),...
- 2003 – 2006 **Research engineer**, ÉCOLE DES MINES D’ALBI-CARMAUX (Albi). Researches upon decision support and constraint programming for design or configuration of products or industrial processes :
– logic and constraint programming
– design and development of a prototype (about 20,000 lines of Perl code)
– tests, system administration
– documentation and scientific communications writing, participation to conferences,...
- 2003 **Engineer** (analyst and developer) at the CERIT – computing department of the MAAPAR (French ministry of agriculture). Development of an application for the statistic survey of learning adults in schools of this ministry :
– needs analysis and specifications writing
– development of a web tool to collect data and a heavy client to use the data collected (Powerbuilder)

Education

- 2006 PhD Industrial Systems (INP Toulouse, École des Mines d’Albi-Carmaux) : *Contribution to the development of a constraint-based formalism managing the relevance to assist design tasks*, research directors : M. ALDANONDO and P. GABORIT ; jury : J-P NADEAU, L. GRANVILLIERS, P. LUTZ, M. VERON, M. ALDANONDO, P. GABORIT and É. VAREILLES
- 2003 Master of Science, Industrial Systems, INSA Toulouse.
- 2003 Studies at the École des Mines d’Albi-Carmaux, generalist high level engineering school. Graduated in management of information systems
- 1997 A-level (with special emphasis on science) with distinction, Perpignan

¹References available on request

Languages

French	mother tongue
English	nearly fluent ; succeeded in IELTS (7/9), April 2001 ; translation from english to french of several documents for association and IT documentation
Spanish	basic notions ; few studies, occasional practice
German	basic notions ; 5 years of study, very few practice

IT Skills

Operating Systems	BSD (FreeBSD), GNU/LINUX (Debian – Ubuntu, Fedora – CentOS, Unix (Solaris, HP-UX), MAC OS X, Microsoft Windows (3.1 → XP)
Languages	Perl, Shell (ksh, (ba)sh,...), C, Python, Java, Fortran (f77), Powerscript (PowerBuilder), Prolog (logic programming)
Databases	MySQL, Oracle, Sybase, Access
Other softwares	Apache, versioning (cvs, svn, bsr), OpenLDAP, Plone (Zope-based CMS), ProductView (technical data visualization), Ms Project, Précix (ERP), PowerBuilder, ECLiPSe (constraint programming), CAO/DAO softwares (Ideas, Pro/Engineer, DMT10, AutoCad)
Typesetting	LaTeX and BibTeX, html, CSS, XML, xslt, OpenOffice.org and Microsoft Office suites
Mathematical tools	matlab, Maple, Mathematica
Modelling	MERISE, UML, SADT, FAST
Others	Good knowledge of Internet (DNS, Web, Mail, News,...), good notions of network protocols (HTTP, FTP, SMTP, LDAP, SSH,...)
FOSS	Good knowledge of <i>Free and Open Source Software</i> , development of free software (LaTeX packages, BibTeX style files, shell or Perl scripts, documentation translation,...)

Teaching

2007	Initiation to C : practical works with Borland C++ Builder (EMAC, engineer students, 2 × 4 h)
2007	Programming practical works : C (EMAC, engineer students, 10 × 1.5 h)
2006	LaTeX : practical works, theory of BibTeX and slides classes (EMAC, assistant-professors and PhD students, 2 days)
2005	Initiation to C : practical works with Borland C++ Builder (EMAC, engineer students, 4 × 4 h)
2004	Automatisms/Matlab : practical works, linear and continuous systems analysis and command (EMAC, engineer students, 4 × 1.5 h)
2004	Operationnal research : tutorial classes, graphs theory, linear programming (EMAC, engineer students, 7 × 1.5 h)
2004	Industrial computing : practical works, Borland C++ Builder, serial and parallel communications, C programming... (EMAC, engineer students, 13 × 4 h)
2004	LaTeX : practical works, theory of BibTeX and slides classes (EMAC, assistant-professors and PhD students, 1 day)
2003	Initiation to LaTeX : practical works and theory of BibTeX (EMAC, assistant-professors and PhD students, 1 day)
2003	Initiation to PowerBuilder : practical works (CERIT, trainees, 1 day)

Communications

2008	Franck FONTANILI et Thomas VAN OUDENHOVE. « An Experimental Platform for e-Manufacturing and Advanced Control ». Dans : <i>IFAC'08, International Federation of Automatic Control World Congress</i> . Seoul, Korea 2008
2006	Thomas VAN OUDENHOVE DE SAINT GÉRY. « Contribution à l'élaboration d'un formalisme gérant la pertinence pour les problèmes d'aide à la conception à base de contraintes ». Thèse de Doctorat. École des Mines d'Albi-Carmaux : Institut National Polytechnique de Toulouse, 2006
2006	Thomas VAN OUDENHOVE et al. « CSP dynamiques en configuration ». Dans : <i>JFPC'06, Actes des Deuxièmes Journées Francophones de Programmation par Contraintes</i> . Nîmes, France 2006, p. 397–404
2005	Thomas VAN OUDENHOVE DE SAINT GÉRY, Paul GABORIT et Michel ALDANONDO. « A Specificity of CSP in Design: Controlling the Relevance of the Variables in the Problem ». Dans : <i>CP'05, Conference on Principles and Practices of Constraint Programming, Workshop Constraints and Design</i> . Barcelona (Sitgès), Spain 2005
2005	Thomas VAN OUDENHOVE. « Configuration et CSP avec variables à existence conditionnée ». Dans : <i>Congrès des doctorants EDSYS</i> . Présentation de nos premiers résultats en configuration autonome sur des CSPe. Toulouse 2005
2003	Thomas VAN OUDENHOVE. « Configuration, CSP et base de connaissances ». Rapport de DEA. Toulouse : Institut National des Sciences Appliquées, 2003

Activities

Organisation	Assistant webmaster for the CJC (Confederation of early researchers' French association), 2004–2007 Secretary (2004), president (2005) and webmaster (2004–2006) of the association of PhD students of the École des Mines d'Albi-Carmaux Organisation of the "Challenge du Mineur", university tournament of VII rugby, 2000 Organisation of Integration Week-End for engineering students, 1999 Assistant treasurer of the engineering students association, 1999
Hobbies	Music, reading, chess and other strategy board games,...
Sports	Swimming, badminton, rugby, horse-riding, trekking, tennis,...