

Curriculum Vitae

Geert Bormans

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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 (See 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 Architectural 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, MathML and XForms,...

Experienced developer of DITA customizations for PDF, web help and ePub.

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

Semantic Web and Linked Data

Indepth knowledge for building Linked Data architectures. Good modelling skills (SKOS, RDFs, OWL). Skilled SPARQL development.

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; XML schema languages; information modelling; XSLT; XPath; XML business rules; DITA customizations...

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.

Markup UK (London) conference organizer (<http://markupuk.org/committee.xhtml>).

Selection of Projects (as independent consultant)

Title	Erfgoedbank	Date	04/2006 – 01/2007
Customer	Provincie Limburg - PCCE	Partner	Amplexor
Project Description	<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>		
Responsibilities	Migration of the various catalogues and quality control automation; analysis and development		
Skills	NetKernel, XSLT2, XQuery, SQL, MS SQL Server, SOAP, RDF, OWL, Python, Ruby on Rails		

Title	Faceted Navigation Pilot	Date	11/2006 – 03/2007
Customer	Swift – User Documentation	Partner	Amplexor
Project Description	<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>		
Responsibilities	Business Analysis, Functional Analysis, Architectural Design and Prototype Development		
Skills	XSLT, Ajax, JavaScript (and Sarissa), CSS		

Title	Moworxflow3	Date	11/2007 – 02/2008
Customer	Kluwer	Partner	Crius Group
Project Description	<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>		
Responsibilities	Analysis, Architectural Design and XSLT Pipeline Development		
Skills	XSLT2, MS Word XML object model		

Title	LocateTV	Date	12/2006 – 07/2009
Customer	LocateTV (UK)	Partner	onTV Europe
Project Description	<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>		
Responsibilities	Functional Analysis, Architectural Design, Development of the information gathering service and daily feed.		
Skills	NetKernel, Berkeley DB XML, XSLT2, XQuery, Schematron, XML Schema, JavaScript		

Title	Ceres for Print (PoC)	Date	05/2008 – 09/2008
Customer	Wolters Kluwer (LTRE)	Partner	TenForce
Project Description	<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>		
Responsibilities	Analysis, Architectural Design and XSLT Development		
Skills	RDF, SKOS, OWL, RDFa, XHTML, XSLT2, FrameMaker, InDesign		

Title	Ceres - Document Viewer / Browser	Date	11/2008 – 06/2009
Customer	Wolters Kluwer (LTRE)	Partner	TenForce
Project Description	<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>		
Responsibilities	Business Analysis, Functional Analysis, Architectural Design and Prototype Development, Team Lead		
Skills	RDF, SKOS, OWL, RDFa, XSLT, Ajax, JavaScript (and Sarissa), CSS, business analysis tooling		

Title	Ceres Warehouse - Extraction	Date	03/2009 – 10/2012
Customer	Wolters Kluwer (LTRE)	Partner	TenForce
Project Description	<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>		
Responsibilities	Business Analysis, Functional Analysis, Technical Analysis, Data Analysis, Architectural Design, Prototype Development and development of the transformation pipeline		
Skills	RDF, SKOS, OWL, RDFa, XSLT2, XProc, SPARQL, Schematron, W3C Schema, business analysis tooling		

Title	Eurovoc	Date	05/2009 – 09/2009
Customer	OPOCE	Partner	TenForce Mondeca
Project Description	<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>		
Responsibilities	Data Analysis, XSLT and XSL-FO development		
Skills	XSLT2, XSL-FO, RDF, SKOS		

Title	Automatisatie Staatsblad	Date	07/2009 – 01/2012
Customer	Wolters Kluwer Belgium	Partner	Crius Group
Project Description	<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>		
Responsibilities	Technical Project Management, Team leader, Coach, Data Analysis, Architectural Design, OmniMark development		
Skills	OmniMark, XSLT2, SGML, fuzzy matching		

Title	Automatisatie Wetswijzigingen	Date	10/2011 – 05/2013
Customer	Wolters Kluwer Belgium	Partner	Crius Group
Project Description	<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>		
Responsibilities	Technical Project Management, Functional Analysis, Data Analysis, Architectural Design, XSLT2 development		
Skills	Python (workflow and extraction), XSLT2		

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

Title	Ordex Reporter	Date	10/2011 – 04/2013
Customer	Ophileon	Partner	-
Project Description	<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>		
Responsibilities	Business Analysis, Functional Analysis, Architectural Design, XSLT2 development		
Skills	NetKernel, XSLT2, function parser development, RDF		

Title		Date	08/2012 – 04/2013
Customer	Mplus	Partner	TenForce
Project Description	<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>		
Responsibilities	Development		
Skills	XSLT2, HTML5, RDF, EPUB, Mobile development, XSL-FO		

Title	Schweizerisches Literaturarchiv	Date	04/2013 – 05/2014
Customer	Nationalbibliothek (CH)	Partner	MSSC (CH)
Project Description	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)		
Responsibilities	Analysis and development		
Skills	XSLT2, XSL-FO		

Title	SGML PDF and Word PDF	Date	02/2014 – 02/2016
Customer	Indicator	Partner	
Project Description	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.		
Responsibilities	Analysis, Architectural Design, Development		
Skills	SGML, XSLT2, XSL-FO, MS Word XML formats		

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

Title	Semantic Web Gate	Date	06/2014 – 01/2016
Customer	European Commission (DG Sanco)	Partner	Trasys
Project Description	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.		
Responsibilities	Application Architect		
Skills	SPARQL, RDF, RDFs, SKOS, OWL, triple stores		

Title	User Manual publications CMS	Date	08/2015 – ongoing
Customer	KIA, Hyundai; Mitsubishi, ...	Partner	Blondé
Project Description	<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>		
Responsibilities	DITA Application Architect; Business analyst		
Skills	DITA, DITA-OT, XSLT, XSL-FO, Schematron		

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

Title	LNE	Date	01/2016 – 04/2018
Customer	Vlaamse Gemeenschap; Omgeving	Partner	Pro XML
Project Description	<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>		
Responsibilities	Semantic Application Architect		
Skills	SPARQL, RDF, RDFs, SKOS, OWL, triple stores, XSLT3, NetKernel, RDF/XML, ...		

Title	Transformation Service	Date	03/2018 – 08/2018
Customer	De Nederlandsche Bank	Partner	ATOS NL
Project Description	Development of a transformation framework for supporting delivery of reports from XML into XBRL, JSON, SDMX and CSV, based on a Domain Specific Language in order to separate business requirements definition and development.		
Responsibilities	Framework design and development. User training		
Skills	XSLT3 Streaming, XSD1.1, Schematron		

Title	Output Management	Date	11/2017 – 09/2018
Customer	Belfius Insurance	Partner	3D-ICT
Project Description	<p>PDF documents for clients are generated over large XML files from a recently installed “Insurance Sales and Administration System”. This involves hundreds of different documents per insurance product.</p> <p>Tasked with an audit of the output specification processes and the output delivery processes. Implementation (architecture) of the different proposed performance improvements.</p>		
Responsibilities	Application architect – performance.		
Skills	Technical and functional analysis; XSLT3 streaming,		