

CV / Ben Vaessen

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

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Experience

Since July 2008: [Launch IT](#)

- Owner and Software Engineer. Various projects, for example:
- Development of an own product: a general purpose Information System in Visual Basic .Net for SICK IVC 3D machine vision inspections.
- Development and reviews for multiple embedded C/C++ (Luminary /Atmel) projects, a VB.net application and ActivePerl/Tk test-scripts.
- Prototyping of a real-time controller for up to 32 actuators for product inspections, including stepper-motors and servo systems.
- Advise, engineering and support for a project at TEXTOR, a fusion reactor in Jülich, Germany, mainly using Labview/DAQmx.
- Development of [FactoryStats](#) and [DiagnoselS](#): own products using C#.net combined with PHP, SQL, CSS and XML.
- See 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](#)

- Testing and improving a real time application for a medical echo device. Implementation in (Borland) C++ using LMD tools, design in UML
- Engineering of software and hardware for a high-precision measurement device able to determine the hardness of metal using C on a 8051-microcontroller. Software design in UML.

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

- Basic knowledge on time- and frequency-domain tuning, Laplace transformation, PID-controllers, Bode- and Nyquist plots, filters, Simulink and feed-forward control.

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. For many years I have been building light jockey systems that react to music with light shows. Later on started building websites with PHP, Perl, HTML, Style Sheets, MySQL including home made and mounted audio and video.

Programming

- C#, C++, C++ (using Borland Builder, Visual Studio .net, UNIX or microcontrollers e.g. Luminary, Atmel, 8051)
- Labview (including Real-Time, FPGA and DAQmx)
- Visual Basic .net and Basic scripts.
- Machine Vision Programming (PPT Vision / SICK)
- Borland Delphi, Pascal, RSI IDL
- 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