

# Curriculum Vitae

First name(s) / Surname(s)	<b>Danilo Nikolic</b>		
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Nationality	Montenegrin		
Date of birth	08-05-1969		
Gender	Male		
Employment / Occupational field	Full professor at the University of Montenegro Internal combustion engines, Fossil and alternative fuels, Fuel combustion and exhaust emission, Environmental protection and sustainable development in maritime transport		
<b>Work experience</b>			
Occupation or position held	<b>University of Montenegro</b>  <b>Management:</b> <ul style="list-style-type: none"> <li>• Rector of the University of Montenegro (2017 - 2021)</li> <li>• Dean of the Faculty of maritime studies in Kotor (2011 – 2017)</li> <li>• Founder and coordinator of the Centre for research, innovations and entrepreneurship @ Faculty of maritime studies (2016 – )</li> </ul> <b>Academic advances:</b> <ul style="list-style-type: none"> <li>• Full professor (2017 - )</li> <li>• Associate professor (2009 – 2017)</li> <li>• Assistant professor (2003 – 2009)</li> <li>• Teaching assistant (1995 – 2003)</li> </ul>		
Main activities and responsibilities	Lecturing, research, faculty/university management		
Name and address of employer	University of Montenegro, Cetinjska 2, 810000 Podgorica, Montenegro		
Type of business or sector	Higher education / Public		
Dates	From October 1995 – up to now		
Occupation or position held	<b>Member of the Scientific Committee for Transport of HAZU - Croatian Academy of Sciences and Arts</b>		
Main activities and responsibilities	Transportation research		
Name and address of employer	Croatian Academy of Sciences and Arts		
Type of business or sector	Public		
Dates	2019 – up to now		
Occupation or position held	<b>Member of Montenegrin Council for higher education</b>		
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	2015 – 2017		
Occupation or position held	<b>President of the committee for oil and gas</b>		
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
<b>Dates</b>	2010 – up to now
Occupation or position held	<b>Committee member for energy efficiency and environmental protection</b>
Main activities and responsibilities	Project activities
Name and address of employer	Montenegrin Chamber of Commerce
Type of business or sector	Public
<b>Dates</b>	2009 – 2013
Occupation or position held	<b>Council President of Montenegrin Environmental Protection Agency</b>
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
<b>Dates</b>	2008 - 2012
<b>Education</b>	
Title of qualification awarded	<b>Visiting professor / researcher</b>
Principal subjects/occupational skills covered	Diesel engine, 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
<b>Dates</b>	2007/2008
Title of qualification awarded	<b>Visiting researcher</b>
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
<b>Dates</b>	2005/2006
Title of qualification awarded	<b>PhD title obtained</b>
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
<b>Dates</b>	2002
Title of qualification awarded	<b>Visiting researcher</b>
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
<b>Dates</b>	2000/2001
Title of qualification awarded	<b>Master of sciences title obtained</b>
Principal subjects/occupational skills covered	Marine diesel engine, fuels and exhaust emission
Name and type of organisation providing education and training	University of Belgrade, Faculty of mechanical engineering, Belgrade, Serbia
<b>Dates</b>	1999

Title of qualification awarded	<b>Bachelor of science diploma obtained</b>
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
<b>Dates</b>	1995
<b>Trainings</b>	
Title of qualification awarded	<b>Certificate of Completion</b>
Principal subjects/occupational skills covered	Energy Transition through 2050 - Climate Science, Low Carbon Energy and Carbon Capture Strategies that Lead to Net-Zero
Name and type of organisation providing education and training	International Human Resources Development Corporation IHRDC www. <a href="https://ihrdc.com/about-ihrdc/">https://ihrdc.com/about-ihrdc/</a>
<b>Dates</b>	2022
Title of qualification awarded	<b>Certificate of Participation</b>
Principal subjects/occupational skills covered	Digital Sustainable Technologies in the Blue Economy
Name and type of organisation providing education and training	NTNU Norwegian University of Science and Technology
<b>Dates</b>	2022
Title of qualification awarded	<b>Certificate of Attendance</b>
Principal subjects/occupational skills covered	Regional training on Directive (EU) 2016/802 and other EU Maritime Environmental Legislation
Name and type of organisation providing education and training	EMSA European Maritime Safety Agency
<b>Dates</b>	2019
Title of qualification awarded	<b>Certificate of Completion</b>
Principal subjects/occupational skills covered	Energy Efficiency In Shipping
Name and type of organisation providing education and training	Lloyds Maritime Academy <a href="https://informaconnect.com/lloyds-maritime-academy/">https://informaconnect.com/lloyds-maritime-academy/</a>
<b>Dates</b>	2017
Title of qualification awarded	<b>Certificate of Completion</b>
Principal subjects/occupational skills covered	Overview of Offshore Systems
Name and type of organisation providing education and training	Petroskills <a href="https://www.petroskills.com/">https://www.petroskills.com/</a>
<b>Dates</b>	2017
Title of qualification awarded	<b>Certificate of Completion</b>
Principal subjects/occupational skills covered	Marine Pollution Prevention & Management
Name and type of organisation providing education and training	Lloyds Maritime Academy <a href="https://informaconnect.com/lloyds-maritime-academy/">https://informaconnect.com/lloyds-maritime-academy/</a>
<b>Dates</b>	2016
Title of qualification awarded	<b>Diploma</b>

Principal subjects/occupational skills covered	LNG fuelled ships - BASIC									
Name and type of organisation providing education and training	NTNU Norwegian University of Science and Technology									
<b>Dates</b>	2016									
Title of qualification awarded	<b>Certificate of Training</b>									
Principal subjects/occupational skills covered	Rolls-Royce Marine Acon LNG Familiarisation course									
Name and type of organisation providing education and training	Rolls-Royce (Norway)									
<b>Dates</b>	2014									
<b>Personal skills and competences</b>										
Mother language (s)	<b>Montenegrin</b>									
Other language (s)	<b>English</b>									
Self-assessment	<b>Understanding</b>				<b>Speaking</b>				<b>Writing</b>	
<i>European level (*)</i>	Listening		Reading		Spoken interaction		Spoken production			
<b>English</b>	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 (1 years).									
Organisational skills and competences	Proficient leadership skills (Rector of the University of Montenegro, Dean of Faculty for maritime studies Kotor, Council president at Montenegrin EPA, Executive director at different companies) and team work (different research activities)									
<b>Additional information</b>										
<b>Grants and awards</b>										
	<ul style="list-style-type: none"> <li>• Fulbright fellowship at the University of Michigan in Ann Arbor, Dept. of Mechanical eng., W.E. Lay Automotive lab., USA, 2007-2008</li> <li>• Fellowship from Japanese National Institute of Advanced Industrial Science &amp; Technology - AIST, Clean fuels laboratory, Tsukuba Science city, Japan, 2005-2006.</li> <li>• Fellowship from KEIO University, Iida Laboratory, Tokyo, Japan, 2000-2001</li> </ul>									
<b>Memberships in international organizations</b>	<ul style="list-style-type: none"> <li>• A member of SAE – Society of Automotive Engineers (USA)</li> </ul>									
<b>Community service</b>	<ul style="list-style-type: none"> <li>• A member of the Commission for driver's license examination in Montenegro for all driving categories in front of Ministry for education. 1995 - 2000</li> </ul>									

<b>Annexes</b>	List of publications, projects
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## Annex 1 – Selected projects

1. Green Corridors for Carbon-Neutral Cruise and Ferry Shipping in the ADRIION Region – GREENROUTES. Interreg VI - B IPA Adriatic Ionian – IPA ADRIION - Cooperation Programme 2021-2027 – 1st Call for proposals. Project consortium coordinator prof. dr Danilo Nikolic (2024 - 2027).
2. Joint approach to Blue circular Economy for Adriatic and Ionian Region – JOINABLE. Interreg VI - B IPA Adriatic Ionian – IPA ADRIION - Cooperation Programme 2021-2027 – 1st Call for proposals. Coordinator for partner institution University of Montenegro prof. dr Danilo Nikolic (2024 - 2027).
3. Developing innovation network for uptake of solutions in robotics and sensors to improve monitoring and prevention of pollution of freshwater and sea ecosystems – ROBONETCBC. Interreg VI-A, IPA CBC Croatia - Bosnia and Herzegovina – Montenegro, Coordinator for partner institution University of Montenegro prof. dr Danilo Nikolic (2024 - 2027).
4. Innovative Systems to enhance Antifraud Customs Controls (ISACC +). Interreg IPA SA Capitalisation Small-Scale Call. Coordinator for partner institution University of Montenegro prof. dr Danilo Nikolic (2024 - 2025).
5. Enhancing knowledge and skills at WB HEIs in preparation for zero carbon maritime transport and logistics society, Call: ERASMUS-EDU-2023-CBHE. Coordinator for partner institution University of Montenegro prof. dr Danilo Nikolic (15/01/2023 - 14/01/2026).
6. Development of Regional Joint Master Program in Maritime Environmental Protection and Management / MEP&M, Erasmus + CBHE Call for proposal 2020 EAC/A03/2019. Project consortium coordinator prof. dr Danilo Nikolic (15/01/2021 - 14/01/2024).
7. Sea Waste from Adriatic to Enhance Marine Composites, A bilateral cooperation research project between Italy and Montenegro, School of Science and Technology - University of Camerino and Faculty of maritime studies Kotor – University of Montenegro, co-financed by the Italian and Montenegrin Governments (1.1.2023-31.12.2024). Coordinator for partner institution University of Montenegro prof. dr Danilo Nikolic.
8. Smart and Green Ports – SG\_Ports, Interreg IPA Cross-border Cooperation Italia-Albania-Montenegro (2022 – 2023). Coordinator for partner institution University of Montenegro prof. dr Danilo Nikolic.
9. Sustainable development of BLUE economies through higher education and innovation in Western Balkan Countries – BLUEWBC, Erasmus + CBHE Call for proposal 2019 EAC/A03/2018. Coordinator for partner institution University of Montenegro prof. dr Danilo Nikolic (15/01/2020 - 14/01/2023).
10. Partnership for the prOMotion of a maRiTIme cross-border Strategy PORTS 4.0 - Interreg IPA Cross-border Cooperation Italia-Albania-Montenegro. Coordinator for partner institution University of Montenegro prof. dr Danilo Nikolic (2020 – 2021).
11. Reforming doctoral studies in Montenegro and Albania – MARDS, Erasmus + CBHE Call for proposal 2018 EAC/A03/2017. Member of project team for coordinating institution University of Montenegro prof. dr Danilo Nikolic (15/01/2020 - 14/01/2023).
12. Protection underwater heritage through its digitalization and valorization as a novel touristic offer – WRECKS4ALL, Interreg IPA Cross-border Cooperation Croatia-Bosnia and Herzegovina-Montenegro 2014-2020, 2nd Call for Proposals. Project consortium coordinator (2020 – 2022).
13. Fostering Internationalization at Montenegrin HEIs through Efficient Strategic Planning - IESP, Erasmus + CBHE Call for proposal 2019 EAC/A03/2018. Project consortium coordinator prof. dr Danilo Nikolic (15/11/2019 - 14/11/2021).
14. Partnership for the Observation and study of new Routes and Transnational Sea-highways – PORTS Interreg IPA Cross-border Cooperation Italia-Albania-Montenegro. Coordinator for partner institution University of Montenegro prof. dr Danilo Nikolic (2018 – 2020).
15. 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).
16. 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).
17. 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).
18. 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).
19. Possibilities for Production of Liquid Biofuels from Renewable Sources and Their Applications for Diesel Engine Propulsion on the Ships in Montenegro - BIOWPOWER. National Project financed by the Ministry of Science: University of Montenegro, Maritime Faculty Kotor, project leader prof. dr Danilo Nikolic (2012 - 2016).
20. 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.)

21. 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.
22. 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.)

## Annex 2 – Selected papers/reviews published in journals

1. Carlo Santulli, Cristiano Fragassa, Ana Pavlovic and Danilo Nikolic, Use of Sea Waste to Enhance Sustainability in Composite Materials: A Review, J. Mar. Sci. Eng. 2023, 11(4), 855; <https://doi.org/10.3390/jmse11040855>
2. Nada Marstijepovic, Sead Cvrk, Radmila Gagic, Ivan Filipovic, Danilo Nikolic, Application of biodiesel derived from olive oil production wastes at marine diesel engine and evaluation of gaseous emission trends, Thermal Science 2023 Volume 27, Issue 3 Part B, Pages: 2195-2203, <https://doi.org/10.2298/TSCI220707218M>
3. Gagic, R.; Skuric, M.; Djukanovic, G.; Nikolic, D. Establishing Correlation between Cruise Ship Activities and Ambient PM Concentrations in the Kotor Bay Area Using a Low-Cost Sensor Network. Atmosphere 2022, 13, 1819. <https://doi.org/10.3390/atmos13111819>
4. Giulia Zanier, Francesco Giunto, Andrea Petronio, Federico Roman, Radmila Gagić, Danilo Nikolic, Kotor Bay Area Hydrodynamics and Pollutant Dispersion Simulations: A Tool for Contingency Plans. EbookTechnology and Science for the Ships of the Future, 2018. Pages 604 – 611, DOI 10.3233/978-1-61499-870-9-604
5. 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.
6. 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 pp 49 - 63. Print ISBN 978-3-319-62766-3, online ISBN 978-3-319-62767-0. Springer.
7. 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.
8. 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
9. 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.
10. Nikolić A., Nikolić Danilo, "Evolution of equivalent noise levels in tourist resort Donja Lastva", Mathematica Montisnigri Vol XXIV (p. 261-270), 2012.
11. Kastratović G., Nikolić Danilo, (2013), Control of pollutant emissions from marine diesel engines. Kvalitet i izvrsnost, Year II, No 3-4, 2013, pp 64-67, ISSN 2217 – 852X.
12. Ivošević, Š., Bauk, S., Nikolić Danilo, Structural degradation of the bulk-carriers caused by the corrosion, Journal of Technics Technologies Education Management, (ISSN: 1840-1503), Vol.8, No.1, 2/3 2013.
13. Nikolić Danilo, Vujadinović R., “Legislation Harmonization in Republic of Montenegro With Eu in the Area of Motor Fuels Quality”, Kvalitet, Časopis za unapređivanje kvaliteta, broj 7-8 86-89), ISSN 0354-2408, Srbija, Septembar 2007.
14. 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 (129-148), ISSN 0350-350, Croatia, May 2007.
15. 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 (719-725), ISSN 978-0-7680-1836-3, SAD, Mart 2007.
16. 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, (1567-1574), ISSN 0954-4070, Professional Engineering Publishing, V. Britanija, Decembar 2007.
17. 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 (181-186), ISSN 1349-4724, Japan, April 2007.

18. Nikolic Danilo, Vujadinovic R., Norimasa Iida, „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.
19. Vujadinovic R., Nikolic Danilo, Ž. Dobovišek, „Alternative approach to modelling of CO2 emission from motor vehicles«, Fuels and Lubricants, Journal for Tribology, Lubrication, Application of Liquid and Gaseous Fuels and Combustion Engineering, Zagreb 2006. ISSN 0350-350X
20. Shinya Takahashi, Nikolic Danilo, Kazunari Wakimoto, Norimasa Iida, „Effects of Aromatics Contents and 90% Distillation Temperature of Diesel Fuels on Flame Temperature and Soot Formation“, Society of Automotive Engineers Transactions, Journal of Fuels and Lubricants, SAE, USA, 2003.

Last up-date: May, 2024.