

PERSONAL INFORMATION

Szilárd Bulárka

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🌐 <https://sites.google.com/view/szilardbularka/>

Sex Male | Date of birth 20/07/1990 | Nationality Română

WORK EXPERIENCE

05/2013–Present

Director

S.C SYMPH ELECTRONICS SRL

- general management
- research and development in electronics
- stage equipment maintenance

2012–2013

Radio technician

S.C MUSIC SERVICE SRL, Timisoara (Romania)

- captarea, prelucrarea și emisia semnalului audio
- depanarea sistemelor audio
- coordonarea echipelor tehnice

2010–2011

Stage technician

Teatru National "Mihai Eminescu", Timisoara (Romania)

- montarea/demontarea echipamentelor de iluminat
- programarea sistemelor de comandă prin dmx
- depanarea circuitelor de comandă

EDUCATION AND TRAINING

2015–Present

PhD in Applied Electronics

Politehnica University of Timisoara

2013–2015

Master degree in Intelligent Electronic Systemse

Politehnica University of Timisoara

2013–2014

Bachelor degree in Informatics -- interrupted

West University of Timisoara

2009–2013

Engineer in Applied Electronics

Politehnica University of Timisoara

19/06/2019

Certificat "Proposal Writing for European Structural & Investment Funding"

European Academy

01/02/2016–10/02/2016 **Trainer**
Camera de Comert Industrie si Agricultura Timis

06/04/2015 **Inclusive Leadership**
EDX Catalyst
-genera team and problem solving skills
-inclusive leadership

2012–2013 **ProKaTim Digital Signal Processing**
-Semester project organized by Politehnica University of Timisoara and Hochschule Karlsruhe
- Project: Single sideband inversion (Mickey Mouse effect, SSB Inversion)

27/10/2012 **Certified Labview Associate Developer**
National Instruments

PERSONAL SKILLS

Mother tongue(s) Hungarian

Foreign language(s)

	UNDERSTANDING		SPEAKING		WRITING
	Listening	Reading	Spoken interaction	Spoken production	
English	B2	C1	B2	B2	B2
Romanian	C2	C2	C2	C2	C2

Levels: A1 and A2: Basic user - B1 and B2: Independent user - C1 and C2: Proficient user
Common European Framework of Reference for Languages

Communication skills Good communication skills gained as general manager of Symph Electronics.
Multicultural experience thanks to the participation at various events and projects

Organisational / managerial skills - leadership as an entrepreneur (owner and manager of Symph Electronics)
- experience in project management

Digital skills

SELF-ASSESSMENT				
Information processing	Communication	Content creation	Safety	Problem-solving
Proficient user	Proficient user	Proficient user	Proficient user	Proficient user

Digital skills - Self-assessment grid

- **Microsoft Office** – Word, Excel, Power Point
- **CAD software:** Eagle, Mentor Graphics PADS, Solidworks
- **Simulation:** Orcad Pspice, WinISD
- **Programming:** C, C++, Matlab, VHDL, Labview

ADDITIONAL INFORMATION

- Projects** **PN-III-P2-2.1-PED-2016-0074, TESS Thermo-Electric Hybrid Solar System 2017-2018**
The project relates to a solar thermal - electric hybrid, which produces hot water and electricity using thermoelectric modules. The system is composed of thermoelectric modules, and solar concentrator photovoltaic cells that convert heat to increase efficiency and reduce losses by convection, using a vacuum chamber that allows the positioning unit conversion at any position and allows adjusting the amount wastewater heat transferred by replacing hexagonal mirror solar concentrator photovoltaic.
- Publications** **Bularka Sz., Gontean A. EEG pattern recognition techniques review**, 21st International Symposium for Design and Technology in Electronic Packaging (SIITME), Brasov, 2015, 22-25 Oct, pp. 273-276
- Publicații** **Gontean A., Lica S., Bularka Sz., Szabo R., Lascu D. A Novel High Accuracy PV Cell Model Including Self Heating and Parameter Variation**. *Energies* 2018, 11, 36, DOI: 10.3390/en11010036
- Publications** **Bularka Sz., Gontean A. Hybrid-loop Controlled Solar Tracker for Hybrid Solar Energy Harvester**, TELFOR 2017 – Jubilee 25th Telecommunications Forum, Belgrade, Serbia, November 21-22, 2017.
- Publications** **Bularka Sz., Gontean A. Dynamic PV Array Reconfiguration under Suboptimal Conditions in Hybrid Solar Energy Harvesting Systems**. *SIITME 2017 – 23rd International Symposium for Design and Technology in Electronic Packaging, Constanta, Romania, October 26-29, 2017.*
- Publications** **Bularka Sz., Gontean A. Brain-Computer Interface review**, ISETC 2016 12th IEEE International Symposium on Electronics and Telecommunications, Timisoara, Romania, 27-28 October, 2016, DOI: 10.1109/ISETC.2016.7781096
- Publications** "Totul despre DMX" - revista online Arthalia
"Eficientizarea metodelor de comandă ale proiectoarelor grafice cu laser"