

Miloslav Dorda, M.D.
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Scientific interests

- Technology:
Electromobility, Autonomous vehicles, Robotics
- Neurobiology:
Biomedical engineering, Neuroanatomy, Neurophysiology, Brain signal processing, Sensory reception, Mechanisms of cognition and consciousness

Professional Experience

SwissHike 3+IN+1 Team Coordinator 2016 - Present

- Managed a start-up business in Switzerland, using tools such as SEO marketing strategies & analytics for development of client base. Financial analysis using Excel, website development using HTML5, PHP, JavaScript, jQuery, MySql database (www.swishike.com)
- Pilot project based on the ION 21 System of Team Cooperation

Internet portals building, administration 2010 - Present

- www.solarninovinky.cz - website building and administration of the leading Czech portal focused on publication of news and technology developments in photovoltaics & solar energy (HTML5, PHP, JavaScript, jQuery, MySql)
- www.solarnenovinky.sk - administration of the Slovak solar news portal

Switzerland - porter & service support June 2015 - August 2015

- Belle Epoque Hotel Victoria, Kandersteg BE, CH 3718
- Porter support, gardening, building maintenance, cleaning support

Switzerland - animals welfare support March 2014 - May 2014

- Verein Tante Martha, Romont BE, CH 2538
- Voluntary support for the animals welfare post

Switzerland - volunteer by Felsentor September 2013 - December 2013

- Stiftung Felsentor, Vitznau LU, CH 6354
- Voluntary care for the animals and clients of the meditation centre

Switzerland - alpine staff July 2011 - November 2011

- Alp Unterer Luter, Rüscheegg Heubach BE, CH 3154
- alpine staff, melioration support, eradication of weeds (Rumex and Carduus)

Programming for Vitkovice IT Solutions 2011 - 2014

- external support and part-time collaboration for Vitkovice IT Solutions, Ostrava
- data conversion for steel constructions, AVEVA PDMS, TeamCenter

Switzerland - support activities in Basel**July 2010 - December 2010**

- gardening and development of PET-watering system
- sculpture installation support for Skulpturhalle Basel
- Josef Stehlik, Atelier fuer Stein, Basel BS, CH 4056

Programmer and Analyst**2006 - 2009**

- Programmer and Analyst for VITKOVICE ITS, Ostrava, CZ
- Team member work on several important projects, using a wide spectrum of programming and database tools (C++ 6.0, C#, CGI, Html, JavaScript, PHP, Visual Basic, Aveva PML; MS SQL, Oracle, MySQL)

Radiological Hospital physicist**2002 - 2004**

- Installation support and running of LINAC Varian 2100 CD
- CT and NMR operation, District Hospital, Pardubice, CZ

Neurobiology Research assistant**2000 - 2002**

- Research assistant, Department of Neurobiology, Institute of Physiology, Czech Academy of Sciences, Prague, CZ
- Patch-clamp study on NMDA-receptors in vitro: modulation of different types of NMDAR-subunits by neurosteroids, advisor L. Vyklicky Jr. M.D., PhD.

Assistant of seniors**February 1997 - March 1997**

- Alternative military service, pensioner home, Komorni Lhotka, CZ

Orderly in a Faculty Hospital**October 1988 - May 1989**

- Department of Radiotherapy, Faculty Hospital, Praha-Vinohrady, CZ

Achievements and Technological developments

- Development of ION 21 System of Team Decision Making (1997 – Present)

Decision making and motivation ION 21 Team Portal System provides Team Info Transparency, Fair Play Motivation and Forecasted Decision Making.

ION-processes Information, Optimisation and Navigation, 21 votes shared according to Competency, Activity and Investment, forecasted proposals for Better Results, Feelings and Perspective (<http://www.swisshike.com/ion21/>)

- Building and administration of an internet portals (2005 – Present)

www.solarninovinky.cz Czech SolarNews

www.solarnenovinky.sk Slovak SolarNews

www.swisshike.com SwissHike 3+IN+1

- Development of new arrangement of fire-hoses for fire-sport (1990 – 2005)

Development and testing of a new sport arrangement of fire-hoses (cylinder, chute). Results published on a specialised fire-sport website.

- Development and testing of antidecubital massage beds (1996 – 1999)

Development and testing of antidecubital massage beds based on a principle of by chain connected electromotor-driven selectively rotatable cylinders. Construction of functional prototypes, under testing of stability and lifespan.

Publications

- Dorda M, Vlcek K, Chodounska H, Vyklicky L-Jr. Neurosteroids - mechanism of action and potential therapeutic use. *Psychiatrie* 2001;5:5-8.

Technology Skills

- Biological research methods:
DNA isolation techniques, tissue culture techniques, patch-clamp technique, optical and electron microscopy, CT, NMR, laser and optical spectroscopy techniques, roentgenology diffraction techniques
- Technical skills:
electromagnetic and electronic devices (patch-clamp technique, linear accelerator, electron microscopy), mechanical devices (micromanipulators, chain-driven machines, bicycles), optical sources and detectors
- Computer skills:
Fortran, Visual Basic, Visual C++, CGI, PML-PDMS, PHP, HTML, MATLAB, JavaScript, jQuery; databases Oracle, MS SQL, MySQL, image and video processing (Corel Draw, Adobe Photoshop, Pinnacle Studio)

Education

M.D. degree

1989 - 1995

General medicine

First Medical Faculty, Charles University, Prague, CR

- internal medicine, surgery, hygiene and epidemiology, child care, social medicine, gynecology and obstetrics
- Practice on surgery and internal medicine department, Christian-Albrechts University, Kiel, Germany (June 1993)

M.Sc Physics

1982 - 1987

Department of Biophysics

Faculty of Mathematics and Physics, Charles University, Prague, CZ

- quantum theory, statistics and thermodynamics, experimental methods of biophysics, molecular biophysics, Marxism-Leninism
- Dissertation on Time-scaled fluorescence of information molecules' model systems (deconvolution computer analysis), advisor Dr. M. Sip, PhD

Languages

Fluent in German and English. Intermediate in Russian, native in Czech.