



Europass Curriculum Vitae

Personal information

First name(s) / Surname(s) **Danilo Nikolic**

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Nationality Montenegrin

Date of birth 08-05-1969

Gender Male

Employment / Occupational field **Professor at the University of Montenegro (Faculty of Maritime Studies) I.C. Engines, Fuels, Combustion, Emission and Environmental protection**

Work experience

Dates From October 1995 – up to now

Occupation or position held **Assistant Professor / Dean of Maritime Faculty (currently)**

Main activities and responsibilities Lecturing, research

Name and address of employer University of Montenegro, Maritime Faculty, Dobrota 36, 85330 Kotor, Montenegro (www.fzpkotor.com)

Type of business or sector Higher education / Public

Dates From March 2015 – 2017

Occupation or position held **National coordinator for Horizon 2020 and NFP for energy**

Main activities and responsibilities Coordination for Horizon 2020 applications and national focal point for energy sector

Name and address of employer Ministry for science of Montenegro

Type of business or sector Public

Dates From March 2015 – up to now

Occupation or position held **Member of Montenegrin Council for higher education**

Main activities and responsibilities Implementation of Montenegrin law on higher education in Montenegro

Name and address of employer Ministry for education of Montenegro

Type of business or sector Public

Dates From March 2011 – up to now

Occupation or position held **President of the committee for oil and gas**

Main activities and responsibilities Introduction of standards EN and ISO

Name and address of employer Montenegrin Institute for standardisation

Type of business or sector Public

Dates From June 2010 – up to now

Occupation or position held **Expert for environmental protection sector**

Main activities and responsibilities Accreditation of laboratories

Name and address of employer Montenegrin Accreditation Body

Type of business or sector	Public
Dates	From June 2010 -
Occupation or position held	Committee member for energy efficiency and environmental protection
Main activities and responsibilities	Project activities
Name and address of employer	Montenegrin Chamber of Commerce
Type of business or sector	Public
Dates	From May 2009 – 2013
Occupation or position held	Council President of Montenegrin Environmental Protection Agency
Main activities and responsibilities	Activities related to governing of Montenegrin EPA
Name and address of employer	Montenegrin EPA - Environmental Protection Agency, Podgorica, Montenegro
Type of business or sector	Public agency
Dates	From April 2004 up to now
Occupation or position held	Scientific consultant at Institute for transportation (a part time job)
Main activities and responsibilities	Consultant for fuel quality testing laboratory
Name and address of employer	Institute for transportation in Podgorica, Montenegro (www.intra.co.me)
Type of business or sector	Private company
Education	
Dates	2007/2008
Title of qualification awarded	Visiting professor / researcher
Principal subjects/occupational skills covered	Motor vehicles, engines, alternative fuels and exhaust emission
Name and type of organisation providing education and training	University of Michigan, Dept. of Mechanical eng., W.E. Lay automotive laboratory, Ann Arbor, MI, USA
Dates	2005/2006
Title of qualification awarded	Visiting researcher
Principal subjects/occupational skills covered	Alternative fuels and exhaust emission
Name and type of organisation providing education and training	Japanese National Institute of Advanced Industrial Science & Technology, Clean Power System Group, Tsukuba, Ibaraki, Japan
Dates	2002
Title of qualification awarded	PhD title obtained
Principal subjects/occupational skills covered	Diesel engine, fuels and exhaust emission
Name and type of organisation providing education and training	University of Montenegro, Faculty of mechanical engineering, Podgorica, Montenegro / KEIO University, Dept. of System Design, Tokyo, Japan
Dates	2000/2001
Title of qualification awarded	Visiting researcher
Principal subjects/occupational skills covered	Diesel engine, fuels and exhaust emission
Name and type of organisation providing education and training	KEIO University, Dept. of System Design, Tokyo, Japan
Dates	1999
Title of qualification awarded	Master of sciences title obtained
Principal subjects/occupational skills covered	Diesel engine, fuels and exhaust emission
Name and type of organisation providing education and training	University of Belgrade, Faculty of mechanical engineering, Belgrade, Serbia

Dates	1995										
Title of qualification awarded	Bachelor of science diploma obtained										
Principal subjects/occupational skills covered	Motor vehicles and exhaust emission										
Name and type of organisation providing education and training	University of Montenegro, Faculty of mechanical engineering, Podgorica, Montenegro										
Personal skills and competences											
Mother tongue(s)	Montenegrin										
Other language(s)											
Self-assessment	Understanding				Speaking				Writing		
<i>European level (*)</i>	Listening		Reading		Spoken interaction		Spoken production				
English	C1	Proficient user	C1	Proficient user	C1	Proficient user	C1	Proficient user	C1	Proficient user	
	(*) <i>Common European Framework of Reference for Languages</i>										
Social skills and competences	Good to communicate with people with diverse background, internationally, based on many years of living abroad - USA (3 years) and Japan (2 years).										
Organisational skills and competences	Proficient leadership skills (Dean at the Maritime faculty, Council president at Montenegrin EPA, Executive director at different companies) and team work (different research activities)										
Computer skills and competences	Good command of Microsoft office and Internet applications										
Additional information											
Grants and awards											
	<ul style="list-style-type: none"> • Fulbright fellowship at the University of Michigan in Ann Arbor, Dept. of Mechanical eng., W.E. Lay Automotive lab., USA, 2007-2008 • Fellowship from Japanese National Institute of Advanced Industrial Science & Technology - AIST, Clean fuels laboratory, Tsukuba Science city, Japan, 2005-2006. • Fellowship from KEIO University, Iida Laboratory, Tokyo, Japan, 2000-2001 										
Memberships in international organizations	<ul style="list-style-type: none"> • A member of JSAE – Japan Society of Automotive Engineers (Japan), • A member of SAE – Society of Automotive Engineers (USA) 										
Community service	<ul style="list-style-type: none"> • A member of the Commission for driver's license examination in Montenegro for all driving categories in front of Ministry for education. 1995 - 2000 										

Annexes	List of publications, projects
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Annex 1 – Projects:

1. International certification of maritime education in Montenegro – EDUMAR. HERIC program. University of Montenegro, Maritime Faculty Kotor, project leader prof. dr Danilo Nikolic (14/04/2016 - 14/5/2017).
2. Montenegro Sustainable Maritime Competence Development Initiative, HERD Maritime 2010-2014, Higher education, research and development in the Western Balkans - maritime sector programme 2012-2014. Project partner UofM Maritime Faculty Kotor, project leader for partner institution prof. dr Danilo Nikolic, collaboration between University of Montenegro/Maritime faculty Kotor with Alesund University College, Norway (june 2013 – june 2016).
3. Modernizing and harmonizing maritime education in Montenegro and Albania – MarED, TEMPUS IV – 6th Call for proposals, project coordinator University of Montenegro/Maritime faculty Kotor, project leader prof. dr Danilo Nikolic (01/12/2013 - 30/11/2016).

4. Development of Sustainable Interrelations between Education, Research and Innovation at WBC Universities in Nanotechnologies and Advanced Materials where Innovation Means Business. TEMPUS IV – 6th Call for proposals. Project partner University of Montenegro/Maritime faculty Kotor, project leader for partner prof. dr Danilo Nikolic (01/12/2013 - 30/11/2016).
5. Possibilities for Production of Liquid Biofuels from Renewable Sources and Their Applications for Diesel Engine Propulsion on the Ships in Montenegro - BIOPOWER. National Project financed by the Ministry of Science: University of Montenegro, Maritime Faculty Kotor, project leader prof. dr Danilo Nikolic (2012 - 2016).
6. Possibilities of exhaust gas emission reduction from ships in Montenegrin and Croatian parts of Adriatic sea with implementation of Marpol Annex VI code. Project leader prof. dr Danilo Nikolic. Supported by Montenegrin Ministry of Science (bilateral cooperation with Croatia); collaboration between University of Montenegro/Maritime faculty Kotor with Maritime faculty, University of Split, Croatia (2013-2015.g.)
7. Production of liquid biofuels from renewable sources and their use in diesel engines on merchant and navy ships in Montenegro. Project leader prof. dr Danilo Nikolic. National project supported by Montenegrin Ministry of Science, 2012-2015.
8. Exploring the possibility of production of biofuels from waste materials and its application in the internal combustion engines. Project leader prof. dr Danilo Nikolic. Supported by Montenegrin Ministry of Science (bilateral cooperation with Bosnia and Herzegovina); collaboration between Maritime faculty in Kotor with Mechanical faculty, University of Sarajevo, Bosnia and Herzegovina (2012-2014.g.)
9. Research in the domain of ballast water managing. Project leader prof. dr Danilo Nikolic. Supported by Montenegrin Ministry of Science (bilateral cooperation with Slovenia); collaboration between Maritime faculty in Kotor, Montenegro with Maritime and Traffic Faculty, University of Ljubljana, Slovenia (2011-2012.g.)
10. Transport sector research environment in Montenegro, WBC-INCO.NET setting of regional research priorities. Project leader prof.dr Danilo Nikolić. Supported by Montenegrin Ministry of Education and Science (2009).
11. The current state of fuel quality in Montenegro. Project leader prof.dr Danilo Nikolić. Supported by Institute for transportation, Podgorica, Montenegro (2008 -2011)
12. Impact of alternative fuels on particulate emissions from diesel-fueled motor vehicle. A member of research team. University of Michigan, Dept of Mechanical eng., W.E. Lay automotive laboratory, Ann Arbor, MI, USA.
13. Investigation of alternative fuels (DME, GTL-Gas to Liquid Diesel, Diesel JIS2 without sulfur) influence on exhaust emission of nano-particulates (particles smaller than 50 nanometers in radius). A member of research team. Japan National Institute of Advanced Industrial Science & Technology, Clean Power System Group, Namiki 1-2-1, Tsukuba, Ibaraki, 305-8564, Japan.
14. Type approval of exhaust emission of KUBOTA V3300E engine using test cycle ISO 8178. A member of research team. Japan National Institute of Advanced Industrial Science & Technology, Clean Power System Group, Namiki 1-2-1, Tsukuba, Ibaraki, 305-8564, Japan.
15. A new method of VOC (volatile organic compounds) sampling from motor vehicle exhaust emission using test cycle ISO 8178. A member of research team. Japan National Institute of Advanced Industrial Science & Technology, Clean Power System Group, Namiki 1-2-1, Tsukuba, Ibaraki, 305-8564, Japan.
16. Investigation of diesel fuel injection duration on combustion process and NOx (nitrogen oxides) and soot formation. A member of research team. Iida laboratory, KEIO University, 3-14-1 Hiyohsi, Kouhoku-ku, Yokohama-city, Kanagawa, 223-8522 Japan.
17. Investigation of nozzle hole diameter (diesel injection system) on combustion process and NOx (nitrogen oxides) and soot formation. A member of research team. Iida laboratory, KEIO University, 3-14-1 Hiyohsi, Kouhoku-ku, Yokohama-city, Kanagawa, 223-8522 Japan.
18. Investigation of EGR (Exhaust Gas Recirculation) on combustion process and NOx (nitrogen oxides) and soot formation. A member of research team. Iida laboratory, KEIO University, 3-14-1 Hiyohsi, Kouhoku-ku, Yokohama-city, Kanagawa, 223-8522 Japan.
19. Investigation of total aromatics content in diesel fuel on combustion process and NOx (nitrogen oxides) and soot formation. A member of research team. Iida laboratory, KEIO University, 3-14-1 Hiyohsi, Kouhoku-ku, Yokohama-city, Kanagawa, 223-8522 Japan.
20. Investigation of aromatics type in diesel fuel on combustion process and NOx (nitrogen oxides) and soot formation. A member of research team. Iida laboratory, KEIO University, 3-14-1 Hiyohsi, Kouhoku-ku, Yokohama-city, Kanagawa, 223-8522 Japan.
21. Investigation of diesel fuel distillation temperature T90 on combustion process and NOx (nitrogen oxides) and soot formation. A member of research team. Iida laboratory, KEIO University, 3-14-1 Hiyohsi, Kouhoku-ku, Yokohama-city, Kanagawa, 223-8522 Japan.
Investigation of diesel fuel cetane number on combustion process and NOx (nitrogen oxides) and soot formation. A member of research team. Iida laboratory, KEIO University, 3-14-1 Hiyohsi, Kouhoku-ku, Yokohama-city, Kanagawa, 223-8522 Japan.

Annex 2 – Some of the papers/reviews published in journals:

1. Nikolić Danilo, Gagić Radmila, Ivošević Špiro, Estimation of Air Pollution from ships in the Boka Kotorska Bay (2016). The Boka Kotorska Bay Environment, part of the series The Handbook of Environmental Chemistry pp 1-12. ISBN 1867-979X. Springer.
2. Nikolić Danilo, Cvrk S., Marstijepović N., Gagic R., Filipovic I., Influence of Biodiesel Blends on Characteristics of Gaseous Emissions From Two Stroke, Low Speed Marine Diesel Engines. Advances in Application of Industrial Biomaterials. Springer.
3. Nikolić Danilo, Marstijepović N., Cvrk S., Gagic R., Filipovic I. (2016) Evaluation of pollutant emissions from two-stroke marine diesel engine fueled with biodiesel produced from various waste oils and diesel blends. Brodogradnja/Shipbuilding: Theory and Practice of Naval Architecture, Marine Engineering and Ocean Engineering, Vol.67 No.4 December 2016. (online), pp 81-90. ISSN 0007-215X, eISSN 1845-5859.
4. Aleksandar Nikolić, Danilo Nikolić, Emilija Nikolić, Vesna Vujačić "Urban Noise Modelling In Boka Kotorska Bay", Promet – Traffic&Transportation, Vol. 26, 2014, No. 2, 151-157, ISSN 0353-5321 print, ISSN 1848-4069 online
5. Branko Lalić, Ivan Komar, Danilo Nikolić, "Optimization of Ship Propulsion Diesel Engine to Fulfill the New Requirements for Exhaust Emissions", TOMS, Transactions On Maritime Science 31, April 2014 Vol.3.No1.ISSN 1848-3305.
6. G. Kastratović, Nikolić Danilo, "Exhaust emission control from marine diesel engines' Kvalitet i izvrsnost, ISSN 2217-852X, Year II, no 3-4 (p.64-67), 2013.
7. Nikolić A., Nikolić Danilo, "Evolution of equivalent noise levels in tourist resort Donja Lastva", Mathematica Montisnigri Vol XXIV (p. 261-270), 2012.

2. Bauk S., Nikolić Danilo, Ivosevic S, "Corrosion Wastage Modeling For Different Member Locations of Aged Bulk Carriers" *Journal of Maritime Research*, ISSN 1697-4840, Volume 7, No 1 (str 27-40), 2010.
3. Bauk S., Vujovic L., Nikolić Danilo, Ivosevic S., "The Corrosion Damages Modelling in Improving Safety of Aged Bulk Carriers", *Communications in Dependability and Quality Management – An International Journal*, ISSN 1450-7196, Maj, 2010.
4. Nikolić Danilo, Iida Norimasa, "Effect of intake CO2 concentrations on fuel spray flame temperatures and soot formations" *Proceedings of the Institution of Mechanical Engineers, Part D: Journal of Automobile Engineering*, Volume 221, Number 12/2007, (str. 1567–1574), ISSN 0954-4070, Professional Engineering Publishing, V. Britanija, Decembar 2007.
5. Nikolić Danilo, Vujadinović Radoje, Iida Norimasa, "Experimental study on effects of different EGR ratio on flame temperature and soot formation using diesel fuels with different T90 distillation temperatures" *Strojniški Vestnik* (str 863-871), ISSN 0039-2480, Slovenija, Decembar 2006.
6. Vujadinović R. i Nikolić Danilo, "Assessment Of Motor Vehicle Life Cycle Environmental Impact According To ISO 14040", *Kvalitet*, no 3-4 (67-71), ISSN 0354-2408, Beograd, Srbija, Mart 2008.
7. Oguma M., Goto S., Tsujimura T., Nikolić Danilo, "Analysis of Particulate Matter (PM) Emitted from DME Powered Direct Injection Diesel Engine – Measurement of PM Size Distribution", *JSAE (Japanese Society of Automotive Engineers) Review*, Volume 28, No2 (str. 181-186), ISSN 1349-4724, Japan, April 2007.
8. Vujadinović R., Nikolić Danilo, Dobovišek Ž., "Alternative approach to the modelling of CO2 emission from passenger vehicles", *FUELS and LUBRICANTS, Journal for Tribology, Lubrication, Application of Liquid and Gaseous Fuels and Combustion Engineering*, Volume 46 (str 129-148), ISSN 0350-350, Hrvatska, Maj 2007.
9. Shiotani H., Goto S., Kinoshita K., Nikolić Danilo, "Characteristics of Aldehydes and VOCs Emission from Off-Road Engines" *SAE (Society of Automotive Engineers) Journal of Fuels and Lubricants Transactions* (str 719-725), ISSN 978-0-7680-1836-3, SAD, Mart 2007.
10. Takahashi S., Nikolic Danilo, Wakimoto K., Iida N., "Effects of Aromatics Contents and 90% Distillation Temperature of Diesel Fuels on Flame Temperature and Soot Formation", *SAE (Society of Automotive Engineers) Journal of Fuels and Lubricants Transactions*, ISSN 978-0-7680-1836-3, SAD, 2003.

Annex 3 – Some of the papers published in the proceedings of the conferences:

1. Nikolić Danilo "New Technologies For Reducing Emissions From Ships", 3rd International Conference „NEW TECHNOLOGIES NT-2016, Development and Application, Mostar, Bosnia and Herzegovina, May, 2016.
2. Nikolić Danilo "Exhaust emission from marine diesel engines – significance, regulations, control technologies", II International symposium on corrosion and environmental protection, Bar, Montenegro, October, 2012.
3. Marstijepovic N., Sekulovic D., Ivanovic A., Nikolić Danilo "Current status on the biofuels market", II International symposium on corrosion and environmental protection, Bar, Montenegro, October, 2012.
4. Šušić J., Nikolić Danilo, "Application of water emulsified fuel to reduce emissions of NOx and soot in marine diesel engines", Conference on maintenance and production engineering "KODIP 2012", Budva, Montenegro, June 2012.
5. Đurišić D., Nikolić Danilo, "The use of biodiesel in the maritime transport", Conference Protection/Ecology/Security, Bar, Montenegro, May 2012.
6. Marstjepović N., Nikolić Danilo, Potpara Z. "Microalgae as an energy source", Conference Protection/Ecology/Security, Bar, Montenegro, May 2012.
7. Vujadinović R., Nikolić Danilo, "Measures for Improving Energy Efficiency in Road Transport ", *Simterm 2007*, Sokobanja, Srbija, October 2007.
8. Vujadinović R., Nikolić Danilo, "Global Warming and CO2 Emissions of Road Transportation: Comparative Analysis of Technologies and Fuels", *QME International Conference*, Budva, Montenegro, June 2007.
9. Nikolić Danilo, Ivošević Š., Sekulović D., " The influence of marine fuels on air quality with regard to the zone of the Bay of Kotor", Konferencija održavanja "KOD – 2010", Bar, Jun, 2010.
10. Nikolić Danilo, Vujadinović R., "Alternative fuels in motor vehicles - Global Trend", *Simterm 2007*, Sokobanja, Serbia, October 2007.
11. Nikolić Danilo, Vujadinović R., "Fuel Quality Monitoring System", *QME International Conference*, Budva, Montenegro, Septembar 2007.
12. Nikolić Danilo, Vujadinovic R., "Today's Motor Fuels and Exhaust Emission", 1st Symposium of Chemistry and Environment, Miločer, Montenegro, June 2007.
13. Nikolic Danilo, Vučeljić Đ., "Hazardous Substances in transportation", *Expertise's in Montenegro*, 6th Conference, Bar, Montenegro, May 2007.
14. Nikolic Danilo and Norimasa Iida Effects of total aromatic content and ring type in diesel fuels on flame temperature and soot formation, *FISITA WORLD CONGRESS 2004*, Barcelona, Spain, 2004.
15. Nikolic Danilo and Norimasa Iida, NOx and Soot Formation Reductions With Reformulated Diesel Fuel, *SWEMP - 8th International symposium on environmental issues and waste management in energy and mineral production*, 2004, Antalya, Turkey, 2004.

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