

Gaston VERELST

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Confidential



Microsoft
CERTIFIED
Trainer

Web Development
Enterprise Application Development
Database Administration
Database Development

Microsoft
CERTIFIED
*Technology
Specialist*

SQL Server 2008, Implementation and Maintenance
SQL Server 2008, Database Development

Microsoft
CERTIFIED
Solution Developer

Microsoft
CERTIFIED
Database Administrator

Microsoft
CERTIFIED
Systems Engineer



Gaston VERELST

Personal data

Name

Gaston VERELST

Coordinates

FAQ.be bvba

Gaston Verelst

Groenstraat 32

B-2570 Duffel

+32 475.304.804

✉ Gaston@f-a-q.be

www.msdev.pro

<http://www.codeproject.com/Article/s/1072575/Is-Testing-A-Waste-Of-Time>



Best "Everything Else" Article of January 2016 (Second Prize)

Date of birth

9th of July 1967

Education

Professional Bachelor IT

Open University certificates:

- Discrete Mathematics A & B
- Continuous Mathematics
- Inner workings of computer systems
- Model-driven development
- OO programming in Java
- Programming web applications – client side
- Human – computer interaction
- Computer internals
- Object oriented analysis and design
- Development
- Web applications: client side
- Web culture
- Data structures and algorithms
- Functional Programming (Haskell)
- Artificial Intelligence

- Software Engineering
- XML
- Logic for IT
- Formal Languages and Automata

Microsoft certificates:

- Microsoft Specialist: Developing Microsoft Azure Solutions
- MCTS .Net 2.0 Framework
- Windows Applications
- Web Applications
- Distributed Applications
- MCTS SQL Server 2008. Implementation and Maintenance
- MCTS SQL Server 2008. Database Development
- Installing, Configuring, and Administering Microsoft® Windows® XP Professional
- Developing XML Web Services and Server Components with Microsoft .Net.
- Microsoft Visual C# .NET and the Microsoft .NET Framework
- Analyzing Requirements and Defining Microsoft .NET Solution Architectures
- Commerce Server 2000
- ASP.Net
- C# Windows forms
- Networking Essentials
- MS Windows NT 4.0 Workstation
- MS Windows NT 4.0 Server
- MS Windows NT 3.51 Workstation
- Visual C++
- Certified Solution Developer
- WOSA I + II
- MS Access (&Basic)
- MS Excel (&VBA)
- MS Windows Architecture I
- MS Windows Architecture II

Languages

	Speaking	Under-standing	Writing
Dutch	*****	*****	*****
French	****	****	****
English	*****	*****	****
German	***	****	***

Operating systems

Operating systems

Microsoft Windows

Microsoft Windows Server

Computer languages

C#

VB.Net

Visual C++

Java (some notions)

Data access

Microsoft Entity Framework, SQL, T-SQL, OLE DB, ADO, ADO.Net

Relational Database systems

MS SQL Server (MCDBA)

Analysis and design methodologies

UML

MSF

ERD, DFD

Scrum

MS Specialties

Azure development

.NET

SCSF, WSSF, WCF

Projects

Remarks:

In between projects I have been teaching many courses from the Microsoft Official Curriculum and some self-designed courses. Part of the list of courses that I'm teaching is at the end of this resume. End-dates are approximate. Some projects carry on with some consultancy days.

1/2017 - Now

Customer: Univeg Project:

Warehouse Management System. Global architecture of the WMS. Initially improving the database performance, thereby improving the overall performance of the application. Set up a private NuGet server to start unraveling the application. Working

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out an architecture to make the application scalable and future-proof.

Calculation Engine. Development of additional functionalities in the

5/2016 – 1/2017

Customer: Testaankoop
Project:

Calculation Engine. Development of additional functionalities in the TestAankoop calculators. These calculators use Excel as calculation engine. Our applications provide input parameters to the calculators and receive the output parameters. Currently all the data is contained in the Excel workbooks, which is sub-optimal and not scalable. My assignment is to make this process as performant as possible.

Implemented one of the calculators in F# for documentation purposes. Also, code reviews / code refactoring and simplification; and coaching of the other team members are part of my responsibilities.

Technology:

- VS 2015
- F#, C#, LINQ, EF 6
- SQL Server 2014
- Enterprise Architect
- SpreadsheetGear to interface with Excel

6/2015 – 3/2016

Customer: Digipolis

Project:

A-Welzijn. The current application has become too complex, and is not up to modern standards anymore. Digipolis started rewriting the application as a web based application a year ago, but this doesn't go as smoothly as they want. As an application architect my role is to chart the current problems in the project, and to tackle them in order of priority. I initially created a document describing the high-level architecture of this project. This document reveals a lot of areas where my experience can help to move the project forward.

Then I vastly improved one of the services, as an example for the team (the codebase was **reduced by 95%!**) and currently I am introducing TDD to improve the developer's throughput. To support the management, I created a C/E diagram, which **visualizes the current project problems**, and how we can break some of the vicious circles in the project.

Currently I'm creating an architecture that will allow to deliver faster to the client, and with a higher quality bar.

Technology:

- Stash / Jira
- .Net 5, C# 6
- VS VS2015

1/2015 – 1/2017

Customer: In-house project
Project:

Planning365. A project to maintain the agenda of therapists in the cloud. A therapist can maintain her agenda by specifying which times she is available; customers can then book appointments in these slots. This web application will be released Q1/2016, supported by KEA boot camp (a course about implementing innovation).

Technology:

- TFS / VSO
- .Net 4.x
- VS 2013
- C#, LINQ, Entity Framework 6
- ASP.NET MVC, REST API
- KnockoutJS

10/2012 – 12/2014

Customer: Euroclear
Projects:

1. Easyway. A **key project** for Euroclear. I created the high level technical design that has been successfully implemented. This contains the server topology, communication between different environments via WMQ and web services, capacity plan, enforcing of all the non-functional requirements that need to be implemented.

2. TF Analysis. I performed a code / design review for the current Technical Framework (> 1.000.000 SLOC). Most of it is written in C++,

some in C#. I created a document outlining the weaknesses and designed a strategy to mitigate for this and to improve. As a result of this the codebase has now been **reduced to 300.000 SLOC, an improvement of 70%.**

3. HIS Phase Out. I created a proxy generator that fulfills all the Non-Functional Requirements imposed by a big bank. I also created a program generator for the migration of HIS to web services, **saving 100s of man-days** to the bank.

4. COM+ Phase out. I investigated the possible use of replacement technologies for COM+, which is used a lot at Euroclear. Investigation included "Windows Azure Pack" (WAP) and "Windows Process Activation Services" (WAS). The focus was on creating a strategy to implement WAP in the bank, and verifying how big the impact would be for several departments.

5. White Label application. An example application implementing all the non-functional requirements in a solid way, to be used by other teams as a starting point for their MVC development.

6. Coaching and knowledge transfer

Technology:

- TFS
- .Net 4.x
- VS 2012, VS 2013
- C#, LINQ, WCF
- ASP.NET MVC, REST API
- WAP, Microsoft Azure

9/2009 – 10/2012

Customer: Toyota
Projects:

1. LMS Tools Suite. Collection of tools for the management of LMS, written in .Net 4.0 with TPL and WPF.

2. LMS Reports. Reports on SSRS 2005. Optimization of the current reports to *increase performance by over 400%.*

3. TESCAR. Follow-up on the Spanish CRM tool. Helping them achieving their performance KPIs.

4. XML Import. Application to import XML data from all the European

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countries into the Toyota Car database.

5. A2P Bridge. Component to read product data from a Java web service, interpret the data and import it into the CarDB database.

5. DOA Sync. Sync users stored in a DB2 database with CertPoint's LMS tool.

6. Flex CRM. Windows Forms application implementing a simple CRM system for the Toyota dealers. Mainly based on SCSF.

7. UIM Notification. Rewrite of a bridging application between the Toyota in-house user management system (TARS) and a learning system (LMS). Using WCF to create the web service and to call TARS web services. Currently this service is synchronizing > **70.000 users and 5.000 organizations** on a regular basis.

8. Viewpoint Sync. Technical design and implementation for the synchronization of car data between the master CarDB database and over 1.000 workstations in the UK. Web service written in WSSF, C# 3.0, LINQ.

Technology:

- .Net 4.0, VS 2010
- .Net 3.5, VS 2008
- C#, LINQ, TPL
- SCSF / WCF / WSSF / WPF
- Enterprise Library
- SQL Server 2005/2008
- XML, XSLT
- Subversion

11/2006 – 8/2008

Customer: Trane (formerly American Standard)

Project:

Creating the architecture for a fulfillment application.

I analyzed the initial needs for the application and selected the frameworks to develop with (SCSF with WSSF).

I created the **framework** for the application, which has been further implemented by an Indian development team. I also created the hardest modules for the user interface and for the web services.

I was the **lead developer** for the framework to be used. I also **managed and coached the development team** so that they could learn the technology.

I managed the daily SCRUM meetings to measure the progress of the project and reported directly to the program manager and to the Steering Committee.

I trained and coached people for using WCF, SCSF, WSSF and XSLT.

Technology:

- .Net 3.0, VS 2005, C#
- VSS 2005
- Infragistics NetAdvantage for .Net
- SQL Server 2005
- WCF (Windows Communication Foundation)
- SCSF (Smart Client Software Factory)
- WSSF (Web Service Software Factory)
- Initially MSF, later moved to SCRUM.

9/2005 – 12/2005

Customer: American Standard

Project:

Top consultancy for the conversion of several SQL Server 2000 databases, and consolidating everything to 1 server. Some 30.000 views and hundreds of DTS packages had to be migrated into another environment. This required a lot of programmatic changes. I also coached the DBA for the database consolidation.

Technology:

- SQL Server 2000
- DTS
- .Net, C#, regular expressions, advanced parsing.

2/2005 – 5/2005

Customer: Vlaamse Gemeenschap

Project:

Application to manage budgets, with complex logic to maintain.

Technology:

- MS Access 2003, VBA

8/2004 – 12/2004

Customer: Nacosa (NATO, Shape)

Project:

Installation program. The program contains some libraries for encrypting / decrypting activation string, and on the server side these strings are checked to see if the application can be installed or not.

Technology:

- InstallShield DevStudio 9 and X
- Visual C++ 6.0
- Visual Interdev
- DNA

4/2004 – 5/2004

Customer: Nuon

Project:

Mailer program. The user can enter a search expression to search in a FAQ database. All the relevant articles are then presented, and by selecting them a mail body is created. The same web-interface then sends the mail to the customer.

Technology:

- .Net framework
- C#
- ASP.Net
- SQL Server 2000
- SMTP components

2/2004 – 4/2004

Customer: Claerhout

Project:

Top-consultancy for building a framework in Asp.Net. I helped them with the use of UML, .Net, and performed the code reviews for the end product.

Technology:

- MSF
- Rational Rose
- .Net framework for POC
- Visual Studio .Net
- C#
- ASP.Net
- SQL Server 2000
- Guidance in use of UML (Visio) and DNA.

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9/2003 – 10/2003

Customer: Virtuology

Project:

Finishing a website in ASP.NET to enable coworkers to enter questionnaires. This was an existing product that required debugging and finishing.

Technology:

- .Net framework
- Visual Studio .Net
- C#
- ASP.Net
- SQL Server 2000
- JavaScript - XML

12/2002 – 2/2003

Customer: JJC Zanshin VZW

Project:

Website with the following features: Discussion board. Hierarchic discussion board to allow members of the site to talk to each other about different subjects.

Dynamic tree control. To navigate easily through the site. Contents come from an XML file for easy maintenance.

Dynamic calendars.

Technology:

- .Net framework
- Visual Studio .Net
- C#
- ASP.Net
- Access database and XML
- DNA

3/2002 – 4/2002

Customer: JJC Zanshin VZW

Project:

Member administration. We want to keep track of the members of a sports club. Who has paid insurance and membership fees, membership and insurance expirations, lists of members, tracking of presence, several lists ...

Technology:

- Visual Studio .Net
- C#
- ASP.Net
- DNA

7/99 – 1/2002

Customer: SCA

Project:

FEM. This project calculates the strength of boxes. The parameters of the box are entered in a web page. Each time the parameters change the picture of the box is adjusted. This is done in VRML. Then they are sent to a server that calculates the box and sends back the results.

The preview of the box is shown in a separate frame in VRML. The results are sent back in VRML as well.

On the server a COM service runs to get the parameters of new boxes and send results back (queuing).

Technology:

- Visual C++ 6.0
- DCOM services using ATL 3.0
- VRML (Virtual Reality Markup Language)
- OCX for HTML
- Visual Interdev 6.0
- ASP, DHTML, IIS
- UML, DNA

7/99 – 8/99

Customer: NATO

Project:

Exchange Client Extension. An extension to force that when sending a message the user is always forced to add a notification to it. This is currently used at NATO, **worldwide**.

Technology:

- Visual C++ 6.0
- COM using ATL 3.0
- Exchange Client Extensions

3/99-6/99

Customer: Verzekeringen Van Breda

Project:

Components in an insurance project. Several components that do data access to a SQL Server 7.0 database. We were working in a team with the internal people and consultants to get the project working.

Technology:

- Visual Basic 6.0
- SQL Server 7.0
- MTS, COM programming
- ADO

1/99-2/99

Customer: Belgian Ju-Jitsu Federation

Project:

Administration of members. Full-featured application to manage the members of the federation. The project presents the user with a full featured GUI (tree view left, splitters, drag and drop ...). The application was written in VC++ 6.0 using MS Access as a database. I made several controls using ATL to have some very specific behavior. I used ADO to access the database.

Technology:

- Visual C++ 6.0
- COM using ATL 3.0
- ADO & DAO
- Crystal Reports 6.5, User Function Libraries
- DNA

9/98-12/98

Customer: Globe Continental

Project:

Stock management application in Windows NT, using SQL Server 6.5. The stock is updated immediately in the database. The GUI conforms to what one expects from a modern interface (splitter windows, toolbars, trees ...).

Technology:

- Visual C++ 6.0, COM
- SQL Server 6.5
- OOAD
- Crystal Reports 6.5, using User Function Libraries

7/98-9/98

Customer: Globe Continental

Projects:

Project in Visual C++ 5.0 for adding functionality to a MS Back office Small Business Server (that I installed and configured, together with all the client PC's).

1. Fax Notifier. SBS does not send a notification when a fax has arrived at the destination. This little NT service checks the Event log and when a 'Fax sent' event comes in, it sends an E-mail message to the sender.

Technology:

- NT Event log

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- MAPI.

2. Fax Client. SBS does not allow faxing files together with a message using Outlook. This Faxclient is based on the Wordpad example and expands it in several ways:

- Page breaks are now supported. Wordpad is based on the RTF control that doesn't support page breaks, FaxClient does.
- Files can be inserted in a protected area of the document, and in a fixed font (Courier). Like that ASCII files retain their columns.
- Added a File | Fax menu item that actually sends the fax.

Technology:

- MFC CRichEditCtrl.
- Small Business Server 4.0

11/97-6/98

Customer: Antilope

Project:

Project performing the pre-calculation of all the expenses in a printing company. The user needs to be able to simulate several scenarios, so the application is a really open tool that permits all options to be changed. The application has been built up from the beginning, using OO techniques for the analysis and the design (Select Enterprise). I did the whole trajectory: from the first discussions with the customer until the implementation of the final application, and the accepting from the users. I did the analysis and I led the development team to a successful implementation.

Technology:

- UML, document / View architecture (pre-DNA)
- MS Visual C++ 5.0 and MFC.
- COM programming to build an interface with Excel and Word documents.
- MS SQL Server 6.5. Stored procedures, triggers, SQL, BLOBs.

Skills:

- OOAD
- Leading a team of developers.
- Functional analysis, design.

2/97 – 11/97

Customer: Generale bank (the biggest bank in Belgium – now Fortis)

Project:

All the projects have been done using Visual C++ 5.0. Some have been ported from VC++ 4.2 to VC++ 5.0. These projects were done as a member of a team of developers.

1. WriteReg. A Windows NT service allowing a user to apply a REG4-file to the registry, impersonated as an administrator, and to launch a command impersonated as an administrator. This allows installing software without being logged on as an administrator. The service is accepting commands through a named pipe.

Technology:

- Windows NT 4.0. Service. Writing + debugging.
- Named pipes for the inter process communication.
- Registry APIs. As well updating the registry data, as changing the security on registry keys.

2. CreateSC. Tool to create shortcuts from the command line. Solves all kinds of problems we had copying a shortcut from one workstation to another.

Technology:

- Com interfaces, IShellLink.

3. Policies. In order to make sure that users can't mess things up on their workstations, we use policies (poledit). Not only we used the existing NT 4.0 policies, but we also created new policy template files for the specific needs.

Technology:

- Editing .adm-files (+ specific syntax)
- Using poledit
- MSDN and Technet to find the correct registry values.

4. PrintPol. Using MFC we display a policy file in a tree control. The user can open one or more policy files in the applications. The policy files can then be printed.

Technology:

- MFC framework (MDI)
- Printing + print preview in MFC
- Registry APIs

5. RegACL. Tool to change ACLs (Access Control List) in the registry in

a very easy and powerful way. Using an INI-file we describe the security settings to be changed in the registry. RegACL interprets this INI-file and sets the ACLs on the concerned keys.

Technology:

- Registry APIs
- Security APIs
- Text / String interpreting
- OOAD

6. G_SetDisp. Tool to dynamically change display settings. The settings are saved per user. The user gets an icon in the taskbar that displays the current settings. By clicking right on this icon the user gets a menu with all possible settings.

Technology:

- Tray messages
- APIs for changing screen resolutions.
- MFC framework

7. SFTView. User interface to a program that does the file transfer from one workstation to another. SFTView is implemented as a Namespace Extension, which is completely integrated in the explorer. I implemented Drag and Drop, Copy / Paste, sort files, different views ...

Technology:

- Implementation of the COM interfaces needed to create a name space extension.
- Encryption API's
- Data Compression Library (PKWare)

8. G_Copyhook. This is a COM interface that prevents a user moving directories from or to network drives.

Technology:

- Implementation of COM interface ICopyHook

9. SFT. For performance reasons SFT (Secure File Transfer) has been rewritten in Visual C++ 5.0. In order to get a maximum performance, we use all OS features of NT 4.0. SFT is a service handling requests that come in through a named pipe. Each request is handled in a separate thread. To limit the number of concurrent threads, a semaphore is used. The requests are placed in a FIFO queue, and then dispatched by a separate thread. To synchronize the access on the FIFO critical sections are used.

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The service is implemented using Visual C++.

Files are transported over a WAN, so we first compress them using the Data Compression Library of PKWare (adding our own CRC mechanism) and then we encrypt them using the crypto APIs in Windows NT.

1/96 – 1/97

Customer: Gemeentekrediet (2nd biggest bank in Belgium, now Belfius)

These projects were done as a member of a team of developers.

Project:

1. XFS (Wosa). Study of Extensions for Financial Services, for the implementation of an XA-compliant printer driver used to print banking transactions.

Technology:

- MSDN
- WOSA

2. GINA. MS-Gina is the DLL doing the security in Windows NT. I replaced the DLL to prevent users from logging on twice in the same domain. For this application I wrote a pass-through DLL that replaces the original one, but still calls functions in it (hence pass-through DLL).

Technology:

- Net API's
- Registry, also on remote machines
- Pass-through DLL

3. Hardcopy. When the user pushes the 'Print screen' key, the screen is immediately printed, instead of being stored on the clipboard for further use. The output comes on a printer of choice.

Technology:

- Keyboard codes
- Control panel applet (to change the settings of the application)
- Eastern eggs ☺

4. License Control System. We want to check that an application is only opened as many times as is allowed in the license agreement. To do that we let every application before starting communicate with the server, that checks the licenses.

Technology:

- Registry (remote)
- Service

- Named pipes

5. Tam Tam. Sometimes the self-banking machine needs maintenance. For that it broadcasts a message that is trapped by this application. The application is always up and running, and waiting for a message.

Technology:

- FSE: an Olivetti product to facilitate the link to the server.
- Threads & Thread synchronization

6. Unattended/Automatic installation.

At boot time the WS first checks on the server if there are any new packages, or patches. If so, the changes are applied first.

7. Conversion 16-bit Pascal - 32-bit Pascal sources.

C++ program to automatically convert these sources. We talk about some 5000 sources in over 400 directories on a server. So it is very important to make the program as performing as possible.

Technology:

- Memory mapped files + asynchronous file I/O
- Text/String processing functions
- Multi-threading
- MS Windows NT 3.51
- MS Visual C++ 4.x

3/96 – 3/96

Customer: Generale bank (the biggest bank in Belgium – now Fortis)

Project:

Short top consultancy job: **Audit** on a MS Visual C++ NT-network application, created by a fellow consultant at the Generale Bank. The system is used by Wfw clients to retrieve currency rates. Several Wfw connect through NetDDE to the NT-Server. The program on the server then connects to a mainframe using SNA. The local database is a SQL server database.

Technology:

- MS Windows for Workgroups 3.11
- MS Windows NT 3.51
- MS SNA Server
- MS SQL Server 6.0
- Net DDE
- MS Visual C++ 2.2

6/95 - 2/96

Customer: Siemens - VDAB

Project:

Senior Technical Consultant for SIEMENS for creating an optical archiving system. As a member of the development team I did the complete OO analysis, OO design, development and the audits of this MS Visual C++ application. The application is used to correct data that have been scanned in and recognized by OCR. In the first phase of the project the data was stored in an Informix database. The data was then recognized and stored in the database, together with the scanned images. Later we changed the database to an Oracle 7 database on a SINIX machine. The application has been built using VC ++ 1.51 and ODBC 2.0 and MFC 2.51. First priority was the speed of the program. It must allow the users to correct as much data as possible as fast as possible. So the code had to be tuned for speed. We used ODBC-tuning, the Windows Idle Loop (as no multi-threading was available yet), etc.

Technology:

- MS Windows for Workgroups 3.11
- MS Visual C++ 1.5
- ORACLE 7
- INFORMIX
- SINIX
- SIEMENS RM-600
- Native ODBC

2/95 - 6/95

Customer: ATEA

Project:

Senior consultant analysis, technical design and implementation for a C++ layer for a PABX. The events that happen for the PABX are handled in a C++ DLL.

(That DLL then sends messages to a VB application (front-end). The application has been written using Borland C++ 4.5.

Technology:

- MS Windows for Workgroups 3.11
- MS Access 2.0 (&Basic)

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- MS Visual Basic 3.0
- Borland C++ 4.5
- Object Modeling OMT (Rumbaugh)
- Paradigm (case tool)

2/95 - 6/95

**Customer: ELECTRABEL
Project**

Some loose consultancy days to create the technical design and the application for the follow-up of the quality standards of works at the customers' sites.

Technology:

MS Windows for Workgroups 3.11
MS Access 2.0
DLLs in MS VC++ 1.52

11/94 - 2/95

**Customer: HBK Spaarbank
Project:**

Data entry application for the agents of HBK Spaarbank. The agents enter their transactions using this application. Every transaction needs to be checked on several validation criteria. When a valid transaction has been entered, it is printed on a (proprietary) printer. The transactions are kept in a database and at least once a day uploaded to a mainframe.

Technology:

- MS Windows 3.1/3.11
- MS Visual C++ 1.5, MFC 2.5
- MS Access
- OMT Rumbaugh
- Greenleaf Comm++

7/94 – 11/94

**Customer: Globe Continental NV
Project:**

Stock management for a shipping agency. The agency must be able to follow all incoming and outgoing stock, and they want to know at every moment in time all about their stock. There are also many lists to be printed and possibly faxed.

Technology:

- MS Windows for Workgroups 3.11
- ODBC Drivers Microsoft
- MS Access 2.0
- MS Visual C++ 1.52
- MS Fax at work
- Object Modeling OMT (Rumbaugh)
- OLE with MS Office 4.3

8/94 – 8/95

**Customer: TCI NV
Project:**

Filing and invoicing system for a shipping agent. They wanted to keep texts, spreadsheets etc together in one file. I created a database in Access that keeps all these documents in OLE-fields. Then I used Access as a front-end for the retrieval of this data. Expenses and incomes are also kept per file, so we can make automatic reports and invoices.

Technology:

- MS Windows for Workgroups 3.11
- MS Access 2.0
- OLE with MS Office 4.2

8/92 - 10/94

**Customer: HBK Spaarbank
Project:**

Data entry application for HBK agents. This is the same application as mentioned above, but in a DOS version. Target platform is a 80286 with 1 MB internal memory.

Technology:

- MS DOS; MS C++ 7.0
- Cscape and Look and feel
- Raima Data Manager
- Greenleaf comm++
- OMT

2/91 - 7/92

**Customer: HBK Spaarbank
Project:**

Analysis and development of a database layer in a UNIX environment. The purpose is to shield the complexity

of Oracle databases from the other developers, so they can concentrate on the functional design of the application. *This development allowed a complex book keeping application to be finished on time and on budget.*

Technology:

- RS/6000, HP-9000
- ANSI C/C++
- OMT (Analysis)
- Oracle 5, later 7
- AIX & HP-UX

7/91 - 11/91

**Customer: HBK Spaarbank
Project:**

Analysis and technical design of a layer to shield the complexity of the combination of Raima Data Manager (a network PC database) and CScape (a library to create C-forms) from the developers, so they can concentrate on the real application.

Technology:

- MS DOS
- Borland C 2.0

4/90 - 7/91

**Customer: Fuji Control Center
Project:**

1. POS System. Analysis and design of a commercial application for managing multiple stores.

All the stores are managed from one PC in one point. The PC is connected (either by modem or through a serial cable) with one or more cash registers. The articles that are represented in the cash registers are first put in the PC, with possibly different prices per store. Then the PC can read the data from the cash registers and treat the data from it, so it can be used in accounting software.

The orders of all the stores are treated as one big order and then sent to the suppliers.

2. Rewrite PC – cash register communication. At Fuji Control Center

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the communication with the cash registers was written in a separate Basic application that had to be modified for every project. This was error-prone and time consuming. It is now replaced by a C library that only needs to be configured to work correctly.

3. POS for supermarket. Analysis and design of an application for managing a super market with several cash registers. This is a simpler version of the above-mentioned application.

4. POS Backoffice. Finishing an application for managing one store with one cash register. This application was used as a back office for an electronic cash register.

Technology:

- MS DOS
- CLIPPER (summer '87)
- D / X3
- C

Instructor overview

After having followed courses to acquire the MS Train-the-trainer skills (MCT), following courses have been taught many times to TOP 100 customers in the Benelux and in France (Paris). Most of the courses are the Microsoft curriculum courses, some of the courses I have created myself.

Methodology

UML / OOAD
Object Relationship Modeling
MSF

Development

.NET framework
.NET languages (C#, VB.NET)
ASP.NET and MVC
WPF / Windows Forms
WCF
C / C++ / MFC / ATL
VBA (Microsoft Access, Office)

SQL Server

Programming SQL Server
SQL Server administration
SQL Server Reporting Services

System

Windows NT / XP / Server
Active Directory

Courses are taught in English, Dutch or French, depending on the language of the students85555555555555.

Some of my Customers

NBB / BNB, Generale Bank (now Fortis), Gemeentekrediet (now Belfius), BACOB, BELGACOM, EDS, Coopers & Lybrand, BARCO, Sony, Sidmar, Siemens, Euroclear, VUB, EDS, CAP Gemini, Dow Jones, CSC, LCI, Infosoft, SCA, Nato, Shape, Capco, Nuon, Ministerie van de Vlaamse Gemeenschap, Toyota, Trane, Goodyear and many others.