



Dario Zürcher, Ph.D.

January 28. 1971, Swiss citizen

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Curriculum Vitae

Objective

Challenging and leadership position combining socio-economic, scientific and political aspects and requiring analytical, communication, organizational and creative thinking skills.

Profile

- Bright, fast learner, creative, adaptable, goal-oriented, at ease in international multicultural environments.
- Experienced in developing projects in competitive environments involving individual and collaborative efforts.
- Multilingual.
- Possesses strong analytical powers, advanced computer and mathematics skills.

Primary Skills

Risk Management: strong experience in analyzing and managing all the opportunities, threats and risks faced by Electric Power Markets.

Project Management: leader of international teams. Experienced in scheduling and planning of projects. Strong interpersonal skills – possesses ability to motivate, educate and persuade others effectively.

Communication: experienced in written and oral presentation of material to international audiences. Particularly interested in the presentation of technical material to non-technical audiences.

Key Account Management: experienced in defining and set out appropriate plans to strength long-term relationships with clients at all levels.

Analytical: pattern recognition and event reconstruction methods used in modern high energy physics experiments, use of statistical and numerical methods for assessing measurement error and reliability.

IT: formal training in IT and proven experience on large software projects on high performance mainframes as well as smaller platforms using modern software technologies.

Programming: C++, C, Visual Basic, SQL, FORTRAN, Perl, PHP, html, shell scripting.

Analysis: simulation and modeling of complex systems (Monte Carlo methods), analysis and management of large datasets.

Operating systems: Linux, Unix, Aix, Mac OS, Windows.

Software: physics and mathematics related, industrial process simulation, lots of Windows compatible software.

Integration: website creation and web mastering.

Miscellaneous: strong experience with databases (SQL) and networks.

Professional Experience

**May 2008-
To date**

Risk Manager at Alpiq Management AG (formerly ATEL Management AG)

- Responsible for identifying, assess and manage the risks associated with the production, distribution and trade of electricity and emissions trading (CO2 and green certificates).
- In charge of studying new models for power plant optimization and to assess market risk related to power production.

**April 2006-
April 2008**

Key Account Manager and **Project Leader** at Montech AG

- Responsible for key accounting all over Europe and Asia. Developed new markets in Asia and Europe. Performed market analysis and benchmark for new application sectors.
- Project Manager for clean room solutions in pharmaceutical, semiconductor and healthcare industries. Organized and supervised the certification process at the Fraunhofer Institute in Stuttgart, Germany. Wrote technical reports.
- Project Leader for Industrial Processing Simulation. Supervised the development, the implementation and the industrialization of simulation software.
- Enhanced existing and create new academic collaborations with universities and research institutions. Supervised Bachelor Theses.

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| February 2002- March 2006 | <p>Post-Doctoral Fellow and Lecturer (“chargé de cours”) at the Swiss Federal Institute of Technology Lausanne (EPFL) and at the University of Lausanne.</p> <p>Lecturer at the Teacher Training College of Canton Vaud (“Haute Ecole Pédagogique du Canton de Vaud”).</p> <ul style="list-style-type: none"> ➤ Responsible for several lectures given to university students, college students or middle school teachers. ➤ Leader of a group of 10 assistants. Organizing exercises and examinations. Acted as substitute Lecturer. ➤ Member of the BELLE collaboration (B-factory experiment in Tsukuba, Japan). Participating in the data taking and analysis through computational modeling methods. ➤ Supervision of undergraduate and graduate students and responsible for the laboratory web resources. |
| June 1997- October 2001 | <p>PhD Thesis on the CMS experiment at CERN, Switzerland.</p> <p>Swiss Federal Institute of Technology, Zurich (ETHZ) / Paul Scherrer Institute (PSI), Villigen.</p> <p>CMS is a US \$400 million detector included in the Large Hadron Collider (LHC) at the European Laboratory for Particle Physics (CERN).</p> <ul style="list-style-type: none"> ➤ Member of the physics analysis group dedicated to explore, plan and propose the research program. ➤ Modeled and simulated complex high energy physics processes using Monte Carlo techniques. ➤ Tested lead tungstate crystals and avalanche photodiodes for the CMS electromagnetic calorimeter. ➤ Modeled the detector response using Monte Carlo simulations techniques of particle-matter interactions. ➤ Assistant at the ETH in Zurich; supervised diploma students and coached groups of physics students. ➤ Invited speaker at international conferences on high-energy physics and electronics. |
| October 1996- February 1997 | <p>Diploma Thesis on the CMS experiment at CERN, Switzerland.</p> <p>Swiss Federal Institute of Technology, Zurich (ETHZ).</p> <ul style="list-style-type: none"> ➤ Wrote simulation software modeling complex high energy physics processes. ➤ Published the results in the “reference journal” in particle physics. |
| 1990 - 1996 | Several part-time jobs during the academic years. |

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| Outreach | <ul style="list-style-type: none"> • Il risparmio energetico nell'utilizzo di sistemi di trasporto industriali, part of the Certificate of Advanced Studies (CAS) “<i>Management integrato della Qualità e della Sicurezza</i>”, Scuola Universitaria professionale della Svizzera Italiana (SUPSI), Manno (Switzerland), April 2008. • User report: the Montech cleanroom transportation system, IMHOF-Forum 2007. • Guided tours for physics students, politicians and other visitors at CERN (1999-2005). |
| Education | <ul style="list-style-type: none"> • Ph. D. in experimental High Energy Physics, 1997-2001, CERN/PSI/ETH Zurich. • Study in Physics, 1990-1997, ETH Zurich. |
| Additional Training | <ul style="list-style-type: none"> • „Generation Asset Analytics and Risk Management“, London, November 2008 • „Einführung in die Energiewirtschaft“ (EUROFORUM), Zürich, May 2008 • Workshop “Fertigen unter reinen Bedingungen”, Fraunhofer Inst., May 2007 • “Best Practices” (Business leaders sharing their insights for achieving excellence in manufacturing, business and technology). 4th EFAC Conference, Davos, January 2007 • Sales Training, at the Gustav Käser Training International, Zurich, August 2006-February 2007 • Various short duration academic courses and workshops on computer science, electronics and physics. |
| Languages | <ul style="list-style-type: none"> • Italian (native tongue) • French (Excellent skills in speaking, reading and writing) • German (very good skills in speaking, reading and writing) • English (very good skills in speaking, reading and writing) • Spanish (good reading and fair writing and speaking ability) • Swiss-German (very good oral comprehension) |
| Publications | <p>Over 100 publications in refereed journals, including a “top cited” article (i.e., cited at least 100 times): “Towards a precise Parton Luminosity determination at the CERN LHC”, M. Dittmar, F. Pauss and D. Zürcher, Phys. Rev. D 56 (1997)</p> <p>Full list at: http://www.slac.stanford.edu/spires/find/hep/www?rawcmd=a+Zurcher,+D</p> |
| Other contributions | <p>Several contributions at international conferences and workshops. Full list at: http://www.cridario.ch/dario/research/fulllist.php</p> |
| Personal data | <p>Date and place of birth: January 28. 1971, Lugano (Switzerland)</p> <p>Nationality: Swiss (Thalwil, ZH)</p> <p>Marital status: married to Cristina, two daughters, Emma (born in 2003) and Bianca (born in 2006)</p> |