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**MY***SERVICES*

**Antoine Geboers**Mattenbies 14  
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April 2017

**ABOUT***ANTOINE*

As a professional he can be characterized as a driven technician with a strong passion for software design and architecture. His many years of experience in this branch combined with his natural creativity guarantee innovative solutions that meet targets and keep customers satisfied.

He likes to think in concepts and translates them into solutions using modern methods like UML, TDD, ATDD and OO. His excellent communication skills often prove a great help in communicating his ideas and vision within the team he is working at. Antoine has a great sense of responsibility, is result-oriented and is accustomed to working under tight deadlines which makes him a valuable member for any development/DevOps team. He feels at home in many different types of environments from small to large teams in various roles ranging from developer to architect.

***His excellent communication skills often prove a great asset***

Antoine is working in the ICT branch since 1991. He started developing software for CAD systems, through a variety of programming languages and techniques including VB, classic ASP and Lotus Notes, he found his way to .NET around 2002 and SharePoint a little later.

***26 years of experience put to work for your project***

***A versatile IT professional with a strong specialization in Microsoft technology***

**LinkedIn**



https://www.linkedin.com/in/antoine-geboers-a87804

**Facebook**



https://www.facebook.com/antoine.geboers

***Social Media***

Antoine is married and has three daughters (16, 13 and 7 years). Besides ICT, his hobbies are playing the guitar and alpine skiing.

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| **Residence**: | Amersfoort, the Netherlands |
| **Nationality**: | Dutch |
| **Date of birth**: | 27-11-1967 |
| **Marital status**: | Married |
| **Place of birth**: | Tilburg |
| **Driver’s license**: | A, B |
| **Gender**: | Male |
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***Personal***

Antoine is a versatile IT professional with a strong specialization in the field of Microsoft technology. In particular, the .NET framework. In recent years, he was almost exclusively occupied with complex large-scale .NET development projects. He has extensive knowledge of the Microsoft product stack and the 'hard-core' coding side of development. His skills also includes test and deployment automation which make him a valuable member of any development or DevOps team.



*.NET C# Consulting and Development*

*Software Design and Architecture*

*UML, Scrum, TTD, OO and Design Patterns*

*Extensive Microsoft product stack Expertise*

*Experienced Lead Developer*

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| Market & Industry Experience | | | |
|  |  | | |
|  | * Oil & Gas | * Public sector | |
|  | * Finance | * Staffing | |
|  | * Insurance | * Health care | |
|  | * Education | * Telecom | |
|  | * Facility Services |  | |
| Functions & Roles | | | |
|  |  | |  |
|  | Lead Developer | | 6 years |
|  | .NET C# Developer | | 15 years |
|  | SharePoint 2013 | | 2 year |
|  | SharePoint 2010 | | 3 years |
|  | SharePoint 2003 | | 3 years |
|  | Design & Architecture | | 7 years |

**Education**

1990 - 1991 - HTS Precision mechanical engineering college in Utrecht / Hilversum.  
1987 - 1989 - MTS Eemvoorde Foundation in Amersfoort – Mechanical engineering.  
1981 - 1986 - HAVO / VWO Rijksscholengemeenschap Thorbeckeplein in Amersfoort.

**Courses**

2012 – 6 months soft-skills training program provided by the firm ‘Carv Company’ commissioned by Portiva.  
2010 - Microsoft SharePoint 2010 app. development   
2006 - Object Oriented Analysis and Design using UML (ANO406)

**Certifications**

2011 - Microsoft 70-515 - Web Applications Development with Microsoft .NET Framework 4

2004 - Microsoft 70-320 - Web Services and Server Components in C#

2004 - Microsoft 70-315 - Developing ASP.NET Applications in C#

2004 - Microsoft 70-316 - Developing Windows .NET Applications in C#

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| Skill matrix | | | | | | | | | | | | | | | | | |
|  |  |  |  | | | | | | |  | | | | | | | |
| **Methods and techniques** | |  | 1 | 2 | | 3 | | 4 | | | 5 | |  | | |
|  | Object Oriented programming | |  | |  | |  | |  | | |  | |  | | |
|  | SCRUM | |  | |  | |  | |  | | |  | |  | | |
|  | Dependency injection | |  | |  | |  | |  | | |  | |  | | |
|  | UML | |  | |  | |  | |  | | |  | |  | | |
|  | TDD / ATDD | |  | |  | |  | |  | | |  | |  | | |
|  | Design Patterns | |  | |  | |  | |  | | |  | |  | | |
|  | MVC / ASP.NET | |  | |  | |  | |  | | |  | |  | | |
|  | Entity Framework | |  | |  | |  | |  | | |  | |  | | |
|  | Windows Workflow 3.x, 4.x | |  | |  | |  | |  | | |  | |  | | |
|  | Sencha Touch (mobile application framework) | |  | |  | |  | |  | | |  | |  | | |
|  | Sencha ExtJS (web application framework) | |  | |  | |  | |  | | |  | |  | | |
|  | SharePoint 2013 development | |  | |  | |  | |  | | |  | |  | | |
|  | SharePoint 2013 App development | |  | |  | |  | |  | | |  | |  | | |
|  | Knockout JS | |  | |  | |  | |  | | |  | |  | | |
|  | Bootstrap | |  | |  | |  | |  | | |  | |  | | |
|  | jQuery/jQuery Mobile | |  | |  | |  | |  | | |  | |  | | |
|  | Angular2 | |  | |  | |  | |  | | |  | |  | | |
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| **Programming languages** | | | 1 | | 2 | | 3 | | 4 | | | 5 | |  | | |
|  | C# | |  | |  | |  | |  | | |  | |  | | |
|  | JavaScript/Ajax | |  | |  | |  | |  | | |  | |  | | |
|  | HTML(5), CSS | |  | |  | |  | |  | | |  | |  | | |
|  | XML, XSL | |  | |  | |  | |  | | |  | |  | | |
|  | C/C++ | |  | |  | |  | |  | | |  | |  | | |
|  | T-SQL | |  | |  | |  | |  | | |  | |  | | |
|  | PowerShell | |  | |  | |  | |  | | |  | |  | | |
|  | TypeScript | |  | |  | |  | |  | | |  | |  | | |
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| Platforms / OS |  | | 1 | | 2 | | 3 | | 4 | | | 5 | |  | | |
|  | Windows 10/98/2000/XP/Vista/7/8/8.1 | |  | |  | |  | |  | | |  | |  | | |
|  | Windows Server 2003 - 2012r2 | |  | |  | |  | |  | | |  | |  | | |
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| Tools/Applications |  | | 1 | | 2 | | 3 | | 4 | | | 5 | |  | | |
|  | Visual Studio 2003 - 2015 | |  | |  | |  | |  | | |  | |  | | |
|  | IIS 6/7/7.5/8 | |  | |  | |  | |  | | |  | |  | | |
|  | SQL Server Management Studio | |  | |  | |  | |  | | |  | |  | | |
|  | MS Office t/m 2013 | |  | |  | |  | |  | | |  | |  | | |
|  | MS InfoPath 2007/2010 | |  | |  | |  | |  | | |  | |  | | |
|  | MS SharePoint Designer 2007/2010/2013 | |  | |  | |  | |  | | |  | |  | | |
|  | Microsoft SharePoint 2003/2010/2013 | |  | |  | |  | |  | | |  | |  | | |
|  | Nintex workflow 2010 | |  | |  | |  | |  | | |  | |  | | |
|  | Active Directory | |  | |  | |  | |  | | |  | |  | | |
|  | Hyper-V | |  | |  | |  | |  | | |  | |  | | |
|  | Photoshop | |  | |  | |  | |  | | |  | |  | | |
|  | SQL Server Reporting Services | |  | |  | |  | |  | | |  | |  | | |
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| Databases |  | | 1 | | 2 | | 3 | | 4 | | | 5 | |  | | |
|  | MS SQL Server t/m 2014 | |  | |  | |  | |  | | |  | |  | | |
|  | Oracle | |  | |  | |  | |  | | |  | |  | | |
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|  | Skill levels | |  | |  | |  | |  | | |  | |  | | |
|  | 1. Basic knowledge and limited experience 2. Average knowledge level with reasonable experience 3. Experienced 4. Very experienced and capable as coach 5. Expert and capable as architect / advisor | | | | | | | | | | | | | |  | | | |

**Experience**

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| **Client:** | NewSparkles (my own company) |
| **Period:** | January 2017 - Today |
| **Branch:** | ICT |
| **Methods and techniques:** | .NET, C#, Visual Studio 2015, Azure App Services and Table storage, GitHub, Visual Studio Team Services, Angular2, CSS, Javascript, HTML5, OAuth, MVC WebAPI, Google API/Google Application Script (GAS) |
| **Role:** | Fullstack .NET front- and backend developer |
| **Summary:** | I have started a project under the WBSO subsidy to develop a generic web application generator that can connect to miscellaneous customer systems such as Office357, Google Drive, OneDrive, Dynamics CRM, SharePoint, etc. With this web app generator it must be possible to generate apps that can offer new functionality in a quick and simple manner based on the client’s backend systems without the requirement of having in-depth technical knowledge or software development skills. |
| **Contribution:** | Architecture, Design and Development |
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| **Client:** | PGGM |
| **Period:** | July 2016 - Today |
| **Branch:** | Finance |
| **Methods and techniques:** | .NET, C#, MS-SQL Server 2014, Visual Studio 2015, SpecFlow, Team Foundation Server, WCF, WPF, SCRUM, TDD, ATDD |
| **Role:** | Senior .NET C# developer, architecture, consultancy |
| **Summary:** | Development of the client’s central application for administering pensions core information. Both maintaining existing systems and building new ones as well. |
| **Contribution:** | Development in an Agile (SCRUM) environment with a strong focus on OO architecture/design best practices like SOLID/DRY/YAGNI/KISS, test-driven development (TDD), acceptance test-driven development (ATDD), specification by example (SBE) and Domain Driven Design. |
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| **Client:** | Dutch Central Bank / de Nederlandsche Bank (DNB) |
| **Period:** | January 2016 - June 2016 |
| **Branch:** | Finance |
| **Methods and techniques:** | MVC, ASP.NET, .NET, C#, MS-SQL Server 2014, Entity Framework 6, Visual Studio 2015, CSS, JavaScript, HTML5, jQuery, Angular2, Bootstrap, TypeScript, MassTransit, RabbitMQ, Elastic Search, XLDeploy, Gulp, NPM, GitHub, Team Foundation Server, SCRUM, TDD |
| **Role:** | Development/Architecture consultant, Senior .NET C# Backend and Web front-end developer |
| **Summary:** | All the work for this project is covered by a confidentiality agreement. For that reason I cannot give any details about the nature of the project. In general it can be characterized as very large by the bank’s standards and with the purpose to develop a system to support one of the bank’s main task. The system is designed to accommodate a vast amount of concurrent users and for that reason it is designed according the CQRS (Command and Query Responsibility Segregation) design pattern which allows for large horizontal scalability. |
| **Contribution:** | Development/architecture consultancy, .NET C# Back/Front-end development and Coaching/Training in an Agile (SCRUM) environment with a strong focus on OO architecture/design best practices like SOLID/DRY/YAGNI/KISS and test-driven development (TDD). |
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| **Client:** | Amijs & Amelis ICT B.V. |
| **Period:** | January 2016 - March 2016 |
| **Branch:** | Mixed |
| **Methods and techniques:** | SharePoint 2013, MVC, ASP.NET, .NET, C#, SQL Server 2014, Entity Framework 6, Visual Studio 2015, CSS, JavaScript, jQuery, Knockout, Bootstrap, HTML5, Team Foundation Server |
| **Role:** | .NET backend/web front-end developer, SharePoint developer, Software Architect, Consultant |
| **Summary:** | Working as an interim consultant to assist with miscellaneous types of projects ranging from SharePoint to .NET, C #, MVC Web front-end. |
| **Contribution:** | Consultancy, Development |
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| **Client:** | Amijs & Amelis ICT B.V. |
| **Period:** | July 2015 - October 2015 |
| **Branch:** | Medical |
| **Methods and techniques:** | SharePoint 2013, MVC, ASP.NET, .NET, C#, SQL Server 2014, Entity Framework 6, Visual Studio 2013, CSS, JavaScript, jQuery, Knockout, HTML5, Team Foundation Server  Note: Created my own version of bootstrap, compatible with SharePoint |
| **Role:** | .NET developer, Web front-end developer, SharePoint developer, Software Architect, Consultant |
| **Summary:** | Development of an application named RIS (Regulatory Information System). This is an information system for storing information related to medicine research. It combines information from external SQL databases with data stored inside SharePoint. The application contains many wizards entirely written with client-side techniques like knockout, jQuery, JavaScript, etc. MVC WebAPI is used to connect to backend services. |
| **Contribution:** | Responsible for the architecture, technical design and development of the application. |
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| **Client:** | Amijs & Amelis ICT B.V. |
| **Period:** | April 2015 - May 2015 |
| **Branch:** | Medical |
| **Methods and techniques:** | MVC, ASP.NET, .NET, C#, SQL Server, Entity Framework 6, Visual Studio 2013, CSS, JavaScript, jQuery, Knockout, Bootstrap, HTML5, Team Foundation Server |
| **Role:** | Development/Architecture consultant, .NET developer, Web front-end developer, Software Architect |
| **Summary:** | Development of an application named VISTRA. This is a training tool that is used to conduct reading tests. Doctors can configure a series of tests that are carried out by the patients. The results are stored in a database where reports can be generated. |
| **Contribution:** | Responsible for the architecture, technical design and development of the application. |
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| **Client:** | Amijs & Amelis ICT B.V. |
| **Period:** | Jan. 2015 – March 2015 |
| **Branch:** | Medical |
| **Methods and techniques:** | MVC, ASP.NET, .NET, C#, SQL Server 2014, Entity Framework 6, Visual Studio 2013, CSS, JavaScript, jQuery, Knockout, Bootstrap, HTML5, Team Foundation Server |
| **Role:** | Development/Architecture consultant, .NET developer, Web front-end developer, Software Architect |
| **Summary:** | Development of an application named KSS (Klant Support Systeem). KSS is a helpdest registration tool that is used by the helpdesk support team to administrate and manage the calls they receive. It also contains reporting functionality and is connected to their main LOB systems. |
| **Contribution:** | Responsible for the architecture, technical design and development of the application. |
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| **Client:** | Amijs & Amelis ICT B.V. |
| **Period:** | Jan. 2014 – March. 2014 |
| **Branch:** | Medical |
| **Methods and techniques:** | ASP.NET, .NET, C#, SQL Server, Entity Framework, Visual Studio 2012, CSS, JavaScript, jQuery, Team Foundation Server |
| **Role:** | Development/Architecture, .NET C# backend/Web front-end developer, Software Architect |
| **Summary:** | Development of an application named PARVIS. PARVIS is a Questionnaire tool that is used by medical staff (intakers, optometrists / orthoptists, behavioral scientists (neuropsychologists) and occupational therapists) to assess patients. The tool is targeted towards patients with Parkinson’s disease. The tool is used to provide a clear view of the patient’s actual status. The gathered information is assessed by the medical staff and exported for further processing. |
| **Contribution:** | Responsible for the architecture, technical design and development of the application. |
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| **Client:** | Asito B.V. |
| **Period:** | Jan 2013 – Dec 2015 |
| **Branch:** | Facility Services |
| **Methods and techniques:** | .NET C#, ASP.NET, MVC3/4, Sencha Touch (mobile application framework), ExtJS (web application framework), SQL Server, Entity Framework, CSS, JavaScript, JQuery, BizTalk, HTML5, SharePoint 2010/2013, Windows Workflow Foundation 4.x, SCRUM, TDD, PowerShell, Team Foundation Server |
| **Role:** | Consultant, Lead developer, Backend developer, Web developer, Software design and architecture |
| **Summary:** | This is a large scale project to automate most of the administrative tasks related to their core business. Because of the nature of their business they use mobile devices as their most important target platform (iPad / iPhone). The development team consists of 10 members. The target is to develop more than 40 apps to support the various aspects of Asito’s business. Creating offers for new customers, ordering new materials, hiring people, etc. The frameworks of choice are Sencha Touch and ExtJS (<http://www.sencha.com/products/touch>). Sencha Touch is a very advanced JavaScript/html5 based platform independent framework for developing mobile apps. ExtJS is a web application framework .NET C#, MVC, the Entity Framework, Windows Workflow 4.x and MS SQL Server are used to develop the backend.  I am going to mention only a few of the project I worked on so far because the list would be too long and detailed otherwise.  **Document generator (2013)**: The first project I completed was generic PDF document generation service that hooks into BizTalk and the mobile apps. It will be used by many of Asito’s apps to generate PDF documents (offers, invoices, intake forms, reports, etc.) based on specs that are provided by the mobile apps and other applications throughout the organization. The development included WCF and Windows services that integrate with BizTalk and integration components to consume these services in the apps.  **Task engine (2013)**: The assignment was the so-called generic task-list. The purpose of this component is to display context sensitive tasks in the apps to users or roles. A challenging business requirement was that tasks had to be processed near real-time like an instance messaging app. The solution of this involved WCF and Windows services and a couple of integration components to consume these services in the apps.  **Offer calculation (2013)**: After that I joined the team that was developing an app for the sales domain to generate and calculate offers on the iPhone. I did a lot of front-end development using JavaScript and Sencha Touch in that period.  **Enlistment (2013 – 2014)**: My next assignment was a mobile application part of the HR domain, to make the enlistment process of new employees more efficient. The app supports among other things an approval process, the real-time generation of employment contracts and the registration of new employees in SAP.  **WUD r1 (2014)**: After the ‘Enlistment’ project I proceeded with an app to support the process of leaving the organization (**W**orkflow **U**itnutten **D**ienstverband), also part of the HR domain. It monitors probation periods, how many and what kind of contracts employees had in the past and what type of contract should be offered next. It also checks if government rules are applied properly and if there is enough demand for resources in the organization to hire new people or extend contracts. All this is powered by Windows Workflow 4. This is the first application of Windows Workflow in this organization. WUD r1 was completed at June 2014.  **WUD r2 (2014)**: After WUD r1 was completed we proceeded with the next r2 release. The goal of this new release was to support the new laws and government regulations that would become active at January 1st 2015. This edition was released at 12 December 2014.  **KIS r1/r2 (Klant Informatie Systeem/Customer Information System 2015)**: I started my research for this project at the end of 2014. At the beginning of this project my role was more towards the Architect role than in previous Asito projects. After the functional and technical design was completed my role shifted from architect to development and together with a small team (3 developers) we started building this software. KIS is an application that allows customers and internal Asito staff members to access customer information. Not only documents like invoices, contracts etc. but also aggregated information from other systems like SAP, MS-CRM and the App’s we created earlier for Asito. The solution is based on SharePoint 2013 (standard edition, on-premise). Other techniques include .NET C#, jQuery, Knockout, MVC, CSOM/JSOM. We use Visual Studio 2013 as our main development tool. First release is planned at November 2015. |
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| **Client:** | Royal Dutch Shell (via T-Systems / Portiva) |
| **Period:** | Feb. 2012 – Dec. 2012 |
| **Branch:** | Oil & Gas |
| **Methods and techniques:** | SharePoint 2010, .NET, ASP.NET, C#, SQL Server, PowerShell, Visual Studio, CSS, JavaScript, Knockout, JQuery, SCRUM, Team Foundation Server |
| **Role:** | SharePoint Lead-developer |
| **Summary:** | This was a large scale migration project that has spanned almost a year. I worked on multiple components that are large enough to be considered projects themselves.  For that reason we will treat them as such and describe each of these sub-project at a high level but before we do that we will provide you with a high level overall project description.  The project is called Momentum and the purpose is to migrate all shell data that is currently stored in SharePoint 2007, Live Link, File Folders and Exchange Public Folders to SharePoint 2010. The total size is an estimated 600TB for about 150000 users. Cognizant, a large Indian ICT service provider that is called 'the Factory' by the team is providing the work-force that will do the manual steps involved in the migration process. The goal of the development team is to automate as much of these steps as possible and provide a solution to guide and control the overall migration process to ensure the factory can meet their quality and throughput targets. To accomplish this, a couple of sub-projects were defined and I worked on the following three of them:  **Migration Specification Form**: The migration process is request driven. This means that migrations are initiated by submitting a Migration Specification Form that specifies details of the migration like source data and target. The form was originally created in InfoPath and later converted into ASP.NET because the increased complexity and new insights. To be able to create this very complex form we created a custom framework to mimic the InfoPath look and feel (requirement) and support data abstraction and business rules. This framework was later reused for the Bulk Task Processing component.  **Lift and Shift**: Shell maintains large lists on BPOS SharePoint sites that contain information about source information that needs to be migrated. Instead of re-typing this information into new migration requests we needed to provide a way to re-use this already available information and generate migration requests automatically. This is what Lift and Shift will do. Read information from BPOS sites and generate migration requests.  **Bulk Request Processing**: The factory (Cognizant) requires a component to bulk-process the migration requests. The estimated total number of migration requests would be around 100000 which is far too much to be processed on a one by one basis. The Bulk Request Processing component will allow the factory to apply migration operations to large batches of migration requests which will improve efficiency dramatically.  Apart from the solutions mentioned above there are many other challenges to overcome. Among them are Migrating Exchange Public folders, Extensive reporting, automated provisioning on staging environment and automated shipment. |
| **Contribution:** | Worked on the design and implementation of a component called 'Bulk Task Processing'. This is a tool designed for the factory (Cognizant) in India which they will use to process large amounts of workflow tasks efficiently. Before that, I worked on a component that was called 'Lift and Shift'. This is a tool for the business that they can use to offer migration requests in a bulk style fashion. Also responsible for the design and construction of the MSD app. MSD stands for Migration Specification Document. This app is responsible for capturing and validating the specifications of applications and starting the workflow process. Among other things he was also involved in the implementation of the workflow that every migration request will depend on. |
| **Remarks:** | It is a very international team with 6 Dutch, one Indian, one Chinese (DocAve), 2 Brits and a German, each working from different locations within Europe. The project is run by Scrum project approach where the daily standup meetings are replaced by daily conference calls. |
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| **Client:** | Kenwerk (via Rubicon / Cynapps-ms) |
| **Period:** | Dec. 2011 - Jan. 2012 |
| **Branch:** | Education |
| **Methods and techniques:** | SharePoint 2010, PowerShell, C#, Visual Studio, CSS, JavaScript, JQuery, Team Foundation Server |
| **Role:** | SharePoint Lead-developer |
| **Summary:** | Developed and intranet based on SharePoint 2010 for the firm Kenwerk from Zoetermeer. |
| **Contribution:** | Together with a small team responsible for the translation of functional design to a fully featured intranet implementation. Specific for this project were the emphasis on branding and the tight schedule. Mainly concerned with branding and building SharePoint artifact templates for provisioning our solutions. |
| **Remarks** | Replaced a developer who previously worked on this project. This person was not able to meet the tight deadlines. It was my task to catch up and still deliver on time. |
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| **Client:** | Vopak (via Rubicon / Cynapps-ms) |
| **Period:** | Nov. 2011 – Dec. 2011 |
| **Branch:** | Oil & Gas |
| **Methods and techniques:** | SharePoint 2010, PowerShell, C#, Visual Studio, CSS, Javascript, JQuery, Team Foundation Server |
| **Role:** | SharePoint Lead-developer |
| **Summary:** | Together with a small team responsible for the translation of a functional design to a fully featured intranet implementation. Specific for this project were the extremely tight schedule. Mainly concerned with branding, building SharePoint artifact templates for provisioning our solutions and developing tailor-made C# code for enhanced functionality and feature provisioning. |
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| **Client:** | Heineken (via VXCompany / Cynapps-ms) |
| **Period:** | Oct. 2011 – Nov. 2011 |
| **Branch:** | Beer Brewery |
| **Methods and techniques:** | SharePoint 2010, ASP.NET, .NET, C#, SQL Server, PowerShell, Visual Studio, CSS, JavaScript, JQuery, Nintex Workflow, Team Foundation Server |
| **Role:** | SharePoint Developer |
| **Summary:** | Development of an application named FundApp, a SharePoint 2010 based application to manage for funding for Heineken projects. Specifics included the application of Nintex Workflow and advanced PowerShell deployment. |
| **Contribution:** | Mainly dealt with integration of SQL Reporting Services, custom build Nintex Workflow actions and the establishment of the full template and PowerShell controlled automatic deployment of the application. |
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| **Client:** | Heineken (via VXCompany / Cynapps-ms) |
| **Period:** | Jun. 2011 – Sep. 2011 |
| **Branch:** | Beer Brewery |
| **Methods and techniques:** | SharePoint 2010, ASP.NET, .NET, C#, SQL Server, PowerShell, Visual Studio, CSS, JavaScript, JQuery, SQL Reporting Services, Team Foundation Server |
| **Role:** | SharePoint Developer |
| **Summary:** | Construction of the Heineken Knowledge Management Portal. This application based on SharePoint 2010 is designed for knowledge management within the Heineken organization. Particular in this project was the advanced application of taxonomy, the application and especially the provisioning of SQL Reporting Services and the particular way in which the usage of the application should be recorded and reported. This was a particular application with lots of customization in C#. |
| **Contribution:** | Mainly dealt with the registration of the usage of the site and most of the development of tailor-made C# code. |

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| **Client:** | Cynapps-ms |
| **Period:** | Feb. 2011 – May 2011 |
| **Branch:** | Oil & Gas |
| **Methods and techniques:** | Windows Azure, SQL for Azure, .NET 4.0, ASP.NET, C#, CSS, JavaScript, Visual Studio, Team Foundation Server |
| **Role:** | Azure Developer |
| **Summary:** | Microsoft Windows Azure implementation of the Connection Asset Explorer mentioned below. |
| **Contribution:** | Originator of the concept of ACE (Connection Asset Explorer) and the architectural and technical design of it. He is also largely responsible for the construction of the application and the underlying framework. |
| **Remarks** | This is a Windows Azure Port of the SharePoint 2010 ACE implementation mentioned elsewhere on this page. |
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| **Client:** | Cynapps-ms |
| **Period:** | May. 2010 – Feb 2011 |
| **Branch:** | Oil & Gas |
| **Methods and techniques:** | SharePoint 2010, ASP.NET, .NET, C#, Visual Studio, CSS, JavaScript, Windows Workflow, Team Foundation Server |
| **Role:** | SharePoint / .NET architect |
| **Summary:** | Construction of Connection Asset Explorer (previously called Raptor). Designed and built an OCR engine that is able to analyze and understand technical process drawing. Based on this analysis, links can be established between the drawings and relevant information that is stored elsewhere in SharePoint. The application is designed for the process and petrochemical industry to process drawings automatically and link the information in the drawings to information elsewhere within the organization and back. The backend structure and OCR engine are developed in. NET C #. The front end is built on SharePoint 2010. Special feature of this project is the proprietary custom made OCR engine and the graphical presentation of the drawings within SharePoint. |
| **Contribution:** | Originator of the concept of ACE (Asset Connection Explorer) and responsible for all the technology needed to achieve this both in architectural engineering design and a large part of the building, especially the more complex parts. |
| **Remarks** | This application has also been ported to Windows Azure. |
|  |  |
| **Client:** | Amijs & Amelis ICT B.V. (via Cynapps-ms) |
| **Period:** | Jan. 2010 – July 2010 |
| **Branch:** | Multiple |
| **Methods and techniques:** | SharePoint 2007, SharePoint 2010, .NET, ASP.NET, C#, CSS, JavaScript, SQL Server, Visual Studio, Team Foundation Server |
| **Role:** | SharePoint Developer |
| **Summary:** | On behalf of the firm and Amijs and Amelis ICT, I completed a series of assignments including SharePoint 2010 Web Parts, BDC, Branding, etc. |
| **Contribution:** | Amijs and Amelis ICT is a company mainly engaged in SharePoint related consultancy. For the implementation and development parts of their projects they use external resources and in that capacity I carried out a series of smaller projects where the work ranged from site branding to building web parts in C#. |
|  |  |
| **Client:** | DCV Results B.V. (via Cynapps-ms) |
| **Period:** | Jan. 2010 – Feb 2010 |
| **Branch:** | Staffing |
| **Methods and techniques:** | SharePoint 2010, .NET, Visual Studio, Team Foundation Server |
| **Role:** | SharePoint Consultant |
| **Summary:** | Extensive research into the possibility of replacing parts of the existing core business application with SharePoint 2010. I provided an advice and a working Prove of concept. |
| **Contribution:** | Mainly consultative. The company 'DCV Results' wanted to investigate if it was possible to replace their core business application with SharePoint 2010. Extensive research has been conducted into that area and a number of POC's were created ​​to demonstrate the results. |
|  |  |
| **Client:** | DCV Results B.V. (via Cynapps-ms) |
| **Period:** | 2009 |
| **Branch:** | Staffing |
| **Methods and techniques:** | .NET, ASP.NET, C#, Visual Studio, SQL Server, Team Foundation Server |
| **Role:** | .NET C# Developer |
| **Summary:** | Performed a couple of month’s maintenance on a digital recruitment public website written in ASP.NET 3.5. |
| **Contribution:** | Resolved a large number of technical issues in this period, both on the front-end and the back end and SQL Server database. |
|  |  |
| **Client:** | SIPI Foundation (via Cynapps-ms) |
| **Period:** | 2009 |
| **Branch:** | Education |
| **Methods and techniques:** | .NET, ASP.NET, C#, SQL Server, Visual Studio, Team Foundation Server |
| **Role:** | Architect / Lead-developer |
| **Summary:** | Client tracking system built in ASP.NET 4.0. It's an application to track people's progress on cultural integration projects. Includes a scheduling module, extensive reporting capabilities and content management. |
| **Contribution:** | Responsible for the architecture and technical design. Also completed a large part of the implementation. |
|  |  |
| **Client:** | SIPI Foundation (via Cynapps-ms) |
| **Period:** | 2009 |
| **Branch:** | Education |
| **Methods and techniques:** | .NET, ASP.NET, C#, SQL Server, Visual Studio, Team Foundation Server |
| **Role:** | Architect / Lead-developer |
| **Summary:** | Construction of a website based on ASP.NET 4.0 plus content management system. The website is multilingual and includes support for Arabic languages. |
| **Contribution:** | Responsible for the architecture, technical design and most of the development. |
|  |  |
| **Client:** | OneXS (via Cynapps-ms) |
| **Period:** | 2009 |
| **Branch:** | Telecom |
| **Methods and techniques:** | .NET, ASP.NET, C#, SQL Server, Visual Studio, Team Foundation Server |
| **Role:** | Architect / Lead-developer |
| **Summary:** | Construction of online ordering. Comprehensive website based on ASP.NET 3.5 with very complex business rules. The orderable products have many mutual dependencies so that the whole is very complex. Many workflow and interfaces with external systems including Exact and Calvi. |
| **Contribution:** | Responsible for the architecture, technical design and most of the development. |
|  |  |
| **Client:** | CPS (via Cynapps-ms) |
| **Period:** | 2009 |
| **Branch:** | Education |
| **Methods and techniques:** | .NET, ASP.NET, C#, SQL Server, Visual Studio, SQL Reporting Services, Team Foundation Server |
| **Role:** | Architect / Lead-developer |
| **Summary:** | Construction of the 'Cito Reference Keys' public website. With this ASP.NET 3.5-based application schools can register Cito test results online. These results are then translated into competences that will be reported online using SQL Reporting Services. CPS Cito Reference keys is based on the OnTrack framework that is also developed by me. |
| **Contribution:** | Responsible for the architecture, technical design and most of the development. |
|  |  |
| **Client:** | CPS (via Cynapps-ms) |
| **Period:** | 2009 |
| **Branch:** | Education |
| **Methods and techniques:** | .NET, ASP.NET, C#, SQL Server, Visual Studio, SQL Reporting Services, Team Foundation Server |
| **Role:** | Architect / Lead-developer |
| **Summary:** | Construction of 'Thermometer Involvement' website. This is an ASP.NET 3.5-based survey web application. Respondents are asked what their involvement is regarding the company they work for. Based on this information, reports are generated using SQL Reporting Services. Thermometer CPS is based on the OnTrack framework which is also developed by me. |
| **Contribution:** | Responsible for the architecture, technical design and most of the development. |
|  |  |
| **Client:** | Corlear college (via Cynapps-ms) |
| **Period:** | 2009 |
| **Branch:** | Education |
| **Methods and techniques:** | .NET, ASP.NET, C#, SQL Server, Visual Studio, Team Foundation Server |
| **Role:** | Architect / Lead-developer |
| **Summary:** | Created an application named 'Comprendo. Comprendo is an ASP.NET 3.5-based solution to support competency-based learning in secondary education. The application is developed in collaboration with the ‘Corlear College’ school and is intended as a standard product for this market. Comprendo is based on the OnTrack framework which is also developed by me. |
| **Contribution:** | Responsible for the architecture, technical design and most of the development work. Besides the technical aspects I also communicated with the end users (teachers/students) to ensure the end product would meet the expectations. |
|  |  |
| **Client:** | Cynapps-ms |
| **Period:** | 2008 |
| **Branch:** | Oil & Gas |
| **Methods and techniques:** | .NET, ASP.NET, C#, SQL Server, Visual Studio, Windows Workflow, Team Foundation Server |
| **Role:** | Architect / Lead-developer |
| **Summary:** | Developed a product called Raptor for the Oil & Gas market, an on .NET 3.5 based custom OCR engine that is specifically designed for the analysis of process drawings (P&ID) for processes like for example petrochemical processes. Parts of these drawings are often provided with an identification code that can be used to establish links between electronic documents stored elsewhere in the organization. For this purpose it is convenient to have tooling capable of extracting this kind of information from graphic files. In 2010, this component is reused in a SharePoint 2010 application called ACE and after that it was also ported to Windows Azure. |
| **Contribution:** | Responsible for the architecture, technical design and most of the development, especially the hard parts like the engine's core. I also developed and implemented all the mathematical algorithms necessary for the pattern recognition itself. |
| **Remarks** | Contrary to what you might expect, the recognition of the characters is not the hardest part of this application. Distinguish between the pixels that form the payload and the noise is the real challenge. Especially in older drawings that used to be hand crafted. |
|  |  |
| **Client:** | ADP (via Cynapps-ms) |
| **Period:** | 2008 |
| **Branch:** | Payroll |
| **Methods and techniques:** | .NET, ASP.NET, C#, SQL Server, Visual Studio, Windows Workflow, Team Foundation Server |
| **Role:** | Lead- developer |
| **Summary:** | ADP has an online business system that allows their customers to keep and edit their data. The system is entirely written in ASP.NET 3.5. I integrated Windows Workflow in their systems. What was particular in this situation was that ADP uses Oracle. Windows Workflow does not support this out of the box. I wrote a data provider that allowed workflow instances to be stored in an Oracle database. In addition, in this project a lot of WCF was used in combination with Windows Workflow. |
| **Contribution:** | Responsible for the architecture, technical design of the workflow integration and a great deal of the development, especially the low-level parts. In addition to a development role, in many cases I also had a consultant role. Advising the development team on the best practices regarding the implementation of Windows Workflow |
|  |  |
| **Client:** | Cynapps-ms |
| **Period:** | 2007 |
| **Branch:** | General |
| **Methods and techniques:** | .NET, ASP.NET, C#, SQL Server, Visual Studio, Windows Workflow, Team Foundation Server |
| **Role:** | Architect / Lead- developer |
| **Summary:** | Development of the OnTrack framework. OnTrack is a business application framework entirely written in the NET 3.5 framework. The idea behind this is that many business applications have a lot of functionality in common. Think about data store, search, forms, business rules, workflow, etc. By offering this kind of generic functionality in a standard framework, developers can create better high-quality applications in a shorter period of time because much of the complexities will be hidden behind the framework abstraction layers. In addition, the framework ships with an application server and an IDE that can be used to model business processes and data structures on a high less-technical level. An example of this is set out below the EOM (Electronic Operating Manual). Within OnTrack, workflow and business rules are important components. The framework includes an IDE which allows workflows and business rules to be developed without Visual Studio. This enables people without development skills to model workflow processes. In addition, the entity oriented database allows workflows, assemblies and business rules to be stored centrally which simplifies the management and distribution of it. |
| **Contribution:** | Responsible for the architecture and technical design of the entire framework. I also did most of the development. |
|  |  |
| **Client:** | Total (via Cynapps-ms) |
| **Period:** | 2007 |
| **Branch:** | Oil & Gas |
| **Methods and techniques:** | .NET, ASP.NET, C#, SQL Server, Visual Studio, Team Foundation Server |
| **Role:** | Architect / Lead- developer |
| **Summary:** | Construction of the Electronic Operating Manual. This is an ASP.NET 3.5-based application designed as a portal where a subset of the information within an organization can be accommodated. It is designed for organizations that work with many process and instrumentation drawings (P&IDs). Typically the information in these types of drawings points to information stored elsewhere in the organization. The EOM can be connected to almost any information source within an organization and a subset of the information therein. This information is automatically kept in sync in the portal. All information is displayed in a consistent manner and there is obviously extensive search functionality available. Also there is intelligence in the system which ensures that you always see information that belongs to a certain context. For example, to read documentation on a particular valve or other piece of equipment, you can immediately see which drawings and other documents are related to this valve. Total was the first customer who took it in use. For each drilling / production facility a portal like this was provisioned where all information furnished on that platform comes together. Documentation is merged with information from suppliers and drawings to a system that allows an operator to set up within a few clicks you can find what he is looking for. |
| **Contribution:** | Responsible for the architecture, technical design of the entire application and most of the development. |
|  |  |
| **Client:** | Rabobank (via Cynapps-ms) |
| **Period:** | 2007 |
| **Branch:** | Finance |
| **Methods and techniques:** | MS Access |
| **Role:** | Developer |
| **Summary:** | Development of SiobSys2, this is an MS Access application to keep a record of all ICT services Rabobank offers. |
| **Contribution:** | Developed a large part of this application. |
| **Remarks** | Normally you would never choose MS-Access to develop a complex application like this. The reason to do this is that the ICT department does not see MS-Access as a development platform. This means that the ICT approval is not required which speeds up the implementation by months. |
|  |  |
| **Client:** | Randstad ICT |
| **Period:** | 2007 |
| **Branch:** | Staffing |
| **Methods and techniques:** | .NET, ASP.NET, C#, SQL Server, Visual Studio, Visual SourceSafe |
| **Role:** | Architect / Lead- developer |
| **Summary:** | Development of an SMS broker application. This was a central point to send SMS messages in large bulk batches. The application composed SMS messages based on database content and send them to KPN by calling a web service. KPN was responsible for the actual transmission of the SMS. Makes such use of AtomiQ (described below) for job processing. |
| **Contribution:** | Architect, project manager and team lead for this project. Responsible for managing a small team of developers. Also developed a large part of this application. |
| **Remarks** | This application was built on a couple of products that I developed earlier for Randstad. There was a business application framework that was used for data abstraction and entity handling. And we used our internally developed job/message AtomiQ as a lightweight service bus. |
|  |  |
| **Client:** | Randstad ICT |
| **Period:** | 2007 |
| **Branch:** | Staffing |
| **Methods and techniques:** | .NET, ASP.NET, C#, SQL Server, Visual Studio, Visual SourceSafe |
| **Role:** | Architect / Lead- developer |
| **Summary:** | Development of the Randstad Service Portal. This is a. NET 2.0-based portal for centrally managing information systems within the organization. Among other thing it supported Identity Management, Management of SMS broker, Service Desk tools. The portal uses AtomiQ for long-running background tasks to be executed asynchronously. |
| **Contribution:** | Architect, project manager and team lead for this project. Responsible for managing a small team of developers. Also developed a large part of this application. |
| **Remarks** | This application was built on a couple of products that I developed earlier for Randstad. There was a business application framework that was used for data abstraction and entity handling. And we used our internally developed job/message AtomiQ as a lightweight service bus. |
|  |  |
| **Client:** | Randstad ICT |
| **Period:** | 2006 |
| **Branch:** | Staffing |
| **Methods and techniques:** | .NET, ASP.NET, C#, SQL Server, Visual Studio, Visual SourceSafe |
| **Role:** | Architect / Lead- developer |
| **Summary:** | Development of AtomiQ, a. NET 2.0-based message broker. Arisen from the need to have a generic way to execute automated background tasks. Focus on scalability, multithreading, stability and redundancy. It shares features with OOB message brokers like MSMQ but it differs in that is especially designed for high throughput by sharing workload over multiple nodes. It also has a different focus. AtomiQ is really all about high volume job processing and not messaging. |
| **Contribution:** | Architect, project manager and team lead for this project. Responsible for managing a small team of developers. Also developed a large part of this application. |
| **Remarks** | Randstad continued developing it after my departure and it is still operational today. |
|  |  |
| **Client:** | Randstad ICT |
| **Period:** | 2006 |
| **Branch:** | Staffing |
| **Methods and techniques:** | .NET, ASP.NET, C#, SQL Server, Visual Studio, Visual SourceSafe |
| **Role:** | Architect / Lead- developer |
| **Summary:** | Development of a business application framework / business layer framework / web portal framework. Most projects that I developed for Randstad rely heavily on this framework. |
| **Contribution:** | Architect, project leader and team-lead for this project. Responsible for managing a small team and building a large part of this application. |
|  |  |
| **Client:** | Randstad ICT |
| **Period:** | 2006 |
| **Branch:** | Staffing |
| **Methods and techniques:** | .NET, ASP.NET, C#, SQL Server, Visual Studio, Visual SourceSafe |
| **Role:** | Lead- developer |
| **Summary:** | Development of an organization wide centralized document scanning and OCR solution. All 900+ affiliates are scanning ID cards, driver licenses and deplorers statements for every employee. As is enforced by Dutch law. All these documents are scanned at the affiliate's office with a multi-functional printer with scan function. The multifunctional automatically uploads the document to Randstad HQ in Amsterdam where it is processed (OCR, barcode recognition) and stored in an Oracle database. |
| **Contribution:** | Lead developer, responsible for the technical realization, designing and building of a solution around the Abby OCR engine that integrates with the Oracle business software of Randstad. |
|  |  |
| **Client:** | Many (via e-office) |
| **Period:** | 2001 – 2006 |
| **Branch:** | Many |
| **Methods and techniques:** | See ‘contribution’ |
| **Role:** | Senior developer / consultant |
| **Summary:** | Senior developer / consultant specialized in Microsoft based solutions. |
| **Contribution:** | Worked as a senior developer on many projects for many clients. The list below contains a brief selection:   * Achmea ARBO / Koppeling Lotus Notes (HRNET) in Microsoft omgeving (ASP.NET / .NET 1.1 / Domino / Notes) * AGIP Kazakhstan North Caspian Operating Company / Website Redesign and Implementation (SharePoint 2003 / .NET 1.1 / C#) * AMEV / Realisatie Website AMEV / Content Management Tool * AMEV / Realisatie Website AMEV / Realisatie Website AMEV * AMIS / SharePoint consultancy (SharePoint 2003 / .NET 1.1 / C#) * Arbo Unie Zuid West (SharePoint 2003 / .NET 1.1 / C#) * Athlon Holding NV / Implementatie SharePoint Portal Server 2003 (SharePoint 2003 / .NET 1.1 / C#) * Bloemenveiling Aalsmeer / e-office advanced search web part (SharePoint 2003 / .NET 1.1 / C#) * Bloemenveiling Aalsmeer / Marketing Intelligence (SharePoint 2003 / .NET 1.1 / C#) * Budelpack International B.V. / Sampling Machine (SharePoint 2003 / .NET 1.1 / C#) * CenterOne / sales activiteiten / Lotus Notes integratie met SPS (SharePoint 2003 / .NET 1.1 / C# / Domino / Notes) * ESA ESTEC / Pilotproject SharePoint Portal Server (SharePoint 2003 / .NET 1.1 / C#) * Essent Holding / ePOD (SharePoint 2003 / .NET 1.1 / C#) * Essent Kabelcom / SSLIM (SharePoint 2003 / .NET 1.1 / C#) * Essent Kabelcom / Pulse (SharePoint 2003 / .NET 1.1 / C#) * Ferrari Auto SpA Gestione Sportiva (SharePoint 2003 / .NET 1.1 / C#) * Fuji Photo Film B.V. / Fuji Intranet / Realisatie Fuji Intranet / VPE aanpassingen (Notes en VPE) (ASP.NET / .NET 1.1) * Fuji Photo Film B.V. / SharePoint pilot (SharePoint 2003 / .NET 1.1 / C#) * Goudappel Coffeng / Visual Page Editor / Inbouwen VPE (Domino / Notes) * Hay Group B.V. / Total Remuneration (ASP.NET / .NET 1.1) * Heineken N.V. / Corporate License Content Management Tool & Visual Page Editor (Domino / Notes / VB6) * Heineken N.V. / Deelnemingen Administratie Systeem (ASP.NET / .NET 1.1) * Heineken N.V. / HAART Patiënt Summary (Domino / Notes) * Heineken N.V. / Heineken Brand Portal Release 3 (Domino / Notes) * Heineken N.V. / Heineken on the Move / Realisatie website HotM (Domino / Notes) * Heineken N.V. / New Ways of Team Working (Domino / Notes) * Heineken N.V. / VPE for Heineken Brand Portal (Domino / VB6) * Hoge Raad der Nederlanden / Toegevoegde regeling zaakadministratie (ASP.NET / .NET 1.1 / T-SQL) * Kenniscentrum GOC / Implementatie & Invoering SharePoint Portal Server (SharePoint 2003 / .NET 1.1 / C#) * KPMG International Headquarters / SharePoint search (SharePoint 2003 / .NET 1.1 / C#) * KPMG LLP / Implementation of UKTK (ASP / VB6) KPMG LLP / Protocol handlers (SharePoint 2003 / .NET 1.1 / C#) * KPMG Meijburg & Co / Mworld (Domino / Notes / VB6) * Lectric/Trimbos instituut/SharePoint Intranet (SharePoint 2003/.NET 1.1/C#) * Macaw Nederland BV / Microsoft Big Spotters Hill (ASP.NET / .NET 1.1 / BizTalk / T-SQL) * Microsoft BV / Deloitte: CMS en SPS ontwerptraject / Deloitte: Communicatie Portal / Bouw (SharePoint 2003 / .NET 1.1 / C#) * Microsoft BV / Inzet SNS (InfoPath / SharePoint 2003 / .NET 1.1 / C#) * Microsoft BV / Marketing Efficiency / Marketing Efficiency (InfoPath / SharePoint 2003 / .NET 1.1 / C#) * Microsoft EMEA HQ IW / IW Showcase HR (InfoPath / SharePoint 2003 / .NET 1.1 / C#) * Mistral / 2004-Q2/Q3: verzamelen / Verzamelen (.NET 1.1 C# Win Forms) * Nederlandse Vereniging tot Bescherming van Dieren / survey tool (Domino / Notes) * NIB Capital bank N.V. (SharePoint 2003 / .NET 1.1 / C#) * Q8 Petroleum Benelux B.V. / SharePoint / 3. KPNWE (SharePoint 2003 / .NET 1.1 / C#) |
| **Remarks** | One of the coolest things I developed for e-office was the Visual Page Editor. It was a tool developed in Microsoft Visual Basic and the purpose was to provide a state of the art graphical rich text/page layout editor that could be used with the Lotus Notes client that had very limited html editing capabilities at that time. The tool has been sold a couple of times Heineken, Fuji, Goudappel Coffeng, etc. |
|  |  |
| **Client:** | Triview Technical Communication B.V. |
| **Period:** | 1996 – 2001 |
| **Branch:** | Many |
| **Methods and techniques:** | Visual Basic 6, C++, C, Lotus Notes, Adobe Acrobat API, Adobe FrameMaker API |
| **Role:** | C++ / VB6 developer |
| **Summary:** | Developed many plug-ins for Adobe FrameMaker, Adobe Acrobat and AutoCAD. |
| **Contribution:** | Written many software applications in C++, Visual Basic 6 and AutoCAD LISP/C++, especially for internal use but some of these products were also sold to other companies as well. We also created an AutoCAD/VB6 based system to analyze AutoCAD drawings and connect them to documentation stored in PDF files. This involved in-depth knowledge of writing plug-ins for different platforms in different languages. |
| **Remarks** | In this period I came in contact with an Oil & Gas consulting firm. Together with them I developed the concept of drawing analysis through optical recognition. Many years later I build a product named Raptor that was based on this concept. |
|  |  |
| **Client:** | BOT Lifttechniek B.V. |
| **Period:** | 1994 – 1996 |
| **Branch:** | Elevators |
| **Methods and techniques:** | Visual Basic, AutoCAD LISP, Novell Netware 3.12 |
| **Role:** | Network administrator / application developer |
| **Summary:** | Administer a Novell 3.12 network, development of AutoCAD and Visual Basic |
| **Contribution:** | Responsible for all automation within the organization. I developed much software (CAD / database) for internal use but also as a product to be sold or to support products (elevator management / control systems). For example to monitor and control elevators remotely. |
|  |  |
| **Client:** | DHV Water B.V. |
| **Period:** | 1993 – 1994 |
| **Branch:** | Plant Engineering |
| **Methods and techniques:** | Visual Basic, AutoCAD LISP |
| **Role:** | CAD Draftsman / CAD software developer |
| **Summary:** | Creating AutoCAD drawings. Extend and create CAD software |
| **Contribution:** | Creation of CAD drawings, administer CAD environment, development of CAD applications. I have developed a very sophisticated and comprehensive extension to AutoCAD to make process and instrumentation diagrams (P&IDs). |
|  |  |
| **Client:** | Techno-G B.V. |
| **Period:** | 1991 – 1992 |
| **Branch:** | Plant Engineering |
| **Methods and techniques:** | Visual Basic, AutoCAD LISP |
| **Role:** | CAD Draftsman / CAD software developer |
| **Summary:** | Creating AutoCAD drawings. Extend and create CAD software |
| **Contribution:** | Creation of CAD drawings, administer CAD environment, development of CAD applications. |
|  |  |
| **Client:** | Royal Dutch Army |
| **Period:** | 1990 – 1991 |
| **Methods and techniques:** | n.a. |
| **Role:** | Conscript sergeant of cavalry |
|  |  |
| **Client:** | SCA Packaging B.V. |
| **Period:** | 1989 |
| **Techniques:** | n.a. |
| **Role:** | M.T.S. internship of six months as a technical draftsman. |
|  |  |
| **Client:** | Unitech B.V. |
| **Period:** | 1988 |
| **Methods and techniques:** | n.a. |
| **Role:** | M.T.S. internship of six months, Unitech is a manufacturer of ultrasonic welding and cleaning machines. |

**Foreign languages**

Dutch (native language)

Engels Read: excellent Write: good Speak: good