



Europass Curriculum Vitae



Personal information

First name(s) / Surname(s) **BÉLA-ZOLTÁN / GYURKA**
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Fax(es)
E-mail gybz79@yahoo.com
Nationality Romanian
Date of birth March, 25, 1979
Gender Male

Occupational field **RESEARCH**

Work experience

Dates	2010-present
Occupation or position held	Researcher/PhD student at the Technical University of Cluj-Napoca, Department of Engineering of Mechanical Systems
Main activities and responsibilities	Research activities in field of robotics, computer programming, simulation techniques, kinematics and dynamics of parallel robots for surgical applications, automation.
Name and address of employer	Technical University of Cluj-Napoca, Memorandumului, 28, RO-400114 Cluj-Napoca, Romania, www.utcluj.ro
Type of business or sector	Research
Dates	2003-present
Occupation or position held	Automation engineer at S.C. IPA S.A. CIFATT Cluj
Main activities and responsibilities	Development of PLCs and microcontrollers, design and implementation of the SCADA systems, industrial communication systems and real time systems for parallel robots.
Name and address of employer	S.C. IPA S.A. CIFATT, Zorilor, 15, RO-400335 Cluj-Napoca, Romania, www.automation.ro
Type of business or sector	Engineering and research

Education and training

Dates 2002 – 2003
Title of qualification awarded Master

Principal subjects/occupational skills covered	Research in Automation and Computers Master thesis title: Modern techniques in automations.																						
Name and type of organisation providing education and training	Technical University of Cluj-Napoca, Daicoviciu, 15, RO-400020 Cluj-Napoca, Romania, www.utcluj.ro																						
Personal skills and competences																							
Mother tongue(s)	Romanian / Hungarian																						
Other language(s)	English																						
Self-assessment																							
European level (*)																							
English	<table border="1"> <thead> <tr> <th colspan="2">Understanding</th> <th colspan="2">Speaking</th> <th colspan="2">Writing</th> </tr> <tr> <th colspan="2">Listening</th> <th colspan="2">Reading</th> <th colspan="2">Spoken interaction</th> <th colspan="2">Spoken production</th> </tr> </thead> <tbody> <tr> <td>A2</td> <td></td> <td>A2</td> <td></td> <td>A2</td> <td></td> <td>A2</td> <td></td> </tr> </tbody> </table>	Understanding		Speaking		Writing		Listening		Reading		Spoken interaction		Spoken production		A2		A2		A2		A2	
Understanding		Speaking		Writing																			
Listening		Reading		Spoken interaction		Spoken production																	
A2		A2		A2		A2																	
	(*) Common European Framework of Reference for Languages																						
Social skills and competences	Team spirit, communicative, solidarity, honesty, correctitude, responsibility, dynamism																						
Organisational skills and competences	Good organiser and manager, education and research abilities, problem-solving-attitude, ability to respect deadlines for project activities																						
Technical skills and competences	Ability tin kinematic and dynamic modelling of robots, programming of robots and mechanical systems, CAD of robots, engineering design, command and control of industrial robots. PLCs and microcontrollers, SCADA systems design and implementation, Industrial Communication Systems Designing, implementing real-time systems Writing some scientific papers in ISI and BDI journals Participation at international conferences.																						
Computer skills and competences	SIMATIC STEP7-MicroWin, SIMATIC WinCC, SIMATIC WinCC Flexible, SIMATIC STEP7, Borland Delphi/Pascal, C/C++, LabWindowsCVI, LabView, AutoCAD, AutoLisp, MatLAB, OrCAD, JAVA, FoxPro, MS SQL Server, Visual Studio, Microsoft Office, HTML, Franklin C/ Asm for 80C51, CodeVisionAVR for. ATMEL AVR RISC, B&R Studio Easily adapts to new technologies/software																						
Artistic skills and competences	Motorsport, robots and technics																						
Other skills and competences	2005 – SIMATIC WinCC Basic Course - Diploma of graduation of a course in automation and drives, at Siemens Training Center, Wien, Austria 2002 – Graduation of a course in telecommunications, CEEPUS grant at Budapesti Műszaki Főiskola 1997 – 2002 Graduate the Faculty of Computers and Automations, Technical University of Cluj-Napoca – Engineer in Automations and Informatics 1993 – 1997 High School Nr.2 "Báthory István" – Cluj-Napoca, specialization: Informatics																						
Driving licence	Driving licence category B since 1997																						
Additional information	Scientific activity (entire career)																						
Annexes	Published papers in ISI journals, SCI journals, national and international conferences and congresses: 16 National and international research contracts: 6																						

Papers published in ISI and BDI journals and at international and national conferences

1. B. Gherman, C. Vaida, N. Plitea, B. Gyurka, D. Pisla, The experimental model of an active parallel surgical robot QIEM 2012 - International Conference on Quality and Innovation in Engineering and Management, Cluj-Napoca, 22-24 Nov 2012, Page(s): 361 – 366
2. B. Gyurka, Pisla, D.; Stancel, E.; Vaida, C.; Kovacs, I.; Gherman, B.; Balogh, S.; Plitea, N. Integrated control techniques for PARASURG 9M parallel robot AQTR THETA 18 – 2012 IEEE-TTTC International Conference on Automation, Quality and Testing, Robotics, Cluj-Napoca, 24-27 Mai 2012, ISBN 978-1-4673-0701-7, Page(s): 461 – 466
3. Istvan, K., Maria, M.; Bela-Zoltan, Gyurka.; Szabolcs, B. Vibrating wire sensor measurement method by stimulation with steps of variable frequency sinusoidal pulse trains AQTR THETA 18 – 2012 IEEE-TTTC International Conference on Automation, Quality and Testing, Robotics, Cluj-Napoca, 24-27 Mai 2012, ISBN 978-1-4673-0701-7, Page(s): 587 – 590
4. Pisla, D., B. Gherman, N. Plitea, **B. Gyurka**, C. Vaida, L. Vlad, F. Graur, C. Radu, M. Suci, A. Szilaghi, A. Stoica: *PARASURG Hybrid Parallel Robot for Minimally Invasive Surgery*, Chirurgia (Bucur), 106(5), pp. 619-625, 2011.
5. B. Gherman, C. Vaida, D. Pisla, N. Plitea, **B. Gyurka**, D. Lese, M. Glogoveanu, *Singularities and Workspace Analysis for a Parallel Robot for Minimally Invasive Surgery* AQTR THETA 17 – 2010 IEEE-TTTC International Conference on Automation, Quality and Testing, Robotics
6. **B. Gyurka**, D. Pisla, E. Stancel, C. Vaida, B. Gherman, D. Lese, M. Suci, N. Plitea, *The Control of the PARAMIS Parallel Robot using a Haptic Device*, AQTR THETA 17 – 2010 IEEE-TTTC International Conference on Automation, Quality and Testing, Robotics
7. Sz. Balogh, A. Corha, E. Stancel, **B. Gyurka**, C. Vigu, S. Ignat, *Technological Context Integration of Decision Support Components into SCADA Operative System for the Management of Cascaded Hydropower Plants*, AQTR THETA 17 – 2010 IEEE-TTTC International Conference on Automation, Quality and Testing, Robotics
8. E. Stancel, I. Stoian, I. Kovacs, **B. Z. Gyurka**, Sz. Balogh, *Urban Water Supply Distributed Control System*, AQTR THETA 16 – 2008 IEEE-TTTC International Conference on Automation, Quality and Testing, Robotics
9. **B.Z. Gyurka**, Sz. Balogh, E. Stancel, *Automated Maintenance Management System for Small Power Hydroelectric Plants*, AQTR THETA 15 – 2006 IEEE-TTTC International Conference on Automation, Quality and Testing, Robotics Cluj-Napoca, 25-27 Mai 2006, ISBN 1-4244-0360-X.
10. E. Stancel, I. Stoian, **B.Z. Gyurka**, C. Postec, A. Moldovan, *Intelligent System for underwater inspection based on digital camera* AQTR 2006 - THETA 15 – Proceedings of 2006 IEEE-TTTC International Conference on Automation, Quality and Testing, Robotics Cluj-Napoca Mai 2006, IEEE, ISBN 1-4244-0360-X
11. Bodi Camelia, **Gyurka Bela-Zoltan**, *Aspects regarding the data loggers for a ground-water monitoring system*, A&QT_R 2004 (THETA 14) 2004 IEEE-TTTC – International Conference on Automation, Quality and Testing, Robotics - May 13 – 15, 2004, Cluj-Napoca, Romania, ISBN 973-713-047-2
12. Tamas Levente, **Gyurka Bela-Zoltan**, Rodica Meza, *Flammable Gas Portable Detector using Microcontroller*, A&QT_R 2004 (THETA 14) 2004 IEEE-TTTC – International Conference on Automation, Quality and Testing, Robotics - May 13 – 15, 2004, Cluj-Napoca, Romania, ISBN 973-713-047-2
13. **Gyurka Bela-Zoltan**, *Egy benzin uzemu negyutemu motor elektronikus befrecskendezse es gyujtasa 80C552-es mikrokontrolerrel*, SZAMOKT 2002, 25-28 October 2002, Cluj-Napoca, Romania
14. Plitea, N. Hesselbach, J., Vaida, C., Raatz, A., **Pisla, D.**, Gyurka, B., Gherman, B., Design and Control of a Parallel Robot for Laparoscopic Surgery, The 1st Joint International Conference on Multibody System Dynamics, May 25-27, 2010, Lappeenranta, Finland, 2010.
15. Plitea, N., **Pisla, D.**, Vidrean, A., Vaida, A., Gyurka, B., *Workspace and Singularity Analysis for a Reconfigurable Parallel Robot*, SYROM 2009, Springer Verlag, Seite 563-576, 2009.
16. **Pisla D.**, Plitea N., Pisla A., Stoian I., Stancel E., Gyurka B. Z., Tepeş Alina, "A Simulation Control Interface for Robotic Structures used as Flight Simulators", AQTR 2008 (THETA16) IEEE-TTTC International Conference on Automation, Quality and Testing, Robotics, May 22-25, 2008, Cluj-Napoca, Romania, CD.

Annexes: Seminars and Workshops

1. Plitea, N., **Pisla, D.**, Vidrean, A., Vaida, A., Gyurka, B., *Workspace and Singularity Analysis for a Reconfigurable Parallel Robot*, SYROM 2009, Springer Verlag, Seite 563-576, 2009.
2. Plitea, N., Prodan, P., **Pisla, D.**, Bela Gyurka, *Kinematic Modeling and Workspace Analysis of a 5-DOF Reconfigurable Parallel Robot*, 18th International Workshop on Robotics in Alpe-Adria-Danube Region, May 25-27, 2009, Brasov, Romania, 2009.
3. **Pisla, D.**, Plitea N., Pisla A., Stoian I., Stancel E., Gyurka B. Z., Tepeş Alina, *A Simulation Control Interface for Robotic Structures used as Flight Simulators*, AQTR 2008 (THETA16) IEEE-TTTC International Conference on Automation, Quality and Testing, Robotics, May 22-25, 2008, Cluj-Napoca, Romania, CD.

National Research Grants (excerpt)

1. *Multidisciplinary development of surgical robots based on parallel structures – PARMIS*, Duration: 2007-2010, 11016/2007 Financed by: National Authority for Scientific Research, Position: Member
2. *SICOMSUV – “Sistem computerizat de monitorizare a poluării prin sunete și vibrații în aglomerările urbane”*, Duration: 2006-2009, Financed by: National Authority for Scientific Research, Position: Member
3. *SISCAV3 – “Sistem inteligent pentru inspectia subacvatica cu camera captive (mobila) pozitionata pe 3 axe”*, Duration: 2003-2005, Financed by: National Authority for Scientific Research, Position: Member
4. *Structural, geometrical, kinematic and dynamic researches for the development of a flight simulator adapted to special requirements – ASKOT*, Duration: 2006-2008, 120/2006, Financed by: National Authority for Scientific Research, Position: Member
5. *RISCEX – “Reducerea riscului la avarii și explozii prin soluții de monitorizare bazate pe realizarea unei familii de echipamente moderne, destinate supravegherii mediilor cu potențial exploziv”*, Duration: 2003-2004, Financed by: National Council of Scientific Research, Position: Member
6. *HIDROSIS - “Sistem automat de monitorizare a unui bazin hidrografic pentru urmărirea calității apelor, prevenirea inundațiilor și protecția mediului”* Duration: 2003-2004, Financed by: National Council of Scientific Research, Position: Member

I hereby certify that the above statements are true.

Date 22.04.2013

