



Gábor Hegyi

Date of birth: 30/04/1996

Nationality: Hungarian

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europass

WORK EXPERIENCE

Bay Zoltán Nonprofit Ltd. for Applied Research Miskolc, Hungary

Business or Sector Professional, scientific and technical activities | **Department** Engineering
Department | **Address** Iglói street, 2, 3519, Miskolc, Hungary | **Email** gabor.hegyi@bayzoltan.org
www.bayzoltan.org/

Group Leader, Researcher

02/2022 – Current

- Design of energy control systems
- Research and development in the field of electronic and embedded systems
- Electromagnetic compatibility measurements and simulations

Project participation:

- GINOP-2.2.1-18-2020-00023 project titled "Development of the numerical structures"

University of Miskolc, HEICC Miskolc, Hungary

Department Research Institute of Electronics and Information Technology | **Address** Egyetemváros street, 3515, Miskolc, Hungary

Researcher

06/2019 – 12/2021

- Development of embedded systems using Microchip and STM32 microcontrollers
- Design of printed circuit boards
- Conducting research in the field of measurement technology and electromagnetism
- Preparation and execution of EMC measurements

Project participation:

- GINOP-2.2.1-15-2017-00090 project, titled „Emobility from Miskolc: Improving the Cooling Fan Taking into Account the Higher Quality Requirements in Electromagnetism"
- Ability-developing smart cube system. Client is not public, 2020-2021.
- Hungarian Gas Storage Ltd. Akvamarin project, 2020-3.1.2-ZFR-KVG-2020-00001, 2020-2021.
- Earth Energy Resources Competence Center, 2019-1.3.1-KK-2019-00001, 2019-2021.

EDUCATION AND TRAINING

2021 – CURRENT Miskolc, Hungary

Phd in Electromagnetic Compatibility and Finite Element Simulation
József Hatvany Doctoral School for Computer Science and Engineering

Address Egyetemváros street, 3515, Miskolc, Hungary

2019 – 2021 Miskolc, Hungary

Electrical Engineer (MSc) University of Miskolc, Faculty of Mechanical Engineering

Address Egyetemváros street, 3515, Miskolc, Hungary

2015 – 2019 Debrecen, Hungary

Mechatronics engineer (BSc) University of Debrecen, Faculty of Engineering

Address Ótmető street, 2-4, 4028, Debrecen, Hungary

LANGUAGE SKILLS

MOTHER TONGUE(S): Hungarian

Other language(s):

English

Listening B2

Spoken production B2

Reading B2

Spoken interaction B2

Writing B2

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

PUBLICATIONS

2024

Alternative, cost-effective reduction of spontaneous antenna radiation emissions

Authors Gábor Hegyi, Tamás Bodolai |

Journal Name Enelko - 25th International Conference on Energetics-Electrical Engineering |

Volume, Issue and Pages pp. 18-23. | **Publisher** Hungarian Technical Scientific Society of Transylvania - EMT

2022

EMC Case Study: Using Resistors Instead of Ferrite Ring to Reduce Emission of Battery Powered Equipment

Authors Tamás Bodolai, Gábor Hegyi, Angéla Váradiné Szarka |

Journal Name IMEKO 25th IMEKO TC-4 International Symposium on Measurement of Electrical Quantities |

Volume, Issue and Pages pp. 335-339. | **Publisher** Red Hook (NY), Amerikai Egyesült Államok : Curran Associates

2022

Using a Simulation of ALSE Long Wire Method to Lower Measurement Uncertainty in EMC Measurements

Write here the description...

Authors Gábor Hegyi, Tamás Bodolai |

Journal Name IMEKO 25th IMEKO TC-4 International Symposium on Measurement of Electrical Quantities |

Volume, Issue and Pages pp. 340-345. | **Publisher** Red Hook (NY), Amerikai Egyesült Államok : Curran Associates

2021

POSSIBILITIES OF MEASURING HYDROGEN IN NATURAL GAS

Bölkény I., Hegyi G., Varadiné Szarka A.

MULTIDISZCIPLINÁRIS TUDOMÁNYOK: A MISKOLCI EGYETEM KÖZLEMÉNYE 11 : 5 p. 188 Paper: 2021.5.19 (2021)

2019

Kötőtpályás közlekedési eszközök sebességmérése közelítéskapcsolókkal

Hegyi Gábor, Váradiné Szarka Angéla, Kazup László

In: Dr. Sebestyén-Pál, György; Dr. Szabó, Loránd; Dr. Biró, Károly-Ágoston (szerk.) ENELKO 2019 SzámOkt 2019 : XX. Nemzetközi Energetika-Elektrotechnika Konferencia, XXIX. Nemzetközi Számítástechnika és Oktatás Konferencia

Kolozsvár, Románia : Erdélyi Magyar Műszaki Tudományos Társaság (EMT) (2019) pp. 51-56. , 6 p.

2019

Restoration and PLC control of a robot cell compatible MP-11 industrial manipulator platform

Hegyi Gábor, Erdei Timotei István, Husi Géza

In: Gavril, Grebenisan; Alexandru-Viorel, Pele (szerk.) IMT Oradea 2019 : Proceedings of the Annual Session of Scientific Papers
Oradea, România : University of Oradea Publishing House (2019) pp. 319-323. , 4 p.