

# Curriculum Vitae



## Personal information

Surname, name, academic titles **Pírník Rastislav, Assoc. prof. Ing., Ing. PhD,**  
Address Komenského 1140/39, 02401, Kysucké Nové Mesto, Slovak Republic  
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E-mail rastislav.pirnik@fel.uniza.sk  
Nationality Slovak  
Year of birth 1978  
Sex M

## Employment

### Work experience

From - to	01. 06. 2018 - present
Position	Assoc. prof. at the Department of Control and Information Systems, Faculty of Electrical Engineering and information technology, University of Žilina
Main activities and responsibilities	Educational and scientific-research activity. Head of laboratories AB319 and AB318 focused on research and development of ITS elements in road and rail transport.
Name and address of employer	University of Žilina Faculty of Electrical Engineering and information technology Univerzitná 1, 010 26 Žilina, Slovak Republic
Type or sector of work	Educational and scientific-research activity
From - to	31. 01. 2013 - 01. 06. 2018
Position	Lector at the Department of Control and Information Systems, Faculty of Electrical Engineering, University of Žilina
Main activities and responsibilities	Educational and scientific-research activity. Head of laboratories AB314 and AB318 focused on research and development of ITS elements in road and rail transport.
Name and address of employer	University of Žilina Faculty of Electrical Engineering Univerzitná 1, 010 26 Žilina, Slovak Republic
Type or sector of work	Educational and scientific-research activity
From - to	01.10.2001-31.01.2013
Position	Researcher (Department of Information and Safety Systems, later Department of Control and Information Systems, Faculty of Electrical Engineering, University of Žilina)
Main activities and responsibilities	Educational and scientific-research activity. Head of laboratories AB314 and AB318 focused on research and development of ITS elements in road and rail transport.
Name and address of employer	University of Žilina Faculty of Electrical Engineering Univerzitná 1, 010 26 Žilina, Slovak Republic
Type or sector of work	Educational and scientific-research activity

## Education and training

From - to Studies	October 2001 – October 2006 <i>postgraduate studies</i>	Žilina, Slovak Republic
	<ul style="list-style-type: none"> <li>▪ External postgraduate studies in the scientific field of Telecommunications. Doctoral thesis "Model of technology data transfer in an environment aDSL ". The academic title was defended and awarded in 2010.</li> </ul>	
Name and type of organization providing education and training	University of Žilina, Faculty of Electrical Engineering Univerzitná 1 010 26 Žilina, Slovak Republic	
Education level in national or international classification	PhD. (Doctoral)	
From - to Studies	September 1996 – Jun 2001 <i>University</i>	Žilina, Slovak Republic
	<ul style="list-style-type: none"> <li>▪ Department of Telecommunications, awarded title "Ing." in the field of Telecommunication engineering.</li> <li>▪ Diploma thesis "Access network in Košice"</li> </ul>	
Name and type of organization providing education and training	University of Žilina, Faculty of Electrical Engineering Univerzitná 1 010 26 Žilina, Slovak Republic	
Education level in national or international classification	Ing. (Master of Science)	

## Personal skills and competences

Mother tongue

Ruthenian

Other language(s)

*Self-evaluation*

*European level (\*)*

**English language**

**Russian language**

Understanding		Speaking		Writing
Listening	Reading	Spoken interaction	Spoken	
A2	B1	A1	A1	A1
A2	B1	A1	A1	A1

(\*) Level by Common European Framework (CEF)

## Additional Information

### Projects (selection for the last 5 years):

- [1] VEGA 1/0241/22 Mobile robotic systems for support during crisis situations. Period of solution: 01/2022 – 12/2024, Responsible Investigator
- [2] APVV-17-0014: Smart tunnel: telematics support for traffic tunnel emergencies Period of solution: 07/2018 – 12/2021, Responsible Investigator
- [3] VEGA 1/0367/15 Research and development of a new system of autonomous control of robot trajectories Period of solution: 01/2015– 12/2017, Deputy Responsible Investigator
- [4] Measuring system with optical sensor for Weight In Motion systems VEGA-15-0441: Solution period: 1.7.2016 - 29.6.2020. Project budget for UNIZAV total 240 000 €. Investigator. • Research and development of a new system of autonomous control of robot trajectory VEGA 1/0367/15. Solution period: 01 / 2015- 12/2017 Project budget in total amount 447 €. Representative of the responsible investigator.
- [5] HW innovation and SW tools and laboratory teaching methods focusing on addressing security aspects of ICT in security critical applications of process management. KEGA- 008ŽU-4/2015.01/2015 - 12/2017 Budget of the project in total amount of 27700 €. Investigator
- [6] Research Centre of traffic telematics systems. Project of the EU Structural Funds. ITMS 26220220169. Solution period: 07/2013 - 06/2015. Project budget for UNIZA in total amount of 120 000 €.Project Manager, Investigator.
- [7] New methods of measurement of physical dynamic parameters and interactions of motor vehicles, traffic flow and roadway. Project of the EU Structural Funds. ITMS 26220220089. Solution period: 06/2010 - 06/2015. Project budget for UNIZA in total amount of 120 000 €. Project Manager, Investigator.
- [8] Innovation and the internationalization of education - tools to improve the quality of the University of Žilina in the European education area. Project of the EU Structural Funds. ITMS

26110230079. Solution Period: 02 / 2013-06 / 2015. Project budget for UNIZAv total amount of 1 883 240 €. Investigator.

- [9] University Science Park in University of Žilina Project of the EU Structural Funds. ITMS 26220220184. Solution period: 07/2013 - 12/2015 Project budget for UNIZA in total amount € 43,495,368 .Investigator.
- [10] R & D co - operation project with commercial sphere in field of transport telematics number U01 / 2015: Possibilities of tracking the ground traffic of transport facilities in a specific environment of airport parking systems and the subsequent dissemination of this information towards general information systems of traffic information Provider: TECHNISERV sro Responsible researcher: Ing. Rastislav Pirník, PhD. Project budget in of the total amount of 15 000 €.

**Published work (selection for the last 5 years):**

- [1] Bujnák M., Pirník R., Rástočný K., Janota A., Nmemec D., Kuchár P., Tichý T., Lukasič Z.: Spherical Robots for Special Purposes. A review on current possibilities Sensors Volume: 22 Issue: 4 DOI10.3390/s22041413, Published: 2022 [ Q1, IF 3.735, CC, WoS, Scopus]
- [2] Kuchár, P.; Pirník, R.; Tichý, T.; Rástočný, K.; Skuba, M.; Tettamanti, T. Noninvasive Passenger Detection Comparison Using Thermal Imager and IP Cameras. Sustainability 2021, 13, 12928. <https://doi.org/10.3390/su132212928> Published: 2021 [Q2: ENVIRONMENTAL SCIENCES; IF 2.576] CC, WoS, Scopus
- [3] Tichý T.; Brož J; Bělinová Z.; Pirník R. Analysis of predictive maintenance for tunnel systems Sustainability Volume: 13 Issue: 7 Article Number: 3977 <https://doi.org/10.3390/su13073977> Published: 2021 [Q2: ENVIRONMENTAL SCIENCES; IF 2.576] CC, WoS, Scopus
- [4] Nemeč D., Hruboš M., Janota A., Pirník R., Gregor M.: Estimation of the speed from the odometer readings using optimized curve-fitting filter. IEEE Sensors Journal, Volume21 Issue14, Page15687-15695, DOI10.1109/JSEN.2020.3023503 Published JUL 15 2021 [Q2: Engineering, Electrical and Electronic; IF 3.073] CC, WoS, Scopus
- [5] Nemeč D., Gregor M., Bubeníková E., Hruboš M., Pirník R.: Improving the Hybrid A\* method for a non-holonomic wheeled robot. INTERNATIONAL JOURNAL OF ADVANCED ROBOTIC SYSTEMS, Vol. 16, Issue 1, Article Number 1729881419826857, 2019 [Q4: Robotics; IF 1.482] CC, WoS, Scopus

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