

# Matthias Küspert

software engineering



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## Profile

Software Engineer since 1988.

### Focus

- Construction and management of agile development infrastructure and complex build/test systems in enterprise environments.
- Consulting regarding OpenSource technologies and concepts.

### Skills

- Realization of complex architectures (Conception, Implementation and Rollout)
- Extraction of specific goals and test-scenarios
- Adaption to given enterprise structures
- Technical project management

### Knowledge

- Languages: German (native), English (fluent), Spanish
- Programming- and scripting-languages: Java, C/C++, Perl, Shell, ...
- IDE: Eclipse, IntelliJ IDEA, ...
- Build-systems: Maven, Ant, autoconf/Makefile, ...
- CI-Server: Hudson/Jenkins, Bamboo, Cruisecontrol, Anthill, Luntbuild
- Collaboration: Jira, Wiki
- Backend: Servlets, RDBMS, ODBMS, Messaging, RMI
- SOA/ESB: OSGi, Bnd, Pax, ServiceMix, CXF, ...

### Education/Career

- since 1996: Freelancer - Consulting and development
- 1990 - 1996: HQ Interaktive Mediensysteme GmbH (<http://www.hq.de>).
- 1989 - 1990: Freelancer - Consulting and development
- 1985 - 1988: Berufsakademie Lörrach

# Latest Projects

## **Since Q2/2016: Automating the Deployment Management, Commerzbank / Frankfurt**

Consulting on architecture of a deployment portal which allows standardized deployments onto various target systems.

- Design, development and maintenance of a JEE application to manage basic data and order management
- Architecture, design and implementation of the adapter interfaces for various types of deployments (Websphere, database, etc.) and sub-systems (e.g. Change-Management)
- Design and implementation of the processing component which handles the execution of orders
- Implementation of various commandline tools
- Architecture, design and implementation of the applications REST-API
- Connecting the application to a new delivery system (DASY)
- 1st, 2nd and 3rd level support

Since Q3/2017: Maintenance, redesign and development of DASY.

- Design and implementation of the authentication and authorization components
- Design and implementation of the build process
- Implementation of the new productgroup REST service
- Implementation of the DASY-CLI commandline-tool and the DASY Maven plugin
- Implementation of a Java-facade for the existing Jruby code as preparation for a complete rewrite in Java

## **Q4/2011 – Q2/2016: Automating the Deployment Management, Deutsche Bank / Frankfurt**

Daily business: Crowd-, JIRA-, Confluence- and Nexus Administration

Consulting on automating the processes according to a given design, implementation of plugins and other components.

## **Q2/2010 - Q4/2011: Deployment Management & Automation, Telekom / Darmstadt**

Daily business: Build- and Deployment Management

Designed, implemented and delivered a framework to integrate vendor deliveries into the enterprise testing and release processes (see: <http://avato-consulting.com/de/pdfs/SWF-Introduction-Avato-Whitepaper.pdf>):

- Implementation using JIRA, Hudson, Mercurial, Nexus and Maven - and various plugins/tools
- Coordination and first-level support when installing the processes
- Documentation and onboarding of the maintenance team

**Q4/2009 - Q1/2010: Build Management, EnBW / Karlsruhe**

Refactoring, optimization and management of the CI builds - Tool scripting - Artifact Delivery Management.

**Q2/2009: Pax UserAdmin/LDAPServer**

Start of 2 Open Source projects:

- <http://www.ops4j.org/projects/pax/ldapserver/>
- <http://www.ops4j.org/projects/pax/useradmin/>

Developed an OSGi UserAdmin service that encapsulates arbitrary User-Management systems (LDAP, ...). As a proof-of-concept a Pax LDAPServer and an OSGi PreferencesService adapter are included.

**Q1/2008 - Q2/2009: Development & Infrastructure Management, LSY / Raunheim**

Build and management of the development infrastructure:

- SCM- and Build-Management
- Prozess Identification & Definition (Issue-, Release-, Escalation-Management)
- Communication-Management (Mailing-List, Wiki, Document-Management)

**Q1/2007 - Q4/2007: Build & Release Management, DVAG / Frankfurt**

Management and Tooling of the build-/release-processes. Design & development of an Eclipse/PDE based application to manage the deployment process.

## ... and before ...

**Q4/2006: Test-Reporting and -Visualization, T-Online / Darmstadt**

Selection and customization of an OpenSource tool to manage/vizualize Testcases and - results.

**Q2/2006: Prototyp Enterprise-Service Backbone, LSY / Louisville**

Design & implementation of a high-availability service-backbone. Proof-of-concept implementation based on OSGi.

The complete history (German only): <https://www.gulp.de/profil/mkuespert.html>