December 10, 2013

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## General

Date/Place of Birth 10 October 1964, Amsterdam, The Netherlands

Marital Status Married

Nationality Dutch

Languages Excellent knowledge of English and Dutch.

Good knowledge of German. Fair knowledge of French.

Contact Address see above

# **Academic Qualifications**

Master of Science University of Technology, Delft, The Netherlands

September 1983 to May 1989 in Electronics Engineering.

Finals "Vossius" Gymnasium, Amsterdam, The Netherlands

September 1977 to June 1983 in Mathematics, Physics, Chemistry, Biology, English, Dutch and Ancient

Greek Language.

## **Professional Experience**

Software Developer/Architect Boğazici University, Istanbul, Turkey

January 2010 until present Working as a Project Associate in the ATLAS experiment at CERN.

The project associateship involved several projects, the Operation Task Planner (OTP), work on the Operation and Upgrade Websites and the creation of an interactive Web Application for the ATLAS Wireless Safety System (ATWSS).

I am in charge of OTP, which is a bookkeeping tool for shifts, expert tasks and service work in ATLAS. People in ATLAS book their shifts and log their service work in OTP. OTP itself consists of an Oracle database keeping data of approximately 800 tasks, a Web interface written in Java using the Google Web Toolkit (GWT) to enter and modify all these tasks, and a Business Objects (BO) reporting system to generate weekly reports. Documentation on OTP is all kept in a Wiki, where also weekly reports are generated. I take care of implementing new features in OTP as well as support calls made by people in ATLAS.

The work on the Operation and Upgrade Websites consists of rewriting most of the web pages in a more streamlined application.

The ATLAS Wireless Safety System involves a readout system and display of information. Workers in the Cavern are equipped with a Helmet with camera and measurement devices to keep track of radiation dose, oxygen and CO2 levels, body temperature and other physical parameters. This info is displayed for them and for supervisor in the Control Room or in the Cavern. The procedure to be followed is shown in short movies to the workers in the cavern to keep their time in the cavern to a minimum. Eventually this system should project the procedure superimposed over their real (camera) view in a form of augmented reality. A Data Acquisition System involving the readout of the ATWSS system and storage in an SQL database was created in Java. The display of values and graphs as well as videos are in a Web Application using GWT to handle the diversity of browsers and Atmosphere for the asynchronous update of all information.

Software Developer/Architect

Sonatype, the maven company, California, U.S.A.

October 2009 - December 2009

Worked on the migration and further development of the Native Archive Plugin (NAR) for Maven (a build system in Java) and its sub components. This plugin was first developed by me when I worked at SLAC (see below). Sonatype expressed an interest in further developing it. This plugin handles compilation and linking of native languages under maven. This NAR plugin has since been distributed as open source software and is maintained by a group of people elsewhere.

Software Developer/Architect

Riscure B.V., an independent security test laboratory in Delft, The Netherlands.

January 2007 - September 2009

As a Java architect I maintained and further developed the software for the Inspector testing platform. This software in use in-house at Riscure but also bought and used by customers does both data acquisition as well as analysis of data gathered by security analysts. Inspector was extended with new features such as GPU computing, new types of plots.

On top of development of Inspector itself a software process was put in place consisting of a mercurial as software configuration management, maven as build system, mantis as issue tracking system and hudson as continuous integration system.

Almost all of the work was done, with the necessary hardware, in a remote location.

Staff

SLAC Computing Services at the Stanford Linear Accelerator Center, California, U.S.A.

May 2002 - December 2007

As a Staff employee at SLAC I work under the direct supervision of Dr. Tony Johnson, in software development group of four people. This group provides analysis and visualization software for SLAC's experimental programs, such as BaBar (B-Physics Experiment), GLAST (Gamma Large Array Space Telescope) and LCD (Linear Collider Detector).

To support our work as a group I am mainly involved in developing tools for visualization (WIRED 4), the protocol for Event Display data exchange (HepRep), the simulation driver for HepRep (Geant4), the implementation of interfaces for data analysis (AIDA), the base library (FreeHEP) and its graphics output library (Vector Graphics). I also maintain most of the infrastructure for our software development, such as the revision control system, the build system, a bug reporting system and a system for continuous integration.

Some of our work has spun off software libraries that are useful for others and have been released by us as Open Source software. I keep these libraries up to date and help others (mainly from outside High Energy Physics) to use it and we reintegrate their improvement which is a benefit to our group.

During the past 5 years our group has welcomed many students to work with us on our software, several of which fell under my direct supervision.

Below a little more information on each of the subjects that I have been working on in particular:

Visualization

I completely rewrote WIRED (WWW Interactive Remote Event Display), thereby producing a much more scalable and extendible event display framework. We upgraded from HepRep1 to HepRep2 (High Energy Physics Data Protocol for Event Display) which made interaction between WIRED and its data source a lot easier. WIRED 4 which runs inside the Java Analysis Studio (JAS3) allows the user to display and interact with High Energy Physics events. Picking of tracks and hits and displaying extra information is now all possible.

For the GEANT4 simulation program, used in High Energy Physics and beyond, I wrote visualization output drivers in C++ for both the HepRep1 and HepRep2 formats. For compression I needed the Open Source zipios++ library with quote some changes, which were all contributed back to that project.

As part of our group effort to reach more users, we put together a GEANT4 Tutorial CD, which included two main parts on Analysis with JAS and Visualization with WIRED. The tutorial is available from SLAC and has

been run several times as part of the SLAC/GEANT4 program as well as at the 2005 CERN School of Computing.

Analysis

For data analysis AIDA (Abstract Interfaces for Data Analysis) provides a standard. I actively took part in defining this standard with others from SLAC, CERN and LAL. Our implementation in Java (JAIDA) was written by others in the group. I built a glue-layer (AIDAJNI) to make the Java AIDA implementation interact with the C++ AIDA implementation (written at CERN/LAL). To make sure the interfaces in Java and C++ were equivalent I built a compiler to derive the interfaces from a generic definition: AID (Abstract Interface Definition).

Base Library and Vector Graphics

To support reuse in our own work we set up the FreeHEP Java Libraries in our group. Both WIRED and JAS use this library extensively. The library contains both High Energy Physics parts and more generally useable parts. The latter are used by many people outside HEP, as part of our Open Source effort. I worked in particular, with other people mainly from outside HEP, on the Vector Graphics part of FreeHEP. Vector Graphics allows the user to output whatever he draws on the screen in publishing quality vector output formats, such as PostScript (PS), Portable Document Format (PDF), Enhanced Meta File (EMF), Scalable Vector Graphics (SVG) and Macromedia Flash (SWF).

Software Infrastructure

JAS, WIRED and FreeHEP make up some 3000 classes in total for which we initially set up the CVS (Concurrent Versioning System), ANT (a make-like build tool in and for Java) and our in-house scripts for compilation checking and testing. In the past two years I migrated this infrastructure over to SVN (Subversion, the replacement of CVS), Maven, a far more powerful build system than ANT), and a combination of Continuum and CruiseControl, both tools to continually integrate and test the software. On top of these tools we use JIRA, a Bug Tracking, Issue Tracking, & Project Management system. Tony and I share the burden of keeping all these systems in place and up to date.

I am using Eclipse (Open Source Integrated Development Environment in Java) as my main working environment for both Java and C++, though all of our software also builds from the command line and runs on the main four platforms (Windows, Linux, MacOS X and Solaris).

Experimental Work

Apart from the regular work in our group I have been experimenting in adding Native code compilation to the Maven tool in the form of the NAR-Plugin (Native Archive Plugin for Maven). The first results on this work have been well received in the our own community but maybe more important also in the Maven developer and user groups.

Recently I have invested time in the usage and extension of the Open Source SWIG (Simplified Wrapper and Interface Generator) tool, which would in the first place allow us to generate most or all of the code of AIDAJNI. It could also create a more general bridge between a lot of the High Energy Physics C++ software and our Java Analysis and Visualization software. In particular I have made mockups of MarlinJava (Java interface to Modular Analysis and Reconstruction for the Linear Collider) and G4Java (Java interface to GEANT4). The latter would allow a user to program and run GEANT4 from Java.

November 2001 - April 2002

While waiting to immigrate to the U.S.A. I worked on the Open Source Vector Graphics package of FreeHEP.

Staff

ECP and IT divisions of the European Organization for Nuclear Research (CERN), Geneva, Switzerland.

November 1995 - October 2001

As a Staff member of CERN I have been working for Dr.P.Palazzi, Dr.G.Kellner in the IPT group (Information and Programming Technology) and more recently for Dr.J.Knobloch in the API group (Applications for Physics and Infrastructure). Over the past 6 years I worked on the following subjects:

AIDA:

I participated in the definition of the Abstract Interfaces for Data Analysis, which define a set of generic interfaces in both C++ as well as Java, for Histograms, NTuples, Plotters, Fitters, Functions and other categories. These interfaces are currently supported by JAS (Java Analysis Studio) and Anaphe and may be supported by other analysis frameworks in the future. The AIDA initiative is well supported by the LHC experiments.

HepRep:

The HepRep definition follows the same concept as AIDA, except for HEP Representables for Event Display. The standard is being defined by BaBar-WIRED (SLAC) and ATLAS-WIRED (CERN), and is currently implemented on both sides. It allows physicists to select what data they would like to see and filter it, and it allows event display writers to stick to one standard which could be used by more experiments.

JACO:

To connect Java better to C++ one can use the JNI and a lot of handwritten glue code. JACO, Java Access to C++ Objects, allows for automatic generation of this glue code, by parsing the C++ header files and generating that code. The parser was written-generated by me, while the generator was written by Tony Johnson at SLAC. The project is in a fairly advanced state.

FreeHEP:

is a Java Library of reusable components for HEP and made by HEP. It is an Open Source project of SLAC, SCIPP and CERN to leverage on common Java code produced in the JAS and WIRED projects. AIDA (java), HepRep and JACO are all included in the FreeHEP library.

WIRED:

In january 1996 a project was launched under the name WIRED, which stands for World-Wide Web Interactive Remote Event Display. In collaboration with an Italian and Swedish institute we looked two things: the applicability of Java in our HEP environment, and the need for showing and interacting with events from HEP experiments across the Internet. I took the roles of project leader and main architect. A prototype of WIRED, running inside a WWW browser, was delivered after half a year.

Over time the Java language has improved and so has the WIRED project. Today WIRED is a framework for experiments to build their event displays. It is integrated with JAS (Java Analysis Studio) so that physicists can use one interactive tool to do physics analysis, plot histograms and look at events. Several experiments at CERN and outside have joined the project and are either using WIRED (BaBar and CHORUS) or seriously looking into using it (ATLAS, LHCb)

WIRED event displays have also proven to be useful to explain High Energy Physics to the general public. Both CERN, in its traveling exhibition and MicroCosm, and RAL, during its open days, have displays set up. CERN has also recently released a CD-ROM which included WIRED.

Apart from 3D event displays WIRED also provide useful projections, such as a fish-eye, rho-Z and V-plots, which provide special views to get a better understanding of some of the more complicated events.

The collaboration of WIRED and JAS has spun off the FreeHEP library. Both projects are Open Source, which mean that people from outside can use the code, but also contribute to it. The organization of the WIRED project is in my hands. Over time many students, among them summer students, technical students and graduate students from different universities, have worked on the WIRED project under my supervision. Also many people from different institutes are collaborators in the WIRED project.

Java Installation at CERN:

To properly support Java for the WIRED and FreeHEP project and for the GRID initiatives at CERN, Wolfgang Hoschek and I keep a full Java installation and library repository up to date for both the Unix and Windows machines. This work is a continuation of an earlier initiative by the Java Study Group. The installation is also in use by several other groups and experiments.

Teaching, Technology Transfer and 3rd level Java support:

level Java support: The work in Java on the WIRED project lead to some activities. One is consulting to the LHC Computing Workshops, to the experiments as well as to the Java Study Group. The latter group tries to boost the use of Java within CERN by providing software installations and libraries as well as tutorials on Java subjects.

The other is in the form of technology transfer and teaching. I have been lecturing at the CERN School of Computing, in 1995, 1997, 1998 and 1999, on subjects ranging from Information Systems, XML, CORBA and Java to Mobile Agent Technology, a subject which is likely to come back within the Datagrid initiatives. I participated as lecturer and organizer in the WebCast of the 1999 CERN School of Computing, which was a big success. Several short courses in different subjects were given by me in the Summer Student Software Labs in 1997, 1998 and 1999.

Miscellaneous: I am currently participating in the Windows 2000 Migration Task Force as a representative of the IT/API group. I also contribute to the W3C meetings at CERN which mainly focus today on XML issues.

Associate

Electronics and Computing for Physics division of the European Organization for Nuclear Research (CERN), Geneva, Switzerland.

April 1995 - October 1995

Under supervision of R.Cailliau and Dr.P.Palazzi I worked in the programming Technology group of ECP. The work consisted of supporting the WWW server for CERN and the Experiments and doing research in the field of connecting existing databases and information systems to the World-Wide Web. F.Tenneboe, technical student under my supervision, created EDWIN (Event Display with WWW INterface) in which physics events can be shown via World Wide Web. This form based event display had a certain level of interactivity (zoom, rotation and panning).

WWW Building Interface:

A graphics drawing package and a coordinate database was used by me to create a WWW interface to the map of buildings (500) at the CERN sites.

CSC:

I organized a track of the CERN School of Computing '95 in Arles, France, where I presented together with B.Rousseau and H.Lie lectures and tutorials on WWW for Physics.

EU Fellow

Electronics and Computing for Physics division of the European Organization for Nuclear Research (CERN), Geneva, Switzerland.

October 1994 - March 1995

The EU sponsored my fellowship at CERN for half a year. I worked on the WISE project, outside CERN. This project establishes WWW servers for

small enterprises in countries in Europe where Internet connections are still rare and expensive. The project was under supervision of R.Cailliau.

Fellow

Electronics and Computing for Physics division of the European Organization for Nuclear Research (CERN), Geneva, Switzerland.

January 1992 - September 1994

Communication Systems and GUIs: As a Fellow, working for Dr.Ph.Gavillet, I designed an event driven communication system (DIM) together with C.Gaspar, who subsequently implemented it. This system was needed for DUI, the Delphi User Interface, a configurable Motif based interface for the DELPHI Online Data Acquisition and Slow Control System. I designed and implemented almost all of this system, using C, UIL and DIM.

I then redesigned the communication system, which DELPHI used to have with LEP, to make it conform to the DUI and DIM standards.

WWW Server: As a separate project I worked on the setup of DELPHI's World-Wide Web (WWW) server, for which I first ported the CERN-WWW server to OpenVMS. This server is now also in use by other VMS machines in the rest of the world. A converter was built to convert SDML (Digital's version of SGML) into HTML by D.Chardon, a Technical Student under my guidance.

WWW Gateway: As part of the integration of DELPHI into WWW I have set up a HIPE (Slow Control User Interface) to WWW gateway as well as a DIM to WWW gateway. Both were designed by me, but the latter was implemented by K.Rodden, a summer student under my supervision.

Research Associate

High Energy Physics Department of the "Nationaal Intituut voor Kern- en Hogere Energie Fysica" (NIKHEF-H), Amsterdam, The Netherlands.

June 1989 - December 1991

DELPHI Inner Detector: After my studies I started working, under supervision of Dr.J.Timmermans and Dr.Z.Hajduk, for the Inner Detector Group of the DELPHI experiment on the Large Electron Positron Collider (LEP at CERN). For this group I was in charge of the Slow Control software (VMS machines). I also participated in setting up the Data Acquisition Software and was responsible for maintenance and monitoring of the Inner Detector during data taking.

Slow Controls User Interface: During this time I created a configurable user interface (HIPE) for the Slow Controls, which was eventually used by most of the other sub-detectors of DELPHI.

Laboratory Assistant

Electronics Department of the University of Technology, Delft, The Netherlands.

September 1987 - April 1989

Teaching and Network Installation: As a laboratory assistant I guided 3rd year students through their 'Digital Electronics Practical Work'. I also renovated this course substantially by introducing and installing a Novell PC network. I worked in the Electronics Department under direct supervision of Mr. Koolhaas.

Summer Job Physics Department of the University of Amsterdam, Amsterdam, The

Netherlands.

June 1987 - September 1987 Data Acquisition: At the Physics Department I designed read-out electronics

and wrote IBM-PC software (in PASCAL) to read out a tube-digitizer. I

worked under supervision of A. Wassink.

Summer Student Experimental Physics division of the European Organization for Nuclear

Research (CERN), Geneva, Switzerland.

June 1986 - August 1986 Communication Software: During this time I worked for B.van

Koningsveld on communication software for an IBM-PC computer to down-load Eprom-able code from a mainframe (MVS machine) into an

EPROM-Programmer.

## Participation in Schools, Conferences and Courses

Conference International Conference on Accelerator and Large Experimental Physics

Control Systems (ICALEPCS'11), Grenoble, France.

10 - 14 October 2011 Poster on "A C/C++ Buid System based on Maven for the LHC Controls

System".

Conference Computing in High Energy Physics (CHEP'07), Victoria, British Columbia,

Canada.

2 - 7 September 2007 Poster on "Mayen - A Build Tool for Java and Native Code Projects".

Tutoring CERN School of Computing 2005, Saint Malo, France.

4 - 17 September 2005 Data Analysis and Visualization in the Physics Computing track.

Conference Computing in High Energy Physics (CHEP'04), Interlaken, Switzerland.

27 September - 1 October 2004 Presented talk on WIRED 4.

Conference Computing in High Energy Physics (CHEP'03), La Jolla, California.

24-28 March 2003 Presented talk on FreeHEP.

Workshop Geant4 Space Users' Workshop 2003, ESTEC, Noordwijk, The

Netherlands.

20-22 January 2003 Presented tutorial on Geant4 Visualization and Analysis Systems.

Tutoring CERN School of Computing 2001, Santander, Spain.

16-29 September 2001 Presented the "WIRED and JAS" lectures of the "High Throughput

Distributed Systems" track, together with Tony Johnson from SLAC. Also included were three afternoons of exercises using a distributed version of

JAS (Java Analysis Studio).

Workshop HEPVis'01 workshop on visualisation and interactive data manipulation -

Boston, U.S.A.

2-5 May 2001 Presented "WIRED 2 - WWW Interactive Remote Event Display".

Workshop Orsay, Paris, France.

5-7 February 2001 Participated and organized AIDA (Abstract Interfaces for Data Analysis)

Mini-Workshop.

Workshop Orsay, Paris, France.

17-18 October 2000 Participated in GEANT4 workshop.

Training CERN, Geneva, Switzerland.

May 2000 Followed courses "Introduction to Databases" and "Advanced Databases".

Conference Computing in High Energy Physics 2000, Padova, Italy.

7-11 February 2000 Presented talk on "WIRED" and two posters one on the "CERN Building

and Map Interface via WWW and on the Palm" and the other on the "Java

Infrastructure in the CERN Software Repositories".

Tutoring Ecole Générale d'Informatique, Lyon, France.

22-26 November 1999 Presented "Agents in Java", "WIRED" and a set of exercises (reuse of

CSC'99).

Training CERN, Geneva, Switzerland.

18-20 October 1999 Followed course "Goal Directed Project Management Course".

Tutoring CERN School of Computing '99, Stare Jablonki, Poland.

12-15 September 1999 Presented "Agents in Java", "WIRED" and a set of exercises.

Workshop HEPVis'99: Fourth workshop on visualization techniques for High Energy

and Nuclear Physics - Orsay, France.

6-9 September 1999 Presented different topics of "WIRED".

Tutoring Summer Students Software Lab, CERN, 1999.

2-6 August 1999 Presented "Java Computing Using Mobile Agent Technology".

Training CERN, Geneva, Switzerland.

26-28 January 1999 Followed course "Objects 9000: Requirements Engineering".

Training CERN, Geneva, Switzerland.

3-6 November 1998 Followed course "Software Configuration Management".

Tutoring CERN School of Computing '98, Madeira, Portugal.

6-19 September 1998 Presented "Agents: Mobile Agents in Java" and a set of exercises. I also

organized together with two colleagues the WebCast of one of the tracks in

the CSC.

Tutoring Summer Students Software Lab, CERN, 1998.

10 -14 August 1998 Presented "Java Computing Using Mobile Agent Technology".

Workshop 2nd LHC Computing Workshop, Barcelona, Spain.

18-20 March 1998 Presented "ComponentWare in Java".

Workshop HEPVis'98: HEP Visualization and Data Analysis Workshop, SLAC,

Stanford, California, USA.

28-30 January 1998 Presented "WIRED".

Tutoring CERN School of Computing'97, Pruhonice, Czech Republic.

17-30 August 1997 Presented "Programming Information Systems" and a Java Tutorial in the

track "Information Systems for Physics Experiments".

Tutoring Summer Students Software Lab, CERN, 1997.

21 July-1 August 1997 Presented Java Tutorial.

Training Certosa di Pontignano, Sienna, Italy.

15-20 June 1997 School on "Distributed Algorithms and Fault Tolerance".

Conference Computing in High Energy Physics'97, Berlin, Germany.

7-11 April 1997 Presented talk on "WIRED - World-Wide Web Interactive Remote Event

Display".

Computing Seminar CERN, Geneva, Switzerland.

30 October 1996 Presented talk on "WIRED - World-Wide Web Interactive Remote Event

Display".

Conference Queen Elizabeth II Conference Centre, London, England.

23-27 September 1996 Attended "Object Expo Europe and Java Expo".

Computing Seminar SLAC, Stanford, California, U.S.A.

28 August 1996 Presented talk on "WIRED - World-Wide Web Interactive Remote Event

Display".

Workshop Dynamic Meta Computing, CERN, Geneva, Switzerland.

18 August 1996 Presented talk on "WIRED - World-Wide Web Interactive Remote Event

Display".

Computing Seminar CERN, Geneva, Switzerland.

7 February 1996 Presented talk on "World-Wide Web for High Energy Physics

Experiments".

Exhibition Toulouse, France.

24-28 September 1995 SITEF'95, CERN/WWW Stand.

Conference Computing in High Energy Physics'95, Rio de Janeiro, Brazil.

18-22 September 1995 Presented talk on "Advanced Use of World-Wide Web in the 'Online'

System of DELPHI (CERN)".

Tutoring CERN School of Computing'95, Arles, France.

20 August - 2 September 1995 Presented tutorial "Interfacing to the World-Wide Web" in the track "WWW

for Physics", including a set of exercises.

Invited Talk CERN, Geneva, Switzerland.

16 June 1995 Presented "World-Wide Web" for Swedish Highschool Teachers.

Training CERN, Geneva, Switzerland.

15-17 May 1995 Followed Course in "ESA Software engineering standards".

Tutoring CERN, Geneva, Switzerland.

2-5 May 1995 Presented tutorial on "Navigating the CERN World-Wide Web".

Training CERN, Geneva, Switzerland.

3-4 April 1995 Followed "PERL 5, Advanced course".

Invited Talk at Conference Computer and Information Networks in the Multimedia Age, Ecole

Polytechnique Federale de Lausanne, Switzerland.

31 March 1995 Presented talk on "World-Wide Web Interfacing".

Exhibition CERN, Geneva, Switzerland.

8-9 March 1995 Assisted at the "CERN World-Wide Web Mediadays".

Exhibition G-7 Conference on Information Society, Espace Leopold, Brussels,

Belgium.

24-26 February 1995 Assisted and organised the "WWW Cafe" stand.

Conference Second International World-Wide Web Conference, Chicago, U.S.A.

17-20 October 1994 Presented talk on "Gateways for World-Wide Web in the 'Online' Data

Acquisition System of the DELPHI Experiment at CERN".

Conference CERN, Geneva, Switzerland.

25-27 May 1994 Attended the "First International World-Wide Web Conference".

Invited Talk Bogaziçi University, Istanbul, Turkey.

5 April 1994 Presented talk on 'Introduction to World-Wide Web'.

Invited Talk & Committee 'I Cappuccini', San Miniato, Tuscany, Italy.

14-17 March 1994 Presented talk on "The use of World-Wide Web for High Energy Physics, A

Status Report" at the "First Topical Seminar on WORLD WIDE WEB and

beyond for Physics Research and Applications".

Also member of the International Advisory Committee.

Invited Talk LPNHE Universités Paris VI et VII, France.

4 March 1994 Presented talk on "World-Wide Web for High Energy Physics".

Conference International Conference on Accelerator and Large Experimental Physics

Control Systems (ICALEPCS'93), Berlin, Germany.

18-22 October 1993 Presented poster on "The DELPHI distributed information system for

exchanging LEP machine related information".

Committee Washington D.C., U.S.A.

December 1993 Member of the Programme Committee of the "International Motif User

Conference".

Conference International Motif User Conference, Washington D.C., U.S.A.

1-3 December 1992 Presented talk on "A Configurable Motif Interface for the DELPHI

Experiment at LEP".

Training CERN, Geneva, Switzerland.

23-26 November 1992 Followed course in "Building Object Oriented systems with C++".

Conference L'Agelonde France-Telecom, France.

13-18 January 1992 Attended the "Second International Workshop on Software Engineering,

Artificial Intelligence and Expert Systems in High Energy and Nuclear

Physics".

Training Ystad, Sweden.

23 August - 2 September 1991 Attended the CERN School of Computing 1991.

### **List of Publications**

M.Dönszelmann WIRED 4 - A generic Event Display Plugin for JAS 3

Proceedings of Computing in High Energy Physics 2004.

M.Dönszelmann and A.S.Johnson Distributed Analysis with Java Analysis Studio

Proceedings of the CERN School of Computing 2001, Santander, Spain.

M.Dönszelmann and A.S.Johnson WIRED - WWW Interactive Remote Event Display

Proceedings of the CERN School of Computing 2001, Santander, Spain.

G.Barrand et al. Abstract Interfaces for Data Analysis - Component Architecture for Data

**Analysis Tools** 

To be published in Computer Physics Communications, 2001.

Proceedings of Computing in High Energy Physics 2001, September 2001,

Beijing, China.

G.Alverson et al. Summary of the HEPVis'01 Workshop

Proceedings of Computing in High Energy Physics 2001, September 2001,

Beijing, China.

A.Ballaminut et al. WIRED - World-Wide Web Interactive Remote Event Display

Computer Physics Communications 140 (2001) 266-273.

M.Dönszelmann CERN Building and Map Interface via WWW and on the Palm

Proceedings of Computing in High Energy Physics 2000 (513-518),

February 7-11, 2000, Padova, Italy.

P.Charpentier et al. DIM, a Portable and Efficient Package for Information Publishing, Data

Transfer and Interprocess Communications

Computer Physics Communications 140 (2001) 102-109.

J.Gillies and R.Jacobsson Particle Physics - a keyhole to the birth of Time

Particle Physics Education CD-ROM, CERN, 2000.

This CD includes a special copy of WIRED to interactively view events.

M.Dönszelmann Agents in Java

Proceedings of the CERN School of Computing 1999, September 12-15,

1999, Stare Jablonki, Poland, CERN-2000-001 (97-99).

M.Dönszelmann Agents: Mobile Agents in Java

Proceedings of the CERN School of Computing 1998, September 6-19,

1998, Madeira, Portugal, CERN-98-08 (115-117).

M.C.Coperchio et al. WIRED - World-Wide Web Interactive Remote Event Display

Computer Physics Communications, 110 (1-3) (1998) pp. 155-159.

M.Dönszelmann Information systems for physics experiments

Proceedings of the CERN School of Computing 1997, August 17-30, 1997,

Pruhonice, Prague, Czech Republic, CERN-97-08 (35-36).

M.Dönszelmann et al. WIRED - World-Wide Web Interactive Remote Event Display

Proceedings of HEPVis'96, 2-4 September, 1996, CERN Geneva

Switzerland, CERN-97-01 (67-68).

P.Abreu et al. Performance of the DELPHI detector

DELPHI Collaboration, Nucl. Instr. and Meth. A378 (1996) 57-100.

V.Bocci et al. Architecture and Performance of the DELPHI Trigger System

Nucl. Instrum. Methods Phys. Res., A: 362 (1995) 361-385.

M.Dönszelmann et al. Advanced Use of World-Wide Web in the 'Online' System of DELPHI

(CERN)

Proceeding of Computing in High Energy Physics 1995 (553-561),

September 18-22, 1995, Rio de Janeiro, Brazil.

M.Dönszelmann Interfacing to the World-Wide Web

Proceedings of the CERN School of Computing 1995, August 20 -

September 2, 1995, Arles, France, CERN-95-05 (295-306).

M.Dönszelmann and K.Rodden Gateways for World-Wide Web in the 'Online' Data Acquisition System of

the DELPHI Experiment at CERN

Advance Proceedings of the Second International WWW Conference '94 "Mosaic and the Web" Volume 2, 985—992, October 17 - 20, Chicago,

U.S.A.

V.Bocci et al. Basic concepts and architectural details of the Delphi trigger system

Submitted to IEEE Trans. Nucl. Science (1994).

R.Cailliau et al. The use of World-Wide Web in HEP

Proceedings of the Conference on Computing in High Energy Physics'94,

21 27 April 1994, San Francisco CA, U.S.A. 394—401.

M.Dönszelmann World-Wide Web and High Energy Physics Experiments, A status Report

Int. Jour. of Mod. Phys. C - Physics and Computers Vol. 5 No. 5 (1994) 755

<del>---</del>764.

The DELPHI distributed information system for exchanging LEP machine M.Dönszelmann and C.Gaspar

related information

Nucl. Instr. and Methods in Physics Research A 352 (1994) 280—282.

The Design and Operation of the Slow Controls for the DELPHI T.J.Adye et al.

Experiment at LEP

Nucl. Instr. and Methods in Physics Research A 349 (1994) 160—182.

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