



## Curriculum Vitae Europass



### Personal information

First name/Last name **OROIAN-BOCA Maria Loredana**

Address

Phone number

E-mail [loredana\\_boca1@yahoo.com](mailto:loredana_boca1@yahoo.com)  
[lboca@uab.ro](mailto:lboca@uab.ro)

Nationality Romanian

Birth date 08/07/1984

Sex female

### Work experience

Dates 25/02/2008 →present

Occupation or position held University lecturer

Main activities and responsibilities Teaching and research  
- seminar and laboratory ;  
- teaching fields:  
Cryptography;  
Formal Languages and automation  
Distributed control systems  
Data Acquisitions  
Real Time  
System engineering  
Electronics and industrial informatics  
Signal processing

Dates 2012 →present

Occupation or position held Erasmus Coordinator

Main activities and responsibilities Coordinator of in-coming and out-coming teachers and students for Electronics Department

Name and address of employer "1 Decembrie 1918" University of Alba Iulia, Romania

|                                      |   |
|--------------------------------------|---|
| Type of business or sector           | Education & Research, Department International Relations  |
| Dates                                | 12/2011 →12/2013  |
| Occupation or position held          | Secretary of European project - POSDRU 49743- "The Development of Specific Training Programmes for Increasing the Social Inclusion in order to Improve the Access on the Labour Market" |
| Name and address of employer         | "1 Decembrie 1918" University of Alba Iulia, Romania  |
| Type of business or sector           | European project on human resources   |
| Dates                                | 11.05.2015-22.05.2015   |
| Occupation or position held          | Erasmus teaching exchange   |
| Main activities and responsibilities | Industrial Informatics and Electronics – courses  |
| Name and address of employer         | Gelişim University of Istanbul Turkey   |
| Type of business or sector           | Teaching program  |
| Dates                                | 05-16.05.2014   |
| Occupation or position held          | Erasmus teaching exchange   |
| Main activities and responsibilities | System Analysis and Design – courses  |
| Name and address of employer         | Gelişim University of Istanbul Turkey   |
| Type of business or sector           | Teaching program  |
| Dates                                | 24-28.09.2012   |
| Occupation or position held          | Erasmus training exchange   |
| Main activities and responsibilities | Computer science and electronics  |
| Name and address of employer         | Gelişim University of Istanbul Turkey   |
| Type of business or sector           | Teaching program  |
| Dates                                | 24-28.09.2012   |
| Occupation or position held          | Erasmus training exchange   |
| Main activities and responsibilities | Computer science and electronics  |
| Name and address of employer         | Gelişim University of Istanbul Turkey   |
| Type of business or sector           | Teaching program  |
| Dates                                | 11/08/2011 -13/08/2011  |
| Occupation or position held          | Expert on Student practice activities   |
| Main activities and responsibilities | Student practice activities coordinator   |
| Name and address of employer         | "1 Decembrie 1918" University of Alba Iulia, Romania  |
| Type of business or sector           | European project on human resources   |
| Dates                                | 08/2010 -08/2011  |
| Occupation or position held          | Secretary of European project 24926 2 "Increase of HIGHTECH performances in the working life of young graduates, through practical training programmers in companies"                   |
| Name and address of employer         | "1 Decembrie 1918" University of Alba Iulia, Romania  |
| Type of business or sector           | European project on human resources   |
| Dates                                | 04.10.2010-08.10.2010   |
| Occupation or position held          | Erasmus teaching exchange   |
| Main activities and responsibilities | Formal Language and Automation – courses  |

Name and address of employer Akdeniz University, Antalya, Turkey  
 Type of business or sector Teaching program  
 Dates 05/11/2007-1/11/2008  
 Occupation or position held IT specialist

Main activities and responsibilities - Hardware and Software installation, configuration and reconfiguration;  
 - System, drivers, programs installations  
 - Hardware, software maintenances for different departments  
 - Hardware and software testing  
 - Computers network maintenances  
 - Hardware and software maintenances

Name and address of employer "1 Decembrie 1918" University of Alba Iulia, Romania  
 Type of business or sector Department of informatics

Dates 10/07/2006 - 24/07/2006  
 Occupation or position held Practical placement

Main activities and responsibilities - hardware, software maintenances  
 - system, drivers, programs installations

Name and address of employer "1 Decembrie 1918" University of Alba Iulia  
 Type of business or sector Practical placement

Dates 01/08/2005 - 14/08/2005  
 Occupation or position held Practical placement

Main activities and responsibilities - hardware, software maintenances  
 - system, drivers, programs installations  
 - sale of hardware components, software programs, computers

Name and address of employer S.C "MAGIC SOFT GROUP" SRL.  
 Type of business or sector Practical placement

## Education and training

Dates 2013  
 Title of qualification awarded PhD - „Technical University ” of Cluj Napoca Romania  
 Principal subjects/occupational skills covered PhD Theme: „ **Supervisory and control systems for distillation processes**”

Name and type of organisation providing education and training „Technical University ” of Cluj Napoca Romania, System Engineering

Level in national or international classification „Technical University ” of Cluj Napoca Romania, high level teaching

Dates 2003 - 2007  
 Title of qualification awarded Graduate of " 1 Decembrie 1918" University of Alba Iulia Romania  
 Principal subjects/occupational skills covered Programming (C, Pascal, Visual Basic), Artificial intelligence, Logical programming, Statistics, Mathematic modeling , Database, Dynamic systems, Mathematics, Computers networks  
 Name and type of organisation providing education and training Computers science, „1 Decembrie 1918” University Alba Iulia Romania, Informatics  
 Level in national or international classification „1 Decembrie 1918” University of Alba Iulia Romania

Dates 11/2006 - 06/2007

Title of qualification awarded Research for diploma paper  
Principal subjects/occupational skills covered - Research about computers network, network security, and Internet  
- Systems vulnerabilities ;  
- Typology Attacks for informatics systems;  
- Security technologies;  
- Security networks evaluations.  
Name and type of organisation providing education and training Computer science „1 Decembrie 1918” University of Alba Iulia, Romania  
Level in national or international classification „1 Decembrie 1918” University of Alba Iulia, Romania

Dates 28/03/2006 - 28/06/2006

Title of qualification awarded Diploma paper research  
Principal subjects/occupational skills covered Master student  
Studied Fields :  
Process Modelling  
Information retrieval  
- modelling process  
- spin modeling-  
- data mining/ information retrieval  
Name and type of organisation providing education and training Technische Universiteit Eindhoven, Computer Science, Eindhoven- Netherlands

Dates 1999 - 2003

Title of qualification awarded Bachelor degree, Industrial chemistry and environment protection  
Principal subjects/occupational skills covered Industrial chemistry and environment protection  
Name and type of organisation providing education and training “Grup Școlar Industrial Metalurgic”, Alba Iulia Romania

## Personal skills and competences

Mother tongue(s) Romanian

| Self-assessment<br>European level (*) | Understanding |          | Speaking           |                   | Writing  |            |
|---------------------------------------|---------------|----------|--------------------|-------------------|----------|------------|
|                                       | Listening     | Reading  | Spoken interaction | Spoken production |          |            |
| English                               | B<br>2        | Advanced | Advanced           | Advanced          | Advanced | Medium     |
| Spanish                               | A<br>2        | Medium   | Medium             | Medium            | Medium   | Elementary |

Competențe și aptitudini tehnice    Computer Networks , Security in computer networks.

Competențe și aptitudini de utilizare  
a calculatorului    Microsoft Office: Word, Excel, Access, Power Point, Visio, Corel Draw  
Programare în Pascal, C: bases knowledge  
PHP- MySQL, HTML: bases knowledge

Other skills and competences    Swimming and volleyball

Driving licence    Driving license, B category.

#### References

- Conf.Dr.Ing. Mircea Rîșteiu, Director of International affairs department "1 Decembrie 1918" University of Alba Iulia" Romania
- Prof. Univ. Dr. Ing. Ileană Ioan, pro- rector "1 Decembrie 1918" University of Alba Iulia"
- Prof. Dr. Yilmaz SIMSEK "AKDENIY" University, Antalya Turkey
- Assoc. Prof. Mustafa ULUSOY, Vocational School Director "GELİŞİM" University of Istanbul, Turkey,

**Published papers**

1. **Loredana Boca**, Bogdan Croitoru, Lucia Cabulea, Mihail Abrudean, *Synchronization Approach of S.C.A.D.A Downloaded Data for Optimizing Computing Resources*, , în Proceedings of International Conference on Theory and Applications in Mathematics and Informatics, ICTAMI 2009.
2. **Loredana Boca**, Ioan Ileana, Iuliana Ungur, Bogdan Croitoru, Maria Muntean, *The Control of an Industrial Robot by Using the Prolog Programming Language*, în Proceedings of International Conference on Theory and Applications in Mathematics and Informatics, ICTAMI 2009.
3. Bogdan Croitoru, Mircea Risteiu, **Loredana Boca**, Alin Popa, *Practical Approach in Virtual Labs Management for Real-Time Multiple Hoops Data Acquisition Systems Based on WI-FI TCP/IP Communication Protocol*, , în Proceedings of International Conference on Theory and Applications in Mathematics and Informatics, ICTAMI 2009.
4. **Loredana Boca**, Bogdan Croitoru, Ioan Ileana, Lucia Cabulea, Mircea Risteiu, *Optimization Approach of Large Downloadable Data Files from SCADA Systems*, The 20<sup>th</sup> International DAAAM Symposium, Viena Austria, 2009.
5. Mircea Risteiu, Bogdan Croitoru, **Loredana Boca**, Ioan Ileana, *New Approach in Evaluating Virtual Labs Safety into the Frame of Real-time DAQ Based on WI-FI TCP/IP Protocols*, The 20<sup>th</sup> International DAAAM Symposium, Viena Austria, 2009.
6. **Loredana Boca**, Bogdan Croitoru, Mircea Risteiu, *Monitoring Approach of Supervisory Control and Data Acquisition Downloadable Data Files for "Mission – Critical" Situations Detection*, IEEE International Conference on Automation, Quality and Testing, Robotics AQTR 2010- 28-30 mai 2010.
7. Bogdan Croitoru, **Loredana Boca**, Tulbure Adrian, *The Management of Wireless Real-Time Data Acquisition Processes Using Virtual Instruments*, IEEE International Conference on Automation, Quality and Testing, Robotics AQTR 2010- 28-30 mai 2010
8. **Loredana BOCA**, Bogdan CROITORU, Mihail ABRUDEAN, Emil OLTEANU, „*Optimization approach on "mission-critical" situation detection in distributed sensor networks*”, The 5th edition of the International Conference "Advanced Topics in Optoelectronics, Microelectronics and Nanotechnologies", 26 - 29 August 2010, Constanta, Romania.
9. Bogdan CROITORU, **Loredana BOCA**, Mihail ABRUDEAN, Remus JOLDES, „*Approach for long term environmental parameters monitoring process using data acquisition devices and high level applications for data processing*”, The 5th edition of the International Conference "Advanced Topics in Optoelectronics, Microelectronics and Nanotechnologies", 26 - 29 August 2010, Constanta, Romania.
10. Croitoru Bogdan., **Boca Maria Loredana.**, Joldeş Remus, Cabulea Lucia „*Approach for Green Energy Potential Evaluation using Real-Time Data Acquisition Devices*”, Annals of DAAAM for 2009 & Proceedings of the 20th International DAAAM , pp. 1303-1304, ISSN 1726-9679, Vienna, Austria, 2010.
11. **Boca Maria Loredana.**, Croitoru Bogdan., Abrudean Mihail., „*Modeling Approach of 13C Isotope Separation Column for Mission Critical Situations Detection*”, Advanced Topics in Optoelectronics, Microelectronics and Nanotechnologies, 2012.
12. **Boca Maria Loredana**, Secara Mihai, Abrudean Mihail, *Methods for Control of Some Critical Situations Afferent of a 13 C Isotope Separation Column*, International Journal of Manufacturing Technologies, Volume V, number, 2/2013 ISSN 2067-3604, pp- 21-27
13. Secara Mihai, Abrudean Mihail, **Boca Maria Loredana**, Croitoru Bogdan, *The Experimental identification of the Separation Cascade of (<sup>18</sup>O) in the NO, NO<sub>2</sub>- H<sub>2</sub>O, HNO<sub>3</sub> System*, 2014 IEEE International Conference on Automation, Quality and Testing, Robotics AQTR 2014 - THETA 19<sup>th</sup> edition, 22-24 May 2014, Cluj-Napoca, Romania


14. Gheorghe Marc, **Boca Maria Loredana**, *Using Logic Programming for Improve and Increase the Reliability of Tools and Embedded Machine to avoid some „Mission critical” in Flexible Manufacturing Lines*, 7th Symposium Durability and Reliability of Mechanical Systems SYMECH, 23-24 may 2014 , [Polovragi - Cheile Oltețului](#), Romania
15. **Boca Maria Loredana**, Mihai Secară, *Analogy between “mission critical” detection in distributed systems and 13C Isotope Separation Column*, The 7<sup>th</sup> edition of the International Conference "Advanced Topics in Optoelectronics, Microelectronics and Nanotechnologies" 21 - 24 august 2014, Constanta, Romania
16. **Boca Maria Loredana**, *Model of decision system for 13c isotope separation column*, ModTech International Conference Modern Technologies in Industrial Engineering June 17-20,2015, Mamaia, Romania
17. **Boca Maria Loredana**, Ciortea Mihaela Elisabeta, *Aspects regarding at 13C isotope separation column control using Petri nets system*, ModTech International Conference Modern Technologies in Industrial Engineering June 17-20 ,2015, Mamaia, Romania
18. **Boca Maria Loredana**, **Modeling Aspects regarding the control in <sup>13</sup>C Isotope Separation column**, ModTech International Conference Modern Technologies in Industrial Engineering, June 2016, Iasi, Romania
19. **Maria Loredana Boca**, **Dobra Remus**, **Pasulescu Dragos**, **Ahmad Mohammad Ayaz**, *Analysis and simulation of industrial distillation processes using a graphical system design model*, The 8th edition of the International Conference "Advanced Topics in Optoelectronics, Microelectronics and Nanotechnologies" 25 - 28 august 2016, Constanta, Romania
20. **Dobra Remus**, **Pasulescu Dragos**, **Boca Maria Loredana**, **Moldovan Lucian**, *Numerical System for Monitoring the Pressurized Equipments*, The 8th edition of the International Conference "Advanced Topics in Optoelectronics, Microelectronics and Nanotechnologies" 25 - 28 august 2016, Constanta, Romania
21. **Boca Maria Loredana**, **Kovac P.**, **Savkovic B.** *Model approach of automation of bottling and packaging for industrial process of bottles*, Journal of Production Engineering, 2017, ISSN1821-4932
22. **Boca Maria Loredana**, **Kadar Manuella**, *Big data analytics with graphical techniques applied to environmental control*, The 9th edition of the International Conference "Advanced Topics in Optoelectronics, Microelectronics and Nanotechnologies", **23 - 26 August 2018, Constanta, Romania**
23. **Oroian Boca Maria Loredana**, *Big data analytics with graphical techniques applied on sensors data*, ModTech International Conference Modern Technologies in Industrial Engineering, June 2019, Iași, Romania
24. **Oroian Boca Maria Loredana**, **Boca Liana**, **Cebuc George**, *Intelligent lighting system using single shot multibox detector*, The 10th edition of the International Conference "Advanced Topics in Optoelectronics, Microelectronics and Nanotechnologies", 20 - 23 August 2020, Constanta, Romania

### Projects Member

1. Experimental and clinical studies on Radon in the central Transylvania counties and its impact on the human and animal morphological and physiological breathing system - NP2
2. Increase of HIGHTECH performances in the working life of young graduates, through practical training programmers in companies, EUROPEAN SOCIAL FUND, SOP HRD
3. New employment opportunities by TELEWORKING in the rural areas
4. The Development of Specific Training Programmes for Increasing the Social Inclusion in order to Improve the Access on the Labour Market”

### Papers Coordinator for Student Conferences

1. *Educational Software for pre-school children*, Baico Ramona, aprilie 2009
2. *Optimization approach for warehouse manipulation packets process using industrial robots*, Ungur Iuliana, aprilie 2009
3. *Using relevance feedback during information retrieval*, Ungur Iuliana, aprilie 2009



## Master degrees coordination

1. "Newsletter Online ".Angelescu Gabriel, 2014

A small, handwritten signature in black ink, appearing to read "Gabriel", is located in the bottom right corner of the page.