Curriculum Vitae

- b.n.w -

History;
R1.0, may 2009.

Personal File

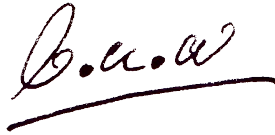**Name:**   Wachowiak, Boris N.

Advantage: University of Applied Sciences Mittweida (1994-1999)
                   Diplom-Informatiker (FH)
                   www.htwm.de

IT Experience: in Lines of Code

Nationality: european
Languages: german, native but a nightmare
                   dutch, for coffee shops
                   french, newspapers
                   spanish, normalmente si
                   english, pp. 2-12

Repertoire

- Software Development

Programming in various languages, object-oriented, 3GL, 4GL, 5GL, domain-languages
- ✓ **JAVA**, **XML**, XSD, **XSL**, **Formatting Objects**(FO)**, XPath**, Javascript
- ✓ Template & Scripting-Sprachen: VTL, Ruby, JSP, Tcl/TK, Perl
- ✓ **Bash**
- ✓ SQL
- ✓ UML, OCL
- ✓ C/C++, Basic

Database Management Systems
- ✓ **Oracle** 8i, 9i and 10g
- ✓ MySQL
- ✓ XHive, Xindice

Architecture and Systems Engineering
- ✓ Application Server
- ✓ **Frameworks**
- ✓ **Tomcat**
- ✓ free designs
- ✓ **design patterns**, n-tier applications, J2EE

Tools and Frameworks
- ✓ **Eclipse**, **ANT**, Mantis, **Scarab**, MyEclipse, **subversion**, javancss, jdepend, dependometer XMLSpy
- ✓ **FOP**, Xalan, **Saxon**, Apache-Xerces und Xalan, **Jakarta-Commons**, JAXB, log4j, Velocity, Struts, JConfig
- ✓ AntLR, JavaCC
- ✓ **Babeldoc** – code-base for pipelining problems
- ✓ JBoss
- ✓ **OpenOffice** (Writer, Calc, etc.)
- ✓ Poseidon for UML, AndroMDA, **Magicdraw UML**
- ✓ GIMP

Operating Systems
- ✓ **Linux**: Debian, **(K)u**buntu, Knoppix, Suse, plus KDE
- ✓ MS-DOS, plus Windows
- ✓ MacOS, OS/2
- ✓ Solaris, SunOS
- ✓ HPUX, AIX and others

Hardware History and Preferences
- ✓ Atari 800XL, Apple IIe
- ✓ IBM Compatible(s)
- ✓ Apple Macintosh 7500/PPC
- ✓ Sun Ultrasparc 10, E450, Workstations and similar
- ✓ Hewlett Packard WS, VAX
- ✓ Sony A117S, Fujitsu Siemens P7230, Asus eeePC 901
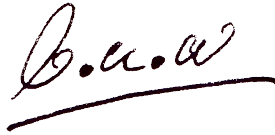
.. <u>continued</u>

- Generative Programming

    Theory of Generation
    - ✓ product line engineering
    - ✓ component technology and theory
    - ✓ **framework building**
    - ✓ **generator standard architectures**
    - ✓ design of pattern
    - ✓ problem oriented modeling and program assembly

    Practice
    - ✓ templating tools; velocity et.al.
    - ✓ parsers
    - ✓ cots adaption (close to patterns), commercial and **Open Source COTS**
    - ✓ integration of process supporting tools(for **metrics** and others)
    - ✓ regular expressions

    Design Foundation
    - ✓ domain models and languages in application of modeling languages of all kind (UML, XML, XSD, semi-formal text approaches)
    - ✓ parsing technology
    - ✓ generator frameworks, readymade COTS or custom
    - ✓ **UML**/MDA
    - ✓ Customing Out-Of-The-Box

- Academics

    Problem-oriented Solution Concepts
    - ✓ **Problem Frames**
    - ✓ Domain Theory
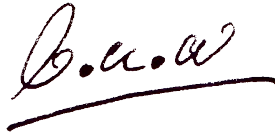   - ✓ Business Rules

    Requirements Engineering
    Feature-oriented Domain Engineering

    Sofzware Architecture in Theory
    - ✓ **Design-/Analysis-Patterns, Idiom**s
    - ✓ Software-Components and -composing methods
    - ✓ Software Re-Use
    - ✓ **Zachman Framework for Software Architecture**

- n.l.p. by spam (reactivated)
    der.cyberpunk@gmail.com → the mass mail season has been reopened.

Projekte / Erfahrungen

since 08/2008	**Excim GmbH (Meiningen, Thüringen)**

Job Description By the climax of spanish summer, teamwork with the excim crew started out of a sudden. As temperatures were like anyone would expect them, the urgence of Mr. Rahe's case caught my attention and after a quick journey into the forrest of thuringia, there were two and a half weeks left to prepare the roll-out at the target company, without permission abbreviated RET, in Cologne. As there can be nothing as interesting like the roll-out of an almost new software package, or having it as the stage of entry, it was fresh mindness that ensured clean installation and signees at the customer's side. For reasons of being familiar with the domain of energy supplying, the codebase hardsaved was the major factor for success.

Excim generates most of it's revenue in the energy sector, traditionally with a portfolio using M$ technology. RET was their first big player, requiring excim to hire more staff, especially java experts. Although the situation watched was critical by nature, everything went fine. An interesting partnership with [Markus Rahe](#) got established, as well by nature.

Part-time since.

Tooling Eclipse, MagicDraw/UML, Enterprise Architect, Jboss, Spring, Babeldoc, Maven, Subversion, VMWare.

Beyond Of course advisory is the main task IT professionals prefer to do. Talking in application of the knowledge gained over years. In particular work captures methods like messenging for project management, aka n.l.p. by spam, advisory on software engineering for product family production in midsize commercials or teaching experience how to extend a developers modeling skills and similar.

deputyship of the chief.

04/2008 - 05/2008	**Daimler Fleetboard (Stuttgart)**

Job Description With the closure of the mail order reports in 2007, literally spoken the stuff ordered became subject to transfer into buyers homes. Fleetboard's business is to support companies with their lorriyfleets, imagine the delivery of goods between places. A telematric box sends data to central servers by mobile phone communication, e.g. SMS. On the serverside, e.g. statistics for petrol usage, driving efficiency, delivery times etc. can be generated from informations stored in a database backend. The software product family, mainly web driven java applications, had various forms.

Filling the hoursheet were there refactorings of productive client components towards modern server communication, translated with SOAP layering within a swing user interface and as a replacement of legacy http layering. Although the requirement to see the software as a family of products lead to identification of framework candidates early on, advisory was an errorprone task. Big deal were the different methods of framework engineering necessary to be established. Hints on generative methods were available, means where they should be used on daily development work.

Final aspect of methodology: model driven development. Hardly seen by then, reengineering models maintained quality in order to get to the point of checkin.
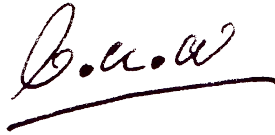
04/2008 - 05/2008   **Daimler Fleetboard (Stuttgart)**

Tools   IBM Websphere, Eclipse, ant, metric-tools(jdepend, dependometer, javancss), Axis, SOAP. JaxME, JavaWebstart, DB2.

Beyond   Big inspiration for roof-provider projects(mtk: „a never-ending story"), elementary bricks are useful from the beginnings. Build scripts, results out of former projects, get influenced for redesigns to keep the pm-aspects of a developers work maintainable.

Besides practical aspects the bird view on the whole thing gets sharpened. Software Metrics turn out as an integral part not only of the m.t.k. A detail indicator for stable production: documentation, possible to finish by around 60%, critical issue in terms of „heading for wrong directions". Major conclusion: framework building, most important means of engineering to succesful software project, no sufficient one.

last not least: Scrum. interesting, and malicious.

06/2007 - 03/2008   **Homeoffice**

Job Description   In continuation of the year 2006 time was right to further design the theory of generation. The starter document (summer 2006 - „T.o.G. - some ideas") early one made it obivous, how much a follower would be worth doing. Finally „C.f.G. - classification for generation" could be finished. Further outputs, various Cyberpunk stories in application of previously established styles, and as exercises on new office tools in preparation of the main document, handcraft of course. MTK, T.o.G.'s in terms of practitioners saw ongoing design and more.

Add of bricks on long and windy road.

Tooling   professional pens, ball pen, office suite.

02/2007 - 06/2007   **Otto Group (Hamburg)**

Job Description   Subject of matter a system technically reminding of the billing period, 5 years under development and maintenance at the time of project enter. Particular tasks were adjustments of swing UIs, specification of use cases and their realization, honestly patchwork, as serverlogic. Involved about 160 people, a process of development in application of the V model.

Overall target was the replacement of the companies legacy system, called „der Host", a software developed with assembler in the 1970's. Although being a dinosaur the system guaranteed a stable support and management of the warehouse goods. In terms of requirements a modern n-tier design, popular by the beginning of the new century, was chosen. The level of replacement under 40% and reason enough for another try of a new system that started meanwhile. Too rigid, better insufficiently understood process guidelines left architectural and technological dead ends. Evolution of the software in terms of the original objectiv absolutels impossible. Nothing but general indicators for failed software projects could be derived.

02/2007 - 06/2007   **Otto Group (Hamburg)**

The work's focus arised from the direction to identify a software's bug patterns as general weaknesses and similar to the ones of the billing sytems period, see later on.. For political reasons - concurrency of internationally operating junior consultants – exclusion from the project became reality after 3 months. Afterwork with the expert's opinion followed, including a proposal for the round of assembler ages overcome. Further details, known hardly.5

Tooling   Eclipse, Synergy/Continuus CM-Werkzeuge, TOAD, Oracle8, SQL, Java Webstart, BEA Weblogic. MS-Outlook&Office-Suite, Rational Rose, V-Model.

Beyond   Results for more development of m.t.k., hardly to be seen. Primary work advisory, usage of professional and other tools, own grown codebases all not possible. Code and Frameworks were restricted to inhouse stuff, administration did not allow different. Anyway a project with influences on generation theory.

The Otto project delivered technical expertise regarding the importance of software metric toolkits for insurance of quality. The fact of their role for clean documentation became obvious as a by-result. Not to forget the limits of the german V-model and use case driven software production on the large.

Extremely political indeed.

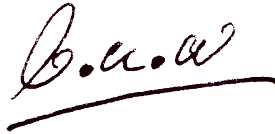01/2006-09/2006   **Chemnitz located Software House**

Job Description   For the proven benefit of the customizing out-of-the-box principle, it became necessary to transfer knowledge.Developer colleagues needed to be trained upon generator strategys as the in-house software REMARC saw a raising amount of requirements of data layouts. More concrete, integration of the pdf creation process into Iman-Portal/TeamCenter-Engineering Environments. Remarc buyers historically are manufactoring firms, partners of the teamcenter owners unigraphics solutions(today part of Siemens) in countless cases.

Transfer of engineering knowledge concentrated on FOXF, a developers toolkit suited to solve reporting problems the Jackson way, realized during commercial projects in a four year timeframe. Longly postponed documentation became finished under the regime of providing hand scripted and practical examples.

Colleagues stayed domiciles spread across the republic, so the google-talk messenger became central means for project related commmunincation, which became more systematic besides, and in opposition to the in-house quality ISO implementation. E-Learning for real world helped generating reusable documentation, such as analysis artefacts like features and/or requirements reflecting arc customer's needs.

Tooling   Iman-Portal/teamcenter-engineering, Saxon-XSLT, FOP, Jakarta-RegExp, Apache libraries, Google-Talk, eclipse, ant, ant-contrib, metrik-tools, scarab, svn.

Beyond   framework-design, evolutionary refactoring, knowledge and technology transfer into enterprise, application of chatting software for project management. introduction and traning of requirements analysis methods, extension and design of generator solutions for new problem frames, generalization for customer reports as standalone components in terms of installation and maintenance by application of design patterns. knowledge exploration of the chief role importance, or what happens if none is around.

08/2004 – 02/2006	**Europrop International GmbH**
	(Torrejon de Ardoz - Communidad de Madrid, Stuttgart, Cologne)

Job Description   A requirement typical for IT Projects independent of a particular business wre print reports for structured layout of enterprise data. The customer selected Teamcenter Enterprise, a PDM/PLM system for document management and support of workflows, for the case of plane construction.

For documentation and communication aspects out of and between various departments some 30 reports were required. As EPI is a joint-venture of big enterprises like Airbus Military, Rolls Royce, Snecma Moteurs and ITP, layouts were sometimes extremely different, depending on the types of users and their particular department. Steadily changing of course.

The solution's design dounded on a couple of open-source products. XML in general, Apache FOP, Saxon XSLT and a couple of small components for specialized requirements and additionally a reporting domain language (abbr. DL) created earlier. The DL's objective: maintenance of custom layouts with flexible development cycles.

Early problems of the software were solved soon and the project got stable due to professional teamwork. At the period's end software releases had higher acceptance on the customer's side, a result of agile management and the replacement of the RUP model, preferred by UGS.

Teamicide at the end, people are fallible with the end of the project in terms of the software product.

Tooling   Apache FOP, Saxon XSLT, Jakarta Regular Expression, Teamcenter Enterprise, IBM Websphere, Tomcat and others. ant, eclipse, cvs, svn, ant-contrib, XMLSpy, Mantis.

Beyond   With respect to the large collection of reports, the developers work finally had to be divided into two parts. One daily project tasks, another for development of rather individual developer's use cases. Development Meta Frameworks out of predecessor projects, with FOXF as an integrational part helped on doing business.

A requirement With a huge inspirational effect dealt with the problem of having exchangeable instances of reports, called plug and Play for buzzword audiences. The ant-script module library got it's early components and turned out pretty useful later on, software engineering for scepticists.

various milestones of T.o.G.: enter.

06/2004 – 2005	**HSH Nordbank(Kiel) / Projekt Team Eberl GmbH(Dresden)**

Job Description   Running software extension, a long grown web application for requirements on BAT II project and credit approval caught a colleagues attraction for quite a few years. A J2EE server used to manage the infrastructure, with a tomcat and struts driven design. The database layer appeared to be typical, using Oracle DBMS Software. Main subject of interest was the integration of PDF generator components, this time for bankers people. Refactorings of existing layouts into a XSL/FO based solution was very similar to other projects and established a small collection of reporting components.

Most interesting part were technical points of view and the question how software components off-the-shelf. web-searched in case you need something, allow even tricky situations to be mastered.
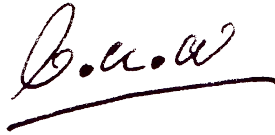
06/2004 – 2005   **HSH Nordbank(Kiel) / Projekt Team Eberl GmbH(Dresden)**

Tooling Tomcat, Struts, FOP, Saxon XSLT, jakarta betwixt, Oracle8

JBuilder, ANT, Eclipse, and so on.

Beyond Creation of custom pdf reports, including refactorings of individual banking application, providing lessons for the follower project. Especially understriking the role and importance of refactoring as a tool for programmers in any project, commercials by the way.

Further specification of a common reporting problem frame took playe. The extension of the framework specialized on reporting problems could be realized with first generators: a factor of success starting on spain as a projects. Prerequisite to escape the republic.

Project with bits of fun.

05/2002 - 02/2005   **TeleContact GmbH (Frankfurt)**

Job Description Worldwide deregulation of telecommunications markets and others by the beginning millenium made development of billing systems look promising. Although the new economy's crash an interesting problemt for computer science, as cash flow had to go on anyway. The TK provider TeleContact historically focused on inter-carrier business, thus having switches located in various countries. An examplary participant of internationl calls was E-Plus, taken out of memory.

Using the Vectriz C2C Software, copyleft of an old colleague called „Doc", new requirements of the company's Billing Account Managers (abbr. BAM) enlightened him to stay strong while still together. Supporting him with his daily tasks meant to engineer a solution for the import of Call Detail Records (abbr. CDR), billing relevant data, 200K per day. In accordance to standardized formattings depending on the type of switch used, CDRs occur as text-based CSV files, in the beginning the data was binary, all forcing to design a flexible application aware of changes at any time. The design as chosen was a composition of opensource components. E.g. Babeldoc to configure pipelines for importing processes, parser generators and anything useful from the Apache/Jakarta sites. Automatic import into the C2C's database of regular file archives got realized developing stepwise transformations to trace the sequence from binary raw data or CSV records into XML, filtered with XSLT scripts to prepare SQL batch commands as required. Input formats changed frequently, Walter on the phone regularly.

poor him.

Tooling Babeldoc, Jakarta Regular Expression Processor, Xalan, Xerces, Saxon XSLT, Oracle JDBC, XPath, JFlex, JavaCC, AntLR, Ant, Eclipse, XMLSpy

Beyond Of interest for problem orientation principles were developer frameworks and APIs with domain specific recurring functionality. Nothing special though how developers create their own toolkits, just did the collection of database functions for batch processing or complex regular expression requirements fit better to the problem frames „pipelining" and „transformation". a design closer to the operating system layer than usual turned out to be pretty easy for the system's user.

else: inhalating application of agile methods.

<u>09/1999</u> - <u>03/2002</u>	**Employee of Vectriz Solutions GmbH (Chemnitz, Leipzig, Frankfurt)**

Job Description Due to the mentioned liberalization of tk and utility businesses as a collective we started in autumn '99 with analysis, design and programming of software suited to print the bill. Venture capital driven the big output was a two-tier database application build upon Oracle, with java-swing user frontend. The main seller was named U2U, utility to utility, with a solid base of customers, just too few customers changed their energy supplier. EON overstressed the replubic slightly with their yellow commercials confusing.

The longly avised flagship called Merlin reached two states of prototypes. The first demonstrated what a solution for a market independent universal niller better should not look like. The chose development software war the Forté application server, back then a proprietary programming toolkit completely outdated. Anyway it allowed for the development of demo functions framed by an executable model.

Having asked for an report of expertise, EJB prototypes emerged until the companys end. Time outlived the interesting ideas of two former AT&T managers(http://www.avigato.de/tilmann.html & http://www.jr-management-consulting.de).

Another chance to become billionaire disappeared, but the stories collected gained years of experience in terms of an engineer's knowledge. With java and xml technologies „real" software could be created, even if it was clear beforehand, that the buy-out of the application server know-how from Forte by Sun would lead a certain direction, and more closer to what the company's history was about. Application servers were about to become serious technology, java already was established as a development operating system and which became more and more popular in the programming world.
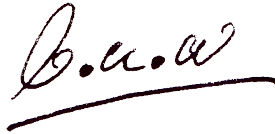
After voluntary but excessive demands freelancing work started in april 2002. The Solution's insolvency happened in may, the head company Vectriz in Leipzig went insolvent early autumn the same year.

Tooling Java, EJB, XML, Xerces, Swing, Javamail-API and others, Visual Cafe, JBuilder, Forté, Continuus, PVCS, ArgoUML, Ideomatic UML, XMLSpy, Together, PowerBuilder.

Beyond Most interesting parts of the Vectriz years were views of apprenticeship. Commercially requested frameworks resulted besides others, main prog: an interpreter toolkit for database frontends, with domain- configuration-languages, modeled as XML dialects.

XML processing software available at the time connected hundreds of UI widgets with the underlying data- and server-layers(Swing/Servlet/JDBC). Early ideas of problem-oriented generator approaches started rolling, as well as the idea of the principle to just divide a programmer's work into two parts.

While programming was the main work to deal with, tasks were given to partner companies. Today called off- or nearshoring, development at geographically independent locations became reality by that(Frankfurt, Chemnitz, Leipzig and Lviv/Ukraine). Developers coordinated their work with the ICQ messenger.

03/1996 – 09/1999   **Werkstudent in der Werkstatt für Design und Informatik (WDI, Chemnitz)**

Job Description   Early years. Starting with an obligatory six mont practical term, time was short to apply university knowledge in the real world. The WDI, a small company headquartered in the TCC – Chemnitz (Technologiezentrum), dealt with software services for engineering and manufactoring businesses. In particular this meant the creation of CAD/CAM addons.A close partnership with Applicon/Schlumberger ensured a solid base for WDI to sell the REMARC productline, a set of software to enable a constructor to work with standardized DIN- and ISO-parts within their CAD system of choice. Besides the Applicon one REMARC integrated with market leading CAD products, and, too, with AutoCAD.

Practical task was a reengineering and refactoring of existing programs with modern technologies. As of the time attended, current design appeared as an application of the monolithic-block design principle, even if various tools and languages combined into it, with the XVT GUI library taken as one example. To be honest we all were a bit ahead of the applicability of java awt and swing user interfaces, but at least REMARC got a real client-server design, functionality kept remaining in C/C++ programs, besides Fortran for math operations. Big advantage of the company's new focus on java was the platform independence the language became famous for. Although, and another story of real life, getting it run at WEMA Vogtland wasn't that easy for reasons of SunOS. Smartsolving for president, X11 export and now the students were sure why the profs taught us the unix way.

Second part, the research project ERBUS, an ontology application to process an ergonomist's knowledge. Interesting though, and additionall sample for the strength as well the weaknesses of java. Most interesting features of the solution created were customization of GUI widgets using a dialect of HTML designed against the problem and a cornerstone of XML expertise all the years down in later projects.

Closng time, diploma thesis on software engineering with public acknowledgment in the year when the company got renamed as „Vectriz Solutions“, 1999.
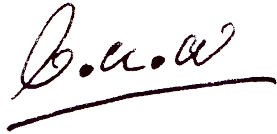
Tooling   VisualCafe, JDK, PVCS, more.

the rest(..)

2002/2003   **Rheinmetall Waffe &Munition (Unterlüß) und andere**.

collection of custom reporting problems / first steps of a toolkit ; generalization of common frame. programming of XSLT–API for transformation of XML data into FO structures. Refactoring of scripts into full-blown framework later; important experiences with the reporting problem and generalization of it's requirements.

fixed price projects.

Bookmarks.xml

- **Pierre Lévy**
  Collective Intelligence.
  mankinds emerging world in cyberspace;
  Perseus Books, 1997.

- **Suzanne Robertson, James Robertson**
  Mastering the Requirements Process
  London: Addison Wesley, ACM Press, 1997.

- **Ronald G. Ross**
  Principles of the Business Rules Approach
  Addison Wesley, Pearson Education, Boston, 1999.

- **Michael A. Jackson**
  Problem Frames.
  A Lexicon of Software Practice, Principles & Prejudices;
  New York: ACM Press, 1995.

- **Nyanaponika Mahathera**
  Ein edler Freund der Welt – Gedenkschrift;
  Jhana-Verlag, 2002,

.. anything else:

- **Sparetime.**

  Crazy dudory to pray a pistols song.

  $m_rooturl = http://bnw.twoday.net/

- **Stuff.**

  see above link, Glossary, thread-name "Business".

  goto:
  concat($m_root_url, "stories/glossary-business/")

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- **advisory:**

  $m_urlib1 = http://www.openbc.com/hp/Erich_Pawlik
  $m_urlib2 = http://www.avigato.de/erich.html

- **rock'n'roll
  like listening.**