



Ádám Hegyi

Date of birth: 1996/04/30 | **Nationality:** Hungarian | **Phone number:** (+36) 706529442 (Work) |

Phone number: (+36) 301801665 (Mobile) | **Email address:** adam.hegyi@bayzoltan.hu | **Email address:** hegyi.ady@gmail.com | **Address:** Iglói street 2. office 102, 3519, Miskolc, Hungary (Work)

WORK EXPERIENCE

BAY ZOLTÁN APPLIED RESEARCH NONPROFIT LTD. – MISKOLC, HUNGARY

RESEARCHER – 2024/08/05 – CURRENT

- Participation in the preparation and organization of national and international projects
- Professional involvement in research, development, and business projects
- Performing laboratory tasks and conducting tests/experiments

SZAKOPLUSZ LTD. – MISKOLC, HUNGARY

ELECTRICAL ENGINEER – 2023/08/28 – 2024/07/27

- Comprehensive technical supervision and control of household-scale power plants (HMKE) and small-scale power generation systems
- Consulting on systems for the generation, transmission, and distribution of electricity in industrial and other types of buildings and facilities
- Preparation of documentation for the maintenance and repair of planned and existing electrical systems and equipment
- Implementation and support of the construction of systems for the generation, transmission, and distribution of electricity

GEO-4 FUTURE ZRT. – MISKOLC, HUNGARY

ELECTRICAL ENGINEER – 2020/11/01 – 2023/08/23

- Comprehensive technical supervision, control, and inspection of household-scale photovoltaic (HMKE) systems
- Consulting on electrical power generation, transmission, and distribution systems in industrial and other types of buildings and facilities
- Design, supervision, control, and inspection of systems for the generation, transmission, and distribution of electricity
- Interpretation of relevant standards and development of procedures to ensure the performance and safety of electrical power generation and distribution systems and equipment
- Implementation and technical supervision of the construction of systems for the generation, transmission, and distribution of electricity

FIK RESEARCH INSTITUTE – MISKOLC, HUNGARY

MARKET RESEARCH INTERVIEWER – 2019 – 2020

- Development of industrial projects and embedded systems
- PLC programming (Wago, Siemens)
- Practical training for students of the University of Miskolc in the fields of control engineering and industrial communication

UNIVERSITY OF MISKOLC – MISKOLC, HUNGARY

DEMONSTRATOR – 2017 – 2019

- Participation in hands-on training for students of the University of Miskolc in the fields of control engineering and industrial communication
- Involvement in project-based work
- Participation in academic publishing, student research competitions (TDK and OTDK), with a focus on smart home automation
- Team leader of the electrical implementation group of the SOMeshine Team at Solar Decathlon Europe 2019

EDUCATION AND TRAINING

2019/02/04 – 2020/01/20 Miskolc, Hungary

MSC IN ELECTRICAL ENGINEERING University of Miskolc

Website <https://www.uni-miskolc.hu/> | **Field of study** Folyamatirányítási és ipari kommunikációs rendszerek | **Level in EQF** EQF level 7

2015/09/02 – 2019/01/08 Miskolc, Hungary

BSC IN ELECTRICAL ENGINEERING University of Miskolc

Website <https://www.uni-miskolc.hu/> | **Field of study** Ipari automatizálás és kommunikáció | **Level in EQF** EQF level 6

Level in EQF EQF level 4 | Valid until 2027/04/11

2021/07/20
ELECTRICAL SAFETY COMPLIANCE INSPECTOR

Level in EQF EQF level 4 | Valid until 2026/07/20

LANGUAGE SKILLS

Mother tongue(s): **HUNGARIAN**

Other language(s):

	UNDERSTANDING		SPEAKING		WRITING
	Listening	Reading	Spoken production	Spoken interaction	
ENGLISH	B2	B2	B2	B2	B2

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

PUBLICATIONS

2024
Energy-efficiency application possibilities of energy storage systems connected to photovoltaic plants

Ádám Hegyi: ENELKO 2024 – 25th International Conference on Energy and Electrical Engineering, Braşov, Romania, 2024, pp. 12–17. (6 pages)

2020
HEATING OPTIMIZATION AND MONITORING SYSTEM

Ádám Hegyi: Multidisciplinary Sciences: Publications of the University of Miskolc, Vol. 10, No. 3, pp. 349–355, 2020. (7 pages)

2019
Consulting Interface Design for Heating Optimization System

Ádám Hegyi: ENELKO 2019 – 20th International Conference on Energy and Electrical Engineering, Cluj-Napoca, Romania, 2019, pp. 173–178. (6 pages)

2019
Air quality data collection for the development of an advice based algorithm

Ádám Hegyi, Judit Mária Pintér, PhD: OGÉT 2019 – 27th International Conference on Mechanical Engineering, Oradea, Romania, 2019, p. 193. (Total: 632 pages)

2018
Heating optimalization and monitoring system

Ádám Hegyi, Judit Mária Pintér, PhD: VILLAMOSMÉRNÖKI TUDOMÁNYOK Vol. 1, No. 2, pp.83–89, 2018. (7 pages)

2018
Developing smart home measurement systems

Ádám Hegyi: ENELKO 2018 – 19th International Conference on Energy and Electrical Engineering, Cluj-Napoca, Romania, 2018, pp. 189–194. (6 pages)