

## Personalia

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The Netherlands  
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born in 1965 in Utrecht, The Netherlands  
Dutch nationality



## Core Competences

Analysis, architecture, design, (meta)modelling, model driven development, Java, C#

## Soft Skills

Strong analytical skills, good communication skills, listening, empathy, persuasiveness, switching between teamwork and autonomy, accurate, creative, practical, result oriented

## Career

### September 2010 – now: free-lance software architect

#### February 2011 – now: functional designer innovation department in Motiv of the RDC (RAI Data Center)

Design of extensions of OBS. This is a SAAS solution for automotive companies to manage vehicles for sale and advertize them on all vehicle advertisement portals.

Analysis and design for the migration of carfocus (= the custom made application that was used by all Dutch Peugeot dealers to manage their vehicles for sale) to OBS.

Analysis and design for a new system for the ROB association. Members of this association are most Dutch car lease companies. This SAAS solution enables automotive companies to request approval for maintenance, repairs, etc. on lease vehicles of these lease companies. This application automatically approves such requests where possible. The approve- and reject rules can, in several dimensions, be adapted and added.

#### September 2010 – January 2011: software architect for a project at Powerhouse

Analysis, architecture and realization of a debit control module for trading gas and electricity through the Powerhouse web application.

The object relational mapping is done through code generation from the domain model through Xtext. The workflow engine does runtime interpretation of the domain model using www.App4G.org.

Used technologies: Oracle 11g, Ibatis, Java, JSF, Xtext, App4G, PL/SQL.

### 2008 – now: teacher Analysis & Design – Functional Design with UML at the Hogeschool van Amsterdam

For the education program business computing I teach in evenings and weekends Analysis & Design – Functional Design with UML.

In these lessons students bring in cases from their working environment as a business requirements document. Based on this they learn and exercise in the lessons to make a functional design with UML models.

### 2009 – September 2010: software architect at Mendix

Design and implement functionality in the Mendix model driven web application development suite. Functionality in the modeler I write in C#, and in the runtime environment in Java.

For maintaining the meta model I write a modeling language in Xtext. From this I generate, through Xpand, C# code for in the modeler, and Java code for in the runtime environment. This automatically synchronizes the code of the modeler and the runtime with each other.

Integration of this development environment with SAP through IDocs and BAPIs.

*Used technology:* C#, .NET, Java, JCo, IDocs, BAPIs, Xtext, Xpand, Webservices.

#### **2007 – 2008: solution architect at Atos Origin**

Establish model driven development factory. Educate business analysts and requirement engineers to use this factory.

Goal of this factory is to be able to generate quickly a first version of a business application for different technologies. I've focused on developing the language in which the model is defined, and the ability to generate custom made Java applications from such a model.

*Used technology:* Java, openArchitectureWare, Rational Software Modeler, Eclipse, Webservices

#### **2008: information analyst / business analyst at Bureau Jeugdzorg**

Analyzing needs and possibilities for computerization for the client registration system and indication management system.

#### **2007 – 2008: project architect at Ministry of Justice and National Police Services**

Analyses, architecture and realization of an application which enables the collection of information through the internet, and analyzing and processing this information on the intranet.

*Used technology:* Java, openArchitectureWare (Xtext en Xpand), Rational Software Modeler, Eclipse, JPA, J2EE, JavaScript, JBoss, DataWarehouse.

#### **1999 – 2007: software architect at Compuware**

##### **2007: project architect at the Agis health care insurance company**

Analysing the business requirements and establish the architecture for a new declaration processing system.

*Used technology:* OptimalJ, Java

##### **2000-2007: architecture and development of OptimalJ**

OptimalJ is an MDA based Java EE development environment built in Java on Eclipse: from a domain model an applicatiemodel is generated, and from there J2EE application code, both incrementally.

With the architecture edition users can define their own meta models and transformations, which gives them full control over the generated applications.

*Used technology:* Java, Eclipse, NetBeans

##### **1999-2000: architecture and development of the workflow system of Uniface**

Using Uniface (a 4GL) we've built a workflow system, which we integrated with Uniface, to sell it with Uniface as Uniface Flow.

*Used technology:* Uniface, C++, Java

#### **1994 – 1999: technical manager and software architect at Cimax International B.V.**

Design, develop (in C++ with MFC) and lead the other developers of DComp.

DComp is a graphical business process modelling tool, used by business consultants.

*Used technology:* C++ and MFC

#### **1993 – 1994, 2004 – now: free-lance software architect**

Development of the web application framework App4G (Applications for Google Web Toolkit).

Consultancy for outsourcing the development of a webapplication for the Emergo foundation.

Consultancy for the creation of a multi-year budgetting system for real estate.

Design and develop report generator for motivational patterns.

Design and develop components ('software slot objects', written in C) for Spinnaker Plus, a clone of HyperCard for Microsoft Windows.

Investigation for the development of 3D CAD software.  
Quality check of specialized CAD software for Apple MacIntosh.  
*Used technology:* C++, C, PHP

**1992 – 1993: AB3D (own company)**

Custom-made education, training and support in computer use and exact sciences.

**1990 – 1992: civil service as staff in Hospital Gooi-Noord**

Designing and implementing new business processes due to a merger of three hospitals.

**1987 – 1989: werkstudent bij Infill Systems B.V.**

System administration, CAD-drawing and development of administrative software.

*Used technology:* HyperCard

## Education

**1983 – 1990 Delft University of Technology, mechanical engineering**

specialized in software development, M.Sc. at section design sciences / CAD on 3D-modelling and integration of these models in business processes.

*Used technology:* Pascal, Medusa, Delfi 2+

**1977 – 1983 Montessori Lyceum Rotterdam, gymnasium beta**

## Human languages

**Dutch** (native)

**English** (fluent in speech and writing)

**German** (reasonable in speech, moderate in writing)

**French** (moderate in speech and writing)

## Professional knowledge and experience

### Development Methodology

Agile, DSLs (Domain Specific Languages), Iterative, MDA (Model Driven Architecture), MDSD (Model Driven Software Development), Meta Modeling, Scrum

### Modeling Languages

BPMN (Business Process Modeling Notation), UML (Unified Modeling Language)

### Programming Languages

Java, C#, ActionScript (Adobe Flash, Adobe Flex), Assembler 8080, BaCIS2, Basic, C, C++, Delfi 2+, Fortran, HyperTalk, JavaScript, PHP, Pascal, Perl, Proc, Visual Basic, PL/SQL

### Frameworks

GWT (Google Web Toolkit), Hibernate, Ibatis, JSF

### Platforms

Oracle, J2EE, JEE (Java Enterprise Edition), Google App Engine, Microsoft .NET, JBoss, Datawarehouse

### Template Languages

Xtext, Xpand en Xtend (of openArchitectureWare / Eclipse), TPL (of OptimalJ)

### Modeling Tools

Mendix, Eclipse EMF, Rational Software Modeler, OptimalJ, Enterprise Architect, DComp, Rational Rose, Microsoft Visual Modeler, Visio

## Programming Environments

*On Windows:* Eclipse, openArchitectureWare, Visual Studio, OptimalJNetbeans, Visual Café (Java-IDE of Symantec), Uniface, Visual Basic, Microsoft Access, Spinnaker Plus

*On Apple MacIntosh:* Symantec C++, THINK Pascal, HyperCard

*On Sun OS:* Medusa (CAD systeem), Delfi 2+

*On HP9000:* HP-UX Pascal, Movie, Spacar

*On DAI:* Assembler 8080, Basic

## Other

Ajax (Asynchronous Javascript And Xml), Webservices, CSS (Cascading Style Sheets), EMF (Eclipse Modeling Framework), HTML (HyperText Markup Language), JCo (Java Connector van SAP), IDocs (Intermediate Documents of SAP), BAPIs (Business APIs of SAP), JCo (Java Connector of SAP), JSON (JavaScript Object Notation), Vektis (Standard for data exchange for Dutch health care), JUnit, MOF (Meta Object Facility), OO (Object Orientation), XMI (XML Metadata Interchange), XML (eXtensible Markup Language), MFC (Microsoft Foundation Classes)

## Private Life

Enjoy being in nature, hobby farm, organic food, raising a family