

CURRICULUM VITAE

1. **Family name:** **Milovanović**
2. **First names:** **Zdravko**
3. **Date of birth:** **September 29th, 1963**
4. **Nationality:** **Serbian**
5. **Civil status:** **Married**
6. **Education:**

<i>Institution</i>	University in Banja Luka, Faculty of Mechanics in Banja Luka
<i>Date: from (month / year):</i> <i>to (month / year):</i>	October 1996. April 2001
<i>Degree(s) or Diploma(s) obtained:</i>	Ph.D. of Mechanical Sciences

<i>Institution</i>	University in Sarajevo, Faculty of Mechanics in Sarajevo
<i>Date: from (month / year):</i> <i>to (month / year):</i>	October 1989 June 1996
<i>Degree(s) or Diploma(s) obtained:</i>	M. Sc. Mechanical Engineer

<i>Institution</i>	University in Sarajevo, Faculty of Mechanics in Sarajevo
<i>Date: from (month / year):</i> <i>to (month / year):</i>	September 1984 March 1988
<i>Degree(s) or Diploma(s) obtained:</i>	B.Sc. Mechanical Engineer.

7. **Language skills:** (Mark 1 to 5 for competence, 5 being the highest)

<i>Language</i>	<i>Reading</i>	<i>Speaking</i>	<i>Writing</i>
English	3	3	3
Russian	5	4	4
Serbian	Native		

8. **Membership of professional bodies:**

- The RS Association for maintenance of working means;
- The RS Associations of energy specialists;

9. **Other skills (e.g. computer literacy, etc.):** Microsoft Word, Microsoft Excel, Microsoft PowerPoint, MapInfo Professional, Corel Draw, Auto Cad, Fortran 32, Microsoft Visio

10. **Present position:** Professor on University of Banjaluka, Mechanical Engineering; "Systems Maintainability and Reliability", "Thermal Power Plants", "Heat turbo engines" and "Pumps, Compressors and Ventilators"

11. **Years within the firm: 20 years of experience in different companies**

2006 - Present	University of Banjaluka, Mechanical Engineering
2005 - 2008	General Manager at Civil Engineering Institute "IG" Ltd, Banja Luka.
2003 - 2004	Assistant Minister for Energy, Government of Republic of Srpska Ministry of Economy, Energy and Development
1998 - 2003	Leading Engineer "Elektroprivreda" of Republic of Srpska
1997 - 1998	Engineer Specialist "Elektroprivreda" of Republic of Srpska
1990 - 1992	Head Engineer Technical Maintenance Institute Hadžići
1990 - 990	Leading constructor – technologist, Zrak Company, Sarajevo

1988 - 1990

Constructor – Technologist, Company “Zrak”

12. Key qualifications (relevant to the programme): technical sciences in the field of energy, specialized thermo energy and competitive engineering; ECPD Certificate in the field “Project planning, development and management”, December 1999; Heat turbo engines and Pumps and Ventilators.

13. Specific Eastern European and CIS experience:

<i>Country</i>	<i>Date: from (month / year) to (month / year)</i>
Bosnia and Herzegovina	1988 - 2008

14. Professional Experience Record:

<i>Date: from (month / year) to (month / year)</i>	IX 2007 currently employed
<i>Location:</i>	R Srpska, BiH
<i>Company:</i>	Faculty of Mechanical Engineering Banja Luka
<i>Position:</i>	Full Professor
<i>Description:</i>	University of Banja Luka

<i>Date: from (month / year) to (month / year)</i>	V 2005 IX 2007
<i>Location:</i>	R Srpska, BiH
<i>Company:</i>	Civil Engineering Institute “IG” Ltd, Banja Luka
<i>Position:</i>	General Manager
<i>Description:</i>	Civil Engineering Management

<i>Date: from (month / year) to (month / year)</i>	II 2003 V 2004
<i>Location:</i>	R Srpska, BiH
<i>Company:</i>	Ministry of Economy, Energy and Development
<i>Position:</i>	Assistant Minister for Energy
<i>Description:</i>	Management of Energy sector (existing infrastructure and development projects, strategic documents, restructuring of energy sector on BiH level, realization of reconstruction and revitalization of transmission system – Power III)

<i>Date: from (month / year) to (month / year)</i>	VIII 1998 III 2003
<i>Location:</i>	R Srpska, BiH
<i>Company:</i>	“Elektroprivreda” of Republic of Srpska
<i>Position:</i>	Leading Engineer for Thermo – energy
<i>Description:</i>	Coordinator for development projects monitoring and power economy, “Elektroprivreda” of Republic of Srpska, Trebinje (Reconstruction, revitalization and modernization of the existing power plants and development project in the field of hydro and thermo energy)

<i>Date: from (month / year) to (month / year)</i>	XI 1997 VI 1998
<i>Location:</i>	R Srpska, BiH
<i>Company:</i>	“Elektroprivreda” of Republic of Srpska
<i>Position:</i>	Engineer Specialist
<i>Description:</i>	Complex thermo-energetic designs, Independent Professional Associate for power economy, “Elektroprivreda” of Republic of

	Srpska, Srpsko Sarajevo- Pale 1, Reconstruction, revitalization and modernization of Mines and Thermo Power Plant Ugljevik and Mines and Thermo Power Plant Gacko with its infrastructure, development issues in the field of thermo energy, surface preparation for Thermo Power Plant and Heating Plant Banja Luka
<i>Date: from (month / year) to (month / year)</i>	XII 1992 VI 1996
<i>Location:</i>	R Srpska, BiH
<i>Company:</i>	Maintenance Institute "Kosmos" Banja Luka
<i>Position:</i>	Head of maintenance for KoV means
<i>Description:</i>	Management of maintenance sector for wheel vehicles and track laying vehicles, introduction of quality system, managing and optimization of spare parts reserves, technology promotion in hard working environments
<i>Date: from (month / year) to (month / year)</i>	XII 1990 V 2002
<i>Location:</i>	R Srpska, BiH
<i>Company:</i>	Technical Maintenance Institute Hadžići
<i>Position:</i>	Head Engineer for development projects
<i>Description:</i>	Designing in the field of development projects for special purpose industry, revitalization, reconstruction and modernization of the existing facilities for special purpose industry, denticular power transmission – designing and preparation of technological procedures, quality control
<i>Date: from (month / year) to (month / year)</i>	III 1990 XII 1990
<i>Location:</i>	BiH
<i>Company:</i>	Zrak Company
<i>Position:</i>	Leading constructor – technologist
<i>Description:</i>	Designing and preparation of technologies for production of mechanical optic-measuring and sight/target devices, system from the field of special purpose industry
<i>Date: from (month / year) to (month / year)</i>	V 2003 VIII 2003
<i>Location:</i>	BiH
<i>Company:</i>	Zrak Company
<i>Position:</i>	Constructor - Technologist
<i>Description:</i>	Constructor - Technologist

15. Others:

16. Publications:

Selected Elaborates:

- Hydro-meteorological and seismological basement for Thermo Power Plant – Heating Plant Banja Luka – selection of macro and micro location, 1999 – 2000;
- Feasibility Elaborate on continuation of Fatničko polje-Akumulacija Bileća Tunnel construction, Trebinje, 2003;
- Elaborate on thermal and hydro-energetic potential of Republic of Srpska, Banja Luka, 1999 – 2000;

Selected Studies:

- Study on route of main high pressure gas pipe line branch on Zvornik line (Block station No. 5) – Vlasenica, 2001;
- Feasibility study for Hydro Power Plant on Bistrica, Eling inženjering Teslić, 2005, consulting services;
- Feasibility study for Hydro Power Plant Šipovo power 3,5 MW, Eling inženjering Teslić, 2004, consulting services;
- Feasibility study for Hydro Power Plant Mrkonjić Grad power 2,5 MW, Eling inženjering Teslić, 2004, consulting services;
- Feasibility study for Hydro Power Plant Jajce power 0,5 MW, Elektrobosna Jajce, 2003, consulting services;
- Terms of references for Feasibility study for Hydro Power Plant Mrsovo power 37,2 MW, IG, 2005;
- Terms of references for Feasibility study for HPP Paunci power 43,2 MW, IG, 2005;
- Terms of references for Energy development strategy of Republic of Srpska up to year 2020, Banja Luka, 2004;
- Terms of references for Energy development strategy of BiH up to 2020. with review on continuity till 2050, Sarajevo, 2004.
- Feasibility Study “Hydro Power Plant B-4” on Bistrica River as a part of the system “Hydro energetic system on Bistrica River”, “IG”, 2005
- Preliminary Feasibility Study of the system “Hydro Power Plant System Buk Bijelanska”, “IG”, 2005
- Feasibility Study for HPP Mrsovo, power 37,2 MW, “IG” 2005
- Feasibility Study for HPP Paunci, power 43,2 MW, “IG” 2005
- Preliminary Feasibility Study for construction of TPP Stanari, “IG” 2006
- Preliminary Feasibility Study for construction of TPP Stanari – Brief Resume, “IG” 2006
- Supplement Mining Project for Limestone Mine Doboje, “IG”, 2006
- Environment Impact Study of second phase of clinker and ashes STOCK PILE “Jezero” at Thermo Power Plant Tuzla, “IG” 2006
- Study for definition of activities, programs and means necessary for elimination of unofficial stock piles that impact the environment quality in Sarajevo Canton and area, “IG” 2006
- Feasibility Study for construction of MHPP Kotor Varoš, power 3,4 MW, “IG” 2006
- Feasibility Study for construction of MHPP Duljci, power 1,1 MW, “IG” 2006
- Feasibility Study for construction of MHPP Ukrina, power 0,5 MW, “IG” 2006
- Feasibility Study for construction of MHPP J-2, power 1,7 MW, “IG” 2006
- Feasibility Study for construction of MHPP R-S-1, power 0,78 MW, “IG” 2006
- Actualization and updating of Feasibility Study of “HPP Mrsovo” and “HPP Paunci”, IG 2006
- Preparation of Feasibility Study for construction of MHPP S-J-2 (“Feasibility Study”)
- Preparation of Feasibility Study for TPP Stanari/ Annex B and C, realization and processing of financial analysis for self-initiative proposal for “HPP Janjske otoke – niska”, power 2x10 MW
- Feasibility Study for construction of MHPP R-S-1, 0,78 MW power, IG 2006, position: Head of Project and Head Designer for hydro-mechanical phase
- Study on protection of Una River banks –Draft IG, June 2006, Position: Team Member
- Preparation of Preliminary Feasibility Study for construction of midget hydro power plants in the area of Bosna River basin
- Preparation of Feasibility Study for construction of MHPP on Jadar River and MHPP Pećina, MHPP Parni Lug and MHPP Kušlat on Drinjača River based on Preliminary solution.
- Preliminary Feasibility Study for construction of MHPP Jasenica on Velika Jasenica River, MHPP Žeželja on Žeželja River and MHPP Žiraja on Žiraja River, Head of Project, April 2007

- Preliminary Feasibility Study for construction of MHPP Klobučarica on Klobučarica River, Head of Project, August 2007
- Preliminary Feasibility Study for construction of MHPP Paklenica on Paklenica River, Head of Project, February 2007
- Feasibility Study for construction of MHPP Delibašino Selo on Vrba River, 2007.
- Preliminary Feasibility Study with general design for construction of Thermal Power Plant – Heating Plant Doboj, Head of Project, July 2007
- General Project SHHP Sućeska 2x1 MW, Head of Project, 2008.
- Feasibility Study Wind Farm Trusina, September 2011, IG PC Trebinje, Trebinje
- Feasibility Study Wind Farm Hrgud, September 2011, IG PC Trebinje, Trebinje
- Feasibility Study TPP Ugljevik III - 2x233 MWe, February 2012, IG PC Trebinje, Trebinje
- Feasibility Study TPP Ugljevik III - 2x320 MWe, September 2012, IG PC Trebinje, Trebinje

Selected Publications:

- Modified method for assessment of optimal liability of condensation thermo power plant, Ph.D. Dissertation defense, University in Banja Luka, Faculty of Mechanics, Banja Luka, 2001;
- Optimization of thermo power plants liability, University in Banja Luka, Faculty of Mechanics in Banja Luka, 2003;
- Systems Maintainability and Reliability, The library DQM Monographs "Quality and Reliability in practice, 2007;
- Works code from International Council Energy of Srpska '98, Vrućica Spa, Teslić, 2001;
- Energetic machines, Book 3: Compressors – mimeographed noted, Faculty of Mechanics, Banja Luka, 2005;
- Miličić D., Milovanović Z.: Library Monographs: Energy- Generating Machines Steam Turbines, University in Banja Luka, Faculty of Mechanics, Banja Luka, 2010., page 923
- Milovanović Z.: Library Monographs: Energy- Generating Machines Thermodynamic and Flow dynamics Basics of Thermal Turbo Machiners, University in Banja Luka, Faculty of Mechanics, Banja Luka, 2010., page 668
- Milovanović Z.: Library Monographs: Power and Process Plants, Volume 1: Thermal power plants - Theoretical basis, University in Banja Luka, Faculty of Mechanics, Banja Luka, 2011., page 431
- Milovanović Z.: Library Monographs: Power and Process Plants, Volume 2: Thermal power plants - Technological systems, design and construction, operation and maintenance, University in Banja Luka, Faculty of Mechanics, Banja Luka, 2011., page 842
- Milovanović Z., Miličić D.: Library Monographs: Energy- Generating Machines Steam Turbines for cogeneration power, University in Banja Luka, Faculty of Mechanics, Banja Luka, 2011., page 500 (in press).
- Over 100 published scientific and professional works in international magazines and codes from international councils in the field of energy, quality and ecology (DQM 1-6, Electra 1-3, Energy of the RS '98, Code of natural-mathematic sciences 1-6, Bradford England, Maintenance Serbia and Montenegro, Liability Serbia and Montenegro, Industrial energy Serbia and Montenegro, Standards and qualities Russia, DEMI and others).
- Z. N. Milovanović, D. Miličić: Proceedings TENOR 2010, Ugljevik, 2010.
- Z. N. Milovanović, D. Miličić: Proceedings TENOR 2011, Ugljevik, 2011.

Selected Projects:

- Final Design for MHPP “S-J-3”, Head of Project and Head Designer, November 2007
- Preliminary Solution for MHPP Cijevna 1, 2, 3 and 4 within integral planning,

- protection and exploitation of Bosna River, on Dobož – Modriča line, Head Designer, July 2007
- As-Built Design of electric-energetic and lighting installations for Laktaši Spa Swimming pool (Banja Laktaši), Head of Project, July 2007
 - Final Design for rehabilitation of Mountain Hut “Šibovi”, Designer, July 2007
 - International public tender for concession award for Hydro-energetic system on Vrbas river, power 55,5 MW (Hydro Power Plant Banja Luka low and Hydro Power Plant Krupa), 2002 – 2004;
 - International public tender for concession award for hydro-energetic system Buk Bijela power 505,5 MW (Hydro Power Plant Buk Bijela and Hydro Power Plant Foča), 2002 – 2005;
 - International public tender for concession award for realization of main gas pipe line SAVA (Zvornik - Novi Grad), 2001 – 2002;
 - International public tender for concession award for realization of Hydro power plant on Bistrica, 2005;
 - Power III, Banja Luka, 2004 – 2005, monitoring and supervision within the Committee for management of the RS and BiH energy sector restructuring;
 - Contract with the Government of Spain and IST Italy on preparation of Feasibility studies for small hydro power plant power up to 5 MW, Banja Luka, 2003 – 2005;
 - Milovanović Z., Šijački- Žeravčić V., Milanović D., Borojević S.: Suggested measures and activities for introducing optimal management of power and process plants competitive strength indicators (introduction of Asset management on the highest level – phase I), University in Banja Luka, Faculty of Mechanical Engineering, 2009, project coordinator, scientific research project co-financed by the Ministry of Science and Technology, Procedural Decision no. 06/6-020/961-56/08 of 24.10.2008
 - Milovanović Z., Petrović P., Milanović P., Knežević D., Kotur M., Tica G., Papuga S.: Analysis of potentiality and perspectives of cogeneration and trigeneration usage in the Republic of Srpska, University in Banja Luka, Faculty of Mechanical Engineering, 2009, project coordinator, scientific research project co-financed by the Ministry of Science and Technology, Procedural Decision no. 06/6-020/961-58/08 of 24.10.2008
 - Milovanović Z., Škundrić J., Milašinović A. and others: Analysis of self-sustainability of vertical axis wind turbine model application in rural household, University in Banja Luka, Faculty of Mechanical Engineering, 2009, project coordinator, scientific research project co-financed by the Ministry of Science and Technology, Procedural Decision no. 06/6-020/961-73/09 of 31.12.2010. European Investment Bank: Implementation of Energy Efficiency and Renewable Energy Credit lines in Serbia, Bosnia and Herzegovina, Croatia, FYROM, Albania, Kosovo under UNSCR 1244, Montenegro - Consultancy Services, Call for tenders: ref. KB-856 OJ Ref : 2009/S208-297226 of 28.10.2009, Fichtner GmbH & Co. KG (SEEC Serbia and Hrvoje Požar Croatia), Consultant for Republic of Srpska, 2009/10
 - Economic justification of the RiTE Gacko development Study, RiTE Gacko Project - revitalization of the RiTE Gacko, phase I and the first phase of the RiTE Gacko phase II, Civil Engineering Institute „IG“ Banja Luka, Business Center Trebinje, April 2010, Project Manager-in-chief and responsible designer within the scope of mechanical engineering and ecology

Selected Spatial-Planning documentation:

- Urban – technical requirements for construction of silos and reconstruction of lime furnaces in RKTK Dobož (Limestone Mine and Lime Factory Dobož), Head of Project, September 2007
- Urban – technical requirements for construction of MHPP Medna on Sana River, September 2007
- Urban – technical requirements for construction of MHPP Bistrica B-4, October 2007

- Urban – technical requirements for construction of MHPP Bistrica B5A, October 2007
- Urban – technical requirements for construction of MHPP Cijevna 1, 2, 3 and 4, November 2007
- Urban – technical requirements for construction of MHPP Cijevna 5 and 6, November 2007
- Urban – technical requirements for construction of LPG Station inside existing Petrol Station Integral Inženjering a.d. Banja Luka in Jug Bogdana Street Banja Luka, December 2007
- Urban – technical requirements for construction of LPG station inside existing Petrol Station Integra Inženjering LLC Banja Luka in 4 Milana Kranovića Street, B. Luka, December 2007
- Urban – technical requirements for construction of LPG station inside existing Petrol Station Integra Inženjering LLC Banja Luka in Doboj, January 2008
- Urban – technical requirements for construction of LPG station inside existing Petrol Station Integra Inženjering LLC Banja Luka in Ribnik, February 2008
- Urban – technical requirements for construction of MHPP “Paklenica”, November 2007
- Urban – technical requirements for construction (reconstruction, revitalization and modernization) of MHPP “Delibašino Selo”, October 2007
- Urban – technical requirements for construction of MHPP R-S-1 and MHPP R-S-2, Head of Project, May – August 2007
- Urban – technical requirements for construction of MHPP “Zapeće”, Had of Project, December 2007.
- Evidence of the application for environmental permits for the facility MHE Doboj, V&Z Protection Banja Luka, Professional konsultant the field of mechanical engineering and ecology, 2010., 70 pp.

Other:

- Action plan for situation consolidation in JMDP “Elektroprivreda RS”, 2003;
- Action plan of the RS for restructuring and privatization of electrical-energetic system in BiH, part II – Restructuring, USAID, 2003 – 2005;
- Concession draft program for Hydro Power Plants on Vrbas, Banja Luka, 2001;
- Laboratory accreditation;
- Methodology for determination of purchase price of energy for plants based on restorable energy power up to 5 MW, 2004;
- Hydro-energetic potential of the RS, Banja Luka 2003 – 2005;
- Hydro-energetic potential of the Banja Luka 2008-2009;
- Law regulation in the field of energy: Law on energy, law on establishment of transmission company and NOS, Law on transmission company of BiH, Law on independent system operator of BiH, Draft Law on establishment of South-East energy market, Draft Law on gas economy of the RS, System of rates for energy in the RS, year 2004, Decision on quality of oil and liquid oil derivatives from 2002 and other legal codes;
- Laboratories accreditation for assessment of quality of oil and liquid oil derivatives: Tatić Osječani Doboj and SQS Pale- S. Sarajevo with BiH Accreditation Institute, 2001 – 2003.

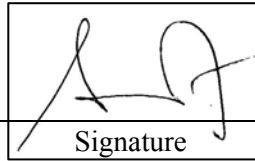
Editorship and membership in scientific boards (Group R₄₀₀)

- Bulletin of the RS Association for maintenance of working means, Member of Editorial Board from 2004 to today, RS;
- Member of Editorial Collegium of magazine „Research and Designing for Economy“ from 2003 to today, Institute for Research and Designing in Economy – IPP Belgrade.

Certification:

I, the undersigned, certify that to the best of my knowledge, these data correctly describe me, my qualifications and my experience.

Zdravko
Name of expert



Signature

2012-12-12
Date