PERSONAL INFROMATION

László Rónai PhD



06-46/565-111/21-09

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Sex: male | Date of birth: 30. 05. 1991. | Nationality: Hungarian

WORKPLACE AND POSITION

head of department, senior lecturer

University of Miskolc, Institute of Machine Tools and Mechatronics 2021 -Robert Bosch Department of Mechatronics

2020 - 2021 assistant lecturer, University of Miskolc, Institute of Machine Tools and Mechatronics, Robert Bosch Department of Mechatronics

WORK EXPERIENCE

20/05/2019-24/05/2019 Research study

University of Duisburg-Essen, Chair of Mechatronics, Germany, scholarship by Campus Mundi

01/09/2016 - 30/06/2017 Research Assistant

Research Institute of Applied Earth Sciences,

Department of Research Instrumentation and Informatics

01/02/2016 - 31/08/2016 Teacher of Engineering

University of Miskolc, Faculty of Mechanical Engineering and Informatics

Robert Bosch Department of Mechatronics

EDUCATION AND TRAINING

2016 - 2020PhD student

University of Miskolc, Faculty of Mechanical Engineering and Informatics, István Sályi

Doctoral School

2014 - 2016Certified Mechatronics Engineer (Diploma with Honours Degree)

University of Miskolc, Faculty of Mechanical Engineering and Informatics

2010 - 2014Mechatronics Engineer BSc (Diploma with Honours Degree)

University of Miskolc, Faculty of Mechanical Engineering and Informatics

2005 - 2010General Certificate of Secondary Education

Kandó Kálmán Technical School, Miskolc, Hungary

PERSONAL SKILLS

Mother tongue(s)

Hungarian

Other language(s)

UNDERS	UNDERSTANDING		SPEAKING	
Listening	Reading	Spoken interaction	Spoken production	
B2	B2	B2	B2	B2
English language examination certificate (B2), combined, 2010				
B1	B1	B1	B1	B1
PhD Technical German language examination, 2019				

English

German

German language examination certificate (B1), combined, 2018 Levels: A1/A2: Basic user - B1/B2: Independent user - C1/C2 Proficient user

Common European Framework of Reference for Languages



Digital competence

SELF ASSESSMENT				
Information processing	Communication	Content creation	Safety	Problem solving
Independent user	Independent user	Independent user	Independent user	Independent user

Levels: Basic user - Independent user - Proficient user Digital competences - Self-assessment grid

Programming languages: C, C++, C# (basic level);

Office applications: Microsoft Office™;

Design and engineering software's: AutoCAD, Creo Parametric, AutoDesk Inventor; Eagle

Simulation software's: Scilab, Matlab;

PLC programming: CX Programmer/Designer, IndraLogic;

Robot programming: Fanuc Roboguide;

Microcontroller programming: CooCox, MPLAB X, Arduino IDE;

Data processing: LabVIEW.

(These competences were acquired in the Secondary school and the University.)

Driving licence

B category driving license

ADDITIONAL INFORMATION

Major publications

Rónai L.: Robotic check of a subassembly, and its simulation, SN APPLIED SCIENCES, 5:208, 2023

Rónai L., Szabó T.: Snap-fit Assembly Process with Industrial Robot Including Force Feedback, Robotica, Cambridge University Press, 2020, pp. 317–336.

Rónai L., Szabó T.: Modeling and Robotic Handling of a Snap-Fitting Box Buckle, Pollack Periodica, Akadémiai kiadó, 2020, pp. 94 – 105.

Rónai L.: Design Aspects of a Robotic End-effector, Design of Machines and Structures, Vol. 8, No. 2 pp. 52-58., $7 \, \text{p.}$, 2019

Rónai L., Szabó T.: Application of Rexroth Controlling for Inverted Pendulum, IJEMS Vol. 4, No. 1., Debrecen, 2019

Rónai L., Szabó T.: Designing of Robotic Double-function Fingertips, Design of Machines and Structures, Vol. 7, No. 2 pp. 13-19., 7 p., 2018

Rónai L., Füvesi V., Vörös Cs.: Designing of a Water Sampling Unit, 5th ISCAME Conference, Debrecen, 2017

Rónai L., Szabó T.: Kinematical investigation and regulation of a 4DOF model robot, Acta Mechanica Slovaca Vol. 20, No. 3., ISSN 1335-2393, 2016

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2021 – 2023	Participant of the GINOP-2.2.1-15-2017-00093 SGT-C3D "Szerszámgép-, célgép-, és gyártóeszköz fejlesztés, valamint a kapcsolódó gyártási technológia kutatása a C3D Kft-nél" project
2018 – 2020	Participant of the EFOP-3.6.1-16-2016-00011, "Fiatalodó és megújuló Egyetem – Innovatív tudásváros" project
2016 – 2017	Participant of the UNEXMIN project, European Union's Horizon H2020, grant agreement No 690008
2016 – 2017	Feasibility study for welding battery cells with a robot, Research report. Made by the Robert Bosch Department of Mechatronics, University of Miskolc. Commissioned by the Robert Bosch Power Tool Ltd. Supervisor: Tamás Szabó PhD.
2012 – 2013	Participant of the TÁMOP-4.2.1.B-10/2/KONV-2010-0001 project



Honours and awards	2020	MAB DIPA Scientific award
	2018	ÚNKP (Új Nemzeti Kiválóság Program) scholarship
	2017	ÚNKP (Új Nemzeti Kiválóság Program) scholarship
	2017	XXXIII. OTDK Conference, 3rd place
	2016	Gold medallion for Studying Hard EEMC'16 Conference: Best poster award
	2015	TDK Conference 1st place Scholarship of the Hungarian Republic Engineers Competition – 6th place (National competition with 121 team), team leader Gold medallion for Studying Hard XXXII. OTDK Conference
	2014	TDK Conference 1st place Scholarship of the Hungarian Republic Gold medallion for Studying Hard
	2013	Scholarship of the Hungarian Republic Gold medallion for Studying Hard
	2012	TDK Conference 3rd place Bronze medallion for Studying Hard
	2011	Bronze medallion for Studying Hard TDK Conference
Memberships	2014 – 2015	University of Miskolc: ESN-Erasmus Student Network membership
	2009 –	MCSE- Hungarian Astronomical Association membership
	2007	Hungarian fishing-examination
Courses	2019	ISK German language course B2 group, Salzburg, Austria, scholarship by OMAA, 3 weeks
	2018	EFOP Participation in a series of training for researcher recruitment
	2017	ABB robot controller course (Ref.no.:16211924#768)
	2015	MeMOOC online course – Certificate (E-000085/2014/D007)
	2015	Takata – Automotive Safety Course
	2014	FESTO – Basics of Pneumatics Course
	2009	Tellus – Professional Work Experience 19. 07.–07. 08., Plymouth, UK
Courses held	2023	Robot programming course for industry professionals
	2020	Rexroth PLC programming course for industry professionals
	2018	Rexroth PLC programming course for industry professionals
	2018	Fanuc robot programming course for industry professionals in basic and expert levels