

Curriculum Vitae

PERSONAL INFORMATION	Vahid Helać • Trešnje 31, Ilidža, 71210, Bosnia and Herzegovina							
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	 vhelac1@etf.unsa.ba https://www.linkedin.com/in/vahid-helac-74b0a0103/ Skype: vahid.helac 							
							Sex Male Date of birth 27/09/1992 Nationality Bosnian	
						JOB POSITION	Senior teaching assistant with University of Sarajevo, Faculty of Electrical Engineering	
						WORK EXPERIENCE		
January 2021 – present	Senior teaching assistant							
	University of Sarajevo, Faculty of Electrical Engineering							
	 Research and teaching in the field of renewable energy sources, engineering economics, power systems analysis, electrical substations. 							
April 2017 – January 2021	Teaching assistant							
	University of Sarajevo, Faculty of Electrical Engineering							
	 Research and teaching in the field of renewable energy sources, engineering economics, power systems analysis, electrical substations. 							
January 2018 – September 2021	Teaching assistant							
	University of Sarajevo, Faculty of Mechanical Engineering							
	Course: Fundamentals of Electrotechnics							
September 2016 – April 2017	Industry Expert							
	University of Sarajevo, Faculty of Electrical Engineering							
	 Research and teaching in the field of renewable energy sources, engineering economics, po systems, electrical substations. 	ower						
EDUCATIONAL BACKGROUND								
September 2014 – July 2016	Master of Electrical Engineering, Department of Electric Power	EQF level 7						
	Department of Electric Power Engineering, University of Sarajevo, Faculty of Electrical Engineering							
	Thesis title: Dynamic analysis of regime shifts of hybrid solar-wind power plants							
September 2011 – July 2014	Engineering	EQF level 6						
	Department of Electric Power Engineering, University of Sarajevo, Faculty of Electrical Engineering							
	Thesis title: Starting of three phase squirrel-cage and wound type induction motors							
March 2016	Advanced Microsoft Office Excel Macros and Functions Course IEEE Power and Energy Society Student Branch – University of Sarajevo							



October 2014 – January 2015	Technical English	• •		y of Sarajevo	
PERSONAL SKILLS					
Mother tongue(s)	Bosnian				
Other language(s)	UNDERSTANDING SPEAKING			WRITING	
	Listening	Reading	Spoken interaction	Spoken production	
English	C1	C1	B2	B2	B2
German	B2	B1	B1	A2	A2
	Levels: A1/A2: Basic user Common European Fram			er	
Communication skills	 Good communication Branch University of 		ugh time serving as (ugh experience as te		and Energy Student
Organisational / managerial skills	 Leadership (Coordi 	nation of multi-perso	on teams through org	anisation of voluntee	er student projects)
Computer skills	 Good knowledge of Proficient knowledg Good knowledge of 	e of: MATLAB, EMT	P-RV, ATP-EMTP, N	IEPLAN, AutoCAD, I	RetScreen
Digital skills	SELF-ASSESSMENT				
	Information processing	Communication	Content creation	Safety	Problem solving
	Independent user	Proficient user	Independent user	Independent user	Independent user
	Levels: Basic user - Indep Digital competences - Sel		user		
Driving licence	B category				
REFERENCES					_
BOOK PUBLICATIONS					
1.	S. Hanjalic, S. Smaka, V.Helac , Electrical energy generation 1, Faculty of Electrical Engineering Sarajevo, University of Sarajevo, Sarajevo 2019. ISBN: 978-9958-629-76-1				
2.	A. Odžak, A. Salihbeg Preparatory Teaching Sarajevo 2018. ISBN:	in Mathematics, Fac			
SCIENCE PAPERS/PUBLICATIONS					
1.	A. Džanan, S. Grebović, S. Smaka and V. Helać, "Analysis of Power Distribution Line Outage Based on Measurements and Simulations," 2022 21st International Symposium INFOTEH-JAHORINA (INFOTEH), 2022, pp. 1-6, doi: 10.1109/INFOTEH53737.2022.9751337.				
2.	A. Kokor, S. Smaka, S Phase Short Circuit Fa (INFOTEH), 2022, pp.	ault Characteristics,"	2022 21st Internation	al Symposium INFOT	



- A. Čerkez, S. Smaka, S. Hanjalić, V. Helać and M. Hanjalić, "Power quality improvement of small hydropower plant located in the industrial area," 2021 Selected Issues of Electrical Engineering and Electronics (WZEE), 2021, pp. 1-6, doi: 10.1109/WZEE54157.2021.9576911.
- M. Vranjkovina, V. Helac and S. Grebovic, "Lightning Protection Model of Photovoltaic Power Plants," 2021 20th International Symposium INFOTEH-JAHORINA (INFOTEH), 2021, pp. 1-6, doi: 10.1109/INFOTEH51037.2021.9400706.
- V. Helac and S. Hanjalic, Wind farm response on short circuits and longitudinal asymmetries, 2020 19th International Symposium INFOTEH-JAHORINA (INFOTEH), East Sarajevo, Bosnia and Herzegovina, 2020, pp. 1-6, DOI: 10.1109/INFOTEH48170.2020.9066318.
- V. Helac, S. Hanjalic, S. Curevac-Helac, Analysis of losses and power quality disturbances of grid connected PV system with different load profiles, 7th International Youth Conference on Energy 2019, Bled, Slovenia, July 2019. DOI: 10.1109/IYCE45807.2019.8991571
- V. Becirovic, V. Helac, B. Arslanagic, H. Samic, Effects on LEDs during Accelerated Ageing Test, 18th International Symposium INFOTEH-JAHORINA (INFOTEH), East-Sarajevo, Bosnia-Herzegovina, March 2019, DOI: 10.1109/INFOTEH.2019.8717756
- V. Helac, H. Capelj, V. Becirovic, S. Hanjalic, I. Pavic, Transmission Line Modeling in Three-Phase System and Frequency Domain Based on Kron Matrix Reduction, 18th International Symposium INFOTEH-JAHORINA (INFOTEH), East-Sarajevo, Bosnia-Herzegovina, March 2019, DOI: 10.1109/INFOTEH.2019.8717770
- V. Becirovic, V. Helac, S. Hanjalic, S. Smaka, H. Samic, Power Quality Problems in Autonomous Photovoltaic System with Energy Storage, International Symposium on Power Electronics, Electrical Drives, Automation and Motion (SPEEDAM), Amalfi, Italy, June 2018. DOI: 10.1109/SPEEDAM.2018.8445271
- 10. V. Becirovic, S. Smaka, R. Jercic, S. Hanjalic, **V. Helac**, A New Simple Algorithm for Power System Harmonics' Phasors Estimation, International Symposium on Power Electronics, Electrical Drives, Automation and Motion (SPEEDAM), Amalfi, Italy, June 2018. DOI: 10.1109/SPEEDAM.2018.8445372
- V.Helać, H. Šamić, S. Hanjalić, B. Nikolić, Influence of organic materials on solar cells efficiency, 17th International Symposium INFOTEH-JAHORINA (INFOTEH), East Sarajevo, Bosnia-Herzegovina, March 2018, DOI: 10.1109/INFOTEH.2018.8345525
- V. Helać, S. Hanjalić, Modeling and the impact on power quality of hybrid solar wind power plants, 6th International Youth Conference on Energy (IYCE), Budapest, Hungary, June 2017. DOI: 10.1109/IYCE.2017.8003729
- 13. S. Hanjalić, V. Helać, Hybrid Solar –Wind Power Plants –Simulation of a Daily Cycle and the Criteria for the Connection to the Power Grid, 4th International Symposium on Environment Friendly Energies and Applications, Belgrade, Serbia, September 2016. DOI:10.1109/EFEA.2016.7748781

PROJECTS	
July 2019.	 Project name: "Study of the Impact of the Small Hydro Power Plant Ivančica on the Distribution Network " Funding: Excellent d.o.o. Sarajevo, Bosnia and Herzegovina
	 Project name: "Study of the protection settings of the small hydro power plant Ivančica" Funding: Excellent d.o.o. Sarajevo, Bosnia and Herzegovina
December 2018.	 Project name: "Effects and phenomena on LED lighting devices during accelerated ageing tests" Funding: Ministry of Education, Science and Youth of Sarajevo Canton, Sarajevo, Bosnia and Herzegovina
ADDITIONAL INFORMATION	
Research Profiles	 ORCID: <u>https://orcid.org/0000-0001-5895-1894</u> ResearchGate: <u>https://www.researchgate.net/profile/Vahid-Helac</u> Google scholar: https://scholar.google.com/citations?user=xx2uzd8AAAAJ&hl=hr&oi=ao



Curriculum Vitae

Memberships

- IEEE from 2014 to present
- IEEE Smart Grid from 2016 to present
- IEEE Young Professionals from 2014 to 2016
- IEEE Power and Energy Society from 2014 to 2016
- IEEE Industry Application Society from 2014 to 2016

Honours and awards

- "Silver badge" award University of Sarajevo 2016 for one of the best students in master studies
- "Silver badge" award University of Sarajevo 2014 for one of the best students in bachelor studies
 3rd place in International Competition of Electrical Engineering students "Elektrijada 2016" in "Electric machines", Rimini, Italy, May 2016.