europass

Ajdin Alihodžić

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Cicin Han 14-a, Centar, 71000, Sarajevo, Bosnia and Herzegovina

WORK EXPERIENCE

02/2020 – CURRENT – Sarajevo, Bosnia and Herzegovina
UNIVERSITY TEACHING ASSISTANT – UNIVERSITY OF SARAJEVO - FACULTY OF ELECTRICAL ENGINEERING

08/2017 – 01/2020 – Sarajevo, Bosnia and Herzegovina
EXPERT ASSOCIATE FOR INVESTMENT – BH TELECOM JOINT STOCK COMPANY SARAJEVO

Department for Mechanical and Energy Engineering, Investment Project Management Sector, Executive Directorate for Investments

EDUCATION AND TRAINING

2015 – 2017 – Sarajevo, Bosnia and Herzegovina
MASTER OF ELECTRICAL ENGINEERING - ELECTRIC POWER ENGINEERING – University of Sarajevo - Faculty of Electrical Engineering

Address Zmaja od Bosne bb, Sarajevo, Bosnia and Herzegovina

2012 – 2015 – Sarajevo, Bosnia and Herzegovina
BACHELOR OF ELECTRICAL ENGINEERING - ELECTRIC POWER ENGINEERING – University of Sarajevo - Faculty of Electrical Engineering

Address Zmaja od Bosne bb, Sarajevo, Bosnia and Herzegovina

2019
CERTIFICATE OF PASSING THE PROFESSIONAL EXAM IN THE FIELD OF ELECTRICAL ENGINEERING – The Federal Ministry of Physical Planning, Federation of Bosnia and Herzegovina

LANGUAGE SKILLS

Mother tongue(s): **BOSNIAN**

Other language(s):

	UNDERSTANDING		SPEAKING		WRITING
	Listening	Reading	Spoken production	Spoken interaction	
ENGLISH	C1	C1	C1	C1	C1

Levels: A1 and A2: Basic user; B1 and B2: Independent user; C1 and C2: Proficient user

DIGITAL SKILLS

My Digital Skills

Matlab / Simulink | EMTP | COMSOL | 3D Lightning | Latex | Microsoft Project | AutoCAD | MS Visio | LabVIEW | Proteus | Arduino

NETWORKS AND MEMBERSHIPS

IEEE - Institute of Electrical and Electronics Engineers

CIGRÉ - International Council on Large Electric Systems

BH C CIGRÉ - Bosnia and Herzegovina Committee of the International Council on Large Electric Systems

PROJECTS

2021 – 2022

A universal approach for the calculation of low-frequency electromagnetic fields of power systems objects based on artificial neural networks

University of Sarajevo - Faculty of Electrical Engineering, Ministry of Education, Science and Youth of the Canton Sarajevo.

Energy monitoring and management

Investment project - BH Telecom Joint Stock Company Sarajevo
Engagement on the project until January 31, 2020.

Hybrid power supply system for Mliništa base station

Investment project - BH Telecom Joint Stock Company Sarajevo
Engagement on the project until January 31, 2020.

Construction of a 20 kV overhead line, a 20/0.4 kV substation and a low-voltage connection for the Zvizdaja base station

Investment project - BH Telecom Joint Stock Company Sarajevo
Engagement on the project until January 31, 2020.

2018 – 2019

Replacement of the diesel electric unit for the telecommunications center Dolac Malta

Investment project - BH Telecom Joint Stock Company Sarajevo

2018 – 2019

Aggregate plants for the power supply of radio relay stations

Investment project - BH Telecom Joint Stock Company Sarajevo

HONOURS AND AWARDS

02/12/2017

Golden Badge – University of Sarajevo

The highest award of University of Sarajevo, for GPA over 9,5 (/10,0) - for master studies.

07/11/2015

Golden Badge – University of Sarajevo

The highest award of University of Sarajevo, for GPA over 9,5 (/10,0) - for bachelor studies.

25/06/2022

Award for third place at the Symposium of Postgraduate Research in Electrical Engineering – Bosnian-Herzegovinian American Academy of Arts and Sciences

13th annual Days of BHAAAS in Bosnia and Herzegovina

2017

Medal for third place in the scientific discipline Analysis of power systems (team competition) – International meetings of electrical engineering students - Elektrijada

Budva - Montenegro

2017

Medal for third place in the scientific discipline Renewable energy sources (team competition) – International meetings of electrical engineering students - Elektrijada

Budva - Montenegro

COMMUNICATION AND INTERPERSONAL SKILLS

Communication skills

Developed communication skills through engagement in the implementation of investment projects and teaching.

JOURNAL ARTICLES

Determination of electric and magnetic field calculation uncertainty in the vicinity of overhead transmission lines

A. Alihodzic, A. Mujezinovic, E. Turajlic, and M. Muftic Dedovic, “Determination of electric and magnetic field calculation uncertainty in the vicinity of overhead transmission lines,” Journal of Microwaves, Optoelectronics and Electromagnetic Applications, vol. 21, no. 3, p. 392–413. https://doi.org/10.1590/2179-10742022v21i3262024 (Scopus)

Calculation of Magnetic Flux Density Harmonics in the Vicinity of Overhead Lines

Mujezinović, A.; Turajlić, E.; **Alihodžić, A**.; Dedović, M.M.; Dautbašić, N., "Calculation of Magnetic Flux Density Harmonics in the Vicinity of Overhead Lines", *Electronics* 2022, *11*, 512. https://doi.org/10.3390/electronics11040512 (WoSCC - Q3)

Novel Method for Magnetic Flux Density Estimation in the Vicinity of Multi-Circuit Overhead Transmission Lines

A. Mujezinovic, E. Turajlic, **A. Alihodzic**, N. Dautbasic and M. M. Dedovic, "Novel Method for Magnetic Flux Density Estimation in the Vicinity of Multi-Circuit Overhead Transmission Lines," in IEEE Access, vol. 10, pp. 18169-18181, 2022, doi:10.1109/ACCESS.2022.3149393. (WoSCC - Q2)

Electric and Magnetic Field Estimation Under Overhead Transmission Lines Using Artificial Neural Networks

A. Alihodzic, A. Mujezinovic and E. Turajlic, "Electric and Magnetic Field Estimation Under Overhead Transmission Lines Using Artificial Neural Networks," in *IEEE Access*, vol. 9, pp. 105876-105891, 2021, doi: 10.1109/ACCESS.2021.3099760. (WoSCC - Q2)

CONFERENCE PAPERS

Calculation of the Electric Field Intensity and Magnetic Flux Density Generated by High Voltage Overhead Transmission Lines

A. Alihodzic, A. Mujezinovic, E. Turajlic and N. Dautbasic, "Calculation of the Electric Field Intensity and Magnetic Flux Density Generated by High Voltage Overhead Transmission Lines," 2022 XXVIII International Conference on Information, Communication and Automation Technologies (ICAT), 2022, pp. 1-6, doi: 10.1109/ICAT54566.2022.9811190.

Experimental Determination of Grounding System Impulse Impedance under High Frequency Electromagnetic Interferences

N. Dautbašić, A. Mujezinović, I. Turković, M. M. Dedović and **A. Alihodžić**, "Experimental Determination of Grounding System Impulse Impedance under High Frequency Electromagnetic Interferences," 2022 XXVIII International Conference on Information, Communication and Automation Technologies (ICAT), 2022, pp. 1-5, doi: 10.1109/ICAT54566.2022.9811181.

Machine Learning Model for Electric and Magnetic Fields Estimation in the Proximity of Overhead Transmission Lines

A. Alihodzic, E. Turajlic and A. Mujezinovic, "Machine Learning Model for Electric and Magnetic Fields Estimation in the Proximity of Overhead Transmission Lines," 2021 29th Telecommunications Forum (TELFOR), 2021, pp. 1-4, doi: 10.1109/TELFOR52709.2021.9653359.