

## Experience

April 2009 – Present	Swiss public broadcasting (SSR/RTS) Department Multimedia R&D	Geneva/Lausanne, Switzerland
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### **Technical Lead, Multimedia Content Management System (CMS)**

Team lead devops team of 5 people and on-call team of 10 people. Responsible for data management, operations, and development of a multimedia infrastructure for RTS users and websites for national television and radio. Guide data integration project of the event driven MediaBus Application (MBA). Develop suitable metrics and gather statistics for project workload estimates, risk assessments, and platform support. Responsible for service strategy and planning.

Mar. 2003 – Mar. 2009	California Institute of Technology	Pasadena, California Geneva, Switzerland
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### **Staff Member, Physics Department (Scientific Software Engineer) / Technical Lead**

Operated and maintained event driven workload and data management tools for physicists and engineers. These tools were deployed on several globally distributed locations and managed simulation jobs for the generation of 100 million Monte Carlo simulation events per month and generating approximately 200 TB per month.

Mar. 2002 - May. 2002	San Diego Supercomputer Center	San Diego, California
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### **Visiting Scholar**

Worked on Web Services development and investigated information propagation through multiple layers of Web Services for debugging purposes.

Sep. 1999 - Jan. 2003	CERN (European Laboratory for Particle Physics)	Geneva, Switzerland
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### **Software Technologist**

*Implemented C++ based data integration solutions for physicists. Results from this work formed the basis for my Ph.D.*

Nov. 1997 – Aug. 1999	TNO-FEL (Dutch Institute for Defense Research)	The Hague, Netherlands
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### **Software Developer**

*Built C++ based simulation models with mathematicians. Results from this work formed the basis for my thesis in Software Technology and Design.*

## Education

Mar. 2004	Eindhoven University of Technology	Eindhoven, Netherlands
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### **Ph.D. Computer Science (Information Systems and Integration)**

- Thesis: XML and Graphs for Modeling, Integration and Interoperability: a CMS Perspective

Sept. 2001	University of the West of England	Bristol, Great Britain
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### **Master of Philosophy in Computer Science (Data Integration)**

- Thesis: Generic Data Integration Based on XML within a High Energy Physics Environment

Sept. 1999	Stan Ackermans Institute, School for Technological Design Eindhoven University of Technology	Eindhoven, Netherlands
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### **Professional Doctorate in Engineering (Embedded Systems and Information Systems)**

- Thesis: Design and Implementation of the Mine Sweeping Strategy Testbed GIS

Aug. 1996	Utrecht University	Utrecht, Netherlands
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### **Master in Applied Mathematics (Numerical and Graph Algorithms)**

- Thesis: A Bulk Synchronous Parallel Minimum Degree Algorithm.

### **Awards:**

- 2008 Corporation for Education Network Initiatives in California (CENIC) innovations award : <http://cenic08.cenic.org/news/FinalCENIC08Awards.pdf>
- 2007 Internet2 IDEA award: <http://www.internet2.edu/idea/2007/>

### **Other**

- Languages: Dutch - native, English - fluent, German - proficient, French – conversational