

PERSONAL INFORMATION Paul Nicolae BORZA

 Transilvania University of Brasov

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 Replace with type of IM service

Sex Male | Date of birth 15/03/1955 | Nationality Romanian

POSITION WITHIN THE PROJECT Project Director

WORK EXPERIENCE

2001-present

Full professor

Transilvania University of Brasov

- Teaching Architecture of computers, Medical Instrumentation and Apparatus, Energy Management and Energy Storage Systems

2002-2009

Higher Education**Second Job Manager & Researcher**

Siemens Program and System Engineering

2002-2004
2004-2009
2005-2009

- Head of Energy and Information Group in PSE Brasov Romania 2002-2005
- CTO Siemens PSE Romania
- Member of Siemens AG Munich CT Group

1998-2002

Research and Industry**Associate professor**

Transilvania University of Brasov

- Teaching Architecture of computers, Medical Instrumentation and Apparatus,

1991-1998

Higher Education**Lecturer**

Transilvania University of Brasov

- Teaching Embedded Systems, Medical Instrumentation and Apparatus,

1982-1991

Assistant professor

Transilvania University of Brasov

Teaching Architecture of computers, Medical Instrumentation and Apparatus,

1980-1982

Higher Education**Electrical Engineer**

Truck Factory Brasov (UAB)

Maintenance Engineer

Industry

EDUCATION AND TRAINING

1990-1994	PhD in Bioengineering	“Politehnica” University Bucharest
1975-1980	Electrical Engineer	University “Transilvania” of Brasov

PERSONAL SKILLS

Mother tongue(s)	Romanian				
	UNDERSTANDING		SPEAKING		WRITING
Other language(s)	Listening	Reading	Spoken interaction	Spoken production	
French	C2	C2	C2	C2	C1
English	C1	B2	C1	B2	B2
German	B2	B2	C1	B2	B2

Communication skills ▪ good communication skills gained through my experience as manager

Organizational / managerial skills

- Intercultural experience as result of work and cooperation in a multi-national frame
- Leadership (currently responsible for a team of 35-50 peoples)
- Flexibility
- Sociable
- Meditation ability
- Team work experience

- Job-related skills**
- Electrical engineering, Energy Storage Devices, Circuit design, Microcontroller programmer, Artificial intelligence, Medical devices

Digital competence

SELF-ASSESSMENT

Information processing	Communication	Content creation	Safety	Problem solving
Proficient	Proficient	Proficient	Proficient	Proficient

Levels: Basic user - Independent user - Proficient user [Digital competences - Self-assessment grid](#)

Replace with name of ICT-certificate(s)

- good command of office suite (word processor, spread sheet, presentation software)
- good command and office Latex environments

Other skills

- Open and Distance Learning course (LOLA) Edinburg University
- Siemens Engineering Methods (SEM) Siemens design technology course
- VPL Siemens Management technology course
- playing violin
- ski practicing

Driving license

B

ADDITIONAL INFORMATION

Patents

- Patents (Remove heading if not relevant, see instructions) 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
- EP 1796199A1/07.12.2005, „Electric Power Cell” , P.N. Borza, owner Siemens AG Oestereich
- 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

Honors and awards

VIP Verbesserung Innovation und Patenten Siemens AG 2006

Memberships

IEEE Member 80486028, Computer Science Society

ANNEXES

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 al, 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
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 GreeceM.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 through 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