



Europass Curriculum Vitae

Personal information

First name(s) / Surname(s) **Vasile Surducan**
Address(es) Donat 65-103, Cluj-Napoca, Romania
Telephone(s) 0040-264-584037 Mobile:
E-mail
Nationality Romanian
Gender Male

Work experience

1986-2019
Dates 2006-2019 research & technological development engineer gr. I
Occupation or position held 1996-2006 senior researcher gr. III
1994-1996 technological development engineer
1991-1994 research assistant
1986-1991 principal technician
Main activities and responsibilities Applied research in RF techniques and interactions with low & high power microwave field. Applied electronics. Research, design, testing and manufacturing of electronic prototypes: analog, digital, mixed, embedded systems, automations. Techniques for harvesting the environmental electromagnetic energy. Improving the usage efficiency of accumulators. Working in team or leader of various research projects.
Name and address of employer National Institute of Research and Development for Isotopic and Molecular Technologies, 67-103 Donath street, Cluj-Napoca, Romania
Type of business or sector Advanced Research and Technologies Center for Alternative Energies (CETATEA), Molecular and Biomolecular Physics Laboratory.
Dates **1994-2008**
Occupation or position held Researcher/Independent consultant
Main activities and responsibilities Research, design and manufacture of advanced communication devices: DVBT receiver, GPS receiver, WIMAX transceiver. Computer repairs and maintenance. Design and manufacture of medical equipments. Design and manufacture of measuring devices, authorised repairmen's and improvements of physical-chemical metrological measurement devices. Production implementation of designed devices.
Name and address of employer Sandbridge Technologies Inc., (acquired by Optimum Semiconductors Inc.) 120 White Plains Road, 4th Floor, Tarrytown, NY 10591 US (2008), Createc srl, Cluj-Napoca (2002-2004), Datronix Computer srl, Cluj-Napoca (1996-2000), Theil metal srl, Cluj-Napoca (2002), Metecus srl, Cluj-Napoca (1998-2001), Energobit srl, Cluj-Napoca (1994).
Type of business or sector Research, electronics, metrology, consumer fabrication, IT, electrical energy,

Education and training

Dates **2009-2011**
Title of qualification awarded PhD in electrical engineering
Principal subjects/occupational skills covered Thesis title: Research in microwave generation techniques with applications in medical and laboratory apparatus
Name and type of organisation providing education and training Technial University, Cluj-Napoca, Romania
Level in national or international classification ISCED6
Dates **1983-1989**

Title of qualification awarded	Diplomat engineer																																								
Principal subjects/occupational skills covered	Electronics and telecommunications																																								
Name and type of organisation providing education and training	Politechnical Institute Cluj-Napoca (actual name Technical University of Cluj-Napoca) Electrotechnical Faculty, specialization Electronics and Telecommunications.																																								
Level in national or international classification	ISCED5A																																								
Other language(s)																																									
Self-assessment <i>European level (*)</i>																																									
English																																									
Russian																																									
	<table border="1"> <thead> <tr> <th colspan="4">Understanding</th> <th colspan="4">Speaking</th> <th colspan="2">Writing</th> </tr> <tr> <th colspan="2">Listening</th> <th colspan="2">Reading</th> <th colspan="2">Spoken interaction</th> <th colspan="2">Spoken production</th> <th colspan="2"></th> </tr> </thead> <tbody> <tr> <td>B2</td> <td>Independent user</td> <td>B2</td> <td>Independent user</td> <td>B2</td> <td>Independent user</td> <td>B1</td> <td>Independent user</td> <td>B2</td> <td>Independent user</td> </tr> <tr> <td>A1</td> <td>Basic user</td> <td>A2</td> <td>Basic user</td> <td>A1</td> <td>Basic user</td> <td>A1</td> <td>Basic user</td> <td>A1</td> <td>Basic user</td> </tr> </tbody> </table>	Understanding				Speaking				Writing		Listening		Reading		Spoken interaction		Spoken production				B2	Independent user	B2	Independent user	B2	Independent user	B1	Independent user	B2	Independent user	A1	Basic user	A2	Basic user	A1	Basic user	A1	Basic user	A1	Basic user
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	<i>(*) Common European Framework of Reference for Languages</i>																																								
Social skills and competences	I can manage most of the problems on leading a team. Good worker in a well handled team.																																								
Organisational skills and competences	Coordination of design and research teams involved in national projects. Very good knowledge of technological processes used for electronic device manufacturing. Experience in interdisciplinary research. Good understanding of the correct methods used for electronics/mechanics prototypes implementation. Experience in teaching and laboratory activities.																																								
Technical skills and competences	1986-2019 Working as a member or team leader in more than 25 national and international research contracts at the National Institute of Research and Development for Isotopic and Molecular Technologies Cluj-Napoca 2008 Sandblaster Platform Training Course, Sandbridge Technologies Inc., White Plains, NY, USA 2002-2004 IT consultat at Createc S.R.L. Cluj-Napoca, Romania 2001 temperature measurements and automation designs for Theil Metal S.R.L. Cluj, Romania 2000 flame supervising device designer at Transtehnic S.R.L. Cluj-Napoca, Romania 1998-2001 autorised metrology consultant for Metecus S.R.L. Cluj-Napoca, Romania 1996-2000 medical equipment designer for Datronix Computer S.R.L., Cluj-Napoca 1994 Associated assistant at the Politechnical Institute Cluj-Napoca, Electrotechnical Faculty, Electronics and Telecommunications department. 1994 designer for 110KV aerial defectoscopy design at Energobit S.R.L. Cluj, Romania 1990-1993 pHmeter designer for Small Metrology S.R.L., Cluj-Napoca, Romania 1983-1985 High voltage maintenance. Autorised electrician for 6KV /30KV (CUG Cluj-Napoca)																																								
Computer skills and competences	Very good operating skills on Windows. Highly operating levels of Office, Origin, Visio, and CAD software: Pads, Orcad, Eagle, etc. Programming embedded systems which were designed and manufactured for testing purposes (Pascal, C, assembler).																																								
Artistic skills and competences	Technical hobby (vintage electronics, train model).																																								
Other skills and competences	Electrician, plumbing, welding, mechanical design, fine mechanics, appliance repairs, etc.																																								
Additional information																																									
Scientific activity																																									
Rewards	28 national patents as first or co-author, 1 Romanian book as first author, 2 international book chapter as co-author. Received more than 30 national and international honours at patent affairs at Eureka-Brussels (2001, 2003), Geneva (2001, 2002, 2007), Proinvent Cluj-Napoca (2009-2019), Inventika-Bucharesti (2007-2013). About 70 national and international scientific papers as first or co-author. Designed and manufactured ore than 100 electronic prototypes and small series devices, most of them used for/in scientific research. Member of the Editorial board at: International Journal of Engineering and Technology (2015-2017). Full editor of International Journal of Practical Electronics (2013-2014). Reviewer at: International Journal of Hypertermia (2019), Measurement Science & Technology (2017-2019) – in 2017 nominated as the reviewer of the year, Universal Journal of Electrical and Electronic Engineering (2016-2017), Applied Physics Letters (2014), "Elsevier Science, Electrical and Computing Engineering- books section" (2008) ;																																								
ID researcher	https://orcid.org/0000-0002-8275-373X																																								