



Europass Curriculum Vitae

Personal information

First name(s) / Surname(s) **MATICA Liliana Marilena**
 Address(es) Oradea, B-dul Dacia, nr.29, ap.19
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 E-mail lmatica@uoradea.ro
 Nationality romanian
 Date of birth 20.10.1958
 Gender F

Occupational field **Electrical engineering**

Dates

present-1993	1993-1990	1989-1986	1986-1982
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Occupation or position held

university professor	IT specialist	scientific researcher	engineer
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Main activities and responsibilities

Teaching students, laboratory coordinator	Compute bank transactions	Develop new CNC equipments	Implement software
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Name and address of employer

University of Oradea Universitatii str. no.1 Oradea	Banca Agricola Sucursala Bihor D.Canemir str, no.21 Oradea	Institutul de Cercetare Stiintifica si Inginerie Tehnologica pentru Automatizari - Bucuresti, Dacia bd., no.57 Oradea	Intreprinderea de Subansamble si Piese pentru Mijloace de Transport Uzinelor str., no.11 Oradea
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Type of business or sector

EDU-UNIV (university)	PUB-OTH (other type of public organization)	RES-PUB (Public Research Centres)	ENT-LARGE Enterprise large (> 500 employees)
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Education and training

Dates

2001

Title of qualification awarded

Doctor

Principal subjects/occupational skills covered

Electrical engineering

Name and type of organisation providing education and training

University "Politehnica" Timisoara, Romania

Level in national or international classification

PhD

Dates

1982

Title of qualification awarded Inginer
 Principal subjects/occupational skills covered Automatics and computers
 Name and type of organisation providing education and training Institutul Politehnic "Traian Vuia" Timisoara, Romania
 Level in national or international classification Engineer with diploma

Personal skills and competences

Mother tongue(s) romanian

Other language(s)

Self-assessment

European level (*)

Language

Language

Understanding		Speaking		Writing			
Listening		Reading		Spoken interaction		Spoken production	
English	medium	Medium	medium	medium	medium	medium	medium
Franch	medium	Medium	medium	medium	medium	medium	medium
German	medium	Medium	medium	medium	medium	medium	medium

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

Social skills and competences

International assessor (expert evaluate) for programs of the Education, Audiovisual and Culture Executive Agency (EACEA).; organizer of the Oradea delegation at the **Emerson Cluj-Napoca open day**; students groups coordinator; I coordinate the participation with the flexible cellule with Numerom 640 MP, at the TIB international industrial market, I coordinate the University of Oradea delegation at MICAD international software exhibition, from Paris, France or industrial exhibition from Courtre, Belgium.

Organisational skills and competences

I am CIM200 laboratory **chef** at University of Oradea.
 I coordinate the put on functioning concerning **the third** scientific computer in district Bihor. I coordinate the implementation of several software application, for example, SIGET, an software application about define the manufacture of new products, concerning technical and economical aspects, PLUREP, about planning of current and re-technologize service activity at the company U.A.M.T., etc.
 I was national scientific research projects **director**. Numerom 640 MP, I coordinate this national scientific research project, considering the economic and financial aspects; the project was finalized on time and the beneficiary signed the reception;
 For three years, I worked in B.A.S.A.- sucursala Bihor bank, where I coordinate my shift software procedures that compute the **bank activity**, (bank IBM compatible computer department worked on two shift). I was in charge with employers salary software, at this bank; I graduate an international financial course organized by our National Bank.
 I coordinate the licence and master students **diploma** work.
 I coordinate the activities about develop **students teaching** concerning several disciplines, for example: Conducerea Robotilor Industriali, Vedere Artificiala si Prelucrarea Imaginilor, Sisteme Informatice Industriale.
 I coordinated the collaboration, for UE Erasmus-Socrates program, with Faculté des Sciences Appliquées, **Université de Liège**, Belgium. I organized **the Dean visit**, from Faculté des Sciences Appliquées, Université de Liège, Belgium, at Oradea.
 I coordinate the collaboration between University of Oradea and **Integraph** company, or others local companies (for example Connectronics, GIUPET, Electrica Service). I coordinate the **students practical** activity, at S.C. U.A.M.T. S.A. Oradea.
 I coordinate the activities about consider new project partner, with University of Camerino, Italy; University of Debreten, Hungary, University of Sofia, Bulgaria, etc.
 I worked as manager and national coordinator for **international project**. EU-Observer, European Observatory of validation of non formal and informal skills in the sector of landscape, urban planning and risk prevention. E.A.C.E.A., key activity: KA1-Cooperation and Innovation. The project consists on an Observatory made by institutions from Italy, Germany, Spain, Bulgaria, Slovenia, Greece and Romania.
 I organized the two EU_Observer **conferences**, held at University of Oradea.

<p>Technical skills and competences</p> <p>Computer skills and competences</p> <p>Other skills and competences</p> <p>Driving licence</p> <p>Additional information</p>	<p>I obtain the patent about Numerom 730 M, together with others 15 scientific researchers.</p> <p>I worked for several national scientific projects: Numerom 640 TMP; Numerom 640 MP; Cercetari cu caracter fundamental si aplicativ privind efectele transportului, distributiei si utilizarii energiei electrice si regim deformant.</p> <p>I execute and coordinate the put on function activity about the CNC equipments for I.M.M.U.M. and I.M.U.A.S. Baia Mare. I execute the service activity about the CNC equipment, at I.M.F. Bucuresti.</p> <p>I wrote several software programs (for example: program for NCL2000 lathe from manufacture flexible system CIM200, with a new synchronize method or real time program software for Numerom 640 MP, "Echipament de comanda numerica pentru masini de tesit muchii la placute din carburi metalice sinterizate" or Numerom 640 MP, that command the movement for a vertical finite axle and and an orizontal infinite axle or about application editing and analyse for Numerom 730 M.</p> <p>I elaborate the technical documentation for CNC, Numerom 640 MP.</p> <p>I worked for project ACPART-DOCIS, about G1L formulary that describe the graduates' students' competences concerning transport systems; I specified the minimum knowledges for each competence. My definitions of main competences will be part of graduates' students' diplomas, my definitions were validated in the Consortium meeting, with 27 national specialists, organized at Bucuresti.</p> <p>I worked as assessors (evaluate expert) about scientific national, projects, for example in panel P3, Unitatea Executiva pentru Finantarea Invatamantului Superior a Cercetarii, Dezvoltarii si Inovarii, CNCISIS, December 2010.</p> <p>I worked for define the Romanian version for EU Observer test, about validation of non formal and informal learning. I defined the methodology about obtaining the national version about EU_Observer diploma.</p> <p>I evaluate international projects, on an EU project competition, (for example project HuRo-1011-002-111; HuRo-1011-059-111 or HuRo-1011-074-111).</p> <p>Competences fields are electrical engineering (for example describing my new definition about global power factor), automation (describing the numerical implementation of PID algorithm), computers (about structured programming or industrial characteristics for software), teaching courses activity (for example explaining about my new formula concerning industrial robot cinematic), (about industrial informatics systems, concerning interpreter or supervisor module), CNC (for example about real-time movement conduct); real-time trajectory generating (for example implementing the numerical difference analyzing algorithm), interpolate algorithms (Lagrange) , industrial robots driving (considering Denavit-Hartenberg convention), artificial intelligence (expert system for electrical networks), image analyzing (image numerical treatment), systems with microprocessors and microcontrollers (about programming Intel processors), assembly language (about burn in EPROM and consider the RAM memory), automatic systems with discreet events (for example about numerical values of analogic measures considering time periodical sampling), electrical three-phase systems analyze (analyzing the apparent power components such is non-symmetric power).</p> <p>I defined new methods about analyze the three-phases electrical circuits, on non-symmetrical and non-sinusoidal situations.</p> <p>DTPS, ACL (for industrial robots), ASM, Clipper, Pascal, SIGET, PLUREP, PSpice, Easy-Moeller software, office software;</p> <p>a) I published over 45 papers, (among its, 15 paper are indexed ISI) , for example: https://thesai.org/Downloads/Volume9No2/Paper_3-Real_Time_Computation_for_Robotic_Arm_Motion.pdf https://ieeexplore.ieee.org/document/6563379 https://www.researchgate.net/publication/323536603_Real_Time_Computation_for_Robotic_Arm_Motion_upon_a_Linear_or_Circular_Trajectory</p> <p>b) I wrote 11 books, with ISBN, for example: Matica, L.M., Gavris, M., Three-phases systems analyze in non-symmetrical and non-sinusoidal situations. ISBN 978-73759-534-8, Editura Univ.Oradea, 2008 (o book wrote in english and romanian language);</p> <p>c) I participate in several comisions for organize scientific congres or conferences, for evaluate graduates or students work, admision on faculty exams, or exam for new employers.</p> <p>Yes, B</p> <p>References: prof.Henri LeCocq, University of Liege, Faculty of Applied Sciences, Belgium</p>
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