



## Just van den Broecke

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## Summary

Experienced (25+ years) consultant/architect/developer/trainer with a strong background in object technology, networking and multimedia. Considered a Java guru by peers. Since 2004 specialized in Free and Open Source [GIS/geospatial technology](#) and [Locative Media](#).

## Skills

**methods:** Booch, OMT, Extreme Programming, Agile methods, Scrum

**languages:** Java, C, C++, PHP, HTML, HTML5, DHTML, CSS, JavaScript, XML, XSLT

**internet:** TCP, UDP, Web Services (REST, SOAP, WSDL, UDDI), IP-Multicast, HTTP, SMTP

**telecom:** POTS, ISDN, B-ISDN, ATM, T.120, X.700, TMN/Q3, TINA, GPRS, UMTS

**multimedia:** A/V standards (MIDI, PCM, JPEG, MPEG), networked multimedia applications

**domains:** finance/banking, telecom, multimedia, industrial automation, gaming, geospatial/GIS

### technologies:

**Java:** J2SE, J2EE (EJB, servlets, JSP etc), J2ME, JMS, JTS, JNI, Spring, Hibernate, REST-frameworks (too many to sum up)...

**GeoSpatial:** WMS/WFS/WCS/SLD/CSW/GML/OpenLS (OGC standards), GPS, PostGIS, MapBuilder, UMN MapServer, GeoServer, GeoNetwork, GeoTools, OpenLayers, TileCache, GeoWebCache, GeoExt, GDAL/OGR, GML, INSPIRE, Google Maps, OpenStreetMap (OSM), Top10NL

**Mobile:** J2ME, Android, HTML5

**CORBA:** Iona Orbix/OrbixWeb, Visigenic VisiBroker

**ODBMS:** ODI ObjectStore for C++/Java

**RDBMS:** MySQL, PostgreSQL/PostGIS, Oracle, HSQLDB, Cloudscape

**libraries:** ILOG, Rogue Wave, ObjectSpace, JQuery, ExtJS/Sencha

**CASE tools:** Rational Rose, CayenneSoft ObjecTeam, OI TogetherJ

**IDEs:** MS Visual C++/J++/studio, Symantec Visual Cafe, Borland JBuilder, IBM VisualAge, Kawa, IntelliJ, Eclipse

**Web/Application Servers:** Apache, BEA WebLogic, IBM WebSphere, JBoss, Tomcat, Jetty, Resin

**SCM:** SCCS, RCS, CVS, Subversion, Perforce, MS SourceSafe, GIT

**OSs:** UNIX®-es (Solaris, Linux), MS Windows (95/98/NT/XP), Mac OS X

**misc:** Ant, Maven, various XML/XSL tools, Cloud technologies, Google technologies (Code, Sites, Groups, Docs etc)

**speaking:** English (++), German (+), French (+-)

**trainer:** excellent evaluations as an IT trainer

**personal:** teamplayer, technical leadership, initiator, visionary, communicative, alert

## Education

- 1976 gymnasium-B, Scholengemeenschap 'Casimir', Amstelveen
- 1985 chemistry with computing science (cum laude), University of Amsterdam
- 1989 post HTO telematics, Stichting Post Tertiair Onderwijs, Utrecht
- 1985+ ongoing education in many areas of computing science (design, languages, technologies, products) and management (presentation techniques, meeting techniques, working with groups, project management, business management).

## Career

### 1997+ Just Objects B.V., Amstelveen

Since november 1, 1997 I operate as an independent (ZZP) consultant through my own company, Just Objects B.V., providing consultancy, [training](#) and development services for a great variety of customers. Most projects have in common that they involve Object Orientation, Java and Internet technologies. Since 2004, focus is mainly on Free and Open Source [geospatial technology](#). In addition I have initiated several [Open Source projects](#). More details on Just Objects B.V. can be found at [www.justobjects.nl](http://www.justobjects.nl). Irregular postings on projects on [my weblog](#). I am co-owner/shareholder of [7scenes B.V.](#)

#### Projects:

- 1997 - [KPN Research \(now part of TNO\)](#) - architecture and development in TINA-C project. Technologies: C++/STL, CORBA (Orbix).
- 1997 - [Atos Origin](#) - provided training in Java programming and Java Enterprise Architectures
- 1997/1998 - [Orion Telematica TBI](#) - architecture and development of distributed Java framework for Intranet applications
- 1997+ - [Waag Society](#) - architecture and development of networked multimedia tools for the audio-visual arts (KeyStroke). See also [www.keyworx.org](http://www.keyworx.org)
- 1999/2001 - [MeesPierson N.V. \(now Fortis Bank\)](#) - consultancy and development for technical framework with Java, CORBA (VisiBroker) and an ODBMS (ODI ObjectStore) for the Foreign Exchange Information System (FEIS).
- 1998 - [Sun NL](#) - acquired certification for "Sun Certified Java Programmer" and Sun Java trainer.
- 1999 - [Ericsson](#) (through [Datasim Education B.V.](#)) - provided training in Java programming and design patterns in Java.
- 1999 - [Datasim Education B.V.](#) - provided training on design patterns in Java.
- 1999 - [Virgil B.V.](#) - XML/XSL consultancy and EJB development with BEA WebLogic.
- 1999+ - [Cowcatcher](#) - building an Open Source repository of Java training/teaching materials.
  - Development of the HolyCow! course content development, management and presentation framework. Technologies: XML, DHTML, Java (JSP, Servlets).
  - Development of course content for Standard and Advanced Java training and training in J2EE technologies (JSP, Servlets, EJB).

More news on the unique Cowcatcher approach to Java training is on the [Cowcatcher website](#).

- 1999+ - Provided Java training (both content and as a trainer) for customers including [Bibit](#) and [XPuntX](#), [Proface](#), [Nibble](#), [Bright Alley](#) and [Yokogawa](#).
- 1999 - [ABN AMRO](#) - (through [MPHASIS](#)) Multi-Channel Platform (MCP) project: Architecture and development of a universal platform for all of ABN AMRO's client channels (branch, IVR, Web, home banking). Technologies: UML, Servlets, JSP, EJB, IBM WebSphere.
- 1999+ - [Pushlets](#) - a personal Open Source project. Pushlets enable any servlet-based server to push dynamic content into DHTML-based browsers. See the examples. Technologies: Servlets, JSP, JavaScript, Dynamic HTML.

- 2001 - [First Result B.V.](#) EJB Architecture Consultancy
- 2001 - [European Patent Office \(through MPHASIS\)](#) EJB Architecture Consultancy
- 1999/2001 - [Rabo Bank Treasury \(through Virgil B.V.\)](#) Development of live streaming of currency rates and news to web-browsers using [pushlet-technology](#). Result: [www.rabotreasuryweb.com](http://www.rabotreasuryweb.com)
- 2002 - [Environmental Emission Exchange \(through Virgil B.V.\)](#) Architecture and development of a real-time person-to-person trading platform for NOx emission rights.
- 2002 - [Virgil B.V.](#) Architecture and development of the [Virgil Market Data Distributor](#), a financial data distribution toolkit.
- 2003/2004 - [Yokogawa](#) Development of a Java front-end for the [FAST/TOOLS process control \(SCADA\) system](#). Provided Java training (basic, advanced).
- 2004 - [Waag Society](#) (sponsored by KPN). Development of [Frequentie 1550, a mobile game using UMTS, GPS and J2ME](#). See the [KPN press release](#). This application is developed on the [KeyWorx Platform](#).
- 2004 - [Waag Society](#) (with Jeff Mann and [Michelle Teran](#)) Developed real-time data exchange component to connect social spaces within the [Lifeform Telekinetics](#) project.
- 2005 - [1100CC](#) Java development consultancy.
- 2005 - [GeoSkating](#). Creating annotated/multimedial skate-maps and rea-time tracking through a mobile phone with attached GPS.
- 2005 - [GeoSailing](#). Creating annotated/multimedial sailing routes through a mobile phone with attached GPS.
- 2005+ - [GeoTracing](#). Generic platform for remote tracklogging, real-time tracing and multimedial annotation through a mobile phone with attached GPS.
- 2005 - [Waag Society](#). Creation of a GeoDrawing game during the Amsterdam MuseumNight 2005. See [www.n8spel.nl](http://www.n8spel.nl)
- 2005 - [DTS B.V.](#) provided advanced Java and OO/Design Patterns training.
- 2005 - [Waag Society](#). Multimedial project See [www.multimedial.nl](http://www.multimedial.nl)
- 2005 - [Stichting Otterstation Nederland \(SON\)](#). GPS-based field observations for otters (OtterTracing) See [www.geotracing.com/otter](http://www.geotracing.com/otter), powered by [GeoTracing](#)
- 2006 - [Dutch Ministry of Transport \(Rijkswaterstaat\)](#) - "[Adviesdienst Geo-informatie en ICT \(AGI now DID\)](#)". Integration of [IONIC \(now ERDAS\)](#) Red Spider geospatial products into AGI spatial data infrastructure.
- 2006 - [CityWorks](#). Sense of the City community mapping project See [www.senseofthecity.nl](http://www.senseofthecity.nl), powered by [GeoTracing](#)
- 2006 - [CityWorks](#). Sense of Brainport community mapping project See [www.senseofbrainport.nl](http://www.senseofbrainport.nl), powered by [GeoTracing](#)
- 2006 - [Bliin](#). Navigating experiences See [bliin.com](http://bliin.com), powered by [GeoTracing](#)
- 2007 - [CityWorks](#). Jeugd GePoSitioneerd (JGPS) project See <http://www.jeugdgepositioneerd.be>, powered by [GeoTracing](#)
- 2007 - [Waag Society](#) - [Mobile Learning GameKit \(MLGK\) project](#), powered by [GeoTracing](#)
- 2007 - [Waag Society](#) (with Alterra/WUR). [Digitale Wichelroede \(DIWI\) project](#), powered by [GeoTracing](#)
- 2007 - Live tracking of [Schuttevaer Sailing Race 2007](#) with [GeoSailing](#) See [www.geosailing.com/svr](http://www.geosailing.com/svr), powered by [GeoTracing](#)
- 2007 - [Waag Society](#). WalkAndPlay workshop at [Picnic 2007](#) See [walkandplay.com](http://walkandplay.com), powered by [GeoTracing](#)

- 2007+ - owner/shareholder of [7scenes B.V.](#), a mobile locative storytelling platform. Architect/developer in various projects such as [GamesAtelier](#) and [Land van Leeghwater](#).
- 2008 - Live tracking of [Schuttevaer Sailing Race 2008](#) with [GeoSports](#) See [www.geosailing.com/svr2008](http://www.geosailing.com/svr2008), powered by the [7scenes](#) platform
- 2008 - Live tracking of [Frisian Solar Challenge 2008](#) with [GeoSports](#) See [www.geosailing.com/fsc08/](http://www.geosailing.com/fsc08/), powered by the [7scenes](#) platform
- 2009 - [GeoCat B.V.](#) and [CampToCamp](#) - GIS metadata catalogue for [Swiss Topo](#). SVN committer for [GeoNetwork Open Source](#) project
- 2009/2010 - [Dutch Land Registry and Mapping Agency \(the Dutch Kadaster\)](#) - GEORZ Lab and Research - Consultant/developer for Open Source Geo-solutions, mainly using the [OpenGeo](#) architecture.
- 2009/2010 - [Dutch Land Registry and Mapping Agency \(the Dutch Kadaster\)](#) - ICT Dept - Consultant within several projects such as Cadastral parcel splitting ("Voorlopige Grenzen") and TOP10NL (Dutch Topo Map) visualization with GeoServer/SLD.
- 2010 - [Dutch Land Registry and Mapping Agency \(the Dutch Kadaster\)](#) - GEORZ Lab and Research (with [Geodan](#))- Developer proof of concept for mobile access to [KLIC Online](#) (national cables and pipelines information online).
- 2009+ - [Dutch Land Registry and Mapping Agency \(the Dutch Kadaster\)](#) - GEORZ Lab and Research - Architect/developer for [INSPIRE](#) data transformation and download/view services using Dutch geo data (BAG, Top10NL, BRK). Developed [working prototype](#) with Deegree, GeoServer, PostGIS and GeoExt within the context of [ESDIN](#) and [EURADIN](#). See also [this published article](#).
- 2011 - [Rijksvastgoed- en ontwikkelingsbedrijf \(RVOB\)](#) - through [OpenGeoGroep](#)- Developer for a web-based GIS viewer based on the FOSS [Heron Mapping Client](#)
- 2011-2013 [Publieke Dienstverlening op de Kaart \(PDOK\)](#) - Developer/architect for the Dutch central National Spatial Data Infrastructure (NSDI).
- 2011+ - [OSGeo.nl - Dutch Language Chapter for OSGeo.org](#) - Secretary of the OSGeo.nl Foundation (Stichting OSGeo.nl).
- 2011+ - [NLExtract - ETL and Visualization for Dutch open geo-data](#) - Derived from BAGExtract Open Source, lead developer.
- 2013+ - [Stetl - Streaming ETL framework](#) - Generic Python framework for Spatial ETL.
- 2013 - [KadViewer](#) - Prototype [Heron](#) Viewer for Dutch Kadaster (PPI).
- 2013 - N.V. Nederlandse Gasunie - provided workshop [Heron web mapping client](#) and Open Source Geo.
- 2013/2014 - [Warwickshire City Council \(WCC\)](#) via [OpenGeoGroep](#). Advanced components for the [Heron web mapping client](#).
- 2014 - [Warwickshire City Council \(WCC\)](#) via [OpenGeoGroep](#). Advanced components for the [Heron web mapping client](#).
- 2014 - [Dutch Kadaster \(PPI\)](#) - developed private cloud (Ubuntu/QEMU/KVM) environment for the [Kademo Lab](#).
- 2014 [Publieke Dienstverlening op de Kaart \(PDOK\)](#) - [Heron web mapping client](#) support (via Geodan).

## 1997 **Objective Alliance**, Amsterdam

### Position

Senior Consultant

### Activities

#### *Sales support*

Pre-sales (customer presentations, technical evangelist) for leading (distributed) object technology

products such as Iona Orbix, ODI ObjectStore, ObjectSpace and ILOG products.

### Training

Trainer for Objective Alliance/[Valtech](#). Provided several runs of the courses::  
"OO Programming with Java", "Java Enterprise Architectures", "CORBA Overview", "CORBA Enterprise Architectures"

### Consultancy

Advice, architecture and design in several projects for companies in the telecom/internet sector. The technologies involved are Intra/internet, CORBA, TINA-C, Java, C++ and ODBMSs.

### Development

C++/Java programming with CORBA, ObjectStore, ObjectSpace and ILOG products.

## 1985-1996: [Lucent Technologies](#) (formerly AT&T), The Netherlands

### Position

Member of Technical Staff - Bell Laboratories

### Projects

1985-1994: software development for the AT&T 5ESS½ public switching system:

- signalling (a.o. N-ISDN)
- call control and services (calling number display, three-party service,
- network management: OSI (Session, Presentation, FTAM), TMN/Q3, Billing

1994-1996: [PLATINUM](#) and [MESH](#) projects (ATM/multimedia pilots):

- ATM signalling (ITU Q.2931) platform
- object-oriented middleware ([CORBA](#)) framework for distributed multimedia applications
- multimedia applications (Video-On-Demand, tele-conferencing)

Activities within these projects ranged from initial contacts with customers through specification, architecture, design, programming and management of software teams. All projects involved international cooperation, such as with AT&T Bell Labs, US.

### Other

Standards participation in ISO (OSI FTAM), ETSI (TMN-related) and [EWOS](#) (OSI FTAM, OSI Network Management). Lectures on OSI, TMN and object technology.

## Publications

Just van den Broecke; *"NLEExtract pakt de basisregistraties uit - BAG en BRT ontsloten met Open Source software"* [Geo-Info](#), 2013-8/9; Edward Mac Gillavry (ed.)  
[[PDF Download](#)]

Ebrahim Hemmatnia, Just van den Broecke, Ko van Raamsdonk, *Harmonising Dutch National Geodata Conform To INSPIRE Using Combined Transformation*; **International Journal of Spatial Data Infrastructures Research**; Vol 5 (2010) [Reference](#)

Linda Rising (ed.) *Design Patterns in Communications Software* (includes my [article written with Jim Coplien](#)); **Cambridge University Press** June 2001; [Reference](#)

J.A. van den Broecke; *Pushlets, Part 1: Send events from servlets to DHTML client browsers*; **JavaWorld** March 2000; [Online Version](#)

J.A. van den Broecke, J.O. Coplien; *"Using Design Patterns to Develop a Framework for Multimedia Networking"*; **Bell Labs Technical Journal**; Volume 2, Number 1, Winter 1997, pp 166-187

H. Ouibrahim, J.A. van den Broecke; *"Multiparty/Multimedia Services to Native ATM Desktops"*; **5th IEEE Symposium on High-Performance Distributed Computing**; USA, Aug. 1996, pp 203-208

More publications can be found [here](#)

## Associations

Just is a member of the following associations



JavaKnights NL (founder)



## Spare Time

Music making (guitar, MIDI, sampling)

Sports ([field hockey](#), [GPS hiking](#), speed skating, [inline speed skating](#), running, [soccer](#), [Ajax](#))

Keeping up with new developments in my profession