

# CV / Ben Vaessen

Last update on June. 9<sup>th</sup>, 2010

Owner and Software Engineer at Launch IT  
Developer of technical information systems  
Born on August 4<sup>th</sup>, 1980

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## Experience

### Since July 2008: [Launch IT](#)

- Owner and Software Engineer. Various projects, for example:
- Development and reviews for multiple embedded C/C++ (Luminary /Atmel/WinCE) projects, such as an electric transport vehicle, induction heaters and intercom systems.
- Development of a real-time system controlling a machine having 32 actuators, based on a 3D inspection by LMI ChromaScan sensors. (LabVIEW, C# and HexSight)
- Advise, engineering and support for a project at *TEXTOR*, a fusion reactor in Jülich, Germany, mainly using LabVIEW/DAQmx.
- Development of *DiagnoseIS*: an information system for neuropsychologic testdiagnostics (C#)
- Development of *Guii*: a graphic user interface for machine vision inspections, used for wood and food processing. (now C#, previously VB)
- Software development for *Schleifenbauer*, intelligent power measurement and switching units. Both firmware and APIs in many languages such as C, C++, C#, Perl and PHP
- Managing employees and projects, partnerships with SEF-Vision and Zero-PPM.
- See [www.launchit.nl](http://www.launchit.nl) for more info.

### Feb. 2008 – June 2008: [Simac Masic & TSS](#)

- Software Engineer developing (PPT) Machine Vision applications
- Sales support and feasibility studies
- Also worked with Bar-/Matrixcode readers and SICK 3D IVC

### 2005 – Jan. 2008: [FOM-Rijnhuizen](#) / [Forschungszentrum Jülich](#)

- Software Engineer
- Employed by FOM, detached at the Forschungszentrum Jülich (Germany), Institute for Plasma Physics, where an international cluster of physicists and engineers studies various aspects of nuclear fusion.
- Development of software and hardware for control, storage, serving, transport, timing, and real-time analysis of measured data acquired with various diagnostics at the fusion reactor called *TEXTOR*.
- Main project: Development of a real time controller in order to detect disturbances in the reactor vessel and to suppress them by aiming 800kW, 140GHz microwaves at these disturbances.
- Software environment: C, C++, Labview (also RT and FPGA), RSI IDL (under UNIX and Windows, as well as VME, PXI and PLC systems). Also obtained a lot of general knowledge and practical experience with diagnostics and heating devices around nuclear fusion in the field of microwaves, motion control, electronics and safety interlocks.

## Internships

### 2005: [FOM-Rijnhuizen](#) / [Forschungszentrum Jülich](#)

- Design and implementation of an application which applies a complex set of calibration factors to raw data acquired by a microwave-based diagnostic (ECE) at *TEXTOR*: a nuclear fusion experiment. Implementation in C, design in UML, Score: 9 (out of 10)

### 2004: [Proeftuin-ICT](#) / [Classic Imaging and Rockwell](#)

- Various C/C++ based microcontroller projects

**2003: Uniklinik RWTH / Medical Informatics (Aachen)**

- Development of a real-time filter for improving the quality of images recorded with a camera mounted on an endoscope, using C++, under UNIX and later Windows/DirectX. Score 8: (out of 10), 5 months fulltime.

**Education**

**2006: PATO Course Motion Control Tuning**

**2001 – 2005: Hogeschool Zuyd – Technical Information Systems**

- Graduated with score 9 (out of 10), scored 8 on average during 4 years
- Theoretical and practical knowledge of software engineering, modeling in UML, programming in the languages Pascal, Delphi, C, C++, database applications using SQL and Oracle, real time and embedded systems, under UNIX, Windows and on microcontrollers. Besides technical courses, high scores in courses involving social skills.
- Coached 2 students in the so called Buddy Project.

**1999 – 2001: RWTH – Information Technology (Aachen)**

- Linear Algebra and Analysis, Algorithms and programming Modula-3
- Stopped after 2 years: preferred a more practical study

**1992 – 1999: Sophianum – VWO (Gulpen)**

- Mathematics (A and B), Physics, German, English and Dutch

**Interests**

- People and what they do
- Besides being with friends, family and my partner, electronics en software engineering have been my hobby since my childhood. I started programming in Basic and Pascal at the age of eleven. Electronics even earlier.

**Programming**

- C#, C++, C++ (using Borland Builder, Visual Studio .net, UNIX or microcontrollers e.g. Luminary, Atmel, WinCE, 8051)
- LabVIEW (including Real-Time, FPGA and DAQmx)
- Visual Basic .net and Basic scripts. (Delphi/Pascal in the past)
- Machine Vision Programming (PPT Vision / SICK)
- MySQL, CSS, PHP, HTML, XML and (Active)Perl/Tk

**Profile**

- Communicative: I “think IT” but communicate in a humane way
- Socially skilled, positive, competent for pair programming
- Used to international environments because of work, study, traveling and living in international groups. Fluent in German, English and Dutch.
- Creative, adaptive and flexible: not afraid of changes
- To the point and keep things simple
- Eye for detail and beauty, while still able to “helicopter view”
- Able to analyze and create order/overview in complex systems
- Can plan and work according to plan, efficient and effective
- Relatively broad knowledge and interest in technology and science.
- Known for well documentation, manage versions, open about my work
- Able to perform well in a group as well as on my own