Christoph Czernohous

aperti

Education

1995–1998	**Commercial Information Technology**, *Berufsakademie*, Stuttgart, *Dipl.-Betriebswirt (BA)*. Thesis: CORBA and IIOP Support for Java

Languages

German	Fluent
English	Fluent
French	Basic
Italian	Basic

Professional Experience

Profile — I am the founder and CEO of aperti GmbH, a company for professional software development and consulting. From 2004 to 2013 I was certified as architect (application architecture) by the Open Group as part of my work for IBM. I have more than 20 years of experience as architect and IT specialist in several international projects. During the last 15 years my focus was on IT architecture, team leading and project co-ordination. I also worked on application analysis and design with a focus on open standards. The majority of my projects were in the automotive industry and the financial services sector as well as IBM software product development. Safety critical train control has been an addition to this during the recent years. For the "J/XFS" project I represented IBM in the CEN standardisation body to define the J/XFS open standard. In my professional career I continuously organised customer workshops and gave presentations at internal and external conferences about the technical topics I was working on. From Q4 2010 to Q1 2011 I lead a world wide team within IBM to integrate agile development methods with the traditional development process.

Key Skills — Consulting, IT architecture, software design and development, agile development, technical writing, customer presentations

Technical Skills — Java, XML, Eclipse (Core, Plugins, EMF), Linux (Ubuntu, Debian), IBM WebSphere (Integration Developer, Application Server, Portal), HTML, SQL, J/XFS, OS/2

Career History

01/2013- today	**Chief Executing Officer**, *aperti GmbH*, Magstadt, Germany. Custom software development and consulting with a focus on Open Source, mobile solutions and agile development.
11/2006- 12/2012	**Senior IT Architect**, *IBM Deutschland Research & Development GmbH*, Böblingen, Germany. Architecture and development for the project "IBM Business Process Management". Architecture for the project "IBM Smart Business Cloud-Enterprise+". IT Architecture and team lead for the development of the component "Human Task Editor" (generation of user interfaces, editor for business rules), and other product components as part of the product "IBM WebSphere Integration Developer".
03/2005- 10/2006	**Senior IT Architect**, *IBM Deutschland Entwicklung GmbH*, Böblingen, Germany. Architecture and development of the component "Human Task Editor" and other parts of the product "IBM WebSphere Integration Developer".
05/2003- 02/2005	**IT Architect**, *IBM Business Consulting Services*, Stuttgart, Germany. Consulting for customers on how to implement, integrate and use their IT systems in an optimal way, based on changing business requirements.
10/1998- 04/2003	**Software Developer and IT Architect**, *IBM Deutschland Entwicklung GmbH*, Böblingen, Germany. Custom software development, IT architecture und consulting.

Project History

05/2017- today	**Train Control**, *International corporation for safety and security solutions*, Ditzingen, Germany. Safety-critical software development and consulting regarding the "Eclipse" platform. Extension and optimisation of the user interface. ○ Technisches Umfeld: Eclipse 3, Eclipse 4, Java 7, Java 8, SWT, OSGi, Subversion, Linux, Jira
10/2016- 04/2017	**Simulation of Living Cells**, *Market Leader for the Simulation of Living Cells*, Stuttgart, Germany. Architecture, improvement and further development of the existing solution consisting of heterogeneous software components. Definition of a consolidated solution targeting a high performance and scalable software-as-a-service managed in a cloud environment. ○ Technical Environment: Java EE, Eclipse 4, Java 7, Glassfish, GWT, Backbone JS, Maven, Ant, Subversion, Linux, Jira, Confluence, Jenkins
02/2016- 09/2016	**Parental Leave**.
08/2015- 01/2016	**Semiautonomous Driving**, *International car manufacturer*, Munich, Germany. Architecture and development of a client component for optimised access of several different map data for analytics and calculation purposes. ○ Technical Environment: Eclipse 4, Java 8, Subversion, Linux, Jira, PostgreSQL, Spark, PostGIS
01/2013- 06/2015	**Train Control**, *International corporation for safety and security solutions*, Ditzingen, Germany. Safety-critical software development and consulting regarding the "Eclipse" platform. Refactoring of central parts of the component for safe communication with other systems. Evaluation of migrating to Eclipse 4. ○ Technical Environment: Eclipse 3, Eclipse 4, Java 7, Subversion, Linux

01/2012- 12/2012	**IBM WebSphere Business Process Management Development**, *IBM Deutschland Research & Development GmbH*, Böblingen, Germany. Software development for key components of the business process management product IBM BPM, developed at IBM's Böblingen research and development lab. ○ Technical Environment: IBM WebSphere Application Server, Eclipse, IBM Rational Team Concert, Java 7, Jira, Linux
02/2011- 12/2011	**IBM Smart Business Cloud** - **Enterprise+**, *IBM Deutschland Research & Development GmbH*, Böblingen, Germany. Architectural consolidation of several existing cloud user interfaces with the goal of an integrated, common access for cloud offerings. Integration of SAP services into the SCE+ cloud. ○ Technical Environment: IBM WebSphere Application Server, IBM Tivoli System Automation, IBM Rational Team Concert, Java
11/2006- 01/2011	**IBM WebSphere Integration Developer**, *IBM Deutschland Research & Development GmbH*, Böblingen, Germany. Product development of IBM's software portfolio for business process modelling and management. "IBM WebSphere Integration Developer" is a development tool based on the Eclipse plattform for modelling business processes and human tasks. ○ Technical Environment: IBM WebSphere Integration Developer, Eclipse, IBM Rational Team Concert, Java, Linux
07/2004- 02/2005	**Employee Portal**, *International car manufacturer*, Stuttgart, Germany. Architecture, design and development of customer specific applications and integration components for the existing portal application, focal point for the customer. In addition to this, the installation was reaching its capacity limit and a solution for keeping the portal stable was needed. The project also included planning of the migration to the next release of IBM WebSphere Portal. ○ Technical Environment: IBM WebSphere Portal, IBM WebSphere Application Server, Eclipse, Java, Linux
02/2004- 06/2004	**External Employee Portal**, *International car manufacturer*, Ingolstadt, Germany. Architecture and implementation of the migration of the external (accessible over the Internet) employee portal from IBM WebSphere Portal Server 2.1 to IBM WebSphere Portal V5. Porting of the existing portal structure (pages and navigation) to the new platform and integration of the content management system "Day". Co-ordination and team lead, identification of the required technical steps, presentation of the project's progress, demonstration of technical solution alternatives, conduction of integration and performance tests. ○ Technical Environment: IBM WebSphere Portal, IBM WebSphere Application Server, Eclipse, Java, Linux

06/2003- 01/2004	**Automotive Software Foundry, Technical Asset**, *IBM Business Consultig Services*, Stuttgart, Germany. This project had 3 goals:

This project had 3 goals:
- To enable customers in the automotive industry to establish a software development process using adequate supporting tools. The goal of the process is to enable and improve reusability, quality and reproducibility.
- To offer a solution for integrating the software component release process with the hardware component release process and to enable the manufacturer to treat software components as individual product parts, independent of hardware components, regardless of whether the software components were developed in-house by the manufacturer or provided by external suppliers.
- To provide a solution to allow powerful search and query operations based on qualified attributes associated with parts (data warehouse features).

During the project I analysed and documented the requirements for the planned system and created an architecture for it. In this process I acquired broad knowledge about the automotive software development process and possible tools to support it. In addition to that I deepened my knowledge about product lifecycle management (PLM), software configuration management (SCM) and product data manament (PDM) processes and systems.
- Technical Environment: Eclipse, Java, Linux

11/2002-
05/2003 **Advisory & Client Environment**, *Major International Bank*, Zurich, Switzerland.
During this project I consulted the customer regarding the usage of the IBM WebSphere product family in general and IBM WebSphere portal in particuliar. I was the customers technical IBM contact person for IBM WebSphere Portal Server issues. The goal of the project was to provide an integration platform for all of the customer's web based intranet and internet applications. The first step was to demonstrate the feasibility in a successful proof-of-concept (PoC).
- Technical Environment: IBM WebSphere Portal, IBM WebSphere Application Server, Eclipse, Java

04/2002-
11/2002 **Employee Portal**, *International car manufacturer*, Stuttgart, Germany.
I conducted the technical co-ordination of the development team, supported the architecture team and migrated several custom components to the next version of IBM WebSphere Portal Server.
- Technical Environment: IBM WebSphere Portal, IBM WebSphere Application Server, Eclipse, Java

11/2001-
03/2002 **Employee Portal**, *International car manufacturer*, Stuttgart, Germany.
This was the follow-on project for the customer specific functional extension of the product IBM WebSphere Portal Server. I defined, documented, introduced and co-ordinated a software configuration and software management process for the customer's development team.
- Technical Environment: IBM WebSphere Portal, IBM WebSphere Application Server, Eclipse, Java

06/2001-
10/2001 **Employee Portal**, *International car manufacturer*, Stuttgart, Germany.
I analysed the customer's requirements and designed, implemented and tested parts of the components for the extension of the functionality of the product IBM WebSphere Portal Server as requested by the customer for use as an employee portal.
- Technical Environment: IBM WebSphere Portal, IBM WebSphere Application Server, Eclipse, Java

10/2000- 05/2001	**J/XFS Device Service Development**, *International bank*, Leuven, Belgium. I consulted the customer in using the technology and discussed the customer's requirements. I analysed the requirements, developed a design for the requested J/XFS device services according to the J/XFS specification and led the development team implementing it. ○ Technical Environment: Java, Linux, Windows, OS/2
07/1999- 09/2000	**FDI for J/XFS**, *J/XFS Forum*, Böblingen, Germany. Financial Device Services (FDI) for Extensions for Financial Services for the Java Platform (J/XFS) is the full name of the project. The goal was to offer a platform independent middleware for the integration and control of banking hardware like automated teller machines (ATM) into the Java platform. During this project I reviewed the application programming interface (API) specification and implemented and tested central components of it. I authored and conducted trainings for customers in Belgium, Japan and China. I acquired deep knowledge about middleware technologies, banking hardware and how it can be integrated into and controlled by Java applications. I represented IBM in the CEN standardisation body to define the open standard J/XFS. ○ Technical Environment: Java, Linux, Windows, OS/2
10/1998- 06/1999	**Titus Design Tool+ (TDT+)**, *International car manufacturer*, Stuttgart, Germany. This project's goal was to create a software development tool that enables customers in the automotive industry to develop (design, implement, test) embedded software for in-car usage and to manage the distribution of the developed components over the electronic control units (ECU) in the car. I analysed, designed, implemented and tested parts of the test component and graphical user interface (GUI) of the system. In the course of this project I learned the principles of embedded automotive software engineering. ○ Technical Environment: Java, Linux, Windows, OS/2

Internships

10/1995- 09/1998	**Academic Studies of Business Administration, Specialisation Commercial Information Technology (BA)**, *IBM Deutschland Informationssysteme GmbH*, Stuttgart, Germany. During my academic studies at the Berufsakademie (BA) I worked as part of internships at IBM in several departments within IBM Germany (HR, IBM bank, IBM Global Services, sales). I wrote my thesis at the IBM Toronto Lab, Canada.

Publications

Christoph Czernohous: Pervasive Linux, Springer, 2011, ISBN/ISSN: 978-3-540-68426-8

Christoph Czernohous: Bank on it: Introduction to J/XFS, Part 1 & 2, IBM developerWorks - www.ibm.com/developer, 2001

Membership in professional organisations

Java User Group Stuttgart e.V.: Founding and Board Member

Gesellschaft für Informatik e.V.: Member