

PERSONAL INFORMATION

Enikő Szilágyi



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Sex F | Date of birth 22/03/1990 | Nationality Hungarian

PROFESSIONAL EXPERIENCE

2021 - ongoing

Lecturer in the Applied Electronics Department

Technical University of Cluj-Napoca, Cluj-Napoca, Romania

2019 – 2021

Assistant in the Applied Electronics Department

Technical University of Cluj-Napoca, Cluj Napoca, Romania

Teaching activities

- Application classes for: Microcontrollers, Computer-assisted Graphics, Computer Programming and Programming Languages

Research activities

2020 – ongoing

Technical Consultant

SC Ditcons Solutions SRL, Ditrău, Romania

2018 – 2020

Research Assistant

Technical University of Cluj-Napoca, Cluj Napoca, Romania

Micro-inverters with high power density and high efficiency for renewable energies - MICROINV

2014 – 2017

Research Assistant

Technical University of Cluj-Napoca, Cluj Napoca, Romania

Renewable energy management system used for small isolated communities - REMSIS

07/2013 – 08/2013

Internship

Paks Nuclear Power Plant, Paks, Hungary

08/2012 – 09/2012

Internship

National Instruments, Cluj-Napoca, Romania

EDUCATION

- 2015 – 2018** **Ph.D. in Electronics, Telecommunications and Informational Technology Engineering**
 Technical University of Cluj-Napoca , Cluj Napoca
 Thesis title: Software Development for the Design and Control of Renewable Energy Microgrids
- 2013 – 2015** **Master's Degree in Electronics engineering**
 Faculty of Electronics, Telecommunications and Information Technology, Technical University of Cluj-Napoca
- 2009 – 2013** **Bachelor's Degree in Applied Electronics**
 Faculty of Electronics, Telecommunications and Information Technology, Technical University of Cluj-Napoca

PERSONAL ABILITIES

Native language	Hungarian				
Other known foreign languages	COMPREHENSION		SPEAKING		WRITING
	Listening	Reading	Conversation	Oral speech	
Romanian	C2	C2	C1	C2	C1
English	B2	B2	B2	B2	B2
	Levels: A1/A2: Elementary user - B1/B2: Independent user - C1/C2: Experienced user European Language Levels				

- Communication abilities**
 - I am dynamic, responsible and ambitious.
 - I enjoy both teamwork and working alone

- Digital abilities**
 - Microsoft Office™ experienced user (ECDL Core Certification)
 - Good knowledge of programming languages: C/C++, C#, Pascal, Delphi, ES6
 - Experienced user of several microcontroller families: 8051, AVR, Texas Instruments, Arduino
 - Familiarity with several IDEs: Microsoft Visual Studio, Keil, CodeVisionAVR, CodeComposer, Visual DSP, Xilinx.
 - Circuit design and simulation using different tools and platforms: Proteus, Matlab, PSIM, Orcad, LogixPro, LTSpice, LabView, etc.
 - Experienced user of Adobe Creative Suit 6
 - Experienced user of HOMER, PV*Sol
 - Web development experience (HTML, CSS, React, ect..)

- Driver's license**
 - B

ADDITIONAL INFORMATION

- Published work** 19 scientific papers: 1 WOS journal papers (Advances in Electrical and Computer Engineering – impact factor 0.699), 15 WOS proceedings papers, 1 B+ journal paper și 2 papers accepted for WOS indexing.
- Most significant work:**
WOS journal papers:
 - **E1. E. Lazar**, D. Petreus, R. Etz, T. Patarau, "Software Solution for a Renewable Energy Microgrid Emulator", Advances in Electrical and Computer Engineering, vol.18, no.1, pp.89-94, 2018,

doi:10.4316/AECE.2018.01011

WOS proceedings papers:

- **E2. E. Lázár**, D. Petreuş, R. Etz, T. Pătărău, “*Minimization of operational cost for an Islanded Microgrid using a real coded Genetic Algorithm and a Mixed Integer linear Programming method*”, 2017 International Conference on Optimization of Electrical and Electronic Equipment (OPTIM) & 2017 Intl Aegean Conference on Electrical Machines and Power Electronics (ACEMP), Brasov, Romania, 25-27 MAY, 2017, pp. 693-698, doi: 10.1109/OPTIM.2017.7975049
- **E3. E. Lázár**, D. Petreuş, R. Etz, T. Pătărău, “*Optimal Scheduling of an Islanded Microgrid Based on Minimum Cost*”, 39th International Spring Seminar on Electronics Technology - ISSE2016, Pilsen, Czech Republic, MAY 18-22, 2016, pp. 290 – 295, doi: 10.1109/ISSE.2016.7563207
- **E4. E.Lazar**,R.Etz,D.Petreus,T.Patarau,I.Ciocan,„*SCADA Development for an Islanded Microgrid*”, IEEE 21st International Symposium for Design and Technology in Electronic Packaging (SIITME) Brasov, Romania, 22-25 October 2015, pp. 147 - 150 (DOI: 10.1109/SIITME.2015.7342314)
- **E5. E. Lázár**, T. Patarau, R. Etz, D. Petreus, “*Sizing Photovoltaic-Geothermal Smart Microgrid with Battery Storage Interface*”, 38th International Spring Seminar on Electronics Technology, Eger, Hungary, 6-10 May 2015, pp. 364 – 369, DOI: 10.1109/ISSE.2015.7248023.
- **E6. E.Lazar**,A.Ignat,D.Petreus,andR.Etz,“*Energy Management for an Islanded Microgrid Based on Harmony Search Algorithm*”, 41th International Spring Seminar on Electronics Technology ISSE, Zlatibor, Serbia, May 16–20, 2018, pp. 1-6.
- **E7. R. Etz, D. Petreus, T. Patarau, E. Lázár**, “*An islanded renewable energy microgrid emulator for geothermal, biogas, photovoltaic and lead acid battery storage*”, 2017 IEEE 26th International Symposium on Industrial Electronics (ISIE), Edinburgh, UK, 19-21 June 2017, pp. 2109 – 2114, DOI: 10.1109/ISIE.2017.8001583