

Bernd Kolb

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Personal Data

Birthday	15.08.1982
Place of Birth	Heidenheim a.d. Brenz
Citizenship	German
Marital Status	Married, 2 children
Foreign languages	English (fluent) French (basic knowledge)
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Profile

Bernd Kolb works as Architecture & Technology Manager for itemis AG in Stuttgart where he is evaluating and researching new trends and technologies. His main focus is on model driven software development and tool development for various domains. Before that, Bernd worked as a product owner and architect for SAP with the main focus on the development of a Java based on-demand platform as well as the corresponding Eclipse-based tool stack. He worked in different domains from tooling for automotive embedded systems to enterprise Java applications. Bernd is a regular speaker at conferences and has written a number of articles as well as co-authored a book on OSGi.

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Experience

Architecture- & Technology Manager, itemis AG; Stuttgart, Germany – since July 2011

- Focusing on MDSO and tool development for various domains
- HR-responsibility for 10+ developers
- Designing and building a language for describing cooling algorithms for refrigerators at B/S/H
- Designing and building a language as input to a rule based system for business intelligence and regulatory reporting in the banking industry at Logica
- Consulting at Basler Versicherungen to build a language and code generator to describe SOA services
- Evaluating different modeling technologies at BOSCH research
- Since July 2011 project and team lead as well as co-architect for <http://mbeddr.com> - an JetBrains MPS based Language Workbench for embedded programming
- Software development for an electronic smart meter based on mbeddr
- Since August 2013 project and team lead as well as co-architect for a commercial extension built on top of mbeddr supporting data flow modeling. The product is developed by itemis on behalf of a major international tool vendor and scheduled to be released in a first version mid 2015.

Member of the Eclipse Architecture Council, Eclipse Foundation; January 2009 – December 2012

- Participated in improving the Eclipse Development Process (EDP) and mentored new project launches at Eclipse.

Development Architect & Product Owner, SAP AG; Walldorf, Germany – June 2010 – July 2011

- Leading a team of product owners for SAP's Java based onDemand efforts. Responsible Area Product Owner for internal and external developer experience on the platform. Successfully driving several internal initiatives to transform SAP Netweaver's development process, open source consumption and contribution practices including various presentations to SAP's executive management.

Development Architect & Team Lead, SAP AG; Walldorf, Germany – July 2009 – June 2010

- Leading a migration project that ported several internal projects from a MOF based infrastructure to EMF

Senior Developer, SAP AG; Walldorf, Germany – September 2008 – July 2009

- Working on the integration of a MOF based infrastructure into Eclipse. Evaluation to replace the internal project with Eclipse EMF

Independent Consultant, KolbW@re; Since January 2002

- Committer on oAW XPAND, Xtend, Check, one of the initial committers of Xtext, and MWE
- Prototype to use Eclipse 2.0 as a basis for rich client applications
- Independent consultant at ESG GmbH for SWT and Eclipse
- Review and architecting of several subsystems for creating, managing and maintaining schedules for public transportation systems based on Eclipse Technologies and J2EE for ATRON
- Consultant for model-driven implementation of an embedded component architecture for BMW CarIT, Implementation of an AUTOSAR prototype
- Consultant for Deutsche Post IT Solutions at a J2EE / MDSO project for based on Eclipse RCP and openArchitectureWare. Design of the client architecture, several architectural reviews.
- Consultant at Rohde & Schwarz for a MDSO project to manage the development of software product lines for large communication systems
- Consultant at Gentleware in a tool-development project based on UML and Eclipse technologies.
- Consulting at Itemis on Eclipse technologies
- Development of a MDSO prototype for device-simulation for ZF Friedrichshafen
- Prototype for SIEMENS: Usage of MDSO for embedded systems
- Consulting at Liebherr to establish an SOA with MDSO
- Consulting and architecture review at Harman-Becker for a tool suite for MDSO in the embedded domain
- Architecture review for Robert Bosch GmbH for their next generation tool suite for embedded device development based on MDSO
- Consulting at Bizerba building a distributed Eclipse based platform to run in embedded devices as well as on ordinary desktop computers
- Consulting at Intentional to improve their product as well analyzing customers needs and building prototypes based on the Intentional Domain Workbench
- Development of an Android based application in 2010/2011

Trainee, IBM Research Zurich; Zurich, Switzerland – March-June 2006

- Work on the planning utilities for IBM Rational Team Concert (Jazz), a team collaboration platform based on Eclipse.

Publications

Books

- German: Eclipse – Die Plattform, Büssau (Hrsg.), Widder (Hrsg.), S&S, 2005, ISBN 3-935042-54-X
- German: Die OSGi Service Platform, D-Punkt, 2008, ISBN 389864457X
Wütherich, Hartmann, Kolb, Lübken

Articles

- Various articles for German magazines such as Eclipse Magazin, Java Magazin, iX,
- Various articles for online magazines such as infoQ, Eclipse.org, heise Online,

Research Papers

- mbeddr: an Extensible C-based Programming Language and IDE for Embedded Systems
together with Ratiu Schaetz Voelter, accepted at SPLASH 2012
- Language Engineering as an Enabler for Incrementally Defined Formal Analyses
together with Ratiu Schaetz Voelter, accepted at Formal Methods in "Software Engineering: Rigorous and Agile Approaches" at ICSE 2012
- An Extensible Debugger for an Extensible Language
together with Pavletic, Völter, Kehrer, submitted to GPCE 2012
- mbeddr: Instantiating a Language Workbench in the Embedded Software Domain
together with Voelter, Ratiu, Schaetz, accepted in the Journal on Automated Software Engineering

Conferences

This list only lists the conferences I was speaking at in the last few years. More details can be provided.

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| - XP 2004, Garmisch Partenkirchen (GER) | - EclipseCon 2009, Santa Clara (CA, USA) |
| - W-JAX 2004, Munich (Germany) | - JAX 2009, Wiesbaden (Germany) |
| - JAX 2005, Frankfurt (Germany) | - CodeGen 2009, Cambridge (UK) |
| - W-JAX 2005, Munich (Germany) | - WJAX 2009, Munich (Germany) |
| - OOP 2006, Munich (Germany) | - EclipseCon 2010, Santa Clara (CA, USA) |
| - iX conference 2006, Heidelberg (Germany) | - JAX 2010, Wiesbaden (Germany) |
| - JAX 2006, Wiesbaden (Germany) | - WJAX 2010, Munich (Germany) |
| - W-JAX 2006 Wiesbaden (Germany) | - EclipseSummit 2010, Ludwigsburg (Germany) |
| - EclipseSummit 2006, Esslingen (GER) | - EclipseCon 2011 Santa Clara (CA, USA) |
| - EclipseCon 2007, Santa Clara (CA, USA) | - WJAX 2011, Munich (Germany) |
| - JAX 2007, Wiesbaden (Germany) | - EclipseSummit 2011, Ludwigsburg (Germany) |
| - W-JAX 2007 Munich (Germany) | - OOP 2012, Munich (Germany) |
| - OOP 2008 Munich (Germany) | - EclipseCon 2012, Washington (DC, USA) |
| - EclipseCon 2008, Santa Clara (CA, USA) | - EclipseCon Europe, Ludwigsburg (Germany) |
| - JAX 2008, Wiesbaden (Germany) | - WJax 2012, Munich (Germany) |
| - WJAX 2008, Munich (Germany) | - OOP 2013, Munich (Germany) |
| - JAX 2009, Wiesbaden (Germany) | - Embedded Software Engineering Congress
2013, Sindelfingen (Germany) |
| - EclipseCon 2009, Santa Clara (CA, USA) | - Embedded World 2013, Nürnberg (Germany) |
| - WJAX 2009, Munich (Germany) | - CodeGen 2014, Cambridge (UK) |
| - EclipseSummit 2009, Ludwigsburg (Germany) | |

IT-Skills

- Languages: Java, C, (C#, Scala, C++, Ruby/Rails, PHP, SQL)
- Platforms: MPS, Eclipse, OSGi, (Spring, JEE, Hibernate)
- Eclipse Plugin development, SWT, RCP, GEF, EMF, ...
- MDSD: MPS, mbeddr, Xtext, EMF, GMF, meta-modelling, Intentional Domain System, openArchitectureWare, (AndroMDA)
- UML: experienced with several tools such as Enterprise Architect, Magic Draw, Poseidon and IBM/Rational RSM / RSA
- DSL: designed and implemented several DSLs, textual as well as graphical
- Parser Generator: ANTLR
- Several development tools
- Android Development
- ...

Other Skills

- Team player and lead, proven in many projects
- Working with customers
- Writing and presenting, see publications
- Interested in new technologies

Other Activities

- Active committer on mbeddr
 - Former openArchitectureWare core developer
 - Former Eclipse committer for Xtext, Xpand, MWE, EMF Query, EMF Transactions, EMF Validation, Component lead for MWE and EMF Transactions, M2T-Colead (PMC member)
 - Program committee member for the TOOLS 2007 workshop on Model driven development
 - Program committee chair for the Eclipse-Day at the W-JAX 2007
 - Program committee member for Eclipseforum Europe 2008
 - Program committee member for DSL Day at Jax 2008
 - Program committee member for EclipseSummit Europe 2008
 - Since 2009 member of the Eclipse Architecture Council
 - Program committee member for EclipseCon 2009
 - Program committee member for EclipseSummit Europe 2009
 - Program committee member for EclipseCon 2010
 - Program chair for EclipseSummit Europe 2010
 - Program chair for EclipseCon Europe 2011
 - Technology track chair for OOP 2012
 - Program committee member for EclipseCon 2012
 - Technology track chair for OOP 2013
 - Technology track member for OOP 2014
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- Enthusiastic glider pilot

Education

- 1989 – 1993:** Gerhardt Hauptmann Grund- und Hauptschule, Reutlingen
1993 – 1997: Albert-Einstein-Gymnasium, Reutlingen
1997 – 2002: Werkgymnasium, Heidenheim
2001 – 2002: Research term paper on thermal up winds based on a self-written Java-Application supported by the German air traffic control (DFS) and the German meteorological service (DWD)
- Graduation:** German university entrance qualification (Allgemeine Hochschulreife)
Computer-science award announced by Werkgymnasium, Heidenheim
Final grade: 1.9 (1.0 = best grade)
- 2003 – 2007:** Communication- and software engineering at University of Albstadt
Leaving with the degree of "Dipl.-Ing. Kommunikations- und Softwaretechnik" ("Master software engineering") with distinction
Final grade: 1.1 (1.0 = best grade)

Referrals

The following quotes are copied from my linkedIn profile (<http://de.linkedin.com/in/berndkolb>) and can be read there as well.

"Bernd is an excellent IT architect with a extreme broad knowledge of many IT technologies, but not to beat if it comes to model driven approaches and technology, especially in an Eclipse environment. I enjoyed working with him at SAP on model driven architecture leveraging his extreme Eclipse Know-how and his huge network in the IT/MDA community. He is a clear recommendation."

Rainer Ehre, VP NetWeaver Technology, SAP AG

"I've worked closely with Bernd while I represented SAP on the Eclipse Board of Directors. I did a lot of the outside representation, while he drove open source adoption from the inside at SAP. Bernd is highly respected at Eclipse, and he was the Program Chair for Eclipse Summit Europe in 2010 and again for EclipseCon Europe in 2011. He is passionate about quality results and doesn't get caught up in the noise that can often distract people at large companies. Bernd is sharp, and a flawed architecture won't get passed him. Some may say he is uncompromising, but I happen to believe that he is driven by a clarity of vision. He has the eyes set on the goal, and drives towards results. He doesn't judge without offering clear alternative solutions. He works hard and is diligent in execution. Most importantly, contrary to many people of his intellectual calibre, there is not the slightest bit of arrogance in his personality. He is matter-of-fact, no-nonsense, practical and down to earth. I always enjoyed working with Bernd, and wish him all the very best for his bright future."

Michael Bechauf, Vice President, SAP; Board Member, Eclipse Foundation

"Bernd is very knowledgeable with a crisp and clear mind. It was great having worked with him."

Vedran Lerenc, Development Architect, SAP

"Bernd knows and explains OSGI extremely well. We had very to-the-point discussions about development processes, qualification procedures and architecture. I would have liked to work together with him even more, but we unfortunately shared only one major project."

Andreas Heix, Project Lead, SAP