

## Personalialia

**Name** Johan Van den Brande  
**Address** Hazendreef 3 2260 Westerlo Belgium  
**Date of birth** 2 June 1972  
**Marital status** married  
**Phone (Home)** +3214540179  
**Phone (Mobile)** +32475567606  
**email** johan@vandenbrande.com  
**website** http://www.tektonica.com  
**website (personal)** http://www.vandenbrande.com

## Education

### Academic

Master in A.I. K.U. Leuven	1998 - ...	-
Industrial Engineer Electronics, Computer Sciences K.H.K. Geel	1992 - 1996	Distinction
Candidate lic. Informatics K.U. Leuven	1991 - 1992	-
Preparation year Math K.U. Leuven	1990 - 1991	-
Higher Secondary School, Industrial Science Vrije Sint Lambertusscholen	... - 1990	Discintion

### Additional

XML conference IBM, lasting 5 days.  
IBM 1998

Informix dynamic server system administration for UNIX.  
Informix 1998

Implementing microsoft site server 3.0. Implementing a commerce-enabled web site using site server 3.0 commerce edition.  
Microsoft 1999

IBM Websphere performance pack technical workshop  
IBM 1998

YAPC::2001 - Yet Another Perl Conference, Amsterdam.  
Conference about Perl. 2-4 August 2001

German Perl Workshop 4.0  
Conference about Perl. 13-15 Feb 2002

Analysis and design modeling with UML  
PriceWaterhouseCoopers Spring 2002 (4 days)

YAPC::2002 - Yet Another Perl Conference, Munchen.  
Conference about Perl. 18-20 Sept 2002

## Languages

	<b>Speaking</b>	<b>Understanding</b>	<b>Writing</b>
<b>Dutch</b>	Mother tongue	Mother tongue	Mother tongue

<b>English</b>	Fluent	Very good	Very good
<b>French</b>	Basic	Basic	Basic
<b>German</b>	Basic	Basic	Basic

## Skills

### Languages

C (GCC)	5 Year
C++ (G++)	3 Months
Perl	6 Year
Java	2 Year
Assembly ( 68K, 6502, Atmel AVR )	10 Year
ECMAScript (JavaScript)	5 Year
Various BASIC dialects: VB6, VBScript, NSBASIC, PBASIC, BASCOM-AVR	5 Year

### Tools

CVS versioning system (setup/usage)	1 Year
GNU development tools ( make, vim, bash, ... )	3 Year
Microsoft Visual Studio	6 Months

### Methodology

UML	3 Months
OOP	2 Year
Functional analysis ( top-down/bottom-up )	5 Year

### Wireless/Mobile

ETSI 03.40 ( SMS/PDU/AT+GSM )	2 Year
NBS Messaging	2 Year
WAP ( WML/WMLScript )	2 Year
PQA Palm Webclipping	6 months
PalmOS 4.0 development (PRC-Tools)	6 months
NSBasic/Palm	6 months
CDK Java ( Conduit development )	3 months

### Embedded systems

Atmel AVR controller (Assembly)	3 Months
BASCOM-AVR Basic compiler	3 Months
AVR-GCC	3 Months
Parallax BASIC Stamp (PBASIC)	3 Months

### Databases

PostgresQL	3 Year
MySQL	1 Year
SQL Server 6.5, 7	1 Year
Access	2 Year
Sybase 11	6 Months

### Markup Language

HTML 3.2/4.0	5 Year
XHTML	3 Months
WML	2 Year
DHTML	2 Year
CSS	2 Year

### Internet Application Frameworks

PHP3/4	3 Year
mod_perl	3 Year
CGI	5 Year
HTML::Mason	2 Year
Servlets	1 Year
ASP	3 Year

### Internet Publication Frameworks

COCOON	3 Months
AxKit	6 Months
WebGUI	3 months

Twiki	6 months
<b>XML</b>	
XML	3 Year
XSLT	6 Months
XML-FO	1 Month
DOM	2 Year
Perl XML modules	1 Year
<b>Webservers</b>	
Apache	4 Year
IIS4/5	3 Year
Roxen	3 Months
<b>Operating Systems</b>	
Linux	6 Year
PalmOS	2 Year
Windows 95/98/NT/2000	6 Year
DOS	6 Year
AmigaOS	10 Year

## Selected project experience

*period* 08/1996 - 04/1997 *company* INnet n.v. / UUNet

*title* **Software Engineer / Web developer**  
Software development, related to the Internet (TCP/IP, analysing webservers, routers(portmaster, Cisco, ...). Architecture and development for websites and applications.

*references*

deboekhandel.be One of the first e-commerce sites in Belgium to sell books. Now disfunc.  
*Perl, CGI, HTTP, HTML*

www.barco.be Company website and intranet.  
*Perl, HTML*

www.panasonic-batteries.be Online quiz.  
*Perl, JavaScript*

www.glaxo.be Extranet for collaboration of physicians.  
*Perl, Flat file databases.*

SCA packaging Intranet application. Product presentation software with integration to product database. Based upon HTTP as a communication protocol. Native Win32 application.  
*Delphi, HTTP, SQL, Win32API*

*period* 05/1997 - 12/1997 *company* Ordina Technology

*title* **Internet Consultant / Software Engineer**  
Technical coordinator Internet Team. Concept, architecture and implementation for websites and webapplications.

*references*

car-o-line Car Portal site. Dealers could displaytheir car stock for sale. Individuals could also sell their cars via this site. Every dealer had it's own administration zone. (Now disfunc)  
*WebSite Pro, Perl, Access, SQL, ASP, HTML, JavaScript*

---

www.immodata.be Real-estate portal site. Real-estatebrokers can display their available houses. Every agent has it'sown administration tool. ( now www.livios.be )  
Website Pro, Perl, Access, SQL, ASP, JavaScript, HTML

www.dma.be Copy of immodata.be. Targeted towards real estate in the city of Antwerp.  
IIS, Perl, CGI, FoxPro

period 01/1998 - 07/1998 company The Reference

---

**title** **Software Engineer / Project Manager**  
Dedicated Project Manager for Interleasing Internet project. Conversion of a CGI/Visual Basic web application to ASP.

references

interleasing Intranet conversion fromWebsitePro/CGI/VB based to IIS/ASP. Integration with existing infrastructure (RS/6000).  
ASP, IIS4, VisualBasic, VBScript,HTML3.2, JavaScript, ActiveX Components, Sybase 11, FTP.

occalease E-commerce site that offersend-of-term leased cars for sale.  
ASP, IIS4, VisualBasic, VBScript,HTML3.2, JavaScript, ActiveX Components, Sybase 11, FTP

Artesia Autolease Site to offer clients of Artesiabank car-lease possibilities. Close integration with the Interleasingback-end.  
ASP, IIS4, VisualBasic, VBScript,HTML3.2, JavaScript, ActiveX Components, Sybase 11, FTP

period 07/1998 - 01/1999 company CIMAD / IBM Global Services

---

**title** **I.T. Specialist**  
Architecture and implementation of e-business projects

references

www.senate.be Website for the senate in Belgium.  
Informix, Informix Webdatablades, SQL, JavaScript, HTML, DHTML

Pensioenkas Technical design and implementation of a web based application for parametrization of EDI message files.  
PerlScript in ASP, IIS4, HTML4.0, JavaScript, EDI

AGFA Study, usage of XML for information presentation on different peers of a global website.  
XML

period 02/1999 - 12/2001 company Evisor nv/sa

---

**title** **E-business architect / Mobile competence center leader**  
Architecture and implementation of e-business solutions. Mobile Competence center leader (SMS/ WAP / PDA / mobile computing).

references

www.atrecordings.com Architecture and development of an online music store.You can shop for MP3 files for downloading, or for tracks to create your own custom madei CD. With integrated community building tools (forum).  
PerlScript, ASP, IIS4, JavaScript, SQL, Clearspot, Message

*Queueing, SSL, OnlinePayments, COM components, HTML*

Electrabel	Architecture and implementation of a news feed dispatcher. Incoming newsfeed get's dispatched to websites using FTP. <i>Perl, FTP-protocol, IIS, ASP, VBScript.</i>
Bulk Mailer	Mailing list application Architecture and implementation of a 1-to-1 marketing tool. In the form of a mass-mailing system. <i>Linux, Perl, PHP, mySQL, sendmail</i>
Intranet Hospital Charleroi	Architecture for an intranet. Bringing the legacy applications to a thin client. <i>ASP, SQL, Site server</i>
www.yucom.be	Architecture for newsfeed integration with bridge.com <i>ASP, VBScript, JavaScript, COM, XML</i>
www.evisor.com	Architecture and implementation of our company site (Client-area, DHTML menu). <i>Apache, Perl, Authentication, HTTP</i>
www.loeff.be	Architecture DHTML and XML part of the application. DHTML, XML Internal time sheet module. Architecture for the XML part of the application. <i>DHTML, XML, HTML, JavaScript</i>
wap.ready.be	Architecture for the WAP site of ready.be. <i>WAP, WML, VB</i>
wap.goudenbingo.be	WAP site for goudenbingo.com. An Euro 2000 dedicated site, with daily updates. Architecture and implementation of an e-polling application, based upon WAP and SMS connectivity. <i>WAP, WML, SMS, AT+GSM, NBS, Perl, PHP, Apache.</i>
KBC WAP study	Study at the KBC bank for mobile banking solutions. <i>WAP, WTLS, XML, XSLT</i>
Mobile demos	Creation of demo's for our mobile competence center. ( Avantgo based channels, WAP applications ) <i>Avantgo Server 3.4/3.6, PHP, PostgreSQL, HTML, WML</i>
Mobile PSA tools	Professional Services Automation. Design and prototyping for integration of timesheet and expense applications on a PDA into an enterprise portal. The enterprise portal modules are to be used with Epicentric. <i>PalmOS, synchronisation, SOAP, Perl, Java,</i>

<i>period</i>	<i>02/1999 - 06/2002</i>	<i>company</i>	<i>PricewaterhouseCoopers ITS / Evisor</i>
---------------	--------------------------	----------------	--

*title*                    **Solutions architect**  
Architecture and implementation of EIA solutions, focus on multichannel delivery platforms.

*references*

Mobile::Exchange	Architecture and implementation of a message exchange platform, build to integrate SMS capabilities in Siebel 6. Can also be used to equip other platforms with wireless capabilities independent of the choosen mobile aggregator. <i>Apache, mod_perl, Perl, XML, XSLT, HTTP, MySQL.</i>
------------------	---

<i>period</i>	<i>07/2002 - now</i>	<i>company</i>	<i>EMC Belgian Development Group</i>
---------------	----------------------	----------------	--

*title*                    **Software engineer**

EMC BDG develops next generation storage products. The product I help developing is a Content Addressed Storage device (CAS). My role is to develop parts of this product.

---

references

Platform	The platform on which the software runs is based on Linux. I maintain parts of the platform and write supportive software to install the product on our hardware. <i>Linux, Perl, Bash</i>
SNMP support	I developed the SNMP support for the Centera product. <i>Java, SNMP, UDP/IP</i>

---

<i>period</i>	<i>1995 - 1996</i>	<i>company</i>	<i>INnet n.v. / UUNet</i>
---------------	--------------------	----------------	---------------------------

---

<i>title</i>	<b>Apprenticeship</b> For my finalpaper, I had to develop a project with in a company. I choose an Internet company, INnet, one of the first internet companies in Belgium. The project I choose was to develop a real-time video conferencing application that would run over a low-bandwidth connection. This application was developed for Windows (3.11/95) and used a standard video capture card. I developed my own compression algorithm for it and it actually ran at a respectable framerate.
--------------	--

---

<i>period</i>	<i>06/2000 - now</i>	<i>company</i>	<i>Tektonica bvba</i>
---------------	----------------------	----------------	-----------------------

---

<i>title</i>	<b>Independent IT consultant</b> My own company. I use this as a vehicle to design and implement my own ideas, next to regular project work for a customer.
--------------	--

---

references

www.livios.be	An ASP that situates itself in the real-estate sector. Real-estate agents have a windows based desktop application to manage their portfolio. A central server manages exchange of real-estate between agents. Based upon a BBS solution, I helped the migration to an internet based technology. My role was to write the server side synchronisation scripts and help the other developers to change the desktop application to a internet aware application. <i>IIS, NT, SQL server, ACCESS, VBScript, HTTP, FTP, Foxpro databases.</i>
www.plantfocus.com	Plantfocus.com is a dot-com company that wants to be the portal for information about plants in Belgium. My role was the technical coordination and implementation of the site. I did database design, PHP scripting and server configuration. <i>Apache, Linux, Postgres, PHP4, Perl, HTML, JavaScript, CVS.</i>
Take 1	Native PalmOS application to view Belgian movie playtimes. <i>NSBasic, Perl, Mason, Apache, Linux, PalmOS, PostgresQL</i>
Channel 0	A TV guide on your PalmOS PDA. A script ( Perl ) fetches TV guide data from the web on syncs it in your PDA. <i>NSBasic, Perl, Linux, PalmOS</i>
GSM::SMS	GSM::SMS - Perl modules for Smart Messaging. This set of modules allows you to send and receive SMS messages. Besides text messages you can also use Smart Messages, also known as ringing tones, groupgraphics, vcards etc... <i>etsi ( European Technical Standards Institute )standards. Linux / C / Perl / SMS / HTTP / XML / TCP/IP / mySQL / SerialCommunication / Interfacing to SMS Centers ( novelsoft ) / NBS / OTA / OTABitmaps</i>
Tabletop autonomous vehicles	Actual a hobby of mine, in which I can benefit from my own company to proactively design and build small autonomous vehicles. These form a nice testbed for A.I. research topics.

*Electronics and mechanical design, PCB design (eagle) and etching, Atmel AVR 8-bit controller, GCC, BASCOM-AVR.*

## Speaking

*YAPC - Yet Another Perl Conference*

*Sept 2002*

### **Sending and receiving SMS messages with Perl.**

This was a one hour speech at the Perl conference in Munchen, september 2002. It discusses various ways in how to send and receive Short Messages from Perl.

*IBM*

*1999*

### **e-business solutions**

This is actually a course spread over 5 days. It tries to highlight as many aspects of e-business as possible. The goal of this 5 days course was to deliver a basic understanding of e-business. I teache(d) three parts of the course. WWW Concepts: Browser/HTML/XML/Javascript/DHTML/HTTP/Webservers Push technologies: Surviving push technology. Authoring Tools: HTMLeditors

*IPO, UFSIA Management School (University of Antwerp)*

*1999*

### **HTML, de spil van het World Wide Web.**

HTML, position within the Internet. The language HTML. Cascading StyleSheets. Dynamic HTML

*IPO, UFSIA Management School (University of Antwerp)*

*1999*

### **JavaScript, De officiële scriptingtaal van het World Wide Web.**

Introduction and position ( What, Objectmodel, Javascript vs. Java, Javascript and browsers ). Javascript essentials (Functions, objects, events, forms, loops, frames, windows,...). Examples and applications.

*K.H.K Katholieke Hogeschool Kempen.*

*1997*

### **Networking & Multimedia**

This was a course spread over 2 days. The first day was an introduction to the Internet. Basic principles: TCP/IP, Installation and configuration Internet access. Basic usage Internet software :mail(eudora), browser(NS), FTP(wsftp). Introduction to HTML. The second day was about Gateways and proxies. (TCP/IP, OSI model, Routers, WWWGateways, Proxies, Firewalls and security )

## Publications

### ***Sending and receiving Short Messages with Perl***

*2002*

How to send and receive Short Messages with Perl. Discusses the SMS protocol and various ways on how to use it from Perl.

<http://www.tektonica.com/projects/gsmsms/docs/presentation.pdf>

### ***Appforge: programmeer met MS Visual Basic voor de Palm***

*2001*

Appforge review for palmclub.nl  
<http://palmclub.nl/reviews/software/ontwikkeling/appforge/>

***NS Basic/Palm 2.0.1, een professionele programmeeromgeving***

2001

---

NSBasic/Palm review for palmclub.nl  
<http://palmclub.nl/reviews/software/nsbasic/>