

## Curriculum Vitae

## PERSONAL INFROMATION

## László Rónai PhD



06-46/565-111/21-09

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

## WORKPLACE AND POSITION

## head of department, associate professor

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01/04/2024 - head of department, associate professor

University of Miskolc, Institute of Machine Tools and Mechatronics,

Robert Bosch Department of Mechatronics

15/02/2021 – 31/03/2024 head of department, senior lecturer

University of Miskolc, Institute of Machine Tools and Mechatronics,

Robert Bosch Department of Mechatronics

01/10/2020 – 14/02/2021 senior lecturer

University of Miskolc, Institute of Machine Tools and Mechatronics,

Robert Bosch Department of Mechatronics

01/07/2020 - 30/09/2020 assistant lecturer

University of Miskolc, Institute of Machine Tools and Mechatronics,

Robert Bosch Department of Mechatronics

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 – 2020 PhD studies (doctorate with summa cum laude)

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

Doctoral School

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

University of Miskolc, Faculty of Mechanical Engineering and Informatics

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

University of Miskolc, Faculty of Mechanical Engineering and Informatics

2005 – 2010 General Certificate of Secondary Education

Kandó Kálmán Technical School, Miskolc, Hungary

# PERSONAL SKILLS

Mother tongue(s) Hungarian

Other language(s)

UNDERS	TANDING	SPEA	WRITING			
Listening	Reading	Spoken interaction	Spoken production			
B2	B2	B2	B2	B2		
	English language examination certificate (B2), combined, 2010					
B1	B1 B1		B1	B1		
DhD Tachnical Cormon language examination, 2010						

English

German

PhD Technical German language examination, 2019 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



### Curriculum Vitae László Rónai PhD

### 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

<u>Digital competences - Self-assessment grid</u>

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.

**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., Lénárt J., Subert J.: Development of a Hydraulic Press Machine for Laboratory Measurements, Academic Journal of Manufacturing Engineering, Vol. 21., Issue 1, 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., Szabó T.: Application of Rexroth Controlling for Inverted Pendulum, IJEMS Vol. 4, No. 1., Debrecen, 2019

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

Pro	jects
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2022

	Pa	articipani	t of the I	KP-17-	-1/PALY-2020	) "Tarsadalmi	nasznossag no	oveio tejieszte	sek
	а	hazai	felszín	alatti	természeti	erőforrások	hatékonyabb	kiaknázása	és
	ha	sznosítá	ása terüle	etén" pr	roject.				
22	Pa	articipant	t of the (	GINOP	-2.2.1-15-20	17-00093 SG	T-C3D "Szersz	ámgép-, célge	ép-,

2021 – 2022	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	800							

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 TA	MOP-4.2.1.B	3-10/2/KONV-2010-000	1 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



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		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
	2010	Kandó – award Kandó Kálmán Technical School, Miskolc, Hungary
Memberships	2022	Member of the MTA Committee on Mechanical Structures/Mechatronics Subcommittee
	2016	Member of the "MAB – Gépszerkezettani Munkabizottság"
	2014 - 2015	University of Miskolc: ESN-Erasmus Student Network membership
	2009 - 2019	MCSE- Hungarian Astronomical Association membership
	2007	Hungarian fishing-examination
Participation in courses and study trips	2019	ISK German language course B2 group, Salzburg, Austria, scholarship by OMAA, 3 weeks
	2019	20/05-24/05 Research study: University of Duisburg-Essen, Chair of Mechatronics, Germany, scholarship by Campus Mundi
	2018	EFOP Participation in a series of training for researcher recruitment EFOP-3.6.1-16-2016-00011
	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, 2024	FANUC/KUKA robot programming course for industry professionals and technicians.
	2023	Electrohydraulic course for industry professionals and technicians.
	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.
Competitions	2015	Engineers Competition – 6th place (National competition with 121 team), team leader
	2012	Participation in the 34th György Hajós National Mathematics Competition Pázmány Péter Catholic University, Budapest
	2011	Participation in the 33rd György Hajós National Mathematics Competition Eötvös József College of Baja
	2008	II. place in the team at the Bede Lajos Mathematical Memorial Competition
	2007	Participation in the English Teaching Resource Centre competition University of Miskolc