



Curriculum Vitae

Personal information

First name(s) / Surname(s) **Rotar Dan**
Address(es) Costache Negri nr. 3, 600216 Bacău (România)
Mobile +40 0723231465
E-mail drotar@ub.ro; drotarubro@yahoo.com
Nationality Romanian
Date of birth August 10, 1956
Gender Male

Work experience

Dates	2007 - present
Occupation or position held	Professor
Main activities and responsibilities	Research – Education
Name and address of employer	“Vasile Alecsandri” University of Bacău, Mechatronics and Computer Science Department, Calea Mărășești no. 157, 600115 Bacău (Romania)
Type of business or sector	Education
Dates	2005 - 2007
Occupation or position held	Assistant Professor / Vice Dean of Engineering Faculty
Main activities and responsibilities	Research – Education
Name and address of employer	“Vasile Alecsandri” University of Bacău, Mechatronics and Computer Science Department, Calea Mărășești no. 157, 600115 Bacău (Romania)
Type of business or sector	Education
Dates	1998 - 2005
Occupation or position held	Assistant Professor / Head of Department, Scientific Secretary
Main activities and responsibilities	Research - Education
Name and address of employer	“Vasile Alecsandri” University of Bacău, Mechatronics and Computer Science Department, Calea Mărășești no. 157, 600115 Bacău (Romania)
Type of business or sector	Education
Dates	1992 - 1998
Occupation or position held	Lecturer
Main activities and responsibilities	Research - Education
Name and address of employer	“Vasile Alecsandri” University of Bacău, Mechatronics and Computer Science Department, Calea Mărășești no. 157, 600115 Bacău (Romania)
Type of business or sector	Education
Dates	1990 - 1992
Occupation or position held	Engineer / Head of research laboratory
Main activities and responsibilities	Research, design microsystems

Name and address of employer	SC "ASTEC" SRL Bacău Vadul Bistriței, 600191 Bacău (Romania)
Type of business or sector	Education
Dates	1985 - 1990
Occupation or position held	Engineering / Scientific Research III
Main activities and responsibilities	Automation equipment research
Name and address of employer	Institute of Scientific Research and Technological Design for Automation Bucharest, Bacau branch, Calea Mărășești no. 157, 600115 Bacău (Romania)
Type of business or sector	Specialized activities, scientific and technical
Dates	1981- 1985
Occupation or position held	Engineer / Head of new products laboratory
Main activities and responsibilities	Production, research
Name and address of employer	Intreprinderea de Panouri Electropneumatice Bacău Calea Republicii nr. 166, 600335 Bacău (România)
Type of business or sector	Specialized activities, scientific and technical

Education and training

Dates	11-13 october 2012
Title of qualification awarded	Maîtrise des outils de recherche et d'accès à la documentation scientifique
Principal subjects/occupational skills covered	Formation Transfert
Name and type of organisation providing education and training	Agence universitaire de la Francophonie http://www.auf.org/anglais/auf-brief/
Dates	2007
Title of qualification awarded	Training course: Quality Management, University of Bacău
Principal subjects/occupational skills covered	The main characteristics and regulations for quality.
Name and type of organisation providing education and training	University of Bacau (postgraduate) Calea Mărășești no. 157, 600115 Bacău (Romania)
Dates	2003
Title of qualification awarded	Brainbench Certification "Computer Technical Support"
Principal subjects/occupational skills covered	Computer Architecture, using and troubleshooting of the computer systems. Principles of operation of the computer components.
Name and type of organisation providing education and training	Brainbench http://www.brainbench.com/
Dates	March 01, 2001 - March 12, 2001
Title of qualification awarded	Individual scholarship Tempus SJEP 12434-97 "for WEU Cooperation Network of Departments"
Principal subjects/occupational skills covered	Network of Departaments for U-E-O Co-operation. Informations about student industrial placement, continuing education and technological transfer.
Name and type of organisation providing education and training	Linköping Institute of Technology (University) Linköping (Sweden)
Dates	2000
Title of qualification awarded	Brainbench Certification "Computer Fundamentals (Win 95/98)"
Principal subjects/occupational skills covered	General principles of operating the computer. Working with Windows operating systems. Main applications used under Windows.
Name and type of organisation providing education and training	Brainbench http://www.brainbench.com/
Dates	2000
Title of qualification awarded	Brainbench Certification "Computer Electronics" – master

Principal subjects/occupational skills covered	Operating principles of computer components. How to interconnect hardware. Standards and rules of use.
Name and type of organisation providing education and training	Brainbench http://www.brainbench.com/
Dates	2000
Title of qualification awarded	CISCO instructor courses RoEduNet
Principal subjects/occupational skills covered	Ability to operate, configure, install and troubleshoot networks of medium size. Proficiency of implementing and verifying connections in a WAN and mitigating security threats.
Name and type of organisation providing education and training	"Alexandru Ioan Cuza" University Iasi (Romania)
Dates	1998
Title of qualification awarded	Training course: GESTION ET VALORISATION DES DECHETS INDUSTRIELS
Principal subjects/occupational skills covered	L'étude systématique des déchets, des biens et des espaces déclassés
Name and type of organisation providing education and training	University of Bacau (postgraduate) Calea Mărășești no. 157, 600115 Bacău (Romania)
Dates	1997
Title of qualification awarded	Monitoring and Targeting in Key Industrial Sectors
Name and type of organisation providing education and training	Ministry of Industry and Trade, the Romanian Agency for Energy Conservation (Phare) Iasi (Romania)
Dates	1998
Title of qualification awarded	Seminar on Project Management
Name and type of organisation providing education and training	British Council, Bucharest (Romania)
Dates	1997
Title of qualification awarded	Ph.D. in electronics
Principal subjects/occupational skills covered	Contributions to optimize motor control circuits step by microprocessor implementation.
Name and type of organisation providing education and training	Technical University "Gheorghe Asachi" (PhD) Iasi (Romania)
Dates	1990
Title of qualification awarded	Exchange of technical information
Principal subjects/occupational skills covered	Microcomputers for industrial applications: hardware issues, software and applications.
Name and type of organisation providing education and training	SEA (Systems and Equipment for Automation), Suceava (Romania)
Dates	1987
Title of qualification awarded	Training course for ECAROM 881M equipment
Principal subjects/occupational skills covered	Use and troubleshoot for the 881M ECAROM process microcomputers
Name and type of organisation providing education and training	FEA (Factory Automation elements) Bucharest (Romania)
Dates	1981
Title of qualification awarded	Engineering degree
Name and type of organisation providing education and training	Polytechnic Institute of Iasi, Faculty of Electrical, Electronics and Telecommunications Department (University) Iasi (Romania)

Personal skills and competences

Mother tongue(s)

Other language(s)

Self-assessment

European level (*)

English

French

Russian

Romanian

Understanding				Speaking				Writing	
Listening		Reading		Spoken interaction		Spoken production			
B2	Independent User	B2	Independent User	B1	Independent User	B1	Independent User	B2	Independent User
C1	Proficient User	C1	Proficient User	B2	Independent User	B2	Independent User	B1	Independent User
A1	Basic User	A2	Basic User	A1	Basic User	A1	Basic User	A1	Basic User

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

Social skills and competences

Active listening, selecting appropriate ways and means, adapting to new situations and unexpected features of individual and group identification of speakers, conflict mediation and negotiation, modelling behaviour in relation to interlocutors, ability to relate to different social situations, the ability to use appropriate power and authority.

Technical skills and competences

Digital systems design and implementation of microprocessor or microcontroller, artificial intelligence, software engineering, operating systems, electronics, computer.

Computer skills and competences

- o PC: MS Office (Word, Excel, Power Point, Outlook);
- o Operating systems: Windows, Linux;
- o CAD applications: OrCAD, VHDL Similia, Xilinx ISE, Mathcad, Matlab;
- o Communication: Internet Explorer, Outlook Express, Calypso, Web Design.

Driving licence

B

Additional information

Publications

- o Books: 22;
- o Articles: 134;
- o Patents: 2.

Research contracts: 24.

Professional organizations:

- o Director of Research Center B "Power Mechatronics and Computer Science", University of Bacau, Faculty of Engineering;
- o Chief of "SIEAR" Bacau branch
- o Member "SRAIT"
- o Member ACER
- o Member Amse
- o Member RoCHI

Annexes

Annex 1. Books published in the last 5 years

1. Dan Rotar, Marius Anghelut Computer Architecture, Editura Alma Mater, Bacau, ISBN 978-973-1833-24-8, 230 pag, 2007
2. Dan Rotar, Computer equipment for industrial environments, Editura Alma Mater, Bacau, ISBN 978-973-1833-25-5, 143 pag, 2007
3. Dan Rotar, Marius Anghelut, Digital electronics, Editura Alma Mater, Bacau, ISBN 978-973-1833-26-2, 166 pag, 2007
4. Dan Rotar, Software engineering, Editura Alma Mater, Bacau, ISBN 978-973-1833-27-9, 135 pag, 2007
5. Dan Rotar Artificial Intelligence, Editura Alma Mater, Bacau, ISBN 978-973-1833-28-6, 154 pag, 2007
6. Dan Rotar, Microprocessors, Editura Alma Mater", Bacau, ISBN 978-973-1833-29-3, 157 pag, 2007
7. Dan Rotar, Operating Systems, Editura Alma Mater", Bacau, ISBN 978-973-1833-61-3, 148 pag, 2007
8. Pruteanu Eusebiu, Rotar Dan, Drăgoi Dan Dumitru, Logical design of digital devices, Editura "Alma Mater", Bacau, ISBN 978-606-527-046-6 2009

Annex 2. Articles published in the last 5 years

1. ABABEI Stefan, ROTAR Dan - Virtual instrument for frequency's quality indexes surveillance, MOCM-14 Volume 1, 2008, ISSN 1224-7480, pp. 9-14
2. ABABEI Stefan, ROTAR Dan - Numeric frequency meter with PLC, MOCM-14 Volume 1, 2008, ISSN 1224-7480, pp. 15-20
3. ROTAR Dan, ABABEI Stefan - Building energetic efficiency estimation using the neural network technology, MOCM-14 Volume 1, 2008, ISSN 1224-7480, pp. 243-248
4. ROTAR Dan, ABABEI Stefan - Virtual instrument with PIC 12F675, MOCM-14 Volume 1, 2008, ISSN 1224-7480, pp. 249-252
5. ROTAR Dan, Anghelut Marius, Andrioaia Dragos - Microcontroller Neural Network Solution, MOCM-14 Volume 4, 2008, ISSN 1224-7480, pp. 133-136.
6. ROTAR DAN, ANGHELUT MARIUS, ANDRIOAIA DRAGOȘ, Touch Panel Software Driver, CNEI 2009, Proceedings of the 7th National Conference on Industrial Energetics with International Participation, ISBN : 978-606-527-050-3, pp. 271-274
7. ABABEI ȘTEFAN, ROTAR DAN, Device for Online Surveillance of Several Electric Power Quality Indicators, CNEI 2009, Proceedings of the 7th National Conference on Industrial Energetics with International Participation, ISBN : 978-606-527-050-3, pp. 449-454
8. ROTAR DAN, ABABEI ȘTEFAN, advanced flexible virtual instrument with pic microcontroller, CNEI 2009, Proceedings of the 7th National Conference on Industrial Energetics with International Participation, ISBN : 978-606-527-050-3, pp. 467-472
9. Rotar Dan - Automatic Headlight Position Control with Microcontroller, 2nd International Conference on Innovations, Recent Trends and Challenges in Mechatronics, Mechanical Engineering and New High-Tech Products Development, Bucuresti 23-24 septembrie 2010, pp. 83-95
10. Rotar Dan - Software for The Minimization of The Combinational Logic Functions, 2nd International Conference on Innovations, Recent Trends and Challenges in Mechatronics, Mechanical Engineering and New High-Tech Products Development, Bucuresti 23-24 septembrie 2010, pp. 247-252
11. Rotar Dan - Optical Tracking Method for Mechatronic Systems, 2nd International Conference on Innovations, Recent Trends and Challenges in Mechatronics, Mechanical Engineering and New High-Tech Products Development, Bucuresti 23-24 septembrie 2010, pp. 257-264
12. Rotar Dan - Automatic Headlight Position Control with Microcontroller, Romanian Review Precision Mechanics, Optics & Mechatronics, ISSN 1584 - 5982, no. 37/2010, pp. 59-68
13. Rotar Dan - Software for The Minimization of The Combinational Logic Functions, Romanian Review Precision Mechanics, Optics & Mechatronics, ISSN 1584 - 5982, no. 37/2010, pp. 95-99
14. Rotar Dan - Optical Tracking Method for Mechatronic Systems, Romanian Review Precision Mechanics, Optics & Mechatronics, ISSN 1584 - 5982, no. 38/2010, pp. 47-52
15. Rotar Dan – Method of increasing the sampling rate of the PIC microcontrollers analog to digital converter, Proceedings in Manufacturing Systems, Romanian Academy, Volume 6, Issue 2, ISSN 2067-9238, 2011, pp. 87-90
16. Rotar Dan, Intelligent guidance system, PLUMEE, 2 e colloque PLUridisciplinaire sur les Matériaux l'Environnement et l'Electronique France – Limoges 30 & 31 mai et 1 juin 2011, pp. 28-29, ISBN: 978-2-84287-539-8
17. Rotar Dan, Intelligent Control of Light Intensity Provided by Light-Emitting Diode Lighting System, PLUMEE, 2 e colloque PLUridisciplinaire sur les Matériaux l'Environnement et l'Electronique France – Limoges 30 & 31 mai et 1 juin 2011, pp. 30-31, ISBN: 978-2-84287-539-8
18. Rotar Dan – Photovoltaic power system for autonomous mobile robots, Romanian Review Precision Mechanics, Optics & Mechatronics, ISSN 1584 - 5982, no. 40/2011, pp 26-34
19. Rotar Dan – FPGA interface for optical_mouse, Romanian Review Precision Mechanics, Optics & Mechatronics, ISSN 1584 - 5982, no. 40/2011, pp 71-78

20. Rotar Dan – Photovoltaic power system for autonomous mobile robots, Romanian Review Precision Mechanics, Optics & Mechatronics, ISSN 1584 - 5982, no. 40/2011, pp 26-34
21. Rotar Dan – FPGA interface for optical mouse, Romanian Review Precision Mechanics, Optics & Mechatronics, ISSN 1584 - 5982, no. 40/2011, pp 71-78
22. Rotar Dan - A Simple Video Interface for a Microcontroller, Internet Journal of Engineering and Technology, Slovakia, ISSN 1338-2357, Volume: II. Year: 2011 Number: 2 Issue: 1, Publishing Date 30.12.2011, www.i-jet.eu
23. Andrioaia Dragos, Rotar Dan, Anghelut Marius - The Conception Of A Wireless Network Of Microcontrollers, JESR, ISSN 2068-7559, Number 1, Volume XVIII, Issue No. 1 - Volume 18 (2012), pp 12-15
24. Rotar Dan, Andrioaia Dragos - Interactive Video Interface for Embedded Systems, Romanian Journal of Human-Computer Interaction, Volum 5 Nr. 2 – Numar special An 2012, ISSN* ISSN 1843 – 4460, pp. 117 – 120
25. Rotar Dan – Intelligent System for the Robot Sensors Management, Romanian Review Precision Mechanics, Optics & Mechatronics, ISSN 1584 - 5982, no. 41/2012, pp 119-127
26. Rotar Dan – Configurable Command and Control Structure with Soft-Core Processor, Romanian Review Precision Mechanics, Optics & Mechatronics, ISSN 1584 - 5982, no. 41/2012, pp 13-17

Annex 3. Patents

1. Rotar Dan - Installation of automatic thermostatic hatching - Patent no. 1000553/1990.
2. Rotar Dan, Cărăușu Radu - Microprocessor device for command and control tool shop and the mechanism of flexible palletizing cell – Patent no. 102976/1991.

Annex 4. Research contracts in the last 5 years

1. Expert in team contract “ European Network of Rural communities for Energetic Neutrality” acronym RURENER contract with the European Commission, Executive Agency for Competitiveness and Innovation (EACI) No: IEE/07/547/SI2.499065 project coordinator MACEO France. <http://ro.rurener.eu/2010/09/26/dan-rotar/>