

EUROPEAN
CURRICULUM VITAE
FORMAT



PERSONAL INFORMATION

Surname(s) / First name(s)	Roberto Žigulić
Address(es)	Primorska 28, Ika, 51414 Ičići, Croatia
Telephone(s)	++385 51 651 492
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E-mail(s), Web address(s)	zigulic@riteh.hr , zigarob@yahoo.co.uk
Nationality(-ies)	Croatian
Date of birth	July 8, 1966.
Identification number from Records of Scientific Workers	211831

WORK EXPERIENCE

• Dates (from – to)	1992.-1993
Name and address of employer	Shipyards 3. May, Liburnijska 3, HR-51000 Rijeka, Croatia
Type of business or sector	maintenance engineer
Occupation or position held	beginning employee
Main activities and responsibilities	crane construction and remounts
• Dates (from – to)	1993.-2001
Name and address of employer	Faculty of Engineering, University of Rijeka, Vukovarska 58, HR-51000 Rijeka, Croatia
Type of business or sector	science and education
Occupation or position held	Assistant
Main activities and responsibilities	scientific research, lecturing, professional work in Kinematics, Dynamics, Vibrations, Dynamics of Machines
• Dates (from – to)	2001.-2005
Name and address of employer	Faculty of Engineering, University of Rijeka, Vukovarska 58, HR-51000 Rijeka, Croatia
Type of business or sector	science and education
Occupation or position held	Assistant Professor
Main activities and responsibilities	scientific research, lecturing, professional work in Kinematics, Dynamics, Vibrations, Dynamics of Machines
• Dates (from – to)	2005.-
Name and address of employer	Faculty of Engineering, University of Rijeka, Vukovarska 58, HR-51000 Rijeka, Croatia
Type of business or sector	science and education
Occupation or position held	Associated Professor
Main activities and responsibilities	scientific research, lecturing, professional work in Kinematics, Dynamics, Vibrations, Dynamics of Machines

EDUCATION

Date	1981.-1985.
Place of education	Rijeka
Name and type of organisation providing education	Gymnasium
Title or qualification awarded	-

Date	1986.-1992.
Place of education	Rijeka
Name and type of organisation providing education	Faculty of Engineering, University of Rijeka
Title or qualification awarded	Bachelor of mechanical engineering

Date	1993.-1997.
Place of education	Rijeka
Name and type of organisation providing education	Faculty of Engineering, University of Rijeka
Title or qualification awarded	Master of Engineering Science

Date	1997.-2001.
Place of education	Rijeka
Name and type of organisation providing education	Faculty of Engineering, University of Rijeka
Title or qualification awarded	PhD in Engineering Science

TRAINING

Year	1997.
Place of training	Darmstadt, Germany
Name and type of organisation providing training	Fachgebiet Mechatronik und Maschinenakustik, Department of Mechanical Engineering, Technische Universität Darmstadt
Principal subjects/Occupational skills covered	Rotor dynamics, Mechatronics

Year	2001.
Place of training	Udine, Italy
Name and type of organisation providing training	CISM - International Centre for Mechanical Sciences
Principal subjects/Occupational skills covered	Summer school: Instabilities in mechanics

Year	2004.
Place of training	Poznan, Poland
Name and type of organisation providing training	Poznan University of Technology
Principal subjects/Occupational skills covered	CEEPUS Stipendium

Year	2005.
Place of training	Poznan, Poland
Name and type of organisation providing training	Poznan University of Technology
Principal subjects/Occupational skills covered	CEEPUS Stipendium

PERSONAL SKILLS AND COMPETENCIES

Mother tongue(s)	Croatian
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Other language(s)

Language	English	German:	Italian
Speaking	good	fair	fair
Writing	good	fair	fair

Understanding (listening and reading)	excelent	good	good
TECHNICAL SKILLS AND COMPETENCIES	<ul style="list-style-type: none"> - balancing of machines and devices, - professional analyses in the field of dynamics, vibrations and machine dynamics - simulations of vibrational and acoustical systems in the program packages MATHematica for Windows and Fortran, - vibration measurements with Vibroport 41 system with exciter system Vibroexciter and analysis of measured vibrations on Vibroexpert all made by Schenck, - sound level measurements, - measurements of a acoustical power 		
ADDITIONAL INFORMATION	<p>Membership: <i>Croatian Society of Mechanics</i>, CroFToMM (Croatian Member Organization of IFToMM)</p> <p>Researcher in the following projects of The Ministry of Science, Education and Sports in the Republic of Croatia :</p> <ul style="list-style-type: none"> 2007-, Mechatronic Approach to the Reduction of Machinery Vibration and Noise , Code 069-0691736-1733, principal investigator Asoc.Prof.D.Sc. Roberto Žigulić, University of Rijeka, Faculty of Engineering, MSES 2002 - 2006, Nonlinear Dynamics of Rotating Machinery, Code 069016, principal investigator Prof.D.Sc. Mirko Butković, MSES - Alstom Karlovac, 2003 - 2005, Investigation on destruction sensitivity decrease of large rotating machinery, Colaborative inter-university project, principal investigator Prof.D.Sc. Mirko Butković, 1997 - 2001, Mechanical Safety of Machines, Code 069013, principal investigator Prof.D.Sc. Mirko Butković, MSES - ABB Karlovac. 1999 - 2001, Vibrations and Safety of Machines, Bilateral Croatian/Slovenian scientific project, principal investigator Prof.D.Sc. Mirko Butković, Prof.D.Sc. Miha Boltežar 		
ANNEXES	Recent relevant publications		

Recent relevant publications

1. Braut, Sanjin; Zigulic, Roberto; Skoblar, Ante; Štimac, Goranka; Butkovic, Mirko; Jokic, Marko. Dynamic Analysis of the Rotor-Stator Contact due to Blade Loss // Proceedings of Twelfth World Congress in Mechanism and Machine Science / Merlet, Jean-Pierre ; Dahan, Marc, editor(s). Besancon : Comité Français pour la Promotion de la Science des Mécanismes et des Machines, 2007. pp. 1-6.
2. Hrvoje RADELJA, Roberto ŽIGULIĆ, Sanjin BRAUT, Numerical Simulation of Vehicle Passage Over Obstacles on the Road, Engineering review. (ISSN 1330-9587) 27 (2007) In press
3. Braut, S., Žigulić, R., Štimac, G., Skoblar, A.: *Full-Spectrum Analysis of the Rotor-Stator Rub Malfunction*, Bulletins for Applied & Computer Mathematics (ISSN 0133-3526), CXI (2007), Nr. 2297, pp. 84-89.
4. Skoblar, A., Žigulić, R., Braut, S., Štimac, G.: *The Accuracy of Rules for Prediction of Local Vibrations in Steel Ships*, Bulletins for Applied & Computer Mathematics (ISSN 0133-3526), CXI (2007), Nr. 2298, pp. 90-95.
5. Skoblar, Ante; Štimac, Goranka; Braut, Sanjin; Žigulić, Roberto: *Experimental and Numerical Analysis of the Sound Radiation From a Vibrating Plate*, Proceedings of 6th Youth Symposium on Experimental Solid Mechanics, Alessandro Freddi, editor(s). Vrnjačka Banja: Serbia, May 9-12, 2007, pp. 177-180.
6. Štimac, Goranka; Skoblar, Ante; Braut, Sanjin; Žigulić, Roberto: *The Analysis of Human Exposure to Whole-Body Vibration in the Steering Cabin of the Bulk Cargo Ship Unloader*, Proceedings of 6th Youth Symposium on Experimental Solid Mechanics, Alessandro Freddi, editor(s). Vrnjačka Banja: Serbia, May 9-12, 2007, pp. 303-306.
7. Braut, Sanjin; Zigulic, Roberto; Skoblar, Ante. Analysis of the critical parameters for appearance of the backward whirl in rotor-stator systems. // Bulletins for Applied & Computer Mathematics. CIX (2006) , 2286; pp. 105-110
8. Roberto Žigulić, Sanjin Braut, Ante Skoblar: *Calculation of the unsynchronous response of the Jeffcott rotor*, 11-th Symposium of Mathematics and its Applications, November, 2-5 2006, pp. 301-306
9. Braut, Sanjin; Zigulic, Roberto; Skoblar, Ante; Butkovic, Mirko. Modal testing of rotordynamic test rig for rotor-stator rub investigation // 22nd Danubia-Adria Symposium on Experimental Methods in Solid Mechanics / Gianni Nicoletto, editor(s). Parma : Italian Association for Stress Analysis, 2005. pp. 246-247.
10. Zigulic R, Braut, S., Skoblar, A., Butkovic, M.: Motion of a part of overhead transmission cable during the break// Bulletins for Applied & Computer Mathematics. CVII (2005) , 2239; pp. 35-40.
11. Zigulic, Roberto; Braut, Sanjin; Skoblar, Ante; Butkovic, Mirko. Comparison of a Different Implicit Time-integration Methods for the Numerical Solving of Contact Problem of the Rotor in Two Dry Friction Bearings // The 11th World Congress in Mechanism and Machine Science, Proceedings / Tian Huang, editor(s). Tianjin, China : China Machine Press, 2004. pp. 2148-2152
12. Braut, Sanjin; Zigulic, Roberto; Skoblar, Ante; Butkovic, Mirko. The influence of torsion on rotor/stator contact during run-up. // Bulletins for Applied & Computer Mathematics. CVII (2004) , 2229; pp. 57-66
13. Zigulic, Roberto; Braut, Sanjin; Skoblar, Ante; Butkovic, Mirko. The influence of some bearing parameters on the behaviour of the rotor in the dry friction bearings. // Bulletins for Applied & Computer Mathematics. CVII (2004) , 2228; pp. 47-56
14. Braut, Sanjin; Zigulic, Roberto; Skoblar, Ante; Butkovic, Mirko. Experimental and numerical estimation of annular seal influence on pump vibrations // Proceedings of the 20th DANUBIA-ADRIA Symposium on Experimental Methods in Solid Mechanics / Thamm, Frigyes ; Borbas, Lajos, editor(s). Gyor, Hungary : Scientific Society of Mechanical Engineering, 2003, pp. 6-7
15. Zigulic, Roberto; Braut, Sanjin; Skoblar, Ante; Butkovic, Mirko. Adaptive time-step implicit methods for solving contact problems in rotordynamics // Proceedings of the 4th International Congress of Croatian Society of Mechanics / Matejicek, Franjo, editor(s). Bizovac : Croatian Society of Mechanics, 2003. pp 593-600
16. Zigulic, Roberto; Braut, Sanjin; Skoblar, Ante; Butkovic, Mirko. Complicated behaviour of the rotor/stator contact in rotating machinery // 7th Conference on Dynamical systems – ; theory and applications, Proceedings / Awrejcewicz, Jan ; Owczarek, Artur ; Mrozowski, Jerzy, editor(s). Lodz : Department of Automatics and Biomechanics, 2003. pp. 255-260
17. Braut, Sanjin; Zigulic, Roberto; Skoblar, Ante; Butkovic, Mirko. Experimental and numerical estimation of disk position influence on rotor natural frequencies // Proceedings of the 19th DANUBIA-ADRIA Symposium on Experimental Methods in Solid Mechanics / Stupnicki, Jacek, editor(s). Polanica Zdroj : Committee for Mechanics of the Polish Academy of Sciences, 2002. pp. 22-23
18. Zigulic, Roberto; Butkovic, Mirko; Braut, Sanjin. Nonlinear dynamics of multy-disc rotor in dry friction bearings, // IFToMM, Sixth International Conference on Rotor Dynamics, Proceedings - Vol. 2 / Hahn, E. J. ; Randall, R. B., editor(s). Sydney : UNSW Printing Services, 2002. pp. 960-967

