



## Curriculum Vitae – Marcus Hirt

### Education

#### Elementary school

Nytorpsskolan (1<sup>st</sup> to 3<sup>rd</sup>)  
Adolf Fredrik's Music School (4<sup>th</sup> to 9<sup>th</sup>)



#### High school

Real Gymnasium Kirchenfeldt in Bern, Switzerland (six months)  
Bandhagens Gymnasium, Science (first and second year)  
Åsö Gymnasium, Science & Technology (extended curriculum) (third year)

#### University

Royal Institute of Technology (KTH)  
MSc. in Comp. Sci. and Engineering



### Work

- **Svensk Impulsfysik AB (1989)**  
Soldering, EPROM-programming  
Total number of weeks: 12
- **Ludwig Institute for Cancer Research (1994-07-01 – 1994-08-04)**  
Installation and configuring of an ethernet network for the entire lab. Development of a patient database in a 4GL (4<sup>th</sup> dimension) to track patients and tumours.
- **New Media Studios AB (1995-05-22 – 1995-06-30)**  
Design and development of a web based CD-shop. Development of the frontend and the SQL needed. Installation, upgrades and adaptation of the programs and tool on the PC's and Mac's used in the project. Lots of CGI-programming.
- **Ludwig Institute for Cancer Research (1995-07-01 – 1995-07-31)**  
Maintenance and optimization of a database in a 4GL. Upgraded the network and hooked it up to the internet. Installation of internet related software. Responsible for ordering and installing the necessary hardware.
- **Misc. Jobs for Appeal (1996)**  
Worked closely with designers from Wildell International AB to produce homepages for different companies. Also created a web shop for selling used sports items (bicycles and such). The web store was continuously updated from the database in the real store.  
Total number of weeks: 8
- **Teacher (1998-06-10 – 1998-06-18)**  
Worked as a teacher on a summer's course at Skärholmens Gymnasium. The aim of the course was to raise the interest in Science among girls in the 7<sup>th</sup> and 8<sup>th</sup> grade.



➤ **Appeal Software Solutions AB (1998-09-07)**

Aside from regular consulting, also ran operations. Vice president since 1999-09-15.  
Consultancy projects included:

- **CAG Lan International:** During the development/porting of their document handling system, CAG ran into some COM and design related problems. I worked as a teacher/mentor on COM, and helped solve various technology/design issues.
- **Spray:** The developers at Spray was developing a search service, and needed help with an abstraction for the communication with the Inktomi service, and to ensure as high performance as possible. I designed, under great time pressure, a class library in Java for communication over IDP (Inktomi Data Protocol). The library had features such as connection pooling etc. The project lead, Erik Landell, later told me that my library was successfully used for years until they finally stopped using Inktomi altogether.
- **Astra:** Helped with design, mentoring and developing components used by the other developers on a project for creating a huge system for consolidating sales statistics.
- **BlueBrim:** Design and implementation of a new framework for image processing for a layout editor.

➤ **BEA Systems acquires Appeal (2002-02-14)**

Full time on serviceability features for the JVM and Mission Control. This is basically what I have been working on since. Here are some highlights:

- Wrote the first JVM management API (JMAPI) together with a colleague (Calle Wilund), which ended up influencing JSR-174.
- Mission Control team lead and architect. Spent a lot of time inventing tooling and the necessary technology to drive the tooling.
- Worked out of the BEA Hong Kong office and Seoul for a few months. Got upset with JFreeChart and wrote the basis for the GreyChart charting library over a weekend. GreyChart is still used in Java Mission Control.
- Invented and implemented the JRocket JDP (now Java Discovery Protocol) for automatic discovery of manageable JVMs.
- Wrote the first MBean based management API for the JRocket JVM (JLMEXT), later to become JMXMAPI.
- Blogs at <http://blogs.oracle.com/hirt> and <http://hirt.se/blog/>.
- Have spoken at conferences such as:  
JavaOne  
EclipseCon  
Oracle Open World  
Oredev  
Expert Zone Developer Summit  
Nordev  
(also various Oracle tech forums and developer conferences, mainly in Asia)
- Have written various white papers and articles.
- Have written a highly rated book (see below).
- Met with and helped high profile customers, such as McKesson, Citigroup, Wells Fargo, AOL, eBay and others.



- Consistently get very high ratings in the yearly evaluations by Oracle/BEA.
- **Consulting Member of Technical Staff at Oracle (2008-06-01 - ongoing)**  
Lately my primary role has been to work with the various JVM teams, the Mission Control team, Enterprise Manager, Fusion Apps, Fusion CRM, WebLogic Diagnostics Framework and other teams at Oracle to improve the production time diagnostics and profiling story for Java in general and more specifically for the Fusion platform.



## **Languages**

Swedish – Fluent (Native, ILR Level 5, CEFR Level C2)  
English – Fluent (Full professional proficiency, ILR Level 4+, CEFR Level C2)  
German – Independent (Limited working proficiency, IRL Level 2, CEFR Level B2)

## **Programming Languages**

### **Skilled in:**

Java, C/C++/Objective C

### **Was once skilled in:**

Scheme, Basic, Prolog, Smalltalk, Pascal, SQL, assembler (68k, 80KB196), XML

## **Tools and Techniques**

### **Working knowledge of the following tools:**

Eclipse, VisualStudio/Visual C++, VisualWorks, Perforce, Subversion

### **Modelling techniques:**

UML

### **Project frameworks:**

DSDM, Scrum

## **Other computer related knowledge**

Good working knowledge of most major software packages, including:

- MS Office
- Photoshop
- Cubase
- Wavelab
- Autodesk Inventor



## Other

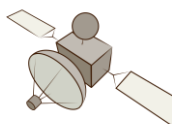
- **1979-ish**  
Started singing in the Stockholm Boys Choir.
- **1982-ish**  
Step dad brought home a ZX-81 – the first computer I learned to program.
- **1993 Extended Curriculum and Scholarships**  
To keep my options open, I opted for an extended curriculum in high-school. This basically meant that I read some extra courses from other educations than my own. My high grades granted me scholarships, such as Gålöstiftelsens Stipendium.
- **1995-ish**  
To my surprise found one of the applications I'd written for fun to teach myself MFC in a Swedish computer magazine.
- **1996 Founded Appeal**  
Founded, together with six friends from KTH (the Royal Institute of Technology), the company Appeal Data Consulting & Multimedia HB.
- **1997 2<sup>nd</sup> place in the university music contest that takes place at KTH every fourth year**  
Played the piano in the band that was voted 2<sup>nd</sup> in the big Q-arne-val melody festival at KTH, in front of thousands of screaming students. We lost to a professional band.
- **1998 Speaker at the STIMDI conference '98**  
Led the group of eight students in the ACPU-project (user centered programming development) that produced the best results and was chosen to represent the KTH at the STIMDI conference '98.
- **1998 - 2001 Member of the Board of the Swedish DSDM Consortium**  
Part of the group that established DSDM (Dynamic Systems Development Method) in Sweden. I was in charge of the group for Education and Accreditation.
- **2006 One of the lead developers of FairDJ**  
Built an MSERV compliant music server in Java together with friends.
- **2010 Wrote a book**  
The book is about the adaptively optimizing Java runtime JRockit. That said, much of the book is valid for adaptively optimizing runtimes in general. The book is named "Oracle JRockit: the Definitive Guide", and has been very well received.



Some comments from readers:

- <http://blog.eisele.net/2010/11/review-oracle-jrockit-definitive-guide.html> – “This is my personal view about the most stunning Java related book of 2010!”
- [http://blogs.oracle.com/csoto/2010/06/oracle\\_jrockit\\_the\\_definitive\\_guide\\_book\\_-\\_my\\_humble\\_review.html](http://blogs.oracle.com/csoto/2010/06/oracle_jrockit_the_definitive_guide_book_-_my_humble_review.html) – “As its name says, this book is, in fact, The Definitive Guide. It's hard to be more exact than that. I strongly recommend it.”
- <http://blogs.oracle.com/olaf/> – “Before I started to read this book, I was a bit biased and expected the typical collection of feature description. But this book surprised me considerably.”

The book on Amazon: <http://tinyurl.com/jrockitbook>



- **2011 skybot.se**  
Built a web application which is used by hundreds of R/C aficionados in Sweden. The application notifies when the weather is suitable for whatever conditions you think defines suitable weather. There is also a companion app for iOS on the AppStore which is quite useful to have on the field. I originally built it for myself, but it is now used by people for all kinds of hobbies, including paragliding and sailing.

(Note: Since moving to Switzerland, I've sadly not maintained it, so it is no longer up and running.)



- **2015 Coff-E**  
Designed and built an autonomous robotic vehicle programmed using Java. I named it Coff-E, since the laser range finder made it look like Wall-E, and, well, java is a sort of coffee.

The robot generated a lot of interest in the exhibition hall at JavaOne 2016, and got high praise from someone who used to be an embedded expert at the former Sun Microsystems.

JavaOne 2016 presentation: <http://tinyurl.com/cofferobot>



- **2016 3D Design and Printing**  
Started publishing my 3D designs on Thingiverse and Cult3D:

Thingiverse: <http://www.thingiverse.com/Graystone/designs>

Cult3D: <https://cults3d.com/en/users/Greystone/creations>



- **2016 JfrAgent**  
Built a custom byte code instrumentation agent for injecting Java Flight Recorder events into arbitrary Java Code

- **2017 Robo4J**  
I am one of the two main contributors to Robo4J - a robotics framework aiming to make it easier to build robots and control them using Java. Robo4J won the Duke's Choice Award 2017.



- **2018 OpenJDK Mission Control Project Lead**  
In 2018 what was formerly known as Java Mission Control was open sourced and rebranded JDK Mission Control. I am the project lead and one of the main contributors.

- **2018 JMC Flame Chart Plug-in**  
To whip up some interest in contributing to JDK Mission Control, I created a flame chart plug-in for JMC.

GitHub: <https://github.com/thegreystone/jmc-flame-view>



- **2008 - ongoing**  
Contributed blogs and code to the JavaCommunity. Code that has later been incorporated into various open source projects. Most of the source is on the blog, but I have recently started putting some of it on GitHub.

The blog: <http://hirt.se/blog/>

GitHub: <https://github.com/thegreystone>



- **Contributions to Médecins Sans Frontières**  
I have on several occasions made good money for MSF by doing private tech presentations for various companies, in exchange for donations to MSF.

For example: <http://tinyurl.com/msfhirtshuberg>

If you want to help, check out: <http://www.msf.org/>.



- **Kiva.org**  
I lend on Kiva on a regular basis:  
<https://www.kiva.org/lender/hirt>

- **Driver's License for Car and Motorcycle**



- **Diver**
  - NAUI Open Water divers license
  - NAUI Dry Suit Specialty license
  - PADI Advanced Open Water divers license



- **1<sup>st</sup> kyu in Ju-Jutsu as well as C level teacher certification**  
Used to teach and train Ju-Jutsu, but had to quit when I moved and the travel time to the club simply got unsustainable.
- **3 years of Shaolin Kung-fu**  
After the Ju-Jutsu, I practiced Shaolin for several years until I moved yet again. I haven't been practicing martial arts since 2005. I guess I got too old.
- **Various Software Development and Process Certificates**  
I have various certifications, such as Sun Certified Java Programmer and the DSDM version of Scrum Master. If they are of interest, I'd be happy to dig them up.

### **Hobbies:**

- Coding
- Playing the Piano
- Playing the Guitar (badly)
- Composing Music
- Scuba Diving
- Martial Arts (was once a martial arts instructor in Ju-Jutsu, also did Shaolin Kung-Fu for several years)
- Flying and building R/C helicopters and airplanes
- Designing and building custom hardware for use with the Raspberry PI
- Driving my MC

**Family:**

I live in Küssnacht am Rigi, Switzerland, together with my wife and four kids.

**More information:**

- <https://twitter.com/hirt>
- <http://ch.linkedin.com/in/mhirt>
- <http://hirt.se/blog>