

## Curriculum Vitae

**Geert Bormans**

<b>name</b>	Geert Bormans		
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<b>birth</b>	Geel, May 8th, 1967	<b>skype</b>	gertone17

### **Summary**

Geert is an independent consultant, focusing on projects that surface the intrinsic value of the electronic content that companies have available. Such projects involve content migrations, content management and electronic publishing.

He has a strong experience designing and building solutions for information extraction and complex data conversions, both 'legacy' and XML transformations.

Geert also is a highly respected trainer and evangelist on various topics such as information modelling, schema design, content processing or the use of XML in general.

Geert holds a master's degree in Electromechanical Engineering from Katholieke Universiteit Leuven and since 1991 has specialized in Content Modeling, Content Processing and Content Management.

From 1991 until 2001, Geert was a research engineer and project leader at the research group on "Document Architectures" of the Katholieke Universiteit Leuven, focusing on SGML, XML and related standards. In that position he was responsible for the conception and successful delivery of a number of innovative Europe-wide research projects, retrieving and delivering information from heterogeneous multi-lingual sources.

From 2001 until 2006, Geert was VP Professional Services Europe for Stilo. He was technical lead and main architect in a number of content migration and complex publishing projects, for customers in the government sector, technical documentation and media publishing (newspaper industry). As an architect his experience has lead to the initial design of CF2, Stilo's content engineering framework.

## **Work Experience**

**2006 – present C-Moria bvba**  
**Independent Consultant (Portfolio attached)**

**2001 – 2006 Stilo**

**VP Professional Services, Europe**

- senior consultant and solutions architect
- presales consultant; early sketches of solutions with potential customers
- proof-of-concept development, using a variety of technologies
- evangelisation of Stilo's vision on content engineering, by means of a two days strategies course; initial development of the course;
- developing a vision for a new product line, leading to the initial design and architecture of CF2, Stilo's content engineering framework; CF2 product management;
- leading the professional services team
- successful migration of the distributed European services team from individuals who undertake small OmniMark programming tasks, to a professional team that handles complex and diverse content engineering projects
- senior management and director of the Belgian office

**1991 – 2001 Research Group on Document Architectures (KUL)**

**Research engineer and project-lead**

- information modelling (SGML and XML DTD design, database design)
- development and integration of various SGML/XML applications
- tools analysis (SGML/XML authoring solutions, middleware solutions, content management systems)
- teaching various XML related courses and OmniMark programming courses
- project-management and technical lead in large international projects, mainly funded by European Commission research funds
- technical lead of the Research Group

### **University Education:**

- 1985-1991: Electromechanical Engineer (specialisation Electronics, micro-electronics), "Katholieke Universiteit Leuven" (Catholic University in Leuven)

### **Certificates:**

- NetKernel Training (2006, March: <1060> Research, 2 days)
- The Value Based Approach; Solution Based Selling (2004, October: MCE, 3 days)
- Topic Maps for Business (2001, January: Ontopia, 2 days)
- OmniMark Web Application Development (1998, July: OmniMark Tech., 3 days)
- OmniMark Programming 1 (1998, June: OmniMark Technologies, 4 days)
- HyTime (1996, October: High Text, 3 days)
- Various courses and seminars (1 day training) on topics including SGML, XML, Xlink, CSS, DSSSL, XSL-FO, XSLT, XML Schema, RelaxNG, Schematron, XForms, RDF, SKOS, OWL, XProc, XQuery...

## **Skills**

### **Analysis and Design**

Very good analytical skills. Excellent communication skills. Qualified to translate customer requirements into robust designs and develop solutions that lead to a high degree of customer satisfaction.

### **XML**

Long term experience and excellent knowledge in the XML standards application field. Thorough understanding of different schema languages (DTD, W3C Schema, RelaxNG, Schematron). Excellent XSLT, XProc and XQuery development skills. Fair amount of experience with XML publishing standards (CSS, XSL-FO) and various technologies such as SVG, XForms, SOAP, XML-RPC, RDF,...

Working knowledge of the integration of authoring environments (such as Oxygen, XMetaL,...), XML databases (Berkeley, XBase, ...), web publishing frameworks (Rails,...), enterprise search and content management systems.

### **Development**

Excellent developer, well acquainted with various programming languages, selecting the best of breed for the task at hand: Ruby, Python, JavaScript, SQL, OmniMark.

Strong supporter of Resource Oriented Computing and REST Web Services. Well experienced using NetKernel.

### **Training**

Extensive teaching and course development experience. Highly respected trainer for organisations such as Learnit (NL), SAI, KULeuven Mediacentrum, KULeuven XML Post Academic Education, ...

Training Portfolio includes topics such as XML in general; various XML schema languages; information modelling; XSLT; XPath; Ruby and Ruby on Rails,...

### **Various**

Active member of the W3C, XProc NEXT Community Group (<https://www.w3.org/community/xproc-next/>), writing the community-driven effort to define an XProc 3.0 specification.

XML London conference organizer and program committee member (<http://xmllondon.com/about>)

***Selection of Projects (as independent consultant)***

<b>Title</b>	Erfgoedbank	<b>Date</b>	04/2006 – 01/2007
<b>Customer</b>	Provincie Limburg - PCCE	<b>Partner</b>	Amplexor
<b>Project Description</b>	<p>PCCE manages the cultural inheritance of the province Limburg.</p> <p>Design and development of a state-of-the-art database of all metadata about cultural inheritance objects that can be found in museum and churches all over the province. Migration of all sorts of catalogues to XML format, relating nouns found to terms from the AAT ontology. Storage of the information in a knowledge base (Mondeca ITM) and delivering the information with advanced navigation and filtering (Sidrean Seamark).</p>		
<b>Responsibilities</b>	Migration of the various catalogues and quality control automation; analysis and development		
<b>Skills</b>	NetKernel, XSLT2, XQuery, SQL, MS SQL Server, SOAP, RDF, OWL, Python, Ruby on Rails		

<b>Title</b>	Faceted Navigation Pilot	<b>Date</b>	11/2006 – 03/2007
<b>Customer</b>	Swift – User Documentation	<b>Partner</b>	Amplexor
<b>Project Description</b>	<p>Swift – User Documentation Department publishes manuals and information for users of their software worldwide.</p> <p>Analysing the requirements for a metadata based search, navigation and filtering application, allowing various users of a huge documentation set, to easily locate the relevant documents. This project led to a faceted navigation prototype, fit for DVD and web.</p>		
<b>Responsibilities</b>	Business Analysis, Functional Analysis, Architectural Design and Prototype Development		
<b>Skills</b>	XSLT, Ajax, JavaScript (and Sarissa), CSS		

<b>Title</b>	Moworxflow3	<b>Date</b>	11/2007 – 02/2008
<b>Customer</b>	Kluwer	<b>Partner</b>	Crius Group
<b>Project Description</b>	<p>Kluwer is a publisher of professional information.</p> <p>Setting up a workflow that allows authors to change XML texts exported from a content management system, using MS Word and check them back in as XML. The application consists of an XML to Word transformer, a Word to XML transformer and a dedicated authoring environment developed using Word macros.</p>		
<b>Responsibilities</b>	Analysis, Architectural Design and XSLT Pipeline Development		
<b>Skills</b>	XSLT2, MS Word XML object model		

<b>Title</b>	LocateTV	<b>Date</b>	12/2006 – 07/2009
<b>Customer</b>	LocateTV (UK)	<b>Partner</b>	onTV Europe
<b>Project Description</b>	<p>LocateTV lets you find TV shows available where you live in the world, be they on broadcast TV, online or on recorded media.</p> <p>Setting up an information gathering system for metadata on television shows that can be purchased from various sources. Information is gathered by web-crawling the sites of the content providers, by using there APIs and web-services or by parsing manually uploaded files, in various formats. The information is transformed to XML documents and stored in an XML database. Since the data-set is huge and changing daily, special care has been taken for quality control and reporting statistics.</p> <p>There is a daily feed of the information for upload on the LocateTV site, with special attention for modifications and expiry.</p>		
<b>Responsibilities</b>	Functional Analysis, Architectural Design, Development of the information gathering service and daily feed.		
<b>Skills</b>	NetKernel, Berkeley DB XML, XSLT2, XQuery, Schematron, XML Schema, JavaScript		

<b>Title</b>	Ceres for Print (PoC)	<b>Date</b>	05/2008 – 09/2008
<b>Customer</b>	Wolters Kluwer (LTRE)	<b>Partner</b>	TenForce
<b>Project Description</b>	<p>The objective of the Ceres project is to build a central platform that prepares the content of different CMSes for the publication on different portals. This is a European initiative within Wolters Kluwer. It deals with the complex contents of law and regulations.</p> <p>“Ceres for Print” is a proof of concept, to evaluate the possibility of producing printed pages from the central warehouse, built around an RDF metadata model and XHTML content.</p> <p>Actual print rendering is done by importing XML in InDesign at first, FrameMaker in a second step</p>		
<b>Responsibilities</b>	Analysis, Architectural Design and XSLT Development		
<b>Skills</b>	RDF, SKOS, OWL, RDFa, XHTML, XSLT2, FrameMaker, InDesign		

<b>Title</b>	Ceres - Document Viewer / Browser	<b>Date</b>	11/2008 – 06/2009
<b>Customer</b>	Wolters Kluwer (LTRE)	<b>Partner</b>	TenForce
<b>Project Description</b>	<p>The objective of the Ceres project is to build a central platform that prepares the content of different CMSes for the publication on different portals. This is a European initiative within Wolters Kluwer. It deals with the complex contents of law and regulations.</p> <p>Design and development (in a first phase) of a prototype for viewing documents in the Ceres Warehouse, and for viewing metadata and relations, expressed in RDF</p> <p>Business analysis (in a second phase) for a browser into the warehouse, including data flow monitoring, content viewing, thesaurus navigation. Project results in wire-frames and documentation. Driving the development team to develop the browser.</p>		
<b>Responsibilities</b>	Business Analysis, Functional Analysis, Architectural Design and Prototype Development, Team Lead		
<b>Skills</b>	RDF, SKOS, OWL, RDFa, XSLT, Ajax, JavaScript (and Sarissa), CSS, business analysis tooling		

<b>Title</b>	Ceres Warehouse - Extraction	<b>Date</b>	03/2009 – 10/2012
<b>Customer</b>	Wolters Kluwer (LTRE)	<b>Partner</b>	TenForce
<b>Project Description</b>	<p>The objective of the Ceres project is to build a central platform that prepares the content of different CMSes for the publication on different portals. This is a European initiative within Wolters Kluwer. It deals with the complex contents of law and regulations.</p> <p>Business analysis for a methodology to deliver content from the Warehouse into different portals, realising the complexity of the metadata, relations and time variants. Design of a build-rule driven export architecture.</p> <p>Development of a Proof of Concept for extracting the Warehouse data to one particular example portal</p>		
<b>Responsibilities</b>	Business Analysis, Functional Analysis, Technical Analysis, Data Analysis, Architectural Design, Prototype Development and development of the transformation pipeline		
<b>Skills</b>	RDF, SKOS, OWL, RDFa, XSLT2, XProc, SPARQL, Schematron, W3C Schema, business analysis tooling		

<b>Title</b>	Eurovoc	<b>Date</b>	05/2009 – 09/2009
<b>Customer</b>	OPOCE	<b>Partner</b>	TenForce Mondeca
<b>Project Description</b>	<p>Thesaurus Management and Dissemination System.</p> <p>Developing the PDF for download and print as part of the dissemination system. Export of thesauri in all languages of the European Union. Transformation of the exported XML into XSL-FO</p>		
<b>Responsibilities</b>	Data Analysis, XSLT and XSL-FO development		
<b>Skills</b>	XSLT2, XSL-FO, RDF, SKOS		

<b>Title</b>	Automatisatie Staatsblad	<b>Date</b>	07/2009 – 01/2012
<b>Customer</b>	Wolters Kluwer Belgium	<b>Partner</b>	Crius Group
<b>Project Description</b>	<p>PDF conversion into SGML.</p> <p>Developing tools for transformation of PDF (after scanning) into SGML. PDF contains legal information from “Belgisch Staatsblad” and published European Legislation.</p> <p>Developing tools for extracting references to older laws, and for consolidating laws.</p>		
<b>Responsibilities</b>	Technical Project Management, Team leader, Coach, Data Analysis, Architectural Design, OmniMark development		
<b>Skills</b>	OmniMark, XSLT2, SGML, fuzzy matching		

<b>Title</b>	Automatisatie Wetswijzigingen	<b>Date</b>	10/2011 – 05/2013
<b>Customer</b>	Wolters Kluwer Belgium	<b>Partner</b>	Crius Group
<b>Project Description</b>	<p>Automated coordination of changes to published law.</p> <p>Developing a workflow that extracts the indication of changes to law from official law publications (“Belgisch Staatsblad”), tabularize the changes for editor review and coordinate the laws (XML format) automatically from the edited tables.</p> <p>Challenges are changes to law with execution date in the future and regionalization of laws.</p> <p>Special attention given to testing and regression testing due to the complexity of project and project duration.</p>		
<b>Responsibilities</b>	Technical Project Management, Functional Analysis, Data Analysis, Architectural Design, XSLT2 development		
<b>Skills</b>	Python (workflow and extraction), XSLT2		

<b>Title</b>	SPARQL connector	<b>Date</b>	04/2012 – 07/2012
<b>Customer</b>	Dutch Government	<b>Partner</b>	ProXML
<b>Project Description</b>	Connector integrating a SPARQL endpoint with a home-grown application		
<b>Responsibilities</b>	Development		
<b>Skills</b>	NetKernel, SPARQL, XSLT2		



<b>Title</b>	Ordex Reporter	<b>Date</b>	10/2011 – 04/2013
<b>Customer</b>	Ophileon	<b>Partner</b>	-
<b>Project Description</b>	<p>Reporting service for a linked data system.</p> <p>Design and development of a reporting service. Users of an hierarchical linked data system (information on countries, provinces, cities, ...) can send a report description (XML definition of the report layout, including complex functions on table columns for BI purposes) to the service and retrieve a report in various formats including excel, json, PDF and RDF Linked Open Data.</p> <p>Challenges are the processing of a massive amount of individual data points.</p>		
<b>Responsibilities</b>	Business Analysis, Functional Analysis, Architectural Design, XSLT2 development		
<b>Skills</b>	NetKernel, XSLT2, function parser development, RDF		

<b>Title</b>		<b>Date</b>	08/2012 – 04/2013
<b>Customer</b>	Mplus	<b>Partner</b>	TenForce
<b>Project Description</b>	<p>Transformation service for mobile platform.</p> <p>A major mobile operator and a number of content publishers (newspapers, magazines, TV, e-books, comics) joint forces for providing a subscription service for various sources of information on tablets and mobile phones.</p> <p>Development of a transformation service that pulls out the metadata into RDF and transforms the actual content in HTML5 for a uniform delivery to the mobile platforms.</p> <p>As a side project, developed the PDF invoicing for the mobile operator</p>		
<b>Responsibilities</b>	Development		
<b>Skills</b>	XSLT2, HTML5, RDF, EPUB, Mobile development, XSL-FO		

<b>Title</b>	Schweizerisches Literaturarchiv	<b>Date</b>	04/2013 – 05/2014
<b>Customer</b>	Nationalbibliothek (CH)	<b>Partner</b>	MSSC (CH)
<b>Project Description</b>	Automating the PDF generation of the descriptions of collections and archives of Swiss writers. Challenges include the interpretation and layout of a multitude (thousands) of tables, all having an unpredictable number of columns (flexible table creation from non-tabular data)		
<b>Responsibilities</b>	Analysis and development		
<b>Skills</b>	XSLT2, XSL-FO		

<b>Title</b>	SGML PDF and Word PDF	<b>Date</b>	02/2014 – 02/2016
<b>Customer</b>	Indicator	<b>Partner</b>	
<b>Project Description</b>	Automating the PDF generation of FL Memo books from SGML. Challenges include the specific layout of the printed books. Design and development of an MS Word to XML round-trip, with the purpose of using MS Word for authoring (external authors), proofing and semantic tagging (in house) and storage, but allow automated HTML and PDF generation using XSLT and XSL-FO.		
<b>Responsibilities</b>	Analysis, Architectural Design, Development		
<b>Skills</b>	SGML, XSLT2, XSL-FO, MS Word XML formats		

<b>Title</b>	ISO20022 Initiatives Report	<b>Date</b>	05/2014 – 10/2014
<b>Customer</b>	Swift	<b>Partner</b>	Amplexor
<b>Project Description</b>	Development of an XSLT/XSL-FO solution for automated generation of the PDF ISO20022 Initiatives Reports from XML		
<b>Responsibilities</b>	Development		
<b>Skills</b>	XSLT2, XSL-FO		

<b>Title</b>	Semantic Web Gate	<b>Date</b>	06/2014 – 01/2016
<b>Customer</b>	European Commission (DG Sanco)	<b>Partner</b>	Trasys
<b>Project Description</b>	Integration and enterprise level upgrade of 11 pilot projects that offer a Linked Open Data interface to the European Commission Health and Consumer Data. Providing industrial strength models and means for generating RDF, managing semantic data and publishing Linked Open Data.		
<b>Responsibilities</b>	Application Architect		
<b>Skills</b>	SPARQL, RDF, RDFs, SKOS, OWL, triple stores		

<b>Title</b>	User Manual publications CMS	<b>Date</b>	08/2015 – ongoing
<b>Customer</b>	KIA, Hyundai; Mitsubishi, ...	<b>Partner</b>	Blondé
<b>Project Description</b>	<p>Maintenance of the existing DITA-OT customisations for PDF and HTML; issue resolution; making the entire codebase less error-prone, easier to maintain and better modularized (in a highly demanding production system)</p> <p>Improving reuse in an enterprise scale (20+ car models per annum, 20+ languages including Arabic, Greek, ...) using an enterprise level DITA CMS</p> <p>Introducing process improvements for authoring, topic management and publishing processes. Introducing business rules validation for authors.</p>		
<b>Responsibilities</b>	DITA Application Architect; Business analyst		
<b>Skills</b>	DITA, DITA-OT, XSLT, XSL-FO, Schematron		

<b>Title</b>	Technical Manual publication	<b>Date</b>	10/2015 – 02/2016
<b>Customer</b>	(not to be revealed)	<b>Partner</b>	SDL
<b>Project Description</b>	Greenfield development of two DITA-OT customisations for PDF (using PDF2 plugin) and HTML Help (using Suite-help plugin)		
<b>Responsibilities</b>	DITA Stylesheet development		
<b>Skills</b>	SPARQL, RDF, RDFs, SKOS, OWL, triple stores		

<b>Title</b>	LNE	<b>Date</b>	01/2016 – 08/2017
<b>Customer</b>	Vlaamse Gemeenschap; Omgeving	<b>Partner</b>	Pro XML
<b>Project Description</b>	<p>Building ETL tooling for RDF generation from various formats including CSV, inhouse XML formats and RDBMS dumps.</p> <p>Building a Linked Open Data visualization on top of the NetKernel LOD publisher.</p>		
<b>Responsibilities</b>	Semantic Application Architect		
<b>Skills</b>	SPARQL, RDF, RDFs, SKOS, OWL, triple stores, XSLT3, NetKernel, RDF/XML, ...		