

Europass Curriculum Vitae



Personal information

First name(s) / Surname(s) **BORZA PAUL NICOLAE**
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E-mail paulnicolaeborza@unibuc.ro paulnicolaeborza@gmail.com
Nationality Romanian
Date of birth 10/1991
Gender Male

Desired employment / Occupational field

Electrical Engineering

Work experience

<p>Dates</p> <p>Occupation or position held</p> <p>Main activities and responsibilities</p> <p>Name and address of employer</p> <p>Type of business or sector</p>	<p>10/2001 → present</p> <p>Full professor</p> <p>Researcher and teacher</p> <p>Transilvania University of Brasov 29 Eroilor, 500036 Brasov (Romania)</p> <p>Higher Education</p>
<p>Dates</p> <p>Type of business or sector</p> <p>Occupation or position held</p> <p>Main activities and responsibilities</p> <p>Name and address of employer</p>	<p>09/2002-05/2009</p> <p>Research</p> <p>Second job: Energy & Information team leader; Member in Siemens AG corporate technology</p> <p>Researcher and Manager</p> <p>Siemens Program and System Engineering Brasov (Second Job)</p>
<p>Dates</p> <p>Occupation or position held</p> <p>Name and address of employer</p> <p>Main activities and responsibilities</p> <p>Type of business or sector</p>	<p>10/1996-10/2001</p> <p>Associate Professor</p> <p>Transilvania University of Brasov 29 Eroilor, 500036 Brasov (Romania)</p> <p>Researcher and teacher</p> <p>Higher Education</p>
<p>Dates</p> <p>Occupation or position held</p>	<p>10/1991-10/1996</p> <p>Lecturer</p>

Main activities and responsibilities Researcher and teacher

Name and address of employer Transilvania University of Brasov
29 Eroilor, 500036 Brasov (Romania)

Type of business or sector Higher Education

Dates **9/1982-10/1991**

Occupation or position held Assistant professor

Main activities and responsibilities Researcher and teacher

Name and address of employer Transilvania University of Brasov
29 Eroilor, 500036 Brasov (Romania)

Type of business or sector Higher Education

Education and training

Dates **1990-1994**

Title of qualification awarded Ph.D Diploma in the domain Bioengineering

Principal subjects/occupational skills covered Contributions to the development of measurement devices for the influence of information on living organisms

Name and type of organization providing education and training "Politehnica" University of Bucharest

Level in national or international classification Post University training

Dates **1975-1980**

Title of qualification awarded Diplomat in Electrical Engineering

Principal subjects/occupational skills covered Electrical Engineering, Computer Sciences

Name and type of organization providing education and training Transilvania University of Brasov
29 Eroilor, 500036 Brasov (Romania)

Level in national or international classification Diplomat Engineer

Personal skills and competences

Mother tongue(s) **Romanian**

Other language(s) **French, English, German**

Self-assessment
European level ()*

French

English

German

Understanding				Speaking				Writing	
Listening		Reading		Spoken interaction		Spoken production			
C1	Experimented user	C2	Experimented user	C1	Experimented user	C1	Experimented user	C1	Experimented user
C1	Experimented user	B2	Independent user	C1	Experimented user	B2	Independent user	B2	Independent user
B2	Independent user	B2	Independent user	B2	Experimented user	B2	Independent user	B2	Independent user

(*) [Common European Framework of Reference for Languages](#)

Social skills and competences

Teamwork
Mediation abilities
Intercultural experience
Sociable
Flexibility

Organisational skills and competences	Good organizer and coordinator
Technical skills and competences	Electrical engineering, Energy Storage Devices, Circuit design, Microcontroller programmer, Artificial intelligence, Medical devices
Computer skills and competences	Microsoft Office (Word, Excel, PowerPoint), Matlab, MathCAD, Basic, C# C++, OrCad, and other
Artistic skills and competences	Play at violin
Other skills and competences	Siemens Engineering Methods (SEM) and VPL Siemens courses e-learning „LOLA - Open and Distance Learning” organized by Edinburg University
Driving license	B

Annexes:

Patents (Remove heading if not relevant, see instructions)

1. 93122/1987 "Method and device to study the influence of information on living organisms ", A. Restian, Borza P.N., Nicolau N., Daghe V, owner INSP Bucuresti
2. EP 1796199A1/07.12.2005, „Electric Power Cell” , P.N. Borza, owner Siemens AG Oestereich
3. CBI A/00119/04.02.09 P.N. Borza. M.C. Carp, T.S. Stefan „Energy management system and its operation management methods on vehicles equipped with internal combustion engines”, published in BOPI 11/2010, owner Transilvania University of Brasov

Relevant publications (only period 2005-2014 most relevant to project main)

1. P.N. Borza, From Digital Computers to Quantum Computers Based On Biological Paradigms And Progress In Particle Physics, International Journal of Advanced Computer Technology (IJACT), 02.2016
2. F. Hamza Lup, Borza PN, Dragut D, Maghiar M, X3D sensor-based thermal maps for residential and commercial buildings, ACM DL Proceedings of the 20th International Conference on 3D Web Technology Pages 49-54, ISBN: 978-1-4503-3647-5
3. Borza P N, Gomes VD, Design Flow For The Intermittent Systems Connected To The Grid Enhanced With The Hybrid Storage Solutions, ESSCAP'2015 Brasov, Romania
4. Borza PN, et all, Embedding patient remote monitoring and assistive facilities on home multimedia systems, Optim 2014
5. Cotfas D. T., P. A. Cotfas, P. N. Borza, D. Ursutiu, C. Samoila: „Wireless system for monitoring the solar radiation”, Accepted for publication in: Environmental Engineering and Management Journal, volume 10/2011, No.8
6. Sanduleac M. V., M. Eremia, L. Toma, P.N. Borza, “Integrating the Electrical Vehicles in the Smart Grid through Unbundled Smart Metering and multi-objective Virtual Power Plants ”, IEEE-PES Innovative Smart Grid Technologies ISGT Europe 2011 (In press)
7. A.M. Puscas, M.C. Carp, P. N. Borza, Ghe. Toacse, Improving the Energy Management for LDH-1250HP Locomotive Using Embedded Systems, Buletinul Universitatii Transilvania, 2008, Brasov, Romania, ISSN: 2065-2119, pg. 311-316
8. A.M. Puscas, Coquery G., P.N. Borza, M.C. Carp, I Szekely, State of the Art in Mobile Systems' Energy Management and Embedded Solutions for Improving the Energy Efficiency, Buletinul Universitatii Transilvania, Brasov, 2008, Romania, ISSN: 2065-2119, pg. 383-390
9. P.N. Borza, Carp, M.C., Pușcaș, A.M., Sojref, D., Talaba, D.: Supercapacitors and their applications on vehicles. În: International Journal Engineering in Transportation, Belfort, IJEET, Vol. 4, No. 2, Noiembrie 2008, pp. 27-34.
10. P.N. Borza, M.V. Sanduleac, A.M. Puscas, 2015 Heraklion Greece M.Carp, “Energy&Information”, InTech 2010, ISBN 978-953-307-210-4
11. Energy efficiency Management for Vehicles and Machines EMVeM 315967/2012 ITN FP7 Marie Curie
12. P Borza and al. PV cells test bench system with remote access trough Internet, Optim 2012 IEEE Conference Proceedings 2012
13. P Borza, Characterization of the Organic and Inorganic Supercapacitors, Optim 2014 IEEE Conference Proceedings 2014
14. P Borza V Gomes, Hybrid storage systems and dynamic adapting topologies for vehicle applications Optim 2014 IEEE Conference Proceedings 2014
15. Borza, PN, Cotfas, DT, Cotfas,PA, Pologea, A, “Improvements on photovoltaic cells test bench system”, Journal of Engineering Science and Technology Review, 5 (4), 2012, pp. 38-41.
16. P Borza et al., Embedding patient remote monitoring and assistive facilities on home multimedia systems Optim 2014 IEEE, Proceedings of OPTIM 2014 issn: isbn: 9781479951840
17. P Borza V Gomes, A Biological Approach for Energy Management in Smart Grids and Hybrid Energy Storage Systems, Proceedings of OPTIM 2014 issn: isbn: 9781479951840

Conference Attendance (Remove heading if not relevant, see instructions)

1. Carp, M.C., Pușcaș, A.M., C.Z. Kertesz, M. Romanca, P.N. Borza: Monitoring system and intelligent control system used in the starting process of a LDH1250HP locomotive. În: Book of Abstracts of the 12th International Conference on Optimization of Electrical and Electronic Equipment, OPTIM 2010 12th, pp. 551-556.
2. P.N. Borza, Pușcaș, A.M., Carp, M.C.: Energy optimized electrical systems for land transport using batteries and supercapacitors: TRANS-SUPERCAP. În: European Research Consortium for Informatics and Mathematics, Special Theme: „Towards Green ICT” - ERCIM News, Nr. 79, Octombrie 2009, pp. 46-47.
3. Puscas A.M., Carp M.C., Borza P.N. and Coquery G., "Thermal and Voltage Testing and Characterization of Supercapacitors and Batteries", OPTIMIZATION OF ELECTRICAL AND ELECTRONIC EQUIPMENT – OPTIM 2010, Brasov, 2010, Romania.
4. Carp, M.C., Pușcaș, A.M., Borza, P.: Smart development platform for embedded systems. În: International Symposium for Design and Technology of Electronic Packages, SIITME 2008, Septembrie 18-21, Predeal, România, pp. 217-221
5. Carp, M.C., Pușcaș, A.M., Borza, P.N.: Energy management system and controlling methods for a LDH1250HP diesel locomotive based on supercapacitors. În: DOCEIS 2011, Second IFIP WG 5.5/SOCOLNET Doctoral Conference on Computing, Electrical and Industrial Systems DOCEIS2011, Costa de Caparica, Portugalia, Februarie 2011, pp. 429-436.

Relevant projects (Remove heading if not relevant, see instructions)

1. “ELICAM-GAMMA”, 16ELI/2016 project “Alignment system for an interaction chamber into the gamma beam”, sub-system of the Extreme Light Infrastructure (ELI) –Nuclear Physics project, director of project
2. “EMVeM Energy efficiency Management for Vehicles and Machines” FP7-315967/2012 Marie Curie ITN, local coordinator
3. „Smart, Combined, Energy Cells used at Vehicles Propulsion „SMARTPOWERCELL”, nr.5907/2006 – Director of project
4. COST Action 542 “High Performance Energy Storages for Mobile and Stationary Applications”, vice-chair 2005-2011
5. COST Action MP1004 “Hybrid Energy Storage Devices and Systems for Mobile and Stationary Applications”, vice-chair 2011-2015
6. Optimized electric energy systems for land carriage used batteries and super capacitors, PNII, D21-018/2007-2010, Director of project
7. BIOMEDTEL Vital Sign signal acquisition and tele-transmission, PNII, D21-057/2007-2010, Director of project
8. Program Tempus: „Preparing in the field of Quality Assurance for Industrial Production”, Contract nr. S_JEP-11177-96, Researcher
9. Program „Acquisition, Processing and Tele-transmission Systems for biomedical signals” (3993-1999) CNCSIS, Researcher

I hereby certify that the above statements are true.

Date

07.07.2017

Signature