

IT-Profile Erdmute Seidler Dipl.-Inf.

Independant IT-Consultant

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Position

Throughout several years of working as technical project manager, system architect and system developer for internationally acting consulting companies, and as a freelancer, I have been involved in the successful design and implementation of national and international projects to develop enterprise business applications.

My application areas are focussed on design and implementation of n-tier architectures in J2EE / Java EE - environments. My mission in the projects comprises analytical, conceptual, and implementing functions within all phases of software development.

Important aspects in my work are closely coordination with the client, integration and communication in large teams as well as the ability to develop independently through continuous engagement with new technologies and subject areas, and finding solutions for complex problems and communicate them persuasively and timely.

Sense of purpose and result-orientation guide my practice, so that time-critical projects can be brought through a focus on the essentials to the customer successful conclusion.

last updated: 24/10/18

Education

Study of Computer Science, Technical University, Berlin
 Majors: Operating- und Communication Systems, Databases
 Minor: Business Economics
 Degree: Diploma in Computer Science, 1999

Study of Information and Documentation Science at Inst. f. wiss. Bibliothekswesen d. Humboldt Univ., Berlin
 Degree: Diploma in Information / Documentation (applied Science)

Languages

German native
 English business fluent
 French basic

Knowledge and Experiences

Operating Systems	SUN OS/Solaris, Linux, AIX, HP-UX, Windows
Development Platforms	IBM Rational Software Architect/Application Developer Eclipse, VisualAge
Databases	Oracle DB, DB2 MS SQL-Server 2000 SQL, JDBC, Relationales Datenbank Design
Modelling Tools	IBM Rational Software Modeler, Rational Rose, Jude Together
Programming	J2EE/Java EE C C++
Enterprise Application Integration (EAI)	Enterprise JavaBeans Technology (EJB 2.0 + 3.0) Portal Technology Servlets Web-Services RestFUL Web-Services Object Access Protocol (SOAP) OpenLDAP Corba Mobile Agents Technology
JEE Technologies/ Frameworks	Java Messaging Service (JMS) Java Connector Architecture (JCA) Java Database Connectivity (JDBC) Java Naming and Directory Interface (JNDI) Java Server Faces (JSF) Swing, JGoddies XML (Extensible Markup Language) XML Schema Language XSL (Extensible Stylesheet Language), XSLT (XSL Transformations) JAXB (Java Architecture for XML Binding) JAX-WS (Java API for XML - Web Services) JAX-RPC (Java API for XML-Based RPC) Java Persistence API (JPA) Java Native Interface (JNI) Apache Axis Apache CXF Apache commons libraries

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	Hibernate Hyades Spring Application Framework Spring OSGI Framework Spring-WS Apache Struts JBoss Seam Apache FOP Quartz JGoodies Framework IBM Aglets Http, TCP/IP
Middleware	IBM WebSphere Application Server BEA Weblogic Application Server IBM WebSphere MQ Server Spring dm Server JBoss Application Server Sun One Application Server Oracle Application Server SpringSource DM Server Apache Tomcat Jetty, JBoss Application Server, JBoss Microcontainer, JBoss jBPM E-Business Messaging, SonicMQ, IBM WebSphere MQ
Development Methodologies	V-Modell SEP (Systementwicklungsprozess) Test Driven Development, JUnit Extrem Programming Agile Methoden
OOA/OOD	Design Patterns Core J2EE Patterns MVC (Model View Controller) UML 1.x, 2.x Entity-Relationship-Modell (ER) Aris Toolset
Build Tools/Bug Tracking	Apache Ant Apache Maven CruiseControl Jira Mantis Bugzilla

last updated: 24/10/18

Projects	
07.18 – 09.18	<p>Consultant/Architect/Developer Kleinknecht GmbH Branch: Electronics</p> <p>End-of-Line Test Systems for Drive components</p> <p>Transmissions of Volkswagen AG are tested on fully automatic load test benches prior to delivery. The required transmission data are located on the data carrier of the workpiece carrier. The test runs are parameterized and their results will be analyzed. Automatic transmissions include electronic-hydraulic systems that processed information from the vehicle's internal sensors and engine to produce the required conditions. In order to ensure quality, test benches must be able to use external measures and internal transmission measurement values for the assessment. The aim of a test stand software is to unify projects test of transmissions, which differ in specific details. The current applications no longer meet the requirements and are not extensible. Therefore, a new Web application shall be designed for the office and a stand-alone application for the test benches in factories.</p> <p>Activities</p> <ul style="list-style-type: none"> • Analysis of the legacy applications and identification of the scenarios • Design of database models and creation of the data bases • Modelling of behavioral- and interaction overview diagrams based on the identified scenarios • Implementation of prototypical applications in Java Swing and Spring Boot for a selected Scenario <p>System environment/Technologies:</p> <ul style="list-style-type: none"> • Java Swing, Spring Boot, Spring MVC, Spring Date, Thymeleaf, Java 8, JPA Hibernate • MariaDB, Heidi SQL, Tomcat, NetBeans, UML, Visual Paradigm MariaDB, Heidi SQL, Tomcat, NetBeans, UML, Visual Paradigm

last updated: 24/10/18

01.18 – 06.18	<p>Consultant/Developer Computacenter AG Branch: IT Service Provider</p> <p>Dias</p> <p>The district government of Arnsberg, which is responsible for the processes for the reception, distribution and accommodation of the asylum seekers in NRW, has introduced the multi-user-enabled, Java-based Web application AVU asylum. The updated it process should map the administrative processes in organizational units such as central reception, nationwide distribution and decentralised accommodation in the municipalities.</p> <p>With the help of the new solution, employees can now efficiently access a central personnel database for the management of asylum seekers from locations across NRW.</p> <p>The high requirements for data protection were implemented through a complex security concept. The solution offers a media breaks integration of it-supported processes and processes.</p> <p>Further advantages lie in the higher quality and efficiency of the administrative procedures in the asylum applicant procedure and in the revision-proof processing and parallel use of the E-file.</p> <p>In addition, automated processes in forms and lists as well as higher security standards for it and data have been added.</p> <p>Activities</p> <ul style="list-style-type: none"> • Implementation of new and update of existing technical issues for the Modul 'Registrierung' throughout all layers (Client, Business logic, persistence) • Creation of Birt Reports • Improvement of Code quality • Test of implementation <p>System environment/Technologies:</p> <ul style="list-style-type: none"> • Java 8, JEE, JSF Primefaces, Spring, Birt, Soap WebServices, JPA Hibernate, JUnit • JBoss AS , Git, SourceTree, GitLabOracle Db, Eclipse, NetBeans, Docker
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last updated: 24/10/18

09.16 – 12.17	<p>Consultant/Entwickler Deutsche Bank Branch: financial service provider</p> <p>Electronic Know Your Customer (EKYC)</p> <p>Deutsche Bank has committed itself to complying with the provisions of the Basel Committee on Banking Supervision with regard to the due diligence obligations of the banks in determining the customer's identity. This results in reasonable diligence in examining new and existing customer relationships. This includes the obligation to verify the identity of the customer and other relevant parties involved when the business relationship is taken into account In addition, a comprehensive picture is to be created about the content and purpose of the customer relationship. In particular, the origin of the total assets and the origin of the assets play a role. These processes previously shown in paper, are being managed now by EKYC electronically in an enterprise application.</p> <p>Activities</p> <ul style="list-style-type: none"> • Implementation of technical processes in business logic of all layers (Client, Business logic, persistence) • Evaluation of appropriate technologies for selected scenarios • Improvement of Code quality • Test of implementation <p>System environment/Technologies:</p> <ul style="list-style-type: none"> • Java 8, JEE, JSF Primefaces, Spring, Soap WebServices, JPA Hibernate, JUnit • Tomcat , SVN, Git, Oracle Db, Eclipse
02.16 – 08.16	<p>Consultant/Developer/Architect Versicherungskammer Bayern Branch: Insurance</p> <p>Process integration OSPlus_neo</p> <p>OSPlus_neo the new web-based sales front end of financial informatics based on the OSPlus framework. With OSPlus_neo, the customer is provided with a platform-independent, cross-channel Frontend. The user interface is designed to be consistent across all access channels for customers and consultants. Financial informatics has also intensified the cooperation with various members of the federation and has launched the development of a OSPlus insurance frontend in the area of insurers.</p> <p>Activities:</p> <ul style="list-style-type: none"> • Frontend design and Implementation of functionality for a product group 'Einkommens-Schutz' • Implementation of task management • Test of implementation <p>System environment/Technologies:</p> <ul style="list-style-type: none"> • Java 7, JEE, Eba Framework, JSP, EJB, Soap WebServices, Hibernate, JUnit • IBM WebSphere Application Server, Tomcat, RTC, Ant, Oracle Db, Eclipse

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11.15 – 01.16	<p>Consultant/Developer/Architect, Finanz Informatik Solutions Plus Branch: financial service provider</p> <p>Konsumentenreditsystem</p> <p>The Finanz Informatik represents the IT service provider of the Sparkassen-Finanzgruppe . The OSPlus Portal is a web-based application framework and is focussed on the integration of professional business processes for the financial institutions It provides an architecture with basic technical functionalities which standardize the application development.</p> <p>Relevant persistence system in OSPlus portal applications is the Dynamic interface (DYNs) which contains the central resources of the savings banks, a given generation and implementation model and technical processing functionality .</p> <p>By shifting this functionality to the host side a platform and programming language - independent use of technical building blocks of OSPlus will be reached.</p> <p>Activities</p> <p>Implementation and test of following components:</p> <ul style="list-style-type: none">• Enhancement of the CHECK24-connection in order to maintain the necessary data for the institutions• De/encryption of passwords for accessing OSPlus of the Sparkasse• Implementation of multichannel jobs for informing the Internet subsidiaries about incoming events• Check for existence, upload, download and authorization of credit agreements• Validation of legitimations and their belonging documents• Integration of processes for the handling of internet credits <p>System environment/Technologies:</p> <ul style="list-style-type: none">• Java 8, JEE, CDI, EJB, WebServices Rest + Soap, Spring, Hibernate• Camunda BPM, Wildfly AS, Git, Maven, HSQL Db
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<p>05.15 – 10.15</p>	<p>Consultant/Developer/Architect Branch: Retail, Beeline Group</p> <p>BeeBop</p> <p>The System beeBOP implements the central component of goods control, to enable and support the comprehensive merchandise management functionalities. It guarantees smooth information and communication to suppliers, partners, customers and authorities as well as within beeline Group. It includes essential functionality, necessary for handling the specific processes of goods control</p> <p>Esspecially, to backup technical support of the core business, for all processes that have a direct impact to distribution and delivery a minimum availability of 99,0 % per month will be pursued. In case of failure of a single or several IT systems it must be possible to resume work as soon as possible. Particularly, because dealing with huge volumes of data, that result from the high amount of POS and the turning of articles (High Fashion Sortiment) the entire system must be considered under special performance issues. Furthermore behind the background of the strategy of geographical expansion it must be flexible and extensible.</p> <p>Activities:</p> <ul style="list-style-type: none"> • Analysis, clarification and planning of the requirements for the implementation of a module for Manual Allocation of Articles. • Implementation of technical use cases in all layers (Client, Businesslogic, Persistence) • Documentation of the results <p>System environment/Technologies:</p> <ul style="list-style-type: none"> • Java 8, JEE, CDI, EJB, JSF (Java Server Faces), EclipseLink, Activiti Workflow-Management • Tomcat AS, Oracle DB, SVN Maven

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<p>12.14 – 02.15</p>	<p>Consultant/Architect Section: sports betting, Booxware Software GmbH</p> <p>ebet represents an enterprise application for bookies and international betting companies. The application is subject to an architecture-refactoring process.</p> <p>Activities:</p> <ul style="list-style-type: none"> • Analysis of the systems weak points • Static and dynamic code analysis • Tracking and analysis of data flow • Evaluation of appropriate technologies for the scenario • Documentation of the results <p>System environment/Technologies:</p> <ul style="list-style-type: none"> • Java 6 – 8, JEE, EJB 2+3, Hibernate, Swing, XML, JAX-WS, JAXB, Spring API • Jboss AS, Jboss Messaging, MySQL, Vagrant VM, Oracle Virtual Box
<p>09.14 - 11.14</p>	<p>Consultant/Architect/Developer Section: Construction Sector, Joinex Bauelemente GmbH</p> <p>Application for the administration of construction projects</p> <p>This application should be used as commercial planning and control system To prevent errors in the planning and execution and thus minimize consequential costs.</p> <p>All activities to do before, during and after a building or renovation project are related to respective business partners and cost items.</p> <p>This allows an overview about:</p> <ul style="list-style-type: none"> • expected costs • the current billing status • cost under- or overrun • additional costs through addenda <p>Activities:</p> <ul style="list-style-type: none"> • Requirement analysis and definition of use cases • Implementation of the application <p>System environment/Technologies:</p> <ul style="list-style-type: none"> • Java EE, EJB 3,JPA/Hibernate, Web Services, Jasper Reports • MySQL • Eclipse 4 RCP, Eclipse IDE, SVN (Subversion), Standard Widget Toolkit (SWT), Maven, UML 2

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07.14 – 08.14	<p>Consultant/Architect/Developer Section: Public Administration, Bundesagentur für Arbeit</p> <p>Integration Legacy-Application An existing JSF application shall be integrated into a new portal application, while retaining its full functionality.</p> <p>Activities:</p> <ul style="list-style-type: none"> • Analysis of the web application regarding its : components, interfaces, used technologies, dependencies • Evaluation of appropriate component technologies for the integration into an Oracle WebCenter Portal • Estimation of the adjustments for the web application for each component <p>System environment/Technologies:</p> <ul style="list-style-type: none"> • Java EE, Java Server Faces (JSF) • Oracle WebCenter Portal 11g, JDeveloper
04.14 - 05.14	<p>Consultant/Architect/Developer Section: Insurance, Generali Deutschland Informatik Services</p> <p>myEMI Software metrics are an important way for assessment of development phases, applied technologies, and quality monitoring of software systems. Based on quantifiable metrics process managers identify processes, which contribute to success or risk. Process managers obtain large amount of information from different systems, and define the current status of a project from them in order to estimate the costs.</p> <p>EMI (Enterprise Measurement Infrastructure) is an architectural template including base components for the calculation of metrics from measured values for these purposes. MyEMI is a prototypical implementation of the EMI-Frameworks, which has been developed on this base from the Forschungsgruppe Software-Konstruktion of RWTH.</p> <p>Activities:</p> <ul style="list-style-type: none"> • Continuation of a feasibility study for the use of EMI • Analysis of EMIs architecture and the frameworks deficiencies • Enhancement of the prototype in order to estimate the development effort <p>System environment/Technologies:</p> <ul style="list-style-type: none"> • Java EE, Spring MVC, RestFUL Web-Services, JMS • mySQL, Oracle Glassfish Application Server, JPA, EclipseLink • Eclipse IDE, GIT

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08.13 - 03.14	<p>Consultant/Developer Section: Energy business, Vattenfall Energy Trading</p> <p>PRIMA</p> <p>The business area Asset Optimisation and Trading combines all trading activities of Vattenfall Group.</p> <p>The PRIMA application is the central interface between the Energy Trading and Risk Management Platform and dem Market Data Management System. PRIMA produces statistical analysis for building time series over commodity and weather data.</p> <p>The business logic for the validation of prices and the calculation of, e.g. curved data, is the input for model building of the traders.</p> <p>The application covers technical and functional enhancements to improve stability and reduce maintenance effort of operational processes in compliance with the Data Governance Process.</p> <p>Activities:</p> <ul style="list-style-type: none"> • Analysis of the user stories in order to define business cases • Implementation of business logic according to the requirements • Presentation of results <p>System environment/Technologies:</p> <ul style="list-style-type: none"> • Java EE, Vaadin Toolkit, Spring API • Oracle WebLogic Server, Oracle DB • Eclipse IDE, SVN (Subversion), Jenkins, Junit
06.13 - 07.13	<p>Consultant/Developer Section: Finance and Assurance, KfW</p> <p>Web project</p> <p>Web presentation of the KfW.</p> <p>Activities:</p> <ul style="list-style-type: none"> • Requirement analysis in order to define Use-Cases • Server-side implementation of business logic <p>System environment/Technologies:</p> <ul style="list-style-type: none"> • Java EE, Spring MVC, Spring Security, RestFUL Web-Services • Tomcat • Eclipse IDE, SVN (Subversion), Jenkins, Junit

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01.12 - 06.13	<p>Consultant/Developer Section: Public Administration, Kassenärztliche Vereinigung Niedersachsen</p> <p>Quirinus Master data is an important background for performing business processes. Bases on master data automated processes may be triggered, e. g. Accounting, as well as web-bases value-added services for KVN-members.</p> <p>Quirinus is a user-friendly, performant Enterprise Application for collection, mapping and processing of data base persistent information, in order to optimize the entire business processing.</p> <p>Activities:</p> <ul style="list-style-type: none"> • Requirement analysis in order to define Use-Cases • Implementation of business logic throughout all layers (Client, business logic, persistence) <p>System environment/Technologies:</p> <ul style="list-style-type: none"> • Java EE, Struts2, EclipseLink, jQuery, Ajax, Databases, Web Services • Glassfish Application Server, Oracle DB, Spring API • Eclipse IDE, SVN (Subversion), Jenkins, Junit, UML
07.11 - 12.11	<p>Consultant/Developer Section: Public Administration, Deutsche Rentenversicherung Bund</p> <p>KLInet Stationsdienst The rehab hospitals of DRV Bund use the Klinikinformationssystem KLInet in order to electronically facilitate their ward duties.</p> <p>The Stationsdienst, as a part of KLInet, realizes digital support of patient-oriented operations, in order to provide relevant information (diagnosis, reports, medications, therapy results) from distributed systems to the clinical staff.</p> <p>This application is a modular, service-oriented architecture based on Eclipse RCP OSGI-Bundles.</p> <p>Activities:</p> <ul style="list-style-type: none"> • Analysis of the system for the purpose of modular enhancements • Conception and implementation of businesslogic throughout all layers (Client, businesslogic, persistence) • Enhancement of the functionality for the presentation of clinical evidences complying with the requirements of the HL7 Standard <p>System environment/Technologies:</p> <ul style="list-style-type: none"> • Java EE, EJB 3, JPA/Hibernate, Web Services, BIRT Reporting System, Health Level 7 (HL7 V. 2.5) • JBoss Application Server, Oracle DB • OSGI Plugins, Eclipse RCP, Eclipse IDE, SVN (Subversion), Standard Widget Toolkit (SWT), Ant

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02.11 - 07.11

Consultant/Developer**Section: Telecommunications T-Systems Multimedia Solutions****De-Mail**

As a part of the innovation program "Vernetzte und transparente Verwaltung" of the federal government the BMI implements a legally compliant digital communication solution, called "Bürgerportale", in cooperation with German economy, administration and organisations.

The focus of De-Mail is to simplify the exchange of electronic messages and to create a communications infrastructure for citizens, enterprises and administration based on fundamental security issues for the exchange.

Legal base for the accreditation as a De-Mail-Provider is the "Gesetz zur Regelung von De-Mail-Diensten und zur Änderung weiterer Vorschriften", that has passed the Bundestag on February 24th, 2011.

Objective of the project is the placing of a De-Mail-Infrastructure for any De-Mail-provider (DMDA), that complies with the technical requirements of BSI.

Due to the severe requirements concerning security, functionality, Interoperability and privacy protection, De-Mail-provider have to provide secured registration procedures and connections, as well as crypted transportation between each provider, for authoritative transmission and reception of De-Mails.

De-Mail-Provider access the De-Mail-Infrastructure via an interface.

Communication between De-Mail-Systems and different DMDAs happens with SMTP and DNS protocols in connection with special constraints for DNS-entries and Email messages.

Activities:

- Creation of database concepts for Oracle concerning partitioning and tablespace alignment
- Check of code quality, failure analysis and correction
- Support in build- and deployment management
- Creation and installation of X.509 Transport- and Client-Certifikats for the application involved
- Coordination of integration tests within project with T-Deutschland

System environment/Technologies:

- Java EE, EJB, Webservices, Cryptografie, Spring API
- Glassfish Application Server, [Java Apache Mail Enterprise Server \(JAMES\)](#), Exim Mailserver, Oracle DB
- Enterprise Architect, SoapUI, Cast Analyse-Tool
- Linux, OpenSSL, S/MIME, SMTP, Eclipse IDE, SVN (Subversion), Maven, Jenkins

last updated: 24/10/18

10.10 – 12.10**Consultant/Developer****Sector: Logistics, Lufthansa Systems****Message-Broker-Project BPE**

The Message-Broker-System (BPE) represents the central integrations platform for connecting the internal systems of Hamburg Port Authority (HPA) with external systems of their partners.

The interface to the present and future systems shall communicate service-oriented with external systems via ESB (Enterprise Service Bus) using Webservices or FTP-variants

Communication with external partner systems (EVUs, companies, Operators etc.), as well as the message interchange with the BPE goes via Webservices (SOAP over HTTPS).

The components consist of a service oriented architecture (SOA), enabling various internal and external applications or interfaces to communicate and exchange data in loosely coupled system.

The Enterprise Service Bus (ESB) comprises a businessinfrastructure for the integration of different components, and functions with functionality to receive or send messages, to transform data or for the routing of messages.

Activities:

- Translation of technical requirements to message-workflows using Progress Sonic ESB
- Connection of different technological systems to the message-broker-system
- Performance of modul- and integrationstests
- Documentation of message-Workflows
- Tuning and Bugfixing of message-workflows

System environment/Technologies:

- Java EE, XML, XSLT, XPATH, XSD
- Sonic ESB, Sonic MQ, Service Oriented Architecture (SOA), Webservices
- Enterprise Architect, SoapUI
- Eclipse IDE, SVN (Subversion)

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03.10 – 09.10

Consultant**Sector: Automotive, T-Systems, Daimler AG****Services for Application Maintenance**

MRS (Manufacturing Reporting System) represents the standard-system of Mercedes-Benz Cars for reporting, controlling and online-visualization of vehicle data related to the production process.

The focus of MRS aims at customer order processes of MB plants, from the delivery to distribution of vehicles incl. logistics, as well as product quality management.

For the system MRS an outsourcing of supports shall be realized.

Activities:

- Analysis of process flows in the system
- Documentation and reviews of the knowledge acquired
- Workshops and knowledge - transfer to the external service partners
Identification of relevant szenarios for service problems
- Conception of approaches and Best Practices for the standardized solution of incidents and requests towards the entire life cycle

System environment/Technologies:

- Java EE , EJB, Java Server Faces (JSF)
- Service Oriented Architecture (SOA), IBM WebSphere Application Server, IBM DB2
- IBM WebSphere MQ,,IBM Rational Application Developer, SVN (Subversion)

09.09 – 12.09

Consultant/Architect/Developer**Sector: Telecommunications, T-Systems****Configuration & Calculation Platform (CCP)**

The strategic realignment of T-Systems business requires changing orders and defining new business areas.

The Java Enterprise Application CCP is classified as a strategic project within the structure of the T-system target architecture (wholesale products).

All components are integrated into the service-oriented architecture of T-Systems. Through the use of CCP in addition to a valid, specific and complete configuration also will be determined the correct and full consideration for the calculation of all relevant price components.

CCP represents a homogeneous solution that supports all evaluated E2E-standardized products and customer solutions for both the configuration and the calculation. With the product independent deployment of CCP still not been well-known products can be absorbed easily and quickly, thus ensuring the future security.

Activities:

- Specification of the technical design
- Conceptual planning of the Use Cases
- Implementation of business logic

System environment/Technologies:

- Java EE 5, EJB 3.0, Message Driven Beans, JMS, JAXB, Hibernate
Java Server Faces (JSF), Spring API
- Service Oriented Architecture (SOA), JBoss Application Server, Oracle DB
- JUnit, Eclipse, SVN (Subversion)

05.09 – 08.09**Consultant/Architect/Developer****Sector: Research and Development, Freie Universität Berlin, Fachbereich Mathematik****PhaseProfiler Framework (PProf)**

The phase profiler framework will enable, within a Java Enterprise application, the ease of use and dissemination of developed algorithms in the community.

Applications of algorithms are molecular dynamics, time series analysis (financial, climate ...) and proteomics.

In particular, emphasis on efficiency in the processing of data volumes in the Tera-area is placed.

The algorithms should be run on any combination of platform and operating system. Necessary conversions of the original data format for the algorithms will be transformed by the framework.

Furthermore, the framework should offer the opportunity to run several largely independent and modular applications in parallel, in the same virtual machine, and update it throughout the lifecycle of the application.

Activities:

- Analysis of the existing infrastructure and choice of an appropriate technology
- Design an architecture for use on the SpringSource dm Server
- Feasibility and performance analysis with respect to the use of OSGI technology in this field
- Consultation on the draft of a suitable software architecture for structuring algorithms
- Design and implementation of a Java Enterprise prototypes for a selected algorithm

System environment/Technologies:

- Java EE
 - SpringSource dm Server,
 - Spring MVC, Spring Framework, Spring-Web Services, Spring OSGI, div. Apache APIs
 - UML2, JUnit, Maven, Eclipse, SVN (Subversion)
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10.08 – 01.09**Architect/ Developer****Sector: Logistik, DHL****PACKSTATION**

PACKSTATION is the machine based solution of DPWN for pickup and delivery of packages for consumers and businesses of DHL. The packing stations are usually set up in locations with high customer traffic, such as railway stations, service stations and pedestrian areas. The customer will be forwarded to the central server. The PACKSTATION server manages the registered user, delivery and service personnel, registered deliveries and exits at the machine, and forms the interface to downstream systems of Deutsche Post.

The control of the packing stations, the attitude of customer-related information and also the general support service functions such as email, SMS, VoIP, etc. are done on a centralized infrastructure, which runs in addition in a dedicated server environment within a highly available network, that must ensure gateway services to external service providers.

The software architecture is a service-oriented architecture (SOA).

In the BEA WebLogic Server, both all the business logic as well as their presentation layer is implemented.

The asynchronous message transfer to BEA Weblogic and PACKSTATION is implemented via the JMS-based message-oriented middleware SonicMQ.

The data request is technically realized by means of message Facades and WebServices.

Activities:

- Porting the architecture to newer technologies (EJB 2.0 ==> EJB 3.0)
- Standardization of SOA for performance, code redundancy, flexibility and maintainability
- Production of components based on XML message schema
- Renovation and expansion of the SonicMQ JMS interface
Integration of the components in an EJB environment
- Analysis and logging of machine interface
- Implementation of a timerbasierten machine simulator to determine the functional and nonfunctional quality attributes of the system

System environment/Technologies:

- Java EE 5, EJB 2.0 + 3.0, Message Driven Beans, JMS, JAXB, Spring Application Framework, Quartz, Spring API
 - Service Oriented Architecture (SOA), Webservices, WSDL
 - BEA Weblogic, SonicMQ 6.1, Oracle DB
 - JUnit, Maven, Eclipse, SVN (Subversion)
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12.07 – 09.08**Consultant/Developer****Sector: Automotive, Volkswagen AG****PRECON (Produkt Entwicklung Optimierung Controlling)**

Precon represents a rich client application of Volkswagen AG to ensure a consistent collection of innovative ideas in a common pool of data that supports the sharing of responsibility across boundaries.

In addition to supporting product conventions applying for general meetings the application shall be as well applied for the collection of measures of cost, weight and CO2 savings.

Aim of the project is the integration and expansion of existing systems in a 3-layer J2EE architecture.

Through the re-implementation of existing solutions into a new technology, performance, usability, and security will be improved. The creation of a unified solution contributes to exploit synergies and avoids the formation of many scattered individual solutions.

Activities:

- Implementation of software components in all tiers (client, business logic, persistence)
- Integration and enhancement of existing systems

System environment/Technologies:

- Java EE
 - Swing, Presentation Model, Jgoodies, Jasper reports
 - Hibernate 3.X, Spring Application Framework
 - Oracle DB, IBM WebSphere Application Server 6.0
 - JUnit, Maven, Eclipse RCP, OSGI, CVS (Concurrent Versions System)
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09.07 – 11.07**Architect/ techn. project manager'**
Sector: Automotive, Volkswagen AG**Fleet Ordering – Rent A Car (FO-RAC)**

The current process of coordination between Volkswagen AG, car rental companies and dealers is very time consuming and error prone, since it is not universally supported by any system and not specifically tailored to the needs.

The technological prototype FO-RAC, as a stand-alone Java web application, will now realize an order process optimized for large volumes of contract on a central system.

The aim is to increase use of data quality, to faster improve communication between the parties and a voting processes as well as supporting the existing Fleet Ordering application -only merchants- with a new module Fleet Ordering - Rent a Car for car rental companies and their dealers.

Activities:

- Techn. Project management
- Conceptual design of the software architecture
- Implementation of business logic auf based on a workflow

System environment/Technologies:

- Java EE 5
 - Apache Tomcat 6.x, JBoss Application Server 1.2
 - JBoss Seam 2.0, JBoss Microcontainer, JBoss jBPM
 - Java Server Faces (JSF), Facelets
 - EJB 3.0 ,Hibernate 3.0, Java Persistence API (JPA)
 - MS SQL-Server 2000
 - Junit, Eclipse, SVN (Subversion), UML2, Jude
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03.07 – 08.07**Consultant/ Developer****Sector: Automotive, Volkswagen AG****Redesign WAUPlus**

The modular standard software WAUplus provides support in the areas of occupational accident handling, waste management, transport of dangerous goods, hazardous materials management and occupational safety.

There are more than 100 installations of WAUplus nationwide with a total of more than 1,000 users. The spectrum ranges from a licensed user to the company's license with about 500 users. The software has very different requirements, for users of many small companies, and those that come from groups.

The aim of this project is to complete the development of a product, which corresponds, in terms of technical functionality, to the new requirements and different, rapidly changing business structures of the customers' demands.

Activities:

- Implementation of businesslogic based on an workflow:
- Generation of passwords and authorization
- Assignment and management of user rights
- Licensing and administration
- Archiving and rearchivierung of accident data
- Transformation of datenbase schemas and migration of data

System environment/Technologies:

- Java J2EE, Spring Application Framework
 - XML, XSLT, Message-Digest Algorithm 5 (MD5)
 - Swing
 - Oracle DB, Apache Derby, SQL
 - Tomcat WebServer
 - UML 2, Together, Eclipse
 - CVS (Concurrent Versions System)
-

last updated: 24/10/18

10.06 - 02.07

Consultant

Sector: Automotive, Volkswagen AG

Konzernweites Problemmanagement (KPM)

KPM is a system platform prepared for the Volkswagen Group, which supports the fault-/problem solving and tracking across the different areas and brands. The aim is to provide conditions for the consistent issue tracking and search across the entire product life cycle of vehicles.

Group-wide problem management is the basis for:

- consistent elimination process of faults from project inception to EOP
- return of problems in the project's initial phase
- comprehensive knowledge transfer
- preventive management and problem solving
- thorough monitoring of claims.

Activities:

- Verification and documentation of the authorization and administration processes along the processing cycle of a problem for the flexible implementation of expansion and change requests
- Analysis of the interaction and communication between the currently existing workflow components of the CPM system based on the data model and the implementation
- Comparing the analytical results with the real needs of the departments using the process model

System environment/Technologies:

- Java J2EE, DB2, UML 2, Jude, Eclipse, CVS (Concurrent Versions System)
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04.06 – 08.06**Consultant/techn. Project Manager****Sector: Public administration, Deutsche Rentenversicherung Bund****Grundsicherungs-Datenabgleichsverordnung**

For data exchange between the central office allowances for old age pension scheme assets and the German federal government a web application is being planned, which shall replace the old manual process, and bring the first concrete experience with the automated data exchange.

The J2EE application is based on asynchronous messaging using JMS (MQ) on IBM WebSphere Application Server.

Activities:

- Performance of interviews und Workshops
- Architectural design in UML 2
- Selecting the appropriate tools and technologies in accordance with the requirements
- Defining and planing the timing-line and technical approach in a project, according to V-model
- Implementation of a prototypical web-application
- Coaching of the developers
- Documentation and presentation of the results

System environment/Technologies:

- Java J2EE: Enterprise JavaBeans Technology (EJB), Java Messaging Service (JMS), Java Connector Architecture (JCA), IBM WebSphere Timer Service
 - DB2
 - IBM WebSphere Application Server 6.0, IBM WebSphere MQ, IBM Rational Application Developer
 - V-Modell UML 2, Jude, Eclipse, CVS (Concurrent Versions System)
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01.06 – 03.06

Architect/Consultant/Developer**Sector: Automotive, Volkswagen AG****Umweltinformationssystem (UIS)**

Environmental indicators include the essential material and energy flows, and thus indicate the environmental pollution in the areas of energy, water, emissions and waste of a location. They are assessed annually with the goal of transparent reporting for internal and external communications, and support the pursuit of environmental objectives.

The Environmental Information System UIS is the figure or support of all environmental systems and processes within the Volkswagen Group.

Activities:

- Design of a 3-tier architecture for processing and communication of data between the database and message queue, running on IBM WebSphere Application Server 6.0
- Design of the techn. architecture using UML 2
- Implementation of an EJB-based prototype applying Java Connector Architecture (JCA)
- Coaching and support of the junior developers
- Documentation and presentation of the results

System environment/Technologies:

- Java J2EE: Enterprise JavaBeans Technology (EJB), Java Messaging Service (JMS), Java Connector Architecture (JCA)
 - Oracle DB
 - IBM WebSphere MQ, IBM WebSphere Application Server 6.0, IBM Rational Application Developer 6.x
 - UML 2, Rational Software Architect, SVN (Subversion)
-

10.05 – 12.05

Technical Project Manager/Consultant/Architect/Developer**Sector: Automotive, Volkswagen AG****Datenbank Originalzubehör Entwicklung****Management of trials and tests of original equipment parts that are used as optional equipment or for individual productions of special vehicles of the Volkswagen Group.****Activities:**

- Analysis of the incorrect system
- Planning practices for troubleshooting in conjunction with the Department of VW
- Successful troubleshooting and re-engineering of the application
- Quality analysis

System environment/Technologies:

- Java J2EE: Enterprise JavaBeans Technology (EJB), Swing, Spring Application Framework
 - Web Services, Simple Object Access Protocol (SOAP)
 - UML 2, Rational Software Architect, SVN (Subversion)
 - Oracle DB, Oracle Application Server, Sun/Solaris
-

01.04 – 07.05

Consultant/Architect/Developer**Sector: Automotive, Volkswagen AG****User Management System (B2B-UMS)**

The User Management System manages and delivers informations about persons and their roles and rights to access resources in the company.

The B2B platform supports the world-wide business processes of VW, esp. for supplier processes (see: Project Electronic Supplier Link).

Resulting requirements for the User Management are:

- Management of internal and external user
- Central and local organization and administration of the User Management
- Implementation of complex registration processes
- Consideration of special authorization concepts for the given application system environment

Activities:

- Definition of the project targets in conjunction with the customer
- Contribution to conceptual design and implementation of components of the User Management System
- Implementation of complex registration processes in consideration of special access restrictions of involved applications

System environment/Technologies:

- Java J2EE: Hibernate Framework, JUnit Framework
 - Web Services, Simple Object Access Protocol (SOAP), Extensible Markup Language(XML), XSLT
 - Tomcat, Jetty, LDAP, IBM WebSphere Application Server 5.x
 - Oracle DB
 - Eclipse, CVS (Concurrent Versions System), UML 2, Poseidon
-

03.01 – 12.03**Consultant/Architect/Developer****Sector: Automotive, Volkswagen AG****Electronic Supplier Link (ESL)**

Enterprise application as a part of the B2B Platform for the global processing of business transactions with the suppliers of Volkswagen AG, currently amounting to a budget of more than 50 billion Euro Euro p.a.

Activities:

- Definition of the architectural components and selection of appropriate technologies
- Definition of functionality in conjunction with the customer
- Reengineering and implementation of the application according to the requirements of VW
- Customizing/refactoring in order to optimize the components of the platform applying Design Patterns
- Implementation of additional functionality

System environment/Technologies:

- Java J2EE: [Enterprise Java Beans](#) (EJB), Servlets, Struts Framework, Formatting Object [Processor](#) (FOP), JUnit Framework
 - Web Services, Simple Object Access Protocol (SOAP), Extensible Markup Language(XML), XSLT, UML 2
 - IBM WebSphere Application Server 4.x + 5.x, JBoss Application Server
 - VisualAge, Eclipse, CVS (Concurrent Versions System), Oracle DB
-

01.01 – 03.01**Techn. Project Manager, Architect/Developer****Sector: Research and Development, Fraunhofer ISST****Mebro**

Object-oriented Framework for metadata-based Web-Information Systems

Activities:

- Development of a framework for metadata based Web-Information Systems, using knowledge based methods and Techniques of Semantic Web

System environment/Technologies:

- Java J2EE: Java Server Pages(JSP), Servlets
 - Extensible Markup Language(XML), IBM WebSphere Application Server 3.x
 - Oracle DB
 - UML, Rational Rose, VisualAge, CVS (Concurrent Versions System)
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last updated: 24/10/18

10.99 – 12.00

Vize Project Manager, Architect/Developer

Sector: New Economy, Fraunhofer ISST, Berlin

TechnologyMall

Designed and managed development of web site and e-business platform providing access to world-wide technology. Developed unique functional search system.

Activities:

- Communication and negotiation with the US-American customers
- Coordination and guidance of the developer team
- Requirement analysis and design of an n-tier architecture, applying the Model-View-Controller Pattern
- Definition of an independent XML-based data model as an interface between the tiers
- Presentation of TechnologyMall at Hannovermesse 2000

System environment/Technologies:

- Java J2EE: Java Server Pages(JSP), Servlets
 - Extensible Markup Language(XML)
 - IBM WebSphere Application Server 3.x
 - Oracle DB
 - UML, Rational Rose, Together
 - VisualAge, CVS (Concurrent Versions System)
-

07.99 – 09.99

Consultant/Architect/Developer

Sector: Research and Development, Fraunhofer ISST

Mobile Computing

Information systems for mobile devices

Activities:

- Feasibility study for the application of WML (Wireless Markup Language) within the given context
- Prototypical WML - based implementation of an information portal

System environment/Technologies:

- Java, WAP (Wireless Application Protocol), WML
 - UM1.x, Rational Rose, Together, CVS (Concurrent Versions System)
-

last updated: 24/10/18

05.99 – 07.99**Consultant/Architect****Sector: Banking Industry, Bausparkasse Schwäbisch-Hall****BSH/B30**

Client/Server System for the Management of Saving Contracts

Activities:

- Definition of a CORBA-Interface for communication with the mainframe
- Implementation of client methods in Java and server methods in C++

System environment/Technologies:

- C++, Java
 - Corba, AIX, BEA Object Transaction Manager M3, IBM MQSeries
 - UML1.x, Rational Rose, Together, CVS (Concurrent Versions System)
-

04.99 – 06.99**Consultant****Sector: Public administration, Aktion Mensch****Aktion Mensch**

Quality Assurance and Quality Management

Activities:

- Conception and development of test cases for the application handling business processes of Aktion Mensch
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10.98 – 03.99**Consultant/Architect****Sector: Research and Development, EANTC****EANTC Test Procedures**

Project at the European Advanced Networking Test Center (EANTC)

Activities:

- Development and application of high-speed networking testing and measurement procedures for ATM (Asynchronous Transfer Mode) and Fast Ethernet devices

System environment/Technologies:

- C, Cisco Testtools
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04.98 – 09.98**Consultant/Architect/ Developer****Sector: Aerospace Industry, Eurocontrol Experimental Center (European Organization for the Safety of Air Navigation), Bretigny-sur-Orge, France****Software Agents for the Update of On-Board Weather Databases****Activities:**

- Investigation of potential application fields for software agents in the realm of air traffic management
- Object-oriented analysis and design of an application for the supply and communication of meteorological data by means of mobile software agents
- Implementation of a Java-Prototype

System environment/Technologies:

- C, Java, ATN (Aeronautical Telecommunications Network), XTI (OSI-Transport-Specification), IBM Aglets Software Development Kit
 - UML1.x, Rational Rose, CVS (Concurrent Versions System)
-

10.97 – 03.98**Consultant/Architect/Developer****Sector: Aerospace Industry, Eurocontrol Experimental Center (European Organization for the Safety of Air Navigation), Bretigny-sur-Orge, France****Java-On_ATN (Aeronautical Telecommunications Network)****Activities:**

- Object-oriented analysis and design of a digital air-ground link to communicate data between ground stations and aircrafts
- Implementation of a system-independent prototype for the dynamic download of software applications, based on XTI (OSI-Transport-Specification)

System environment/Technologies:

- C, Java, ATN (Aeronautical Telecommunications Network), XTI (OSI-Transport-Specification), HP-UX
 - UML1.x, Rational Rose, CVS (Concurrent Versions System)
-

04.97 – 09.97**Developer/Architect****Sector: Telecommunications, Technical University, Berlin****ISDN-Projekt****Activities:**

- Reimplementation of a video-codec based on ITU-T standards H-263+ (Video Compression for low Bitrate Communication)
- Implementation of annex Q (Reduced-Resolution Update Mode) in order to increase the picture rate, when decoding highly active scenes
- Validation of the functionality

System environment/Technologies:

- C, Sun/Solaris
-

last updated: 24/10/18

04.97 – 09.97

Developer/Architect

Sector: Research and Development, Technical University, Berlin

Network Management-Project, Technical University, Berlin

Activities:

- Design of an application for the management of network nodes based on OSI Network Management Specification
- Implementation of a subagent for retrieval and registration of network-nodes applying SNMP-DPI functionality

System environment/Technologies:

- C, SMNP, Sun/Solaris
-

04.96 – 07.96

Developer/Architect

Sector: Research and Development, Technical University, Berlin, in cooperation with Fraunhofer ISST on behalf of IBM

Framework for Reverse Engineering Tools

Activities:

- Object-oriented analysis and design of a prototypical reengineering-application
- Implementation of a Java prototype

System environment/Technologies:

- Java (JDK 1.0)
UML1.x, Rational Rose