

# Resume Geert Premereur

## Personal data

1971/01/26

Belgian, Single

1989 – 1994: Master in Computer Science Engineering, University of Ghent

1983 – 1989: Mathematics, Koninklijk Atheneum Zottegem

## Languages

Dutch: Mother tongue, English: Excellent, French: Moderate, German: Basic

## Industry sectors

- 2011-current: Research, consumer goods (Sony TechSoft)
- 2007-2011: 4 year experience public/private sector (De Post/La Poste, now bpost)
- 1999-2007: 6 year experience automotive sector (Toyota Motor Europe).
- 1999-2002: 1 year experience public sector (VIZO).
- 1997-2001: 2 year experience e-commerce/fresh food (PEFA).
- 1994-1998: 4 year experience education (UGent)

## Project management & coaching

- Management of project execution of a small team.
- Coordination with other technical teams and compliance departments.
- Effort estimates, planning, follow-up, budget management and reporting.
- Follow-up of help desk, business representative & end-user feedback, error reporting and quality control.
- Project release management.
- Presentations & demonstrations to end-users & steering committees.
- Experience with off-shore & near-shore outsourcing.
- Coaching, teaching & supporting developers

## Analysis

- Gathering, refining and describing user requirements (use cases) with UML
- Documenting business processes.

## Architecture & development

- Server platforms: UNIX (AIX, Solaris), Linux (Ubuntu, Debian, Redhat), Microsoft Windows (up to Windows 2003), IBM z/OS mainframe.
- Programming languages: Java, Scala, Ruby, Javascript, C, C++, Perl, Python, Haskell, Pascal, Smalltalk, Shell scripting, C#, Visual basic, Visual Basic for applications, JCL.
- XML related: XML, XSLT, XPath, XML DTD & Schema, SOAP web services, XMLSpy, SoapUI.
- Database technologies: SQL, SQLJ, Oracle, DB2 (Windows, Linux, z/OS), MS SQL Server, MySQL, Derby, SQLite, Google BigTable, Hive, MS Access, ER

- Modelling, Tuning database access.
- Middleware technologies: RMI, JMS, WebSphere MQ, ESB (Sonic) , Apache Camel, Actors
- Internet & intranet technologies: creation and set up of web servers (Apache, IIS), application servers (WebSphere, Tomcat, JBoss), firewalls (Firewall-1, Watchguard, IPChains, IPTables), Routers (Cisco), Proxies (Squid, Apache), HTML, XHTML, JSON, CSS, AJAX, jQuery, REST, S3.
- Frameworks, API's & tools: Struts 1.x, Rails, Spring MVC, Tapestry, Sinatra, Scalatra, Vaadin, Spring, JUnit, JDBC, Hibernate, Eclipse, Netbeans, IntelliJ WebSphere Studio/RAD, Ant, Ivy, Maven, Gradle, Sbt
- UML and design patterns.
- Version control as user: ClearCase, subversion, git, cvs, rcs. Version control as administrator: git, subversion, cvs.
- Paradigms: Object Orientation, Functional programming, Aspect Orientation, Service Oriented Architecture, Agile Development & Scrum, Test Driven Development, Domain Driven Development, Cloud computing (AWS, GAE, Heroku), Map-reduce, Machine learning.
- Various: MS Office, Open Office, GIMP, Inkscape.

## Teaching

- Master of Enterprise Architecture: 2008-2009: Application Containers
- Master of Enterprise Architecture: 2009-2010: Application Frameworks & Cloud Computing
- Master of Enterprise Architecture: 2011-2012: Application Frameworks

## Work experience

### Sony Technology and Software Centre Europe

|            |   |
|------------|---|
| Period     | 2012/09 – current   |
| Project    | Philatelist   |
| Position   | Senior software engineer  |
| Activities | Philatelist is a suite of applications that capture, collect and visualise measurements performed on Sony VAIO machines. This measurement data is stored on Amazon S3, queried with Apache Hive and displayed in a custom web application. When I joined the project, it was already in production. My main tasks where stabilising it, adding new features and making improvement proposals; mostly in the back end of the application: Karaf & AWS. |
| Technology | Java, OSGi (Karaf), Spring DI & MVC, Maven, Hadoop (map-reduce), Hive, Amazon Web Services (EC2, S3, SES)   |

### Sony Technology and Software Centre Europe

|            |  |
|------------|--|
| Period     | 2011/04 – 2012/08  |
| Project    | Demand-response research / Linear  |
| Position   | Researcher and senior software engineer  |
| Activities | Confidential, research into algorithms in the field of demand-response. Participation in the Linear field trial.<br>Filled 4 patent proposals. |
| Technology | Java, OSGi (Felix), Guice, OpenWRT, Python, XMPP, JSON, git  |

### bpost (formerly De Post/La Poste)

|            |  |
|------------|--|
| Period     | 2007/08 – 2011/04  |
| Project    | Application architecture   |
| Position   | Enterprise application architect   |
| Activities | As member of the application architecture team, I started focussing on front-end technologies, a standards catalogue and enterprise content management. Later on, this expanded to general maintenance and elaboration of the company component repository, the Java |

framework and build process. Specific topics of interest where integration with JPA, web service and test support.

All team members were responsible for supporting and following-up on a number of projects and applications. My responsibility was towards all applications in the mail operations group. This meant ensuring that new developments were in line with corporate standards and architectural best practices were adhered to. Another goal was proposing evolution paths for existing applications.

Later assignments included designing the architecture for exposing services related to various e-commerce initiatives of bpost.

As bpost was working with near-shore teams from Latvia and Romania, I was involved with their recruitment, training and project-based support and guidance.

Technology JBoss AS, Oracle DB, WebSphere MQ, Ant, Linux, Struts, Java EE 5, XHTML/CSS/AJAX, Hudson, Artifactory, Camel, Vaadin

## **Kind & Gezin**

Period 2007/05 – 2007/07

Project Mirage

Position Project architect

Activities Kind & Gezin wanted a new tool to support their nursing staff in contact with new-born babies and mothers-to-be. They had developed a concept in which the kinds of data they captured and how this should be displayed on screen was very dynamic. My task was making a proof of concept implementation of the back-end logic in Java that could handle the dynamic nature of the data in a flexible and maintainable way. Further, I bootstrapped the technical part of the project by setting up automated builds, project structure and best practices.

Technology JBoss AS, Oracle, Spring (back-end), Adobe Flex (front-end), Maven, Continuum

## **Toyota Motor Europe (formerly Toyota Motor Marketing Europe)**

Period 2007/01 – 2007/01

Project Toyota Brand Protection

Position Designer / developer

Activities The Internet and cheap production in the East have lead to a growing problem of counterfeit Toyota brand-diluting parts & accessories. I have developed a functioning prototype of an application for tracking legal activities combating this problem.

Technology Ruby, Ruby on Rails, Eclipse, MySql

## **Toyota Motor Marketing Europe**

Period 2006/01 – 2006/04

Project End-of-Life of Vehicles (ELV)

Position Senior developer

Activities European regulation requires that cars and car components are recycled and disposed of as efficiently as possible. All vehicle disposal is done by external parties, but tracked and possibly subsidised by Toyota. ELV is an application that manages the central and verified storage of the related data allowing to detect fraud.

Technology WebSphere AS, J2EE, Struts, Spring, WebSphere Studio, Eclipse, ClearCase, DB2, SQLJ

## **Toyota Motor Marketing Europe**

Period 2004/10 – 2004/10

Project Local Parts

Position Project architect

Activities In this smaller project, TMME wished to provide authorised and independent repairers with a searchable, easily maintainable and fully multi-lingual off-line electronic catalogue of replacement parts requiring zero installation. As a quick but robust solution, I designed a system based on DHTML to provide a responsive and user-friendly cross-browser solution.

Technology DHTML, JavaScript, XML, XSLT, XMLHttpRequest, Sarissa, Excel, VBA

## **Toyota Motor Marketing Europe**

Period 2004/08 – 2007/05

|            |  |
|------------|--|
| Project    | Service Products Portal (SPP)  |
| Position   | Project architect & Project manager  |
| Activities | SPP is the successor to RSAE (see below). It's the generalisation of this application for different offerings, additional functionalities and integration. Other offerings are maintenance services and insurance. For this we use integration to external companies and national Toyota companies based on web services. For this broader scope I was the technical project lead, responsible for budget, planning, deployment, architecture and (part of) development. |
| Technology | WebSphere AS, J2EE, Servlets, Struts, XFB, JCL, Java on z/OS, WebSphere RAD, Eclipse, ClearCase, DB2, SQLJ, Sybase Power Designer, AXIS & .Net web services, SAML, JavaScript, AJAX (RICO, Behaviour, Prototype), XMLSpy, AIX  |

## Toyota Motor Marketing Europe

|            |  |
|------------|--|
| Period     | 2003/04 – 2007/05  |
| Project    | NMSC Parts Pricing System (NPPS)   |
| Position   | Project architect, analyst   |
| Activities | TME, being the European head quarters of Toyota, wants to centralise and homogenise the business critical operations of its national distributors. One facet of this is the pricing for spare parts & accessories. The NPPS application offers participating distributors a web interface for simulating and setting up pricing parameters for all (100,000 to 300,000) parts sold in their territory. On the back-end, purchase, dealer and end-user prices are provided both synchronously and asynchronously to central and local systems.<br>The project was initially outsourced to an Indian company at which time I had an architectural and coordinating role. Afterwards, the application was insourced and my responsibilities shifted towards maintenance, operational support and providing new features and integration with the corporate Parts system. Still later, I was the technical lead of a step-wise replacement by a new, more flexible implementation. |
| Technology | WebSphere AS, J2EE, Servlets, Spring MVC, Spring, XFB, JCL, Java on z/OS, DB2, SQLJ, WebSphere RAD, Eclipse, ClearCase, Sybase Power Designer, AIX, Perl   |

## Toyota Motor Marketing Europe

|            |  |
|------------|--|
| Period     | 2002/11 – 2003/03  |
| Project    | Toyota Corporate Data (TCO)  |
| Position   | Designer   |
| Activities | Like many large companies TMME has several data sources containing essentially the same data. The goal of TCO is to consolidate this data so that it can be used as source for different applications, including TSM, ELV, SPP & NPPS. |
| Technology | WebSphere AS, Java, WebSphere Studio, Eclipse, ClearCase, DB2, SQLJ  |

## Toyota Motor Marketing Europe

|            |   |
|------------|---|
| Period     | 2002/09 – 2004/07   |
| Project    | Roadside Assistance Extensions (RSAE)   |
| Position   | Project architect   |
| Activities | By default Toyota cars come with a 3 year roadside assistance service. After this period, a customer had to look for a local provider himself. With the RSAE application TME, through the local dealer, can now offer this as a service to the customer. Contracts are submitted to the European RSA providers' main offices. For this initially small but enduring project I held the roles of designer, part-time implementer and roll-out responsible. |
| Technology | WebSphere AS, J2EE, Struts, Extreme components, JCL, Java on z/OS, WebSphere Studio Application Developer, Eclipse, ClearCase, XMLSpy, WizTom, AIX  |

## Toyota Motor Marketing Europe

|            |  |
|------------|--|
| Period     | 2002/08 – 2004/07  |
| Project    | Toyota Customer Service Management Kaizen Evaluation Tool (TSM Kaizen)   |
| Position   | Project architect  |
| Activities | Confronted with new European regulation that forbid exclusive dealership contracts, TMME needs a tool for assessing prospective and current dealers. At the same occasion, TMME wants to promote Kaizen (continuous improvement) at the dealership level. The design and |

implementation of the tool is, as a first for TMME, outsourced to an Indian subcontractor. As architects (2 person team) we were responsible for deploying on the Toyota infrastructure and ensuring that the system operates within the architectural boundaries and quality criteria set by TMME. After the first phase software release, we took over the application. We've been implementing prototype solutions for new technical features and improvements. We helped the business users scope the specifications for the next phases of the tool.

Technology WebSphere AS, J2EE, Servlets, Applets, Swing, JCL, Java on z/OS, DB2, SQLJ, Eclipse, ClearCase, Ant, Install Anywhere, AIX

## **Vlaams Instituut voor Zelfstandig Ondernemen**

Period 2002/05 – 2002/07  
 Project Beleidsinformatiesysteem (Management Information System)  
 Position Technical specialist  
 Activities VIZO needs a system for easy generation of reports used for making management decisions. SQL Server DTS is used to transform existing data from a transaction processing schema to one suited for data warehousing. Responsibilities were the technical aspects related to using multiple databases, synchronization, integration of DTS transformations, optimisation and deployment.  
 Technology SQL Server 2000, DTS (Data Transformation Services), Business Objects

## **Gudrun**

Period 2002/04 – 2002/05  
 Project GDP3000  
 Position Developer  
 Activities Gudrun offers a web-based platform for insurance brokers, agents and experts. Reports of real estate insurance experts are documented with pictures. For reasons of lower latency and higher performance these pictures are scaled asynchronously from the upload. Responsibilities were the design and implementation of the software as components ready for integrating in the platform.  
 Technology J2EE, JAI (SUN's Java image library), Struts, commons-upload, JSP Tag libraries

## **Vlaams Instituut voor Zelfstandig Ondernemen**

Period 2001/12 – 2002/02  
 Project Leertijd II  
 Position Architect / developer  
 Activities Integrating two software systems from different vendors. One, written in J++, is responsible for managing People and another for managing Learning Centres, is written in VB. The VB application needs to call the J++ application components in a transactionally safe way. Responsibilities were designing, prototyping and implementing an MTS component to enable communication between the VB application and the business logic of the J++ application.  
 Technology MTS, DCOM, XML, J++, Java, Visual Basic

## **Mediamine**

Period 2001/11 – 2001/11  
 Project Mediamine Audit  
 Position Auditor  
 Activities Mediamine makes a pre-press application for digital content management. Responsibilities were performing an audit of the existing code. The targets were performance bottlenecks and general code and architectural quality.  
 Technology Java, Swing, RMI, eXchelon(XML database), Sun Solaris

## **Gudrun**

Period 2001/09 – 2001/11  
 Project GDP3000  
 Position Technical specialist  
 Activities Gudrun delivers a platform for electronic claim settlement over the Internet in the insurance business.

Both the insurance back-office workers and the insurance agents use this application in a strict workflow model. Integration with the back-end mainframe systems is done through message queuing.

Responsibilities were designing and implementing a high-availability solution for the web servers and the firewall.

Technology Redhat Linux, LVS (Linux virtual server), Heartbeat, FreeSWan, IPSec, SSL, Apache, Cisco

### **Toyota Motor Marketing Europe**

Period 2001/04 – 2001/07

Project Europricing

Position Analyst / Designer

Activities Design of a system for managing the pricing of all cars sold in Europe. TMME buys cars from factories in Europe and Japan and sells them to local distributors in Europe. To guarantee a positive gain local and foreign taxes, shipping costs, package discounts and individual pricing must be taken into account. The project was conducted according to RUP (a first for TMME). Implementation was mainly in NatStar/NatWeb. Responsibilities were creating a domain and design model in UML, making a DB Design, making a deployment design. Also, creation and distribution of large amounts of detailed and interactive reports.

Technology Rational Rose, Visual C++, Excel

### **Pan-European Fish Auction**

Period 2000/02 – 2001/08

Project Fish Market

Position Architect / Project manager

Activities PEFA organises a network of electronic fish auctions spread over Europe. These auctions are linked together and accessible to registered buyers via the Internet, thus creating a virtual marketplace on a "business-to-business" level. One of these market places is the fresh fish market, which has a catalogue component and a seller-driven auction component. This system is implemented on RedHat Linux based on Akopia Interchange. It has views for administrators, buyers and sellers. It is integrated with a back-end on W2K and SQL Server 2K, logistical and financial partners over HTTP. Responsibilities were architecture, analysis, design and implementation of the system in an extensible and OO way using the previously mentioned tools with XML storage. Also, hardening the OS and the web server.

Technology Redhat Linux, Akopia Interchange, Perl, Apache::ASP, XML, MySQL, SQLServer, IPChains, Apache

### **Toyota Motor Marketing Europe**

Period 1999/12 – 2000/01

Project Toyota Launch Factory

Position Architect / Project manager

Activities Analysis, design, implementation and team lead of an application for managing all documents related to the launch of a vehicle. Developed in cooperation with the Corporate Communications Group application.

Technology ASP, VB, COM+, SQL Server 7, IIS 4.0, MS Commerce Server

### **Toyota Motor Marketing Europe**

Period 1999/10 – 1999/11

Project Document management

Position Coach

Activities Coaching of developers implementing a web based application using Microsoft component technology (COM+). Also, designing the database layout (SQL-Server) for this and all similar (document management related) future applications.

## **Toyota Motor Marketing Europe**

Period 1999/06 – 1999/09  
Project IT Master Plan  
Position Architect  
Activities Design of an architectural blueprint for a new ICT architecture that concentrates on Enterprise Application Integration and Web enabling.  
Selection of appropriate tools for the implementation of this architecture and designing and building of an operational pilot application.

## **Vandeputte Group**

Period 1999/04 – 1999/06  
Project ERP  
Position Consultant  
Activities Consultancy for transition of an ERP-application in Informix 4GL to a component-based environment.

## **Vlaams Instituut voor Zelfstandig Ondernemen (VIZO)**

Period 1999/01 – 1999/04  
Project KMO Loker  
Position Technical specialist  
Activities System specialist for the implementation of the Virtual KMO-office of VIZO.  
(<http://www.kmoloker.be>) on the Microsoft BackOffice Server. Internet security is part of the responsibility.  
Technology Microsoft BackOffice Server: NT, Active Server Pages (ASP), MS IIS and SQL Server, Firewall-1, Belsign X509 certificates

## **KBC Bank**

Period 1998/12 – 1999/02  
Project IT Master plan  
Position Technical architect  
Activities Participated in the elaboration of an IT master plan for KBC focussed on Network Computing. Domains in scope: on-line transaction processing, data warehousing, groupware, stand-alone applications and office-suites.

## **Inno.com**

Period 1998/07 – 2007/05  
Project Internal IT  
Position Technical specialist  
Activities Responsible or involved for the set up of the internal IT-infrastructure of Inno.com. Components are for example a Sun server for file-serving, an NT server as server for the intranet (MS IIS), a firewall on Linux, Exim and MS Exchange 2003 for mail, Twiki and MS SharePoint Team Services for collaboration.  
Also selecting and implementing network related functionality: IPSec, Web Server certificates, web mail, Email server (smtp, pop, imap), LDAP administration, source code revision management, name servers, router, firewall, policy based routing, VPN, etc.

## **Pan European Fish Auction**

Period 1997/06 – 1998/06  
Project Internet Auction  
Position Assisting Academic Personnel  
Activities PEFA.COM (Pan-European Fish Auction) organizes a network of electronic Fish Auctions spread over Europe. These auctions are linked together and accessible to registered buyers via the internet, thus creating a virtual marketplace on a "business-to-business" level. Through proprietary developed software running in a secure environment, it has become possible to conduct real-time electronic auctions, the most challenging form of "on-line" E-commerce. The system is based on a 4GL application for the administrative part and Visual Basic clients for the actual auction. Buyers can operate from the whole of Europe.

Technology     Java, Swing, RMI, TCP, UDP

## Period 1994/09 – 1998/06

|          |                              |
|----------|------------------------------|
| Position | Assisting Academic Personnel |
|----------|------------------------------|

Teaching/assisting in following courses to computer science and engineering students:

- Other tasks:

- Guiding 15+ students towards the completion of their master thesis.