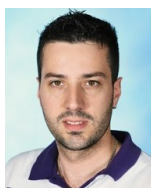


PERSONAL INFORMATION

Ervin Kamenar



- 📍 University of Rijeka, Faculty of Engineering (RITEH), Vukovarska 58, 51000 Rijeka, Croatia  
University of Rijeka, Centre for Micro- and Nanosciences and Technologies (NANORI), Radmile Matejčić 2, 51000 Rijeka, Croatia
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- ✉ [ekamenar@riteh.hr](mailto:ekamenar@riteh.hr) ; [ekamenar@uniri.hr](mailto:ekamenar@uniri.hr)
- 🌐 <https://portal.uniri.hr/Portfelj/1149>

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

WORK EXPERIENCE

October, 1<sup>st</sup> 2018 →

**Assistant professor**

University of Rijeka, Faculty of Engineering (RITEH), Vukovarska 58, 51000 Rijeka, Croatia and  
University of Rijeka, Centre for Micro- and Nanosciences and technologies (NANORI), Radmile Matejčić 2, 51000 Rijeka, Croatia

- Research and teaching activities 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)
- Head of Laboratory for Precision Engineering and Micro- and Nanosystems Technologies, Radmile Matejčić 2, 51000 Rijeka, Croatia

**Business or sector** Scientific Research and Higher Education

December, 1<sup>st</sup> 2016  
– September 30<sup>th</sup> 2018

**Postdoctoral Researcher**

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

- Research and teaching activities 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, 1<sup>st</sup> 2011  
– September 30<sup>th</sup> 2016

**Junior Researcher**

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

- Research and teaching activities 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

2005 – 2011

**Electronics technician (student job)**

Karuko d.o.o., Dolca 2, Grad Grobnik, 51219 Čavle, Croatia

- Trade, service and installation of electronic devices (phone systems, computer networks, ...)

**Business or sector** Company

EDUCATION

June, 1<sup>st</sup> 2011  
– May, 19<sup>th</sup> 2016

**Doctor of Science - scientific area: *Engineering*, scientific field: *Mechanical Engineering*, scientific branch: *Mech. Engineering Design***

Postgraduate (doctoral) study  
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**

Graduate study  
EQF level 7

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

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

- 2005 - 2008 **Bachelor's Degree in Electrical Engineering** Under graduate study  
EQF level 6

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

  - Electrical engineering studies (general)
  - Bachelor thesis: Function generator design using LabVIEW software and FPGA Hardware
- 2001 - 2005 **High School – Electronics Technician** High school  
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" (1<sup>st</sup> to 4<sup>th</sup> grade) and Primary school "Čavle" (5<sup>th</sup> to 8<sup>th</sup> grade), Čavja 47, 51219 Čavle, Croatia

**EDUCATION AND TRAINING**

- June, 18<sup>th</sup> 2018 **Postgraduate students mentoring course**

University of Rijeka, Faculty of Engineering, Vukovarska 58, 51000 Rijeka, Croatia
- 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), Cranfield University Campus, Cranfield, Bedfordshire, MK43 0AL, United Kingdom
- October 2012 **NI Certified LabVIEW Associate Developer - CLAD, Zagreb, Croatia**

National Instruments, 11500 Mopac Expwy, Austin, TX 78759-3504

**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](https://www.europecouncil.europa.eu/en/common-european-framework-reference-languages/)

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

**Organisational / managerial skills** Excellent organisational and managerial skills acquired through work with students as a teaching assistant and participation on several scientific and technological projects.

- Job-related skills** Experience in the field of mechatronics, precision engineering and micro- and nanosystems technologies:
- mechatronics systems for ultra-high precision (nanometric) positioning in the presence of nonlinearities and friction,
  - 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),
  - Nanoindentation (Keysight G200 nanoindenter),
  - micro-tensile testing devices, machining centers (CNC milling and lathe machines).

- Computer skills** Experience in use of:
- programming languages (MATLAB/Simulink, LabVIEW),
  - text/image editors (Word, PowerPoint, Excel, Adobe tools, ...),
  - CAD software packages (Catia, AutoCAD, PTC Creo),
  - 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

## SCIENTIFIC WORK

### 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 > 30 scientific and technological papers (list of publications: <https://bib.irb.hr/lista-radova?autor=328732>, download of publications: [http://precenglab.riteh.uniri.hr/?page\\_id=1053](http://precenglab.riteh.uniri.hr/?page_id=1053)).
- Actively participated at 9 international conferences and held 11 (oral and poster) presentations.

### Scientific papers peer review

- Peer Reviewer of one paper submitted for publication in scientific journal *“Mechatronics”* indexed in CC/SCI - 5-Year IF: **2.076** (2017.)
- Peer Reviewer of one paper submitted for publication in scientific journal *“Recent Advances in Electrical & Electronic Engineering”* indexed in Emerging Sources Citation Index (2017.)
- Peer Reviewer of one paper submitted for publication in scientific journal *„Automatika”* indexed in SCI - IF:2015 **0.311** (2016.)

### Scientific projects

- Scientific project supported by the University of Rijeka no. 887: “Measuring, modelling and compensating friction in high-precision devices: from macro- to nanometric scale”, 2018. →
- Research project sup. by *Zagrebačka banka* UniCredit group: “Development of a mechatronics device for rehabilitation of patients with reduced functionality of the upper limbs, 2017 →.
- 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 - 2018.
- 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 Camaghi” 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.

- Teaching activities** He holds lectures from the following courses at the University of Rijeka, Faculty of Engineering:
- Mechatronics systems components,
  - Mechatronics systems control and
  - Fundamentals of mechatronics.
- He holds auditory and laboratory exercises from the following courses at the University of Rijeka, Faculty of Engineering:
- Mechatronics systems components, Laboratory exercises A, Laboratory exercises B and Mechatronics systems control at Mechanical engineering graduate university study,
  - Engineering drafting at Electrical engineering undergraduate university study,
  - Computer skills at mechanical engineering undergraduate university study,
  - Computer aided design at Naval architecture and Mechanical engineering graduate studies,
  - Engineering drafting at Electrical engineering undergraduate vocational study,
  - Engineering drafting and Fundamentals of mechatronics at Mechanical engineering undergraduate vocational study.
- Science popularization**
- **In 2018** he was involved in a project Techno-Past Techno Future: European Researchers' Night (TPTF\_ERN)
  - **In 2018, 2015 and 2014** he was involved in laboratory open days at Faculty of Engineering (Precision Engineering Laboratory)
  - **In 2017, 2014 and 2012** he was involved in Science Festival days
  - **In 2013** he was involved in an FP7 project NLO – Night of the Lab Out
- Honours and awards during work**
- Best poster award for the research project “Development of a mechatronics device for rehabilitation of patients with reduced functionality of the upper limbs, DAAAM international conference, Zadar, 2018.
  - 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 (*Comparison of different DC motor positioning control algorithms*) 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,
  - 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.
  - Volunteering Activities:
    - Blood donor volunteer.
  - Hobbies:
    - Cycling, swimming.
  - Other:
    - Married and a father of two children.