



# **Curriculum Vitae**

**Bart Franco**

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## Personal data

Name	<b>Bart Franco</b>
Address	Godfried Bomansstraat 4 3920 Lommel Belgium
Telephone	+32 (0)478/723898
Date of birth	16 December 1967
Email	bart.franco@dotc.be
Training (main degrees, on-the-job courses, etc.)	<ul style="list-style-type: none"><li>• Industrial Engineer Electronics – Automation</li><li>• ISEB Test Foundation (<a href="http://www.iseb.org.uk">www.iseb.org.uk</a>)</li><li>• ISEB Test Practitioner (<a href="http://www.iseb.org.uk">www.iseb.org.uk</a>)</li></ul>
Experience since	August 1990
Computer systems	DOS, Windows, Linux
Operating systems	WIN2000/NT/Xp/98/95, Linux, Unix, OS/2
Programming languages	ColdFusion, jQuery, javascript, Java, Android, C#, C++, .Net, PHP, SQL, C, Visual Basic, HTML, CHILL, Pascal, 8086 assembler
Methodologies	SWDP, SA/SD, OOAD, UML, XML, TMap (Test Management Approach), CMM, TMM
Application domains	BluRay, HDRW, DVD, CDRW, CDDA, GSM, UMTS, Operating Systems, Testing, Cryptography, flight booking engines, CRS
Languages	Dutch: Native English: Very Good German: Good French: Basic
Functional experience	Software Design Engineer (senior) Software Test Engineer (senior) Pre-Build Integrator Integration Test Engineer System Test Engineer
Professional experience	See section <i>Work Experience</i>

### My Profile

I work already several years as a consultant, in technically challenging software projects. I have a broad knowledge of software development and testing, experience in high-tech software projects.

My colleagues know me as somebody who is very flexible, a real team player and capable of adapting quickly into new projects. They can always count on me.

I have a passion to improve, develop and test software.

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## Education and training

- 1990 CHILL
- 1991 Software Life Cycle  
C for embedded programmers
- 1994 Introduction to C++ for C-programmers
- 1996 TCP/IP Protocol  
IP-networking  
ClearCase/WinNT (16 Hr)  
Improved C  
Introduction to UMTS  
Introduction to OS/2  
Electronic Payment Systems: Properties and Options
- 2000 C++ Workshop  
Objected Oriented Analysis and Design  
Structured Analysis / Structured Design  
Philips Software Conference
- 2001 Test Engineering "TMap"  
Philips Software Conference  
Software Design methods for Real-Time Embedded Systems
- 2002 Design Patterns (C++)
- 2003 Philips Software Conference  
Time management  
ISTQB Certified Tester Foundation Level (CTFL), former ISEB – Test Foundation
- 2004 Philips Software Conference
- 2005 C# - Pocket PC development: self study
- 2006 ISTQB Certified Tester Advanced Level (CTAL), former ISEB – Test Practitioner
- 2007 MOC-2124 Programming with C#  
MOC-2349 Programming the .NET framework with C#  
MOC-2663 Programming with XML in the .NET framework
- 2008 SWDP – Software Design Patterns  
JAV210 Java Programming Fundamentals
- 2009 Developing ASP.Net web applications using Visual Studio .Net (Microsoft E-Learning)
- 2010 Microsoft .Net Framework 3.5 Application Development Foundation (MCTS 70-536)  
Microsoft .Net Framework 3.5 ASP.Net Application Development (MCTS 70-562)
- 2011 Windows Mobile application development  
Android application development

## Work experience

(See appendix A for more details)

### **March 2009 – Today**

Gateway NV

Senior Software Engineer

Develop and implement new features and functions for the BookXpress e-commerce software.

Develop applications for windows mobile and android devices.

### **February 2007 – March 2009**

PLDS

Senior Software Design Engineer

Define and implement new functions, algorithms for the BluRay 2<sup>nd</sup> generation product.

### **February 2005 – January 2007**

Philips ETS

Senior Software Test Engineer

Define and implement system tests for the BluRay product.

### **February 2003 – January 2005**

Philips AppTech

Senior Software Engineer, Software Test Engineer, Integration Test Engineer

Define and implement integration tests for the HDD-DVDRW combi products.

### **January 1998 – January 2003**

Philips Industrial Activities, Hasselt

Optical Storage

Senior Software Engineer

Define and implement SW for CDDA and CDRW products.

### **September 1990 – December 1997**

Siemens Atea

Software Engineer

Define and implement SW for mobile communications networks (GSM, UMTS)

# Appendix A: Detailed work experience

## 1. GATEWAY NV

Period	Results delivered	Function
Mar 2009 – today	BookXpress online booking engine	Senior Software Engineer

Gateway specializes in e-commerce for the travel industry. We offer the most practical booking engine for selling airlines tickets, hotels and cars and complementary products. Our solution is a complete solution meaning that Gateway not only develops the booking engine but is also in charge of its hosting and can add customized content.

### Project

The aim of the project is to develop and maintain the BookXpress e-commerce software. This software is a web-based booking engine allowing customers to book airline tickets, hotel reservations and car rentals online. The software exists of a back-end engine, written mainly in ColdFusion. The front-end is written in HTML, jQuery and javascript, and is fully designed around the customer specifications and layout. Interfacing with customer webservices and Ogone online payment system.

### Activities

- Senior Software Engineer:
  - Define, together with the other architects and engineers, new features and functions on the flight booking engine back-end software (BookXpress).
  - Develop applications in .Net (C#) and ColdFusion to implement new features and functions.
  - Develop Windows Mobile app.
  - Develop Android app.
  - Participate in a stand-by shedule for the nights and weekends.
  - Communicate with all internal and external parties.
  - Make software implementation planning.
  - Responsible for several customers front-end design and development.
  - Review the code from other developers.
  - Assist and guide juniors (both front-end and back-end development)
  - Actively seeking feedback on the code by initiating code reviews with colleagues
  - Understanding other designer's code and make enhancements or bug fixes
  - Document the design, code and test, write reports
  - Update the error database according the problems found during software testing

**Systems (hw/os)/Software packages/Programming languages/Methodologies used**  
SVN, Eclipse, Visual Studio 2010 (C# .Net), ColdFusion, HTML, javascript, jQuery, AJAX, Android

## 2. PHILIPS LITE-ON DIGITAL SOLUTIONS (PLDS)

Period	Results delivered	Function
Feb 2007 – Mar 2009	BluRay 2 <sup>nd</sup> generation drives	Senior Software Engineer

PLDS is a joint venture between Philips and Lite-On that develops and manufactures industry-leading optical storage products for sale through OEM channels worldwide. The PLDS-ARC, Advanced Research Center is located in Eindhoven, Netherlands.

The scope of the PLDS-ARC activities is: the development and introduction of advanced technologies and highly innovative systems for the optical storage market.

### Project

The aim of the project is to develop new features and functions for 2<sup>nd</sup> generation BluRay products.

Another major activity of the project is to generate new IP (Intellectual Property), patents in the BluRay domain.

### Activities

- Senior Software Design Engineer:
  - Define, together with the other architects and engineers, new features and functions on the Blu Ray recorder platform in cooperation with MediaTek and Lite-On
  - Supertune (write strategy tuning) feature architecture, design and implementation
  - Develop application in C# .Net to validate the supertune feature
  - Develop Supertune write strategies on Mediatek and Marvell platform
  - DisKey features architecture, design and implementation ( Cryptography project )
  - Develop application in C# .Net to validate the DisKey features
  - Develop and maintain automated test scripts using VBA, C# .Net under Visual Studio
  - Transfer features and implementation to Lite-On in Taiwan
  - Make software implementation planning
  - Responsible for OPC feature (optimal power calibration), track and trace progress.
  - Review the code from junior developers
  - Assist and guide juniors (both system and software)
  - Actively seeking feedback on the code by initiating code reviews with colleagues
  - Translate mathematical algorithms from our system engineers into code
  - Understanding other designer's code and make enhancements or bug fixes
  - Document the design, code and test, write reports
  - Update the error database according the problems found during software testing
  - Contribute to literature, conferences and IP (Patents)
  - Give workshops for colleagues on using the developed test applications

### Systems (hw/os)/Software packages/Programming languages/Methodologies used

BluRay HW, MediaTeK chipset, CVS, C, C#, VBA, Visual Studio ( C# .Net), AES cryptography

### 3. PHILIPS EMERGING TECHNOLOGIES AND SYSTEMS (ETS)

Period	Results delivered	Function
Feb 2005 – Jan 2007	BluRay BD-1 drive	System Test Engineer

Philips Optical Storage (POS) is a Business Group that develops and manufactures industry-leading optical storage products for sale through OEM channels worldwide.

The scope of the ETS activities is: the development and introduction of advanced technologies and highly innovative systems for the optical storage market. The manufacturing and selling of the products is not within the scope of ETS, this is done by the other Business Lines of POS.

#### Project

The aim of the project is to develop a BluRay product.

BluRay Disc Drive development is the main project of POS. The BluRay drive is a triple writer, which is capable of reading / writing on DVD, CD and BluRay discs. This will be the first drive in the market, which is backwards compatible with all media types.

A first generation of this drive is currently under development, together with BenQ.

Intelligent features of the drive:

- Optimum Power Calibration
- Calibration Management
- Write Strategy
- Write Defect Detection

Automated Test Tools written by me (in Visual Basic for Applications):

- Barcode 2 Eeprom Tool
- Passport 2 Eeprom Tool
- OPC Validation Tool
- Calibration Management Validation Tool

#### Activities

- System Test Engineer:
  - Define, together with the other architects and engineers, a strategy for testing the delivered software
  - Maintain a System Test Plan
  - Review the system test documentation
  - Execute the system tests as defined in the test strategy
  - Update the error database according to the problems found during testing
  - Install and maintain an automated test environment using the SoftFab environment
  - Define and execute Use Case tests, Exploratory Tests.
  - Develop and maintain automated test scripts using VBA.

#### Systems (hw/os)/Software packages/Programming languages/Methodologies used

BluRay HW, Centaurus chip, ClearCase, Change Synergy, TMap, Excel (VBA)

## 4. PHILIPS APPLIED TECHNOLOGIES (FORMER PDSL)

Period  
Feb 2003 – Feb 2005

Results delivered  
HDRW-720 / 725

Function  
Senior Software Engineer  
Integration Test Engineer

### Project

The project consisted out of 3 sequential products, DXC, SXC and HDS. The aim of the project was to develop a product combining a Hard Disk Recorder and a DVDRW recorder. The device supports features like:

- Time Shifting (Pause Live TV and resume Live TV as it suits you)
- One Touch Recording
- Playback of A/V from the hard Disk and from a DVD(+R(W)).
- Simultaneous recording and play back to/from the HDD
- Timed recordings to the HDD
- Archiving programs from the HDD to a DVD+R(W)
- Editing of titles on the Hard Disk
- Editing on DVD+R(W)
- Recording Digital Video input on the HDD
- GUIDE Plus+ for point-and-click programming (Electronic Program Guide)

The DXC project realized this on an existing DVD+RW platform by adding a Hard Disk. The SXC project combined the three PCBs from the DXC onto one board and integrated the three Software stacks onto the single PCB. The idea of the HDS (Hard Disk Server) project was to connect wired/wireless external clients to be able to play back recorded streams from a different location, but this project was cancelled.

### Activities

I had different functions throughout the project:

- Integration Test Engineer:
  - Define, together with the other architects and engineers, an integration strategy for integrating and testing the delivered software
  - Maintain an Integration Plan
  - Review the integration test documentation
  - Execute the integration tests as defined in the test strategy
  - Update the error database according to the problems found during testing
  - Install and maintain an automated test environment using the SoftFab environment
  - Define and execute SAPI (Service Layer API) tests
- Pre-Build Integrator:
  - Add deliveries to the pre-build environment and test them for release.
  - Maintain the error database.
- HW-SW Interfacing:
  - Prepare new hardware sets and deliver them to the development and test engineers.
  - Debug test sets with errors
- Performance Measurements:
  - Define and execute performance measurements on the daily builds.
  - Define and develop the PseudoIdle performance measuring tool

### Systems (hw/os)/Software packages/Programming languages/Methodologies used

W2000, Chrysalis chip, Continuus, Change Synergy, TMap, Diab C compiler, Test Generator (PDSL Tool)

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## 5. PHILIPS INDUSTRIAL ACTIVITIES

Period	Results delivered	Function
Jan 1998 – Jan 2003	Various products	Senior Software Engineer

### Project

Optical Storage, Audio-Video	CD-Pro, CDR-765, CDR-775
Optical Storage, CD-R/RW	Combi2, 32X, 24X, 16X, 12X
BL Data, DVD+RW	Data3

### Activities

- Software development and version control of different products. Active cooperation in writing of specifications and requirements. Writing of detailed module designs. Applying Structured Analysis/ Structured Design methods. Software designs, writing Message Sequence Charts.
- Analyzing problem reports (PR-database) and solving bugs. Using different debug tools.
- Assisting in making progress reports, software plans and project plans.
- Involvement in ISO-9000, SPI and CMM activities.
- Important contributions made in subprojects (platform development)

### Systems (hw/os)/Software packages/Programming languages/Methodologies used

W2000, Centaurus chip, ClearCase, Diab C compiler, POS TestTool, UltraEdit

## **6. SIEMENS ATEA**

Period  
Sep 1990 – Dec 1997

Results delivered  
Various products

Function  
Software Engineer

### **Project**

B900 – Belgian GSM project.  
C450 Mobile Communications.  
Authentication for UMTS.

### **Activities**

- Contributing in very large software projects (up to 200 members). Learning to work in a team, under high pressure.
- Contributing in ECC study projects, in cooperation with other companies and universities across Europe.

### **Systems (hw/os)/Software packages/Programming languages/Methodologies used**

W2000, OS/2, ClearCase, Test Tools

# Home projects

As a hobby and also as a means to keep up with the latest developments in software programming languages, I did several small projects at home.

## TOOLSTOOLS

[www.toolstools.tk](http://www.toolstools.tk)

ToolsTools is a small package of tools to enhance your TomTom Navigator for Pocket PC. ToolsTools is a Pocket PC application written in C#.

### New Experiences

- C# (Visual Studio 2005)
- .Net Framework
- TomTom SDK

## MIO MAGIC

[www.miomagic.co.nr](http://www.miomagic.co.nr)

MioMagic is a Windows application that manages the POI (Points Of Interest) on your Mio GPS device. It's a C# .Net application and requires the Microsoft .NET Framework v2.0.

### New Experiences

- C# (Visual Studio 2008)
- .Net Framework
- SQL

## SUNNYSHINE

[www.sunnyshine.co.nr](http://www.sunnyshine.co.nr)

SunnyShine is a solar plant logging system, based on a Linux Fox Board box. This box communicates with the solar inverter by means of serial RS485 communication. This box serves also as a webserver to read out the data.

The purpose of this project was to develop a low cost monitoring system, to read out the most important data from my solar plant at home.

The data should be stored in a SQLite database, and accessible via a web interface. Also, some diagnostics data should be made visible.

Having a wireless LAN at home, made it also interesting to have an interface on the Pronto Professional remote and the PSP of my son.

### New Experiences

- Linux
- SQLite
- PHP