

PERSONAL INFORMATION

Loránd SZABÓ



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Sex Male | Date of birth 12/06/1960 | Nationality Romanian

WORK EXPERIENCE

- 2009- Director of Centre of Applied Researches in Electrical Engineering and Sustainable Development (CAREESD)**
 Technical University of Cluj-Napoca (Romania)
 Research management
 Business or sector Research
- 2010-2011 Head of the Department of Electrical Machines**
 Technical University of Cluj-Napoca (Romania)
 Higher education management
 Business or sector Higher education
- 2006- Professor**
 Technical University of Cluj-Napoca (Romania), Department of Electrical Machines
 Teaching and research
 Business or sector Higher education
- 2003-2006 Associated professor**
 Technical University of Cluj-Napoca (Romania), Department of Electrical Machines
 Teaching and research
 Business or sector Higher education
- 1999-2003 Lecturer**
 Technical University of Cluj-Napoca (Romania), Department of Electrical Machines
 Teaching and research
 Business or sector Higher education
- 1990-1999 Electrical engineer**
 Technical University of Cluj-Napoca (Romania), Practical Training Department
 Teaching and research
 Design in electrical engineering
 Business or sector Higher education
- 1985-1990 Electrical engineer**
 CLA Cement Factory, Aleșd (Romania)
 Maintenance engineer for power electronics devices
 Business or sector Industry

EDUCATION AND TRAINING

1991-1995

Ph.D. in Electrical Engineering

Doctoral studies
(level 8)

Technical University of Cluj-Napoca (Romania)

- Electrical engineering (electrical machines and drives)

1980-1985

B.Sc. in Electrical Engineering

Higher education
(level 7)

Polytechnic Institute of Cluj-Napoca (Romania)

- Electrical drives

2012-2013

Modern educational instruments and the use of IT&C in education

Training (level 4)

Technical University of Cluj-Napoca (Romania)

- Lifelong learning and training for higher education teachers in the technical sciences and engineering fields (DidaTec Project)

2010

Project manager

Training (level 4)

S.C. RoMarketing S.R.L. (Romania)

PERSONAL SKILLS

Mother tongue(s)

Hungarian

Other language(s)

	UNDERSTANDING		SPEAKING		WRITING
	Listening	Reading	Spoken interaction	Spoken production	
Romanian	C2-Proficient user	C2-Proficient user	C2-Proficient user	C2-Proficient user	C2-Proficient user
English	C1-Advanced	C1-Advanced	C1-Advanced	C1-Advanced	C1-Advanced

Communication skills

- Listening, confidence and empathy
- Clarity and concision
- Open-mindedness

Organisational / managerial skills

- Focus oriented – building a focus on a certain goal to achieve.
- Prioritization – prioritizing activities in a way that synergize the effect in a fruitful manner.
- Timelines driven – marking time-lines to achieve/ complete certain tasks.

Job-related skills

- Organized person
- Good abilities for synthetic and global views over concrete situations
- End-oriented work capacity
- Problem-solving attitude
- Responsibility, self-respect and self-reliance

Computer skills

- General purpose: MS Office (Word, Excel and PowerPoint)
- Internet browser: Internet Explore, Mozilla Firefox, Chrome, Opera
- Programming environments: Matlab, LabVIEW
- Electromagnetic CAD: MagNet, Flux 2D, AnSYS
- Simulation environments: SIMULINK, CASPOC, Simplorer
- Programming languages: Turbo PASCAL, BASIC
- CAD: AutoCAD, OrCAD, Protel
- Graphics, image processing: Visio, Inkscape, CorelDraw, Corel Photo Paint, IrfanView, SmartDraw
- WEB design: Dreamweaver

Other skills

- Painting

Driving licence

- B Category

ADDITIONAL INFORMATION

Positions held

- Academic:
 - Head of the Department of Electrical Machines, Marketing and Management (Technical University of Cluj-Napoca): 2010-2011
 - Member of the Technical University of Cluj-Napoca Senate: 2010-2012, 2015-2016
 - Member of the Electrical Engineering Faculty Council (Technical University of Cluj-Napoca): 2008-2012, 2014-
- Research:
 - Director of the Centre of Applied Researches in Electrical Engineering and Sustainable Development (CAREESD): 2009-
- At national education and research councils:
 - Member of the Engineering Committee of the National Research Council (CNCS): 2017
 - Member of the Electrical Engineering Committee of the National Council for Attesting Titles, Diplomas and University Certificates (CNATDCU): 2016-

Publications

- 292 publications:
 - 5 books and 4 book chapters;
 - 14 papers in Web of Science indexed journals;
 - 55 papers in other refereed journals;
 - 121 papers in proceedings of international conferences;
 - 57 papers in proceedings of national and not refereed conferences;
 - 26 papers in university annals;
 - 9 other publications.

Patents

- 1 patent

Projects

- Project manager for 10 research grants (among them 4 in international cooperation);
- Partner team leader of 1 international project;
- Project manager for 1 research project for industry;
- Member in 5 research teams working on international projects;
- Member in research teams of 30 national research projects;
- Member in 17 research teams working on research projects for industry.

Awards

- IET Electric Power Applications Premium Award (Best Paper) 2015
- 10 awards in technical exhibitions:
 - Silver medal at the 25th International Exhibition of Inventions INVENTICA '2021, Iași (Romania), 2021;
 - Silver medal at the 14th European Exhibition of Creativity and Innovation (EUROINVENT), Iași (Romania), 2021;
 - Diploma of excellence and Gold medal at the PRO INVENT International Invention Show, Cluj (Romania), 2013;
 - Diploma of excellence from Technical University of Chișinău (Republic of Moldova) obtained at the International Specialized Exhibition INFOINVENT '2013, Chișinău (Republic of Moldova), 2013;
 - Diploma of excellence and Bronze medal at the PRO INVENT International Invention Show, Cluj (Romania), 2012;
 - Silver medal from the European Exhibition of Creativity and Innovation EUROINVENT '2011, Iași (Romania), 2011;
 - Diploma of honour from the XVth International Exhibition of Research, Innovation and Technological Transfer INVENTICA '2001, Iași (Romania), 2011;
 - Bronze medal at the INVENTIKA International Fair of Inventions, Bucharest (Romania), 2010;
 - Silver medal at the International Warsaw Inventions Show IWIS '2010, Warsaw (Poland), 2010;
 - Gold medal at the PRO INVENT International Invention Show, Cluj (Romania), 2010.

Visiting Professor

- Pannon University Veszprém (Hungary): 2007 and 2008;
- University of Pavia (Italy): 2015, 2018 and 2022.

Journal editor

- Field editor of Electrical Engineering, former Archiv für Elektrotechnik (Springer, ISSN: 0948-7921 print and 1432-0487 electronic), since 2018
- Topic editor (MDPI, ISSN: 1996-1073) since 2022
- Special issue editor for Energies (MDPI, ISSN: 1996-1073) since 2019:
 - Condition Monitoring and Diagnosis of Electrical Machines
 - Modular (Segmented) Electrical Machines
 - Permanent Magnet Synchronous Machines

Journal editorial board member

- International Journal of Engineering & Technology - IJET (Science Publishing Corporation, ISSN: 2227-524X)
- Advances in Electrical and Electronic Engineering - AEEEE (VŠB-Technical University of Ostrava, Czech Republic, ISSN: 1336-1376)
- International Review of Applied Sciences and Engineering (Akadémiai Kiadó, Budapest, Hungary, ISSN: 2062-0810)
- Journal of Computer Science and Control Systems - JCSCS (Oradea University, Romania, ISSN: 1844-6043)
- Journal of Electrical and Electronics Engineering - JEEE (Oradea University, Romania, ISSN: 1844-6035)
- Electrical and Power Engineering Frontier - EPEF (World Academic Publishing, ISSN: 2306-9368)
- Journal of Energy Optimization and Engineering - IJEOE (IGI Global, ISSN: 2160-9500), 2012-2016
- International Journal of Practical Electronics - IJPE (Science Publishing Corporation), 2013-2014

Performed assessments and evaluations

- European Commission - Horizon 2020 - The EU Framework Programme, "Societal Challenges" section, "Secure, Clean and Efficient Energy" work programme, "Competitive Low Carbon Energy" Call (H2020-LCE-2015), Ocean Energy Panel: 2014, 2015
- European Commission - Education, Audiovisual and Culture Executive Agency (EACEA) – Youth in Action Programme: 2010, 2011, 2013
- European Commission – Erasmus+ Programme, Adult learning, Mobility (KA104) and Strategic partnership projects (KA204): 2020, 2021, 2022
- European Institute of Innovation and Technology (body of the European Union) – EIT RawMaterials, Regional Innovation Scheme (RIS), Internationalization and Upscaling Panel: 2018, 2019, 2020, 2021, 2022
- National Fund for Scientific Research (NFSR), Belgium: 2012, 2013, 2014, 2015, 2016
- Research Foundation Flanders (FWO), Belgium – Bilateral Scientific Cooperation Russia programme: 2019
- ERA-NET Smart Cities & Communities, Joint Programming Initiative (JPI) Urban Europe: 2015
- ERANETMED - Euro-Mediterranean Cooperation Through ERANET Joint Activities and Beyond. Renewable energies, water resources and their connections for the Mediterranean Region: 2015
- Ministry of Education, Youth and Sports, Operational Programme Research and Development for Innovation Management Section, Check Republic: 2015, 2016, 2017, 2018
- Norwegian Centre for International Cooperation in Education (SIU): 2016, 2017, 2018, 2019
- Ministry of Science of Montenegro: 2019
- AdditiveManufacturABLE (AMABLE) – projects supporting SMEs in the uptake of additive manufacturing: 2018
- agROBOfood – Innovation Experiments projects: 2020
- German-Egyptian Research Fund (GERF), German Federal Ministry of Education and Research (BMBF) and Egyptian Ministry of Scientific Research (MoSR): 2015
- Shota Rustaveli National Science Foundation (SRNSF) former Georgian National Science Foundation (GNSF), Georgia: 2006, 2007, 2011, 2012, 2013, 2014, 2015
- Romanian Agency for Quality Assurance in Higher Education (ARACIS): 2007, 2009, 2013, 2018
- Technical University of Cluj, Romania - Master Studies Accreditation Program: 2009, 2011
- Technical University of Cluj, Romania - Research Activity Evaluation Program: 2008, 2009, 2010, 2014, 2017, 2018
- International Association for the promotion of co-operation with scientists from the New Independent States of the former Soviet Union (INTAS), European Community: 2005, 2006
- Romanian National University Research Council (CNCSIS): 2004, 2005, 2006, 2008
- Romanian National Authority for Scientific Research (ANCS): 2005, 2006
- Research Programme Institute of "Sapientia" Foundation, Cluj (Romania): 2004

Evaluation board member or expert

- Interreg CENTRAL EUROPE Programme, 2016-
- FFG - Austrian Research Promotion Agency, 2015-
- COST - European Cooperation in Science and Technology, 2014-
- MARTEC ERA-NET - Maritime Technologies, 2014-
- European Institute of Innovation and Technology (EIT) 2013-
- European Commission Experts Database, 2012-
- ERAfrica project (European Union), 2013-
- Evaluators database for International Cooperation (EVAL-INCO), 2009-
- SEE-ERA.NET PLUS - Integrating and Straightening European Research Area in South East Europe Coordination and Support Action (European Community), 2009-
- Community Research and Development Information Service - CORDIS (European Commission), 2006-2012

Memberships

- Institute of Electrical and Electronics Engineers (IEEE)
- Transylvanian Hungarian Technical Scientific Society (EMT).

ANNEXES

- A1 - Main publications;
- A2 - Main research projects.