

**EUROPEAN
CURRICULUM VITAE
FORMAT**



PERSONAL INFORMATION

Surname(s) / First name(s) **Zelenika Saša**
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E-mail(s), Web address(s) sasa.zelenika@riteh.hr
Nationality(-ies) Croatian
Date of birth July 19, 1966

WORK EXPERIENCE

- Dates (from – to) 2004 –
Name and address of employer University of Rijeka – Faculty of Engineering, Rijeka, Croatia
Type of business or sector University
Occupation or position held Professor
Main activities and responsibilities Head of the Department of Mechanical Engineering Design (2009 -), -Head of Laboratory for Precision Engineering (2005 -), Dean's Assistant (2008-2009); research and teaching in the fields of machine design, precision engineering, the micro and nanotechnologies

- Dates (from – to) 2005 – 2009
Name and address of employer University of Udine – Department of Electrical, Managerial and Mechanical Engineering, Udine, Italy
Type of business or sector University
Occupation or position held Guest Professor
Main activities and responsibilities Research and teaching in the fields of machine design, precision engineering, the micro and nanotechnologies

- Dates (from – to) 2002 – 2005
Name and address of employer Paul Scherrer Institute, Viligen, Switzerland
Type of business or sector Research institute
Occupation or position held Head of the Division of Mechanical Engineering Sciences
Main activities and responsibilities Scientific management. Research and development work in the fields of precision engineering, of micromechanics and the design of other mechanical equipment.

- Dates (from – to) 1998 – 2002
Name and address of employer Paul Scherrer Institute, Viligen, Switzerland
Type of business or sector Research institute
Occupation or position held Head of Mechanical Engineering Group at the Swiss Light Source (SLS) project
Main activities and responsibilities R&D work in the particle accelerator field. Development and design of high-precision mechanical, electromechanical and optoelectromechanical systems.

- Dates (from – to) 1997 – 1998
Name and address of employer Research Centre of the Danieli & C. Officine Meccaniche multinational company, Buttrio (UD), Italy
Type of business or sector Steel industry
Occupation or position held Chief Researcher and Head of the Thermo-Fluidodynamics Group
Main activities and responsibilities Development of innovative applied thermodynamics and fluid-mechanics solutions. Research and design in thermo -fluidodynamics

- Dates (from – to) 1996 – 1997
Name and address of employer Calortecnica, Piombino Dese (PD), Italia
Type of business or sector Boilers industry

Occupation or position held Project leader
 Main activities and responsibilities R&D and project leading activities. Optimization of efficiency of thermal devices and their design.

• Dates (from – to) 1991 – 1996

Name and address of employer Sincrotrone Trieste, Trieste, Italy
 Type of business or sector Research laboratory
 Occupation or position held Consultant and scholarship holder of United Nations, of the International Centre for Theoretical Physics (ICTP) and of the European Union programs

Main activities and responsibilities PhD student and part of the Micromechanics Laboratory. R&D work on precision engineering and micromechanics.

EDUCATION

Date October 14, 1996
 Place of education Turin, Italy
 Name and type of organisation providing education Polytechnic University of Turin, Italy
 Title or qualification awarded Ph. D. in mechanical engineering (design and construction of machines)

Date July 10, 1991
 Place of education Rijeka, Croatia
 Name and type of organisation providing education University of Rijeka – Faculty of Engineering
 Title or qualification awarded M. Sc. in mechanical engineering

Date June 12, 1985
 Place of education Redmond, Washington, USA
 Name and type of organisation providing education Redmond High School
 Title or qualification awarded High school diploma

Date 1981 – 1984
 Place of education Rijeka, Croatia
 Name and type of organisation providing education Secondary School

Date 1972 – 1981
 Place of education Rijeka, Croatia
 Name and type of organisation providing education Elementary school “Dolac”

TRAINING

Year 1996-2009
 Place of training Italy, Switzerland, Germany, Austria, France, Croatia
 Name and type of organisation providing training European Society for Precision Engineering and Nanotechnology (EUSPEN), International Centre for Mechanical Sciences (CISM) and others
 Principal subjects/Occupational skills covered 15 seminars, courses and schools in the field of precision engineering, microsystems technologies, vacuum technology, management of scientific activities and projects (including EU) and quality assurance.

PERSONAL SKILLS AND COMPETENCIES

Mother tongue(s) Croatian
 Other language(s)
 Speaking Italian (C2), English (C1), German (B2), Slovenian (A2)
 Writing Italian (C2), English (C2), German (B1)
 Understanding (listening and reading) Italian (C2), English (C2), German (B1), Slovenian (B1)

SOCIAL SKILLS AND COMPETENCIES	High attitude towards human relationships, communication skills, team spirit
ORGANISATIONAL SKILLS AND COMPETENCIES	High attitude towards organizing and optimizing the performances of interdisciplinary work teams, high leadership potential, versatile personality
TECHNICAL SKILLS AND COMPETENCIES	Experience on IT systems (several operating systems, computer languages, word processors, numerical manipulators, programs for data elaboration, CAD programs, programs for resources' management, graphical-programming languages, finite element program packages, ...) Considerable experience with laser interferometric systems for displacement measurements in the micromechanics field as well as data acquisition and control systems.
OTHER SKILLS AND COMPETENCIES	<p>Author and co-author of more than 80 scientific and professional publications.</p> <p>Charing 3 and co-chairing another 3 courses at undergraduate/graduate as well as 2 courses at postgraduate university level.</p> <p>Actively participated to the EU scientific projects: "BioXhit" (2004-2005), "Handling and Assembly of Functionally Adapted Microparts" project (2000-2001), "Frontier" (1997-1998) and "Microfabrication with Synchrotron Radiation" projects (1993-1995).</p> <p>Principal investigator on 2 and collaborator on one scientific project of the Croatian Ministry of Science, Education and Sports. Leader of one and collaborator on 2 projects of the National Foundation for Science, Higher Education and Technological Development of the Republic of Croatia. Collaborator on one scientific project of the Italian Ministry of University and Research and one scientific project of the Swiss National Science Foundation (2005 -).</p> <p>Member of International Program and/or Scientific Committees of 8 scientific conferences.</p> <p>Member of the National Committee for Innovations of the Republic of Croatia (2008), of the Steering Committee of the Unity through Knowledge Fund of the Government of the Republic of Croatia and of the World Bank (2006-2008), of the Committee for Cooperation with Industry, of the Technology Transfer Office and of the Commission for the Definition of the Portfolio of the Employees of the University of Rijeka, Croatia (2005-2008).</p> <p>Peer reviewer of articles to be published in the scientific journals: Review of Scientific Instruments, Journal of Synchrotron Radiation, Proceeding of the Institution of Mechanical Engineers, and Precision Engineering. Peer reviewer for the Address Committee for the Evaluation of Research (CIVR) of the Italian Ministry of University and Research, for the National Foundation for Science, Higher Education and Technological Development of the Republic of Croatia and the Foundation of the University of Rijeka.</p> <p>Member of: American Society of Mechanical Engineers (ASME), European Society for Precision Engineering and Nanotechnology (EUSPEN), Croatian Society of Mechanics (HDM), the executive committee of the Forum for Ethics and the Development of Science and Higher Education, Universitas society (society for the development of higher education of the University of Rijeka), „Mensa“ society.</p> <p>Cited in the Marquis Who'sWho in Science and Engineering.</p> <p>Awards: during the stay in the USA: Academic Fitness Award given by the US president and membership in the Honor Society; during university studies: in 4 school years received the prize to the top ranked students for "favourable results obtained during the studies and was scholarship holder of the Rijeka Community aimed at gifted students; during PhD study: Agostino A. Capocaccia prize of the Italian Association for Stress Analysis; during work at the University of Rijeka, Croatia: Best Paper – Best Oral Presentation Award at the 15th DAAAM International Symposium, Vienna, Austria (2004).</p> <p>Hobbies: literature, waterpolo, swimming, basketball and photography</p>
DRIVING LICENCE(S)	B, F, G i M category
WORK ON BROADENING AND POPULARISATION OF SCIENCE	Published 48 newspaper science broadening articles, held 15 talks for a broad non-scientific audience and, from October 2009 to February 2010, presented a radio transmission "Mens Sana" on a local Radio Trsat station.

SIGNATURE

