



## Europass Curriculum Vitae

### Personal information

First name(s) / Surname(s) **Țepelea Laviniu Flavius**

E-mail(s) ltepelea@uoradea.ro

Nationality Romanian

### Desired employment / Occupational field **Electronics Engineer**

### Work experience

Dates March 2016 - present

Occupation or position held Lecturer

Main activities and responsibilities Technical Laboratory with students  
Disciplines – Data Acquisition Systems, Microcontrollers, Encryption Algorithms in Telecommunication Networks, Power Electronics, Applied Informatics, The Security of Telecommunication Networks and Services

Name and address of employer University of Oradea, Faculty of Electrical Engineering and Information Technology,  
Electronics Department  
1 Universitatii, Oradea (Romania)

Type of business or sector Education

Dates October 2006 - present

Occupation or position held Teaching Assistant

Main activities and responsibilities Technical Laboratory with students  
Disciplines – Data Acquisition Systems, Digital Integrated Circuits, Electronic Devices and Circuits, Microprocessors and Microcontrollers, Encryption Algorithms in Telecommunication Networks, Telecommunication Software, Power Electronics, Power Supplies

Name and address of employer University of Oradea, Faculty of Electrical Engineering and Information Technology,  
Electronics Department  
1 Universitatii, Oradea (Romania)

Type of business or sector Education

Dates March 2004 – September 2006

Occupation or position held Junior Teaching Assistant

Main activities and responsibilities Technical Laboratory with students  
Disciplines - Data Acquisition Systems, Digital Integrated Circuits, Electronic Devices and Circuits, Power Electronics

Name and address of employer University of Oradea, Faculty of Electrical Engineering and Information Technology,  
Electronics Department  
1 Universitatii, Oradea (Romania)

Type of business or sector Education

Dates September 2002 – October 2003

Occupation or position held Orthodox Religion Teacher

Main activities and responsibilities Teaching Orthodox Religion

Name and address of employer *Lucian Blaga* High School  
1 Aleea Posada , Oradea (Romania)

Type of business or sector	Education
Research Project	Hungary-Romania Cross-Border Co-operation Programme, HURO/0901/028
Title	E-Laboratory Practical Teaching for Applied Engineering Sciences, EPRAS
Director	PhD Professor Eng. Eugen Gergely, University of Oradea
Dates	2011 – 2013, team member
Type of business or sector	Education
Research Project	Grant CNCSIS A 639/2005 - obtained from national competition
Title	Tools for assisted movement of people with visual disabilities
Director	PhD Professor Eng. Virgil Tiponuț, Politechnica University from Timișoara
Dates	2005 – 2007, team member
Research Project	Grant CNCSIS A 473/2006 - obtained from national competition
Title	Using Cellular Neural Network Technology for Autonomous Navigation of Mobile Robots
Director	PhD Professor Eng. Alexandru Gacsádi, University of Oradea
Dates	2006 – 2007, team member
Research Project	PN II Program - Ideas 668/2008, contract Nr. 645/01.19.2009, exploratory research project in Engineering Science, Electronics and Telecommunications domain - obtained from national competition
Title	Development of analysis and processing methods of computed tomography images using cellular neural networks and their integration into a system to assist medical diagnosis
Director	PhD Professor Eng. Alexandru Gacsádi, University of Oradea
Dates	2009 – 2011, team member
Relevant scientific papers	<p>12 ISI indexed, 10 BDI indexed, 5 books with ISBN</p> <ol style="list-style-type: none"> <li>1. <b>Lavinu Tepelea</b>, <i>Noi metode pentru deplasarea asistată în medii cu obstacole a persoanelor cu deficiențe de vedere</i>, Editura Politehnica Timisoara, ISBN: 978-606-554-882-4, 162 pagini, 2014</li> <li>2. <b>L. Tepelea</b>, V. Tiponuț, P. Szolgay, A. Gacsádi, <i>Multicore Portable System for Assisting Visually Impaired People</i>, 14th International Workshop on Cellular Nanoscale Networks and their Applications, pp. 1-2, University of Notre Dame, USA, July 29-31, 2014, ISBN:978-1-4799-6007-1, ISSN:2165-0179, DOI:10.1109/CNNA.2014.6888646 (<i>ISI Web of Science</i>)</li> <li>3. <b>L. Tepelea</b>, I. Gavriluț, V. Tiponuț, P. Szolgay, Al. Gacsádi, <i>OCR application on smartphone for visually impaired people</i>, Journal of Electrical and Electronics Engineering, Vol. 7, Issue 1, pp. 153-156, Oradea, 2014 (<i>Scopus</i>)</li> <li>4. Z. Kincses, Zs. Vörösházi, Z. Nagy, P. Szolgay, <b>T. Lavinu</b>, A. Gacsádi, <i>Investigation of area and speed trade-offs in FPGA implementation of an image correlation algorithm</i>, Proc. Intern.Workshop on Cellular Nanoscale Networks and their Applications, Turin, Italy, 2012 (<i>ISI Web of Science</i>)</li> <li>5. <b>L. Tepelea</b>, A. Gacsádi, I. Gavriluț, V. Tiponuț, <i>A CNN Based Correlation Algorithm to Assist Visually Impaired Persons</i>, IEEE Proceedings of the International Symposium on Signals Circuits and Systems (ISSCS 2011), ISBN 978-1-4577-0201-3, Digital Object Identifier: 10.1109/ISSCS.2011.5978686, pp.169-172, Iași, Romania, June 30 2011-July 1 2011 (<i>ISI Web of Science</i>)</li> <li>6. A. Gacsádi, <b>L. Tepelea</b>, I. Gavriluț, O. Straciuc, <i>Energy Based Medical Imaging Segmentation Methods by using Cellular Neural Networks</i>, Proceedings of the WSEAS International Conference on Systems, Recent Researches in System Science, pp.109-195, Corfu Island, Greece, 2011 (<i>Scopus</i>)</li> <li>7. I. Gavriluț, V. Tiponuț, A. Gacsádi, <b>L. Tepelea</b>, <i>Wall-following Method for an Autonomous Mobile Robot using Two IR Sensors</i>, New Aspects of Systems, Proc. WSEAS Intern. Conf. on SYSTEMS, ISSN 1790-2769, pp. 205-209, Heraklion, Crete Island, Greece, 2008 (<i>ISI Web of Science</i>)</li> <li>8. I. Gavriluț, A. Gacsádi, <b>L. Tepelea</b>, V. Tiponuț, <i>Motion planning for two mobile robots in an environment with obstacles by using cellular neural networks</i>, Proceedings of the The 7-th International Symposium on Signals, Circuits and Systems (ISSCS 2005), pp. 801-804, Iași, 2005 (<i>ISI Web of Science</i>)</li> </ol>
<b>Education and training</b>	
Dates	March 2016
Title of qualification awarded	PhD with topic: New methods for assisted movement of people with visual disabilities in environments with obstacles

Documentation Domain	Electronics and Telecommunications
PhD Leader	PhD Professor Eng. Virgil Tiponuț, Politechnica University from Timișoara
Preliminary exam held	English Language for communication and documentation
Examinations held	Smart Sensors Microcontrollers and signal processors Neural Network
Reports presented	Methods for assisting visually impaired people to travel in environments with obstacles Sensors used in equipment for assisted movement of visually impaired people Man-machine communication for assisted movement of visually impaired people
Dates	October 2004 – June 2006
Title of qualification awarded	Master degree, Profile - Artificial Intelligence and Image Processing
Principal subjects / occupational skills covered	Image Processing and Analysis Fundamentals of Artificial Intelligence Digital Processing of Signals Cellular Neural Networks Pattern Recognition Smart Sensors
Name and type of organisation providing education and training	University of Oradea, Faculty of Electrical Engineering and Information Technology 1 Universitatii, Oradea (Romania)
Dates	October 1998 – June 2002
Title of qualification awarded	Bachelor in Theology, Profile – Orthodox Pastoral Theology
Principal subjects / occupational skills covered	Dogmatics Pedagogy Latin language Greek Language Hebrew Language Canon Law New Testament Old Testament Music
Name and type of organisation providing education and training	University of Oradea, Faculty of Orthodox Theology 1 Universitatii, Oradea (Romania)
Dates	October 1993 - June 1998
Title of qualification awarded	Electronics Engineer, Profile – Applied Electronics
Principal subjects / occupational skills covered	Electronic Devices and Circuits Electronics Technology Computer Programming Digital Integrated Circuits Analog Integrated Circuits Computer Graphics Signals and Systems Electrical and Electronic Measurement Microwave Information Transmission Theory Industrial Electronics Fundamental of Television Data Acquisition Systems
Name and type of organisation providing education and training	University of Oradea, Faculty of Electrical Engineering and Information Technology 1 Universitatii, Oradea (Romania)
Dates	September 1989 – July 1993
Title of qualification awarded	Bachelor in Electronics
Principal subjects / occupational skills covered	Electronics assembler – debugger for Personal Computer

Name and type of organisation providing education and training  
*Traian Vuia* High School  
 Oradea (Romania)

**Personal skills and competences**

Mother tongue(s) **Romanian**

Other language(s)

Self-assessment  
*European level (\*)*

**English**

**French**

Understanding				Speaking				Writing	
Listening		Reading		Spoken interaction		Listening		Reading	
B2	Independent user	B2	Independent user	B1	Independent user	A2	Basic User	B1	Independent user
B1	Independent user	B1	Independent user	A2	Basic User	A2	Basic User	A2	Basic User

Social skills and competences  
 Communication Skills, Research Skills, Training Skills, Teaching Skills, Teamwork Skills

Organisational skills and competences  
 Planning and Management Skills

Technical skills and competences  
 Various knowledges in Electronics, from Electronic Devices and Circuits to Microcontrollers

Computer skills and competences  
 Advanced using of PC, Using Office type programs,  
 Knowledge of design and simulation software in Electronics: Matlab, LabView, B2Spice, Circuit Design Suite, Proteus, Microcap, ...  
 Knowledge of graphics and desktop publishing programs: InDesign, CorelDraw, Photoshop  
 Knowledge of techniques to recover deleted data on your computer  
 Knowledge of techniques for recovering data in case of crash of the operating system

Personal web page  
<https://prof.uoradea.ro/tepelea/>

Driving licence(s)  
 B Category

Date: 25.11.2022