PERSONAL INFORMATION

Ervin Kamenar

Zdravka Kučića 62, 51000 Rijeka, Croatia

+385 51 651 585 (Work)

ekamenar@riteh.hr

Sex male | Date of birth 07/02/1987 | Nationality Croatian

WORK EXPERIENCE

December, 1st 2016 →

Postdoctoral Researcher

University of Rijeka, Faculty of Engineering, Vukovarska 58, 51000 Rijeka, Croatia

- Research and teaching activities (lectures and exercises) in the field of mechanical engineering design; especially in precision engineering, mechatronics, control systems, micro- and nanosystems, energy harvesting systems, engineering drafting and computer aided design (CAD)

Business or sector Scientific Research and Higher Education

June, 1st 2011 – September 30th 2016

Junior Researcher

University of Rijeka, Faculty of Engineering, Vukovarska 58, 51000 Rijeka, Croatia

- Research and teaching activities (exercises) in the field of mechanical engineering design; especially in precision engineering, mechatronics, control systems, micro- and nanosystems, energy harvesting systems, engineering drafting and computer aided design (CAD)

Business or sector Scientific Research and Higher Education

EDUCATION

June, 1st 2011 –May, 19th 2016

Doctor of Science (D. Sc.) - scientific area: *Engineering*, scientific field: *Mechanical Engineering*, scientific branch: *Mechanical Engineering Design*

EQF level 8

University of Rijeka, Faculty of Engineering, Vukovarska 58, 51000 Rijeka, Croatia

- Doctoral thesis: Ultra-high precision positioning via a mechatronics approach
- E-version for download: https://dr.nsk.hr/islandora/object/riteh%3A88/datastream/PDF/view

2008 - 2010

Master's Degree in Electrical Engineering (M. Sc.)

EQF level 7

University of Rijeka, Faculty of Engineering, Vukovarska 58, 51000 Rijeka, Croatia

- Electrical engineering studies (automation)
- Master thesis: The design of 4th order biquadratic low pass filter

2005 - 2008

Bachelor's Degree in Electrical Engineering (B. Sc.)

EQF level 6

University of Rijeka, Faculty of Engineering, Vukovarska 58, 51000 Rijeka, Croatia

- Electrical engineering studies (general)
- Bachelor thesis: Wave generator design using LabVIEW software and FPGA Hardware

2001 - 2005

High School – Electronics Technician

EQF level 4

High school for electronics and informatics, Zvonimirova 12, 51000 Rijeka, Croatia

1993 - 2001

Primary School

EQF level 1

Primary school "Grad Grobnik" (1st to 4th grade) and Primary school "Čavle" (5th to 8th grade), Čavja 47, 51219 Čavle, Croatia

EDUCATION AND TRAINING

May – June 2017

Language course for teaching in English for higher education lecturers (8 ECTS)

University of Rijeka, Faculty of Humanities and Social Sciences, Sveučilišna avenija 4, 51000 Rijeka, Croatia

May 2014

E-learning in higher education course (3 ECTS)

University of Rijeka, Trg Braće Mažuranića 10, 51000 Rijeka, Croatia

June – October 2014

Visiting researcher (as a part of Erasmus+ programme) – 20 ECTS

University of Udine, Department of Electrical, Management and Mechanical Engineering, Via delle Scienze, 206, 33100 Udine, Italy

June 2014

Advanced Mechatronic System Design Tutorial, Dubrovnik, Croatia

European Society for Precision Engineering and Nanotechnology (EUSPEN)

October 2012.

NI Certified LabVIEW Associate Developer - CLAD, Zagreb, Croatia

National Instruments

PERSONAL SKILLS

Mother tongue(s): Croatian

Other language(s)

	UNDERSTANDING		SPEAKING		WRITING
	Listening	Reading	Spoken interaction	Spoken production	
English	C1	C1	B2	B2	C1

Replace with name of language certificate. Enter level if known.

Levels: A1/A2: Basic user - B1/B2: Independent user - C1/C2 Proficient user
Common European Framework of Reference for Languages

Communication skills: Tends to work in a team. Great communication skills acquired through participation on a large number of international conferences and presentation of large number of scientific papers as well as through participation on several scientific projects.

Organisational / managerial skills: Good organisational and managerial skills acquired through:
- Work with students as a teaching assistant,
- Participation on several scientific and technological projects.

Job-related skills: Experience in the field of mechatronics, precision engineering and micro- and nanosystems technologies:
- Ultra-high precision (nanometric) positioning in the presence of (frictional) nonlinearities,
- Energy harvesting/scavenging systems,
- Control systems,
- Laser interferometric systems (including Michelson type laser interferometric systems and laser Doppler vibrometers),
- Scanning Probe Microscopy (Bruker Dimension ICON SPM) and Nanoindentation (Keysight G200 nanoindenter),
- Micro-tensile testing devices,
- Machining centers (CNC milling and lathe machines).

Computer skills
- Programming languages (MATLAB/Simulink, LabVIEW),
- Text/image editors (Word, PowerPoint, Excel, …),
- CAD software packages (Catia, PTC Creo, AutoCAD),
- CM systems for web design (WordPress, Joomla),
- Additive manufacturing and reverse engineering technologies: 3D printing and 3D scanning

Driving licence AM, A1, A2, A, B, F, G

ADDITIONAL INFORMATION

Publications and Conferences
- University textbook: Zelenika S. & Kamenar E. 2015. Precizne konstrukcije i tehnologija mikro- i nanosustava I – Precizne konstrukcije (Precision engineering and micro- and nanosystems technologies I – Precision engineering). Rijeka, HR: University of Rijeka – Faculty of Engineering.
- Author and co-author of 24 scientific and 5 technological papers (list of publications: https://bib.irb.hr/lista-radova?autor=328732, download of publications: http://precenglab.riteh.uniri.hr/?page_id=1053).
- Actively participated at 9 international conferences and held 11 personal (oral and poster) presentations.

Scientific projects
- Scientific project supported by the University of Rijeka no. 13.09.1.2.09: "Characterization and Modelling of Materials and Structures for Innovative Applications" (2013 →),
- Infrastructural ERDF project no. RC.2.2.06-0001: "Research Infrastructure for Campus-based Laboratories at the University of Rijeka - RISK" (2014-2015),
- EU FP7 ICT-2009.9.1 scientific project no. 269985 – "GOLDFISH – Detection of Watercourse Contamination in Developing Countries Using Sensor Networks - Enlarged" (2013-2015),
- Scientific project of the Croatian Ministry of Science, Education and Sports no. 069-0692195-1792: "Ultra-high Precision Compliant Devices for Micro and Nanotechnology Applications" (2011-2014),

Technological projects
- Development of an ultra-high precision mechatronics device for automotive industry, Yazaki Europe Limited, 2016.
- Analysis of CNC vertical lathe machine „Mario Carnaghi" TG20/2500, Uljanik Strojogradnja d.d., 2012.
- Proof-of-concept technological project of the Business Innovation Centre of Croatia (BICRO) no. POC_02_02-U-1: "Wireless Autonomous Pressure Sensor for Automobile Tires" (2011).

Honours and awards during work
- Prize for achievements in scientific research and teaching and for the promotion of science to a broader public, Foundation of the University of Rijeka, Croatia, 2016,
- HEIDENHAIN students' scholarship for strong academic accomplishment in the fields related to precision- and micro-engineering, 15th EUSPEN International Conference, Leuven, Belgium, 2015,
- ERASMUS+ scholarship holder in the academic year 2014/2015,
- Prize for the best student paper at the 37th International Convention on ICT, Electronics and Microelectronics – MIPRO 2014 in Opatija, Croatia, 2013,
- National heat winner selected to compete at the "EUSPEN Challenge" international students' precision engineering and nanotechnology competition organized by the European Society for Precision Engineering and Nanotechnology (EUSPEN), Technical University of Denmark (DTU) and Oticon Company in Copenhagen, Denmark, 2013,
- Best Innovation Prize of the Primorje-Gorski Kotar county of the Republic of Croatia for the proposal entitled "Self-regulating Autonomous Valve – SAV", 2013.

Honours and awards during studies
- Scholarship holder of the Croatian Ministry of Science, Education and Sports, Croatian National Foundation for the Support of Students' Standards and municipality Čavle,
- Best electrical engineering student award for the academic year 2009/2010,
- Elected teaching fellow for the following courses: Mathematics I, Mathematics II, Mathematics for Engineers EE and Numerical and Stochastic Mathematics.

Other information

- Membership:
  - European Society for Precision Engineering and Nanotechnology – EUSPEN (2012. -->).
- Volunteering Activities:
  - Blood donor volunteer.
- Hobies:
  - Cycling, swimming.
- Other:
  - Married and a father of one child.