

## Profile

### Jürgen Regel

(as of Juli 2018)

**Education:**

1975-10 - 1981-02 University of Göttingen, Germany,  
Branch of study: Numerical and Applied Mathematics  
Minor: Physics  
Final degree: Diplom-Mathematiker (~ master)

**Project experience since:**

1981-03

**Languages:**

German (mother tongue), English (fluent), French (basic)

**Specialized on:**

Enterprise Application Integration (EAI), development of  
interrfaces, data mapping, systems integration, TIBCO  
ActiveMatrix BusinessWorks, TIBCO HAWK, Java, JEE, JEE  
partly (JNDI, JMS, JavaMail, JAXB, JAXP, WS), XML, JAXP,  
XSLT, WSDL, SOAP

## Industry

*(bold = longtime / actual experience)*

**Services & Logistics**

**Touristic Union International (TUI)**

**Deutsche Bahn (railway, DB Netz AG)**

**Public administration**

**HZD (Hessische Zentrale für Datenverarbeitung)**

## Methodic competences

*(bold = longtime and actual experience)*

**(Management) business consultancy**

Classical business consultancy, at last: Freelancer since 2013

**Design and Software Engineering**

Data (base) migration, batch processing, design patterns, **Enterprise Application Integration (EAI)**, Object Orientation (OOA/OOD), **interface development**, **data mapping**, system selection, software evaluation, **systems integration**, UML (Unified Modelling Language), V-Model / Waterfall model, Scrum, Wiki development, user interface design (usability), documentation (of application / system, operating manual)

**Test methods and tools**

Junit, Citrus, SoapUI, Mockito, JMockit

**IT architecture**

Service Oriented Architectures (SOA)

**Sourcing models and strategies**

Offshore

## Technology & IT competence

*(bold = longtime / actual experience)*

<b>Operating systems</b>	BS2000, MVS (Multiple Virtual Storage), Z/OS, <b>MS Windows</b> , <b>Unix</b> (Linux, Solaris, HP-UX, Red Hat, Ubuntu etc.) Virtual Machine (VM), Virtual Box
<b>Databases / database languages</b>	DB2, hierarchical databases, IMS, Java Database Connectivity (JDBC), Open Database Connectivity (ODBC), SQL, <b>Oracle</b> , relational databases, Virtual Storage Access Method (VSAM)
<b>Integration tools</b>	<b>TIBCO:</b> <b>ActiveMatrix BusinessWorks</b> , TIBCO BusinessEvents, <b>TIBCO EMS (Enterprise Message Server) with JMS</b> , <b>TIBCO HAWK</b> , TIBCO Rendezvous  IBM: WebSphere MQ (MQ Series), IBM WebSphere Message Broker, MQ AMI, MQ JMS
<b>Programming languages</b>	Assembler, C, C++, COBOL, HTML, JCL, <b>Java</b> , <b>JDK</b> , CSS (cascading style sheets), REXX, Shell Skripting (bash, ksh, K-Shell, C-Shell), <b>WSDL</b> , host languages (PL1, FORTRAN), XHTML, JavaScript, <b>XML</b> , <b>XSD</b> , <b>XSLT</b> , <b>XPath</b>
<b>Standard software developing tools</b>	Apache ANT, Apache Tomcat, Apache Maven, Eclipse, GIT, HTML5 / CSS3 / Responsive Design, Java Development Kit (JDK), Java Servlets, Jenkins, Perforce, version management (SubVersion, Git, Synergy, Perforce, PVCS), Swing, log4j, Scrum (Version One, Jira, Trello)
<b>Standard software Office products</b>	MS Excel, MS Outlook, MS PowerPoint, MS Visio, MS Word, OpenOffice
<b>Protocols</b>	File Transfer Protocol (FTP), <b>SOAP</b> , TCP/IP, HTTP / HTTPS

## Project history

<b>2018-12 – today</b>	<b>Java development for HZD (Hessisches Zentrum für Datenverarbeitung) in Wiesbaden, Germany</b>
<b>Role / Responsibility</b>	<b>Expert (IT, technical), Developer</b>
<b>Description of project:</b>	Maintenance, Improvement, Refactoring of Java-programs
<b>System environment:</b>	<b>Windows 7, Windows 10, Java, Mockito, JMockit, Virtual Box, Synergy</b>
<b>2018-01 – 2018-06</b>	<b>Developing TIBCO BusinessWorks processes for Techem in Eschborn near Frankfurt am Main, Germany</b>
<b>Role / Responsibility</b>	<b>Expert (IT, technical), Developer</b>
<b>Description of project:</b>	Software developing based upon EAI platform TIBCO Design and Developing of Software for Integration of applications based upon platform TIBCO Design and implementation of interfaces in this domain
<b>System environment:</b>	<b>Ubuntu (and Windows 7 / Citrix, Red Hat), TIBCO BusinessWorks 5.13 Designer, GIT, Citrus (Test), XSD, WSDL, SQL, ODBC</b>
<b>2013-10 – 2017-12</b>	<b>Developing TIBCO BusinessWorks processes for TIBCO Germany at customer DB Netz AG (railway company), Frankfurt am Main</b>
<b>Role / Responsibility</b>	<b>Expert (IT, technical), Developer</b>
<b>Description of project:</b>	<b>Dev. of processes Anlagenplanung Netz</b>
<b>System environment:</b>	<b>Windows, TIBCO ActiveMatrix (AMX) BusinessWorks / Designer, XML, XSLT, XPath, XSD, WSDL, Java, JEE (JNDI, JMS, JavaMail), SQL, DDL, ODBC, Scrum with Version One and Jira</b>
<b>2013-04 – 2013-08</b>	<b>TIBCO Support for ISS-Migration NTT DATA Germany, CustomerQVC Germany Inc. &amp; Co KG, Bochum, Germany</b>
<b>Role / Responsibility</b>	<b>Expert (IT, technical)</b>

<b>Description of project:</b>	<ul style="list-style-type: none"> <li>• Supporting defect analysis of existing TIBCO interfaces within QSystems based on existing documentation (to be provided by QVC)</li> <li>• Supporting necessary changes / defect resolution for the existing interfaces</li> <li>• Supporting TIBCO implementation of new CRs for the QSystems solution</li> </ul>
<b>System environment:</b>	<b>Windows 7, Linux, TIBCO BusinessWorks / Designer</b>

<b>2013-02 – 2013-04</b>	<b>Online Scoring Gateway NTT DATA Germany Customer QVC Germany Inc. &amp; Co KG, Bochum, Germany</b>
<b>Role / Responsibility</b>	<b>Expert (IT, technical)</b>
<b>Description of project:</b>	Development, Test and Cutover of Online-Scoring-Interface
<b>System environment:</b>	<b>Windows 7, Linux, TIBCO BusinessWorks / Designer; XML, XSLT, XSD, WSDL</b>

<b>2013-01 – 2013-02</b>	<b>Pilot for the purpose of introducing of TIBCO BusinessEvents DekaBank Deutsche Girozentrale Anstalt des öffentlichen Rechts , Frankfurt, Germany</b>
<b>Role / Responsibility</b>	<b>Expert (IT, technical)</b>
<b>Description of project:</b>	Familiarization with TIBCO BusinessEvents
<b>System environment:</b>	<b>AIX, BusinessEvents</b>

<b>2012-01 – 2012-12</b>	<b>Migration of programs written in Cobol for interfaces of the agency database to TIBCO BusinessWorks TUI Deutschland</b>
<b>Role / Responsibility</b>	<b>Expert (IT, technical)</b>
<b>Description of project:</b>	35 interfaces written in Cobol for distributing data of the travel agency database were migrated: - from Cobol to BusinessWorks XSLT - from DB2 to UDB - from MVS to Sun Solaris

<b>System environment:</b>	Migration <b>Sun Solaris; BusinessWorks, XML, XSLT, XPath, Cobol.</b>
<b>2007-03 -2007- 07</b>	<b>Migration of IBM MessageBroker MQSI 2.1 - WBIMB 6 TUI InfoTec for TUI Deutschland</b>
<b>Role / Responsibility</b>	<b>Project leader / developer</b>
<b>Projektbeschreibung:</b>	Migration of programs, test environment, production environment.
<b>Systemumgebung:</b>	<b>Windows XP, Sun Solaris I supported this environment until the end of 2012.</b>
<b>2006-05 – 2011-12</b>	<b>New production model TUI Deutschland</b>
<b>Role / Responsibility</b>	<b>Developer, integrator</b>
<b>Description of project:</b>	Essential application systems of TUI are replaced by standard software, requiring a lot of EAI interfaces.  Negotiating and design of interfaces with the external software provider, the departments of TUI and the other dependent companies. Realization and support of the developed interfaces, creation of a bridge TIBCO BusinessWorks - IBM WebSphere MQ.
<b>System environment:</b>	<b>Windows XP, Sun Solaris; BusinessWorks; Java JEE (JMS, JNDI, JavaMail, JAXP),, JMS, XML, XSLT, XPath. Development of a bridge from BusinessWorks to IBM WebSphere MQ over JMS at BusinessWorks side and AMI (Application Managing Interface) at MQ side offers the ability to use legacy services (C, C++, Java) remotely from BusinessWorks.</b>
<b>2005-10 – 2006-04</b>	<b>Destination Database TUI North Europe</b>
<b>Role / Responsibility</b>	<b>Integrator, developer</b>
<b>Description of project:</b>	Large international project for increasing synergies (common database for target areas, hotels; common purchasing),

<b>System environment:</b>	familiarization and development with BusinessWorks. <b>Sun Solaris, Windows XP; BusinessWorks; Tomcat; programming languages XML, XSLT, XPath.</b>
<b>2003-12 - 2005-10</b>	<b>Development of new dataflows in WebSphere MQ MessageBroker (MQSI, WBIMB)</b> <b>TUI InfoTec, Hannover</b>
<b>Rolle/Verantwortung</b>	<b>Low level designer, developer of interfaces</b>
<b>Projektbeschreibung:</b>	AR (accounts receivable) interface TUI UK - Airline and others.
<b>Systemumgebung:</b>	<b>Sun Solaris, MQSeries, MQSI Broker, programming language ESQ., XML</b>
<b>2003-08 – 2003-11</b>	<b>Relocation of a part of the EAI environment of TUI UK from London to Hannover</b> <b>TUI UK, London</b>
<b>Role / Responsibility</b>	<b>Change Manager, Customizer, developer</b>
<b>Description of project:</b>	IBM MQSeries (= WebSphere MQ) and MQSI (= WMB, WebSphere MessageBroker) were relocated from London to Hannover.  Planning and implementation of the migration. Development of some new interfaces in MQSI. Place of work: London.  After the project had finished, I supported this environment until end of 2012, together with Offshoring partner Sonata, India.
<b>System environment:</b>	<b>Sun Solaris, MQSeries, MQSI Broker, programming language ESQ., XML.</b>
<b>1997-11 – 2003-07</b>	<b>Introduction of the Java development environment and its support</b> <b>TUI InfoTec GmbH &amp; Co KG, Hannover</b>
<b>Role / Responsibility</b>	<b>Architect, expert (IT, technical)</b>
<b>Description of project:</b>	Introduction of the Java developing environment, interoperability between Java and C/C++.  Development of a generator written in C++ for Java wrapper classes

<b>System environment:</b>	<p>(fields, records, Services) in order to call legacy services written in C from Java programs.</p> <p>Extension of this generator in order to call new Services written in Java from C programs of the legacy environment (RPC), based upon MQSeries.</p> <p>Development of a protocol converter MVS CICS - Windows NT.</p> <p>Programming of procedures for the version control system Perforce (AutoIntegrate), which replaced PVCS.</p> <p><b>Windows NT; C, C++, Java, REXX; MQSeries as middleware.</b></p>
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<b>1993-01 – 1997-10</b>	<b>Migration of the C software development environment and its support</b>
<b>Role / Responsibility</b>	<b>TUI Deutschland GmbH, Hannover</b>
<b>Description of project:</b>	<b>Expert (IT, technical), project leader / manager</b>
<b>System environment:</b>	<p>Migration of all C programs from 16 bit to 32 bit, from OS/2 to Windows NT;</p> <p>creation of the C++ developing environment;</p> <p>editing the C/C++ guideline of the TUI.</p> <p>Leader of the migration project;</p> <p>codeveloper of the technical program library;</p> <p>support of the software developing environment.</p> <p><b>OS/2, Windows NT, C/C++, Sybase DB, VisualAge C++, PVCS.</b></p>

<b>1992-01 – 1993-12</b>	<b>Buildup, improvement of the C software developing environment</b>
<b>Role / Responsibility</b>	<b>TUI Software GmbH</b>
<b>Description of project:</b>	<b>Expert (IT, technical)</b>
<b>System environment:</b>	<p>Methods and tools of the C software developing environment, its development and maintenance</p> <p>TUI Software GmbH.</p> <p><b>OS/2, C (Microsoft C600 Compiler), YACC, versioning PVCS.</b></p>



**1991-05 – 1992-12**

**Conversion from upper case to mixed case and umlauts, laser printer, converting**  
**IBM EDUCS (Educational Services)**

**Role / Responsibility** Consultant (technisch), developer

**Description of project:** Conversion of 91 PL1 programs (mostly online) running under IMS from chain printer to laser printer, upper case to mixed case, extended character set, inserting of graphics, automatic wrapping by envelopes, data conversion.

Conception, realization, cutover.

**System environment:** **IBM MVS with hierarchiv database system and monitor IMS, programming language PL1.**

**1989-04 – 1991-04**

**Production support**  
**IBM GADL (German Application Developing Lab), Hannover**

**Role / Responsibility** Experte (IT, technisch), Entwickler / Programmierer

**Description of project:** Großes internationales Projekt (Hannover - Atlanta) zur Fertigungsunterstützung.

Beratung in Objektorientierung, Entwicklung (auch von Entwicklungstools).

**System environment:** **IBM VM, CMS, MVS; objectoriented programming language SEDL++, C.**

**1987-03 – 1989-03**

**Conversion of Fortran programs (research and development) at Volkswagen to IBM MVS**  
**Volkswagen AG, Forschung / Entwicklung, Wolfsburg, Germany**

**Role / Responsibility** Analyst (technical), developer, tester

**Description of project:** Many technical and scientific programs (e. g. for axle kinematics, simulation of air pollution) were migrated to IBM MVS, ISPF.

Development of a converter (written in PL1), development of edit macros supporting the conversion.

**System environment:** **IBM MVS, Fortran, PL1**

<b>1987-01 – 1987- 02</b>	<b>BHW (home loan bank), Hameln, Germany</b>
<b>Role / Responsibility</b>	<b>Consultant (technical)</b>
<b>Description of project:</b>	Partial project for data conversion (6-bit, 9-bit bytes on Unisys to 8-bit bytes).  Co-developer of the generator of Cobol programs for data conversion from copy members.
<b>System environment:</b>	<b>Unisys, IBM MVS, IMS, Cobol, PL1.</b>

<b>1984-12 – 1986-12</b>	<b>Conversion of parts of the IT of Daimler-Benz-AG from Siemens BS 2000 to IBM MVS</b>
	<b>Daimler-Benz AG, Esslingen, Bremen, Hamburg-Harburg.</b>
<b>Role / Responsibility</b>	<b>Consultant (technical), expert (IT, technical), developer</b>
<b>Description of project:</b>	Conversion of the Cobol programs, jobs, monitor from Siemens BS 2000 to IBM MVS.  Development of tools for the conversion, implementation of the conversion.
<b>System environment:</b>	<b>Siemens BS 2000, IBM MVS, Cobol, JES.</b>

<b>1984-10 – 1984-11</b>	<b>Conversion of IT of Milupa AG, Friedrichsdorf, Germany, to IBM MVS</b>
<b>Role / Responsibility</b>	<b>Consultant (technical)</b>
<b>Description of project:</b>	Conversion of all Cobol programs to IBM Cobol.  Conversion study; comparison and evaluation of the potential target systems IBM MVS and BS 2000.
<b>System environment:</b>	<b>BS 2000, MVS, Cobol.</b>

<b>1984-07 – 1984-09</b>	<b>Program system for optimization</b>
	<b>Bundesforschungsanstalt für Landwirtschaft, Braunschweig</b>
<b>Role / Responsibility</b>	<b>Developer</b>
<b>Description of project:</b>	Development of a program for linear und quadratic optimization.

<b>System environment:</b>	Completion of the program after author's suicide. <b>Siemens BS 2000, Fortran.</b>
<b>1983-01 – 1984-06</b>	<b>Error reporting application of Nixdorf Computer AG, München, Germany</b>
<b>Role / Responsibility</b>	<b>Developer</b>
<b>Description of project:</b>	Developing of the error reporting application. Programming.
<b>System environment:</b>	<b>NIDOS/VSE, Datacom DB, Cobol, IBM Host Assembler .</b>
<b>1981-03 – 1982-12</b>	<b>Ecosystems on lime rock Universität Göttingen</b>
<b>Role / Responsibility</b>	<b>Expert (IT, technical)</b>
<b>Description of project:</b>	Study of the metabolism in a beech grove ("Waldsterben").  Scientific assistant, evaluation of measured data, mathematical modelling, rendering of the data, statistics.
<b>System environment:</b>	<b>Unisys, CDC; programming languages Fortran, Cobol, SPSS.</b>