

Dr. Z.W. Hendrikse

Personal

Name: Zeger Willem Hendrikse
Date of birth: 31-12-1967
Place of birth: Bergen, Netherlands
Home address: Amsterdam, Netherlands
Education: Solid state physics (**Ph.D.**), Theoretical physics (**M.Sc.**)
Marital status: Single
Nationality: Dutch
Languages: Dutch, English and German (passively)
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IT-Essence BV

IT-Essence is the name of my company from which I offer my services as

- IT consultant banking & finance (trading, pension funds)
- Application/solution architect
- Certified Scrum Master / Agile coach.
- Technical team lead & senior Java/JEE developer

Summary of qualifications

I am focused and driven professional with twenty years of experience in professional software development. In addition, I have a solid understanding of various business domains, such as pension funds and the trading of equities, derivatives, commodities and the Forex market. I endorse a hands-on mentality and remain keen on continuously delivering business value. Using the principles of domain driven design I translate this to maintainable software architectures and implementations. I prefer to be part of a team, but can be equally productive when working independently. I seize the opportunity to assist colleagues whenever possible and am actively involved in conveying knowledge and skills, among others by maintaining a [technology weblog](#) on my Linux server at home.

Achievements

ABN-AMRO Incubator:

- For [ABN-AMRO pension services](#) I introduced a new state-of-the-art event-driven application architecture.
- At [ABN-AMRO incubator](#) I became responsible for the quality and architecture of web application development, resulting in a shorter time-to-market and higher maintainability of the products.

ING:

- I designed an ING securities domain model and wrote an accompanying software architecture document.
- I promoted direct communication between the business (*i.e.* the product manager) and development teams.
- My team finished the deliverables that were under my supervision within budget and on time.

Fortis:

- I introduced test-driven development as well as continuous integration for various projects.
- I wrote extensive documentation on FX options, thereby improving understanding of the business domain.
- I wrote software architecture documents, designed a domain model and managed regular feedback to both the architecture board and the team that delivered generic portal components.

Amis:

- Realization of the Amis technology corner / weblog: <http://technology.amis.nl/blog/>.

Technical summary

Branches: Consultancy / Banking & Finance / Pension funds / Government / Academia
Languages: Java, C++, C, Fortran.
Protocols: FIX, HTTP, TCP/IP, SSL, SOAP, REST.
Process: Scrum (certified scrum master), XP (Test Driven Development), RUP.
Databases: Oracle, PostgreSQL, MySQL, HSQL DB, DB2.
Appl. servers: Apache Tomcat WebSphere (Application and Portal Server), Jetty, JBoss.
Platforms: Unix/Linux server + desktop, Beowulf clusters, Windows XP/7.
Frameworks: QuickFix/J, Spring 3, Hibernate, Axon, Apache Lucene, Wicket, Spring MVC, Apache commons.

Professional Experience

Trading infrastructure consultant, [IT-Essence](#), November 2011 - present

- Development of a trading infrastructure for a hedge fund in algorithmic trading.
- **Environment:** Scrum, FIX, Quickfix/J, Java 6, Linux.

Application architect and technical lead, [ABN-AMRO incubator](#), April 2010 – December 2011

- Architecture, implementation and realization of the [ABN-AMRO pension services](#) portal.
- Enterprise application integration of two portals: ABN-AMRO pension services and ABN-AMRO Pensional (PPI) portal using web services in a secure way (X.509 certificates, SSL + TLS).
- Lay-out of new up-to-date quality standards, application architectures and build environment.
- Supervision of the team that realized the [ABN-AMRO lease](#) portal. This included the front-end implementation as well as integration of the portal with the SAP back-end using web services.
- **Environment:** Scrum, Axon framework (CQRS), Java 6, Wicket, Spring (MVC), PostgreSQL, MySQL.

Enterprise Application Integration consultant, [Nidera](#), September 2009 – March 2010

- For [Nidera](#) I participated in the design and implementation of a master data storage (MDS), meant to provide and enforce a central place for the storage and definition of reference data, such as companies, counterparties and commodities. To this extent, the MDS comprises the development of adapters that disclose these data to various back-end systems such as [Commodity XL](#) (commodity trading) and [Agresso Business World](#) (ERP, invoicing) using web services. The development methodology used was [Scrum](#).
- **Environment:** Scrum, Java 6, Wicket, Spring, JPA, JAX-RS, JAX-B, JAX-P, REST, Fitnessse, Oracle.

Application architecture, design & development, [IT-Essence](#), November 2008 - present

- I conceived and realized the site www.contract-crawler.nl, consisting of a crawler bot that hunts for new interim/freelance contracts and a web page disclosing the fetched contract data using Apache Lucene. After registration, users can be notified by e-mail when new contracts have been collected which satisfy personalized search criteria. Customizable RSS feeds and rating of agencies are provided as well.
- **Environment:** Java 6, JPA (Hibernate), JAX-P, Wicket, Spring, Lucene, PostgreSQL, Maven, CVS.

Application development, [Chamber of Commerce](#), February 2009 - August 2009

- For the Dutch [Chamber of Commerce](#) a new company register is developed with associated web application which discloses and manages the register data. My team developed a domain model representing the complex business logic of the Chamber of Commerce, imposed by the Dutch Tax and Customs Administration, by applying design patterns and principles of domain-driven design.
- **Environment:** Agile, Hibernate, Spring, Maven, CVS, DB2.

Consultant performance analysis, [Koopman International](#), December 2008

- I did an analysis and resolution of some major performance bottlenecks that are associated with database access from a Java/Swing-based application as well as from a web-based application. These findings have been summarized in a tailor-made report.
- **Environment:** Java 5, JPA (EclipseLink), JSF, EJB 3.0, Java/Swing, Maven, Subversion, MySQL, DB2.

Consultant product lifecycle management, [Center Parcs](#), September 2008 – November 2008

- I wrote a quickscan report for Center Parcs. The focus was on the Maven-based build environment meant for the realization of test-driven development and continuous integration. Assistance was offered for the realization of some of the recommendations from the quickscan report.
- **Environment:** Java 5, Maven, Subversion, Bamboo server, JBoss, Fitnessse testing framework, EJBs, JDO.

Technical lead & Application architect, [ING Bank](#), January 2008 – October 2008

- The Tango project entails one of the largest mergers in the history of Dutch banking, in this case the merger of the Dutch Postbank and ING. As part of the WebSphere securities team, which received ING highest performing team–award within the TANGO-project, my team delivered the brokerage intranet application on time and within budget. I successfully managed and coordinated communication with the design, maintenance and test teams. In addition I authored the software architecture document. As Java developer I developed various batch jobs as well as an intranet application for the management of rejected messages.
- **Environment:** Maven, Wicket, Spring, Hibernate, EJB, XML, XSD, Castor, WebSphere, RAD.

Application development, [Rabobank International](#), September 2007 – December 2007

- I implemented a gateway that processes cash management messages. The gateway normalises, validates and reconciliates various types of cash management data, such as transactions, specifications and balances. These data arrive from various [Rabobank](#) product platforms and are fed to CoConet's [Multiversa IFP](#) (International Finance Portal), the interaction platform for the customers. As a result, Multiversa only needs to support *one* type of reporting process that is guaranteed to be valid.
- **Environment:** IBM MQ Series, MyEclipse, Java 5, JDBC.

Technical team lead & Application architect, [Fortis Bank](#), December 2006 – July 2007

- **Global Cash Management** is a high-end cash management service offered to corporate clients by the [Midas Plus](#) cash management package. I was technical lead of part of the WebSphere Competence Center team. This team was assigned to the task of disclosing cash management functionality to corporate clients via the single point of access of the Merchant Bank and Commercial Bank business lines, the so-called MBCP portal. To this extent my team implemented a portlet that interacts with the Midas Plus back-end via J2EE web services. The portlet provides global customers access to the portal 24 x 7. As a team lead, I successfully managed the communication between the business requirements team in Brussels and the development team in Amsterdam and made the final decisions with respect to the application architecture.
- **Environment:** JSR-168 portlets, WebSphere portal, Spring, Web services, RUP & continuous integration.

Senior Java/JEE developer & junior application architect, [Fortis Bank](#), January 2006 – December 2006

- **Online trading** offers automated trading functionality to authorized users of the *Merchant Banking Client Portal* (MBCP). The MBCP is a WebSphere Portal Server (WPS) based Internet application for Fortis Bank customers. As Java developer I designed and implemented the trade server, the central component of the online trading system. I wrote various documents, such as an architecture document proposing a redesign of the online trading messaging layer and extensions for option trading based on streaming prices. I also promoted and delivered documentation on the theoretical basics of option trading to Java developers.
- **Environment:** Maven, WPS, Eclipse. Spring, JMS, AJAX, Windows/Linux, IBM/AIX.

Senior Java/JEE developer & software quality assurance, [Fortis Bank](#), January 2005 – January 2006

- The **Merchant Banking Client Portal** (MBCP) is a WebSphere Portal Server based Internet application for Fortis Bank customers that "brings the services of the dealing room to your desk" and is completely developed in-house by the WebSphere Competence Center. New enhanced releases of the MBCP are delivered on a regular basis. I developed a gateway for FX and equity rates, (Struts-based) MPCP portlets and daemons. Moreover, I realized Software Quality Assurance initiatives, based on Maven and RUP. In addition, I wrote major parts of the project documentation (disclosed via the Maven project site).
- **Environment:** Maven, WPS, Eclipse. Spring, Struts, Hibernate, Ant, Maven, RUP. Windows/Linux/AIX.

Senior Java/JEE developer & JEE research and development, [Amis Services](#), June 2004 – December 2004

- Setup of Unix/Linux server, hosting the Amis technology corner: <http://technology.amis.nl/blog/>.
- Various R&D activities for the knowledge centers, writing articles on the technology corner.
- Development of a timesheet application by placing a J2EE architecture on top of a legacy database.
- Audit of the software managing customer transactions at the business points (outlets) of a Dutch posting service agency (TPG post).
- **Environment:** Struts, Hibernate, JAAS, SQL server + JDBC, Eclipse, Tomcat, UML, Windows, Linux

Java/JEE developer, [University of Amsterdam](#), April 2003 – June 2004

- **Project:** For the [DataTAG](#) (Data TransAtlantic Grid) project I designed and implemented a bandwidth on demand grid service and associated broker as part of a system that provisions end-to-end fiber optic connections in a multi-domain network. I combined both Globus & J2EE technologies.
- **Environment:** Globus toolkit 3.0.2 (web services based), J2EE, EJB, servlets, JSP, Ant, Linux.

Scientific Java developer, [University of Amsterdam](#), April 2001 – June 2004

- **Project:** The Virtual Laboratory Amsterdam is a multi-disciplinary e-Science project funded by the ministry of economic affairs. It provides a virtual computational platform based on a large-scale distributed computing development area. For this virtual lab, I was involved with the design, implementation and deployment of a proof of concept, including evaluation with first users.
- **Environment:** Globus toolkit 3.0.2 (web services based), Java, UML, Linux, Solaris, Beowulf clusters.

Scientific C developer, [University of Amsterdam](#), June 1999 – May 2001

- **Project:** Dynamite provides automatic load balancing for parallel applications running under Linux and Solaris. It supports migration of individual processes between computers (*e.g.* in a cluster) in a manner transparent both to the application programmer and the user. I ported major parts of the low-level C code from Solaris to Linux. I also transformed the status of the software from pre-alpha to production ready, so that it could be deployed at ESI, a company that evaluated Dynamite with code that simulated car crashes.
- **Environment:** PVM, C, Linux, Solaris, Beowulf clusters.

Java/C++ developer, research and development, [CBS](#) (Statistics Netherlands), May 1998 – May 1999

- I did a pilot on Java components associated with TIL (Table Information Language), an XML dialect for the dissemination and standardization of (aggregated) statistical data within the CBS.
- I developed and maintenance a C++ based Y2K code checking tool (language independent).
- **Environment:** C++, Java, XML, Visual studio J++, DCOM, Windows NT.

C developer, [Philips](#) Car Systems, September 1997 – April 1998

- **Project:** CARiN was one of the first car navigation systems. I developed and maintained the test tool Carsim, which was key during the development and test phases of the CARiN software and associated road maps.
- **Environment:** OSF Motif & XFacemaker, UI development, shell scripts, Sparc Solaris.

Fortran developer, [Leiden University](#), November 1992 - April 1997, Ph.D. research

- **Project:** I wrote a paper and computer program that establishes an automated reduction of the independent variables in large matrices to its theoretical minimum, by means of mathematical operations that can be derived from the lattice symmetry. These matrices are used to model lattice dynamics

References

- Een elektronic version of this document is available via <http://www.hendrikse.name/resume.html>.
- Website IT-Essence: <http://www.it-essence.nl/>
- Corporate weblog IT-Essence: <http://it-essence.xs4all.nl/roller/technology/>