

Experience

April 2009 – Present Radio Television Suisse (RTS) Geneva, Switzerland
(Swiss public broadcasting)

Technical Lead / Developer & Administrator, Multimedia Content Management System (CMS)
Operate, maintain and develop a Java/Linux/Python based multimedia CMS Platform for RTS user base and websites.
Websites attracts approximately 200,000 -250,000 unique visitors per day

Mar. 2003 – Mar. 2009 California Institute of Technology Pasadena, California
Geneva, Switzerland

Staff Member, Physics Department (Scientific Software Engineer) / Technical Lead
Constructed, operated and maintained a global distributed Python based task life cycle infrastructure for physicists and engineers. The task lifecycle was deployed on several globally distributed locations and capable of managing jobs for the generation of 100 million Monte Carlo events per month..

Mar. 2002 - May. 2002 San Diego Supercomputer Center San Diego, California

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 Geneva, Switzerland
(European Laboratory for Particle Physics)

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 The Hague, Netherlands
(Dutch Institute for Defense Research)

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

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

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, Netherlands
Eindhoven University of Technology

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

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
- Enjoy cycling, hiking, skiing, cross country, playing chess
- Photography (<http://vanlingen.name/web/photos/>).
- Open source projects: <http://code.google.com/p/superpodder/>, <http://code.google.com/p/simple-simeng/>