

# Curriculum Vitae



## **Hans J. Pruessler**

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### **Key Facts**

*Date of Birth:* November 7th, 1979  
*Place of Birth:* Kirchdorf/Krems, Austria  
*Parents:* Johann Prüller and Ursula Prüller (maiden name Lukas)  
*Nationality:* Austria  
*Degrees:* Ing. B.Sc. (Hons)

### **Education**

- *1986 - 1990: Elementary School*, 4053 Kremsdorf
- *1990 - 1994: Grammar School, Bundesrealgymnasium* 4050 Traun
- *1994 - 1999: Vocational College for Information Technology and Organization*, “**HTBLA fuer EDV und Organisation**”, 4060 Leonding
- *2002 - 2004: BSc (Hons) Studies in Computer Science*, University of Derby (UK); **graduated with “First Class Honours”** degree
- *since 2005: Doctoral Studies of Computer Science*; thesis working title: “Online Machine Learning and Control in an Unbalanced Distributed System”; DeMontfort University, Leicester (UK); supervisors Eric Goodyer, Dr. Robert John and Dr. Ulrich Bodenhofer;

### **Employment Record**

Past Projects / Positions

- 1997 - 1999: **Landis & Gyr LFT**, 4020 Linz, Austria; ***First professional experiences as freelancer besides education.***  
*Tasks:* design and development of a process data archive application;  
*Tools:* Oracle, MS Excel, Visual Basic (for Applications)
- 1999 - 2000: **Sozialhilfeverband Linz-Land**, 4050 Traun, Austria; (civilian service) ***Development of Individual Software, PC-Support.***  
*Tasks:* conception and implementation of a database application in the field of centralized purchasing for the 8 nursing homes of the association; general PC-User support;  
*Tools:* Visual Basic, MS Access, MS Excel
- 2000 - 2001: **moveIT Software**, 4600 Wels, Austria; ***Member of the e-Business Team, exploration of new technologies, providing training courses for colleagues.***  
*Tasks:* design and implementation of a complementary web-application to the standard product of the company. Acquiring core competency on XML and XSLT and training of colleagues in this field.  
*Tools:* Progress Database and 4GL, XML, XSLT, Lotus Notes
- 2001 - 2003: **IGS Systemmanagement**, 4531 Piberbach, Austria; ***e-Business development, AS/400 in the backend, mainly Java and Open Source tools.***  
*Tasks:* general projects in the field of e-Business (web) and PC-applications. Development of an e-Business module for the AS/400 based main software of the company (ERP software), web-technologies, usability engineering, customer support  
*Tools:* Java, AS/400, DB2, Tomcat, Apache HTTP Server, XML/XSLT, Lotus Notes
- May 2006 - August 2006: **Telekom Austria AG; Individual Software Development Project.**  
*Tasks:* Design and implementation of an intranet-application for management and analysis of the customers remote machinery;  
*Tools:* Java5, Apache Tomcat, Oracle, Spring Framework, XHTML, CSS, Java Server Faces (JSF)/Facelets, iBatis SQL Maps, XDoclet
- September 2006 - March 2007: <Austrian Public Utility Company>: ***Personalized Web-Portal Reengineering and Redevelopment Project***  
*Tasks:* Redesign and implementation of existing web-based applications into a new, personalized web-portal with single-signon user accounts (sso).  
*Tools:* Java5, Apache Tomcat, Oracle, HTML, CSS, JSP, Struts, Tiles, iBatis SQL Maps, JOSSO (SSO Library)
- April 2007 - August 2007 <Austrian Public Utility Company>: ***New Web Technologies Evaluation and Consulting, Knowledge Transfer***  
*Tasks:* Knowledge acquisition on and evaluation of new state-of-the-art Java technologies for enterprise web-application development; building of

proof-of-concept prototypes; providing consulting on web application development and state-of-the-art software development standards, tools and methodologies.

*Tools:* Java5 (Java SE, Java EE), Apache Tomcat, Oracle, HTML, CSS, Java Server Faces (JSF), Java Persistence API (JPA) [Oracle TopLink Essentials, Apache OpenJPA], Facelets for JSF, Apache MyFaces and Tomahawk, JSR-168 Portals (Pluto), NetBeans IDE, Eclipse WTP, Apache JMeter

- 2009 - 2010 <Austrian Public Utility Company>: ***Portlet Development for B2C Web-Portal and E-Business***

*Tasks:* (Technically) design and implement several JSR-268 based Java-Portlets as a member of a larger team. Apply styles as defined within CSS from an external agency. Identify and fix security issues. Portlets are deployed within JBoss Portal 2.7.

*Tools:* Java6 (Java SE, Java EE), JBoss Portal 2.7, Oracle, HTML, CSS, Java Server Faces (JSF), JBoss RichFaces, JBoss Portlet Bridge, Java Persistence API (JPA) [Hibernate JPA], Facelets for JSF, Eclipse WTP, JBoss Tools Eclipse Plugin, SVN, JOSSO SSO Framework

#### Current Projects

##### *Commerical Projects:*

- IMS (Integrated Mobile Solution): LBS logics MBT, 4020 Linz, Austria; *Realization of an idea as start-up company. **Leading of the development team, high personal responsibility.***

*Tasks:* Implementation of a vision - from an idea to a fully working software product for mobile business process management; foundation of the start-up company in 2003; mainly product development and acquisition of reference customers until 2006; some installations in production state currently

*Tools:* Java (J2EE, J2ME), MySQL, JOnAS Application Server, Jasper Reports, Hibernate, WebWork (Struts), XML/XSLT, Apache Tomcat, Velocity, Quartz Scheduler, Amorph, XML/XSLT, XDoclet, Apache Axis2, Apache OpenJPA, Java Server Faces 1.2, Eclipse WTP, CVS

- Since 2007: <Austrian Public Utility Company>: ***E-Business (B2B) Web-Application***

*Tasks:* Design and Implementation of a business critical web application which is used to electronically communicate and document the customers business processes. Evaluation and fixing of web-app security issues as this web-application is classified as mission critical.

*Tools:* Java6 (Java SE, Java EE), Apache Tomcat, Oracle, HTML, CSS, Java Server Faces (JSF), Java Persistence API (JPA) [Hibernate JPA], Facelets for JSF, JBoss RichFaces, Eclipse WTP, Jasper Reports, iReport, SVN

– currently Phase II of this rather large Project is being implemented (since 2010)

*Involvement in Open Source Projects:*

- Amorph: ***Fast and Easy to Use Java Data Transformation Library***; Project Founder;  
<http://amorph.sourceforge.net>
- FileRA: ***Java 2 Enterprise Edition File System Resource Adapter (JCA Compliant)***; Project Co-Founder and Member;  
<http://sourceforge.net/projects/filera>
- JOnAS: ***Certified Java 2, Enterprise Edition Application Server***; Contributed to translation of German documentation;  
<http://jonas.objectweb.org>
- HoloJ: ***Proxying Framework for Abstraction of Remote Action Invocation Implementations***; Project Founder;  
<http://sourceforge.net/projects/holoj>

**Research Areas**

Current main area of research within my doctoral studies:

- **machine learning and distributed decision taking** in the environment of mobile/portable computing (e.g. intelligent patient monitoring)

Involved technical fields:

- Artificial Intelligence (e.g. Hybrid Fuzzy Systems, Artificial Neural Networks, online Machine Learning, etc.)
- Distributed Computing, Mobile Computing
- Energy Aware Computing
- Intelligent (Patient) Monitoring Systems

Find up-to-date information on my research page: <http://www.cse.dmu.ac.uk/~hansp/>

**Memberships**

- *Association for Computing Machinery, ACM*
- *Austrian Society for Artificial Intelligence, ÖGAI*
- *Austrian Association for Innovative Computer Science, InnoC*

## Computer Skills

- Operating Systems: MS-DOS; Windows 3.1/95/98/ME/2000/XP/Vista/Windows7; Linux (SuSE,RedHat,Ubuntu), basic knowledge OS/400 IBM e-Series;
- Mobile Platforms: Symbian OS, Palm OS, Windows CE/Mobile; (mainly Java Microedition development); Android (basic development knowledge)
- Databases/Persistence: MS Access; Oracle; IBM DB/2; MySQL; MS SQL Server; Expert in SQL; JDBC, CMP2.1 Enterprise JavaBeans, Hibernate, Java Persistence API (JPA, JPA2.0) [EJB3 EntityBeans] with Oracle TopLink JPA and Apache OpenJPA, Apache iBatis “hybrid” O/R mapping framework, Hibernate JPA
- Programming Languages: Turbo Pascal; Assembler; Visual Basic; Visual Basic for Applications; PL/SQL; C/C++; Expert in Java (Java ME, Java SE, Java EE); basic knowledge of PHP; basic knowledge of C#; basic knowledge of UNIX shell scripting;
- Technologies: Windows Application Development; Java Application Development (platform independent) - micro edition, standard edition, enterprise edition; Web-Application Development; XML; XPath and XSLT; http, HTML/XHTML, CSS, JSP, Java Server Faces (JSF, JSF2.0) + Facelets, JavaScript, ...
- Tools: Antenna; Apache ANT; Apache Axis2; Apache HTTP Server; Apache Tomcat; Apache POI; CrE-ME Java for Windows Mobile; Cygwin; CVS; Eclipse IDE (WTP); FreeMind; Java Wireless Toolkit; Java Service Wrapper for Windows NT/XP; Jasper Reports + iReports; JBoss; JOnAS Appserver; Apache Geronimo (basics); JT400/JTOpen; JUnit; Mambo/Joomla CMS; MS Visual Studio; MyEclipse IDE; Netbeans; Open Workbench Project Management; Poseidon for UML; Proguard (Java Obfuscator); Postnuke CMS; Quartz Scheduler; Spring Framework; Struts; Struts Tiles; TOAD for Oracle; Unison File Synchronizer; Apache Velocity; VSS; WebWork; XDoclet; XML Spy; XWork; ...
- Software Packages: MS Office (95-2010); OpenOffice; LyX(Latex); Lotus Notes; IGS MT; Fabasoft Components;
- Software Design and Architecture: Expert in design of Multi-Tier architectures; high personal interest in Software Quality Management and Software Maintainability in general
- Current Focus: *Java Enterprise Server-Applications and Web-Applications (Java EE); Mobile Computing (Java ME; Android); Open Source Tools; Software Design, Architecture and Maintainability; Artificial Intelligence*

### Language Skills

- German (mother tongue)
- English (fluent)

### Further Skills, Certificates

- **NLP Basics** Workshop, (M. Rosenmayr, 2002)
- detailed studies of **(Web-)Usability Engineering** inspired by Jakob Nielsen (2002)
- **Brainbench Java 1 Certified; scored higher than 95% of all previous test takers**  
(Brainbench, Inc.; June 2006);  
(public transcript available at <http://www.brainbench.com/transcript.jsp?pid=2031313>)
- **Microsoft Certified Professional, MCP** (1999)

### Special Interest in Computing

- Lightweight and Agile Software Development (e.g. extreme programming methods) and
- Agile Project Management Methods (e.g. scrum)
- Maintainability in computing, Software Architecture
- Mobile computing and telematics (Java ME, Android)
- Enterprise computing (e.g. SOA, Java EE)
- Artificial Intelligence (AI) and Machine Learning (ML)

### Personal Interest, Hobbies

- Reading
- “Wine & Dine”
- Hiking
- dogs, dog training
- Computing