Resume of Mark Dönszelmann

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General

Place of Birth	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	CERN, CH-1211 Geneva, Switzerland.

Academic Qualifications

Master of Science September 1983 to May 1989	University of Technology, Delft, The Netherlands in Electronics Engineering.
Final High School Exam September 1977 to June 1983	"Vossius" Gymnasium, Amsterdam, The Netherlands in Mathematics, Physics, Chemistry, Biology, English, Dutch and Ancient Greek Language.

Professional Experience

Researcher/Engineer	Physics Department, Radboud University, Nijmegen, The Netherlands.
May 2015 until current date	…
Software Developer/Architect	Boğazici University, Istanbul, Turkey
January 2010 until April 2015	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 fashion.

The ATLAS Wireless Safety System involves a readout system and display of information. Workers in the Cavern are equipped with a Helmet with camera, audio and measurement devices to keep track of radiation dose, oxygen and CO_2 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 the form of augmented reality. A Data Acquisition System involving the readout of the ATWSS system and storage in an SQL database using Hibernate 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. Highcharts is used to make the plots, SipML5 to handle the audio.

As a side project I took over the maintenance and further development of the software of the ADEPO project, which takes care of measuring and positioning the ATLAS subsystems in the correct place. This system uses BCAMs provided by Brandeis University to measure the exact placement of the ATLAS detectors. The readout is written in C++ using the QT Framework.

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 2008 - 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 sold 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 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: 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 Reviews, Schools, Conferences and Courses

Review	CERN, Geneva, Switzerland.
12 December 2018	FELIX Product Readiness Review, Part 1.
Workshop	CERN, Geneva, Switzerland.
30 April 2018	ATLAS FELIX User Workshop, talk on Software Status.
Review	CERN, Geneva, Switzerland.
7 March 2018	FELIX Phase-1 Final Design Review.
Review	CERN, Geneva, Switzerland.
11 November 2016	FELIX Phase-1 Preliminary Design Review.
Training	CERN, Geneva, Switzerland.
Summer 2016	Pentaho beginners and advanced course, to help replace OTPs Business Objects

Conference	International Conference on Accelerator and Large Experimental Physics Control Systems (ICALEPCS'11), Grenoble, France.
10 - 14 October 2011	Poster on "A C/C++ Build 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 "Maven - 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

The ATLAS collaboration	FELIX: the New Detector Interface for the ATLAS Experiment ATL-DAQ-PROC-2018-010
The ATLAS collaboration	FELIX: a PCIe based high-throughput approach for interfacing front-end and trigger electronics in the ATLAS Upgrade framework JINST 11 (2016) C12023
The ATLAS collaboration	A new approach to front-end electronics interfacing in the ATLAS experiment JINST 11 (2016) C01055

J. Nguyen Xuan et al.	A C/C++ Build System Based On Maven for the LHC Controls System Conf. Proc. C111010 (2011) pp.WEPKS026
J. Allison et al.	The GEANT4 Visualisation System Comput. Phys. Commun. 178 (2008) 331-365
M. Dönszelmann et al.	AIDA, JAIDA and AIDAJNI: Data Analysis using interfaces Computing in High Energy Physics and Nuclear Physics 2004, Interlaken, Switzerland, 27 Sep - 1 Oct 2004, pp.445 (CERN-2005-002)
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.
Augustinus, A et al.	The Evolution of the DELPHI Experiment Control System or How to Survive 10 Years of Running 7th Biennial International Conference on Accelerator and Large Experimental Physics Control Systems, Trieste, Italy, 4 - 8 Oct 1999, pp.e-proc. 3
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).
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