



## Europass Curriculum Vitae

### Personal information

First name(s) / Surname(s) **Marius Cristian LUCULESCU**  
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E-mail [lucmar@unitbv.ro](mailto:lucmar@unitbv.ro)  
Nationality Romanian  
Date of birth  
Gender Male

### Work experience

Dates October 1993 - present  
Occupation or position held University Junior Assistant, Assistant, Lecturer, Associate Professor, Professor at Transilvania University of Brasov, Chair of Precision Mechanics and Mechatronics, Faculty of Mechanical Engineering (until October 2011) and Product Design, Mechatronics and Environment Department, Faculty of Product Design and Environment (after October 2011)  
Since October 2015 - Coordinator of the Mechatronics Bachelor study program;  
Since February 2016 - Coordinator of the Advanced Mechatronic Systems Research Center.  
November 2015 – March 2024 - Vice Dean for Scientific Research, IT and Quality Assurance, Faculty of Product Design and Environment;  
Since April 2024 - Vice Dean for Quality Assurance and Internationalization, Faculty of Product Design and Environment;

Main activities and responsibilities **Teaching:** Courses: "Microcontrollers, Microprocessors", "Microcontrollers Programming", "Programmable Logic Controllers", "Artificial Intelligence", "Medical Informatics".  
**Scientific activity:** More than 90 articles/studies published in journals and volumes of scientific nationally/internationally recognized conferences; member in an international educational project grant, Leonardo da Vinci; member in 4 national educational projects, Director of 2, and member in 19 research, development and innovation projects, based grant or contract, Director of 2 and member in other 2 research development and innovation contracts with third-parties, 1 patent, coordinator of the *Advanced Mechatronic Systems* Research Center.

Name and address of employer Transilvania University of Brasov, 29 Eroilor Blvd, 500036, Brasov, Romania  
Phone (+40-268) 41 30 00, Fax (+40-268) 41 05 25  
Type of business or sector Product Design, Mechatronics and Environment Department, Faculty of Product Design and Environment, Transilvania University of Braşov, Romania

### Education and training

Dates **2017**  
Title of qualification awarded **Habilitation Certificate in Mechanical Engineering domain**

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| Principal subjects/occupational skills covered                 | Habilitation thesis: Implementations of Advanced Mechatronic Systems in Agriculture, Industry, and Medicine<br>Areas of competence in research: mechanical engineering – Computer Assisted Design / Computer Assisted Manufacturing; Computer applications in engineering (hardware and software); Automation with microprocessors and microcontrollers, data acquisition systems; Medical informatics, medical imaging, biomedical apparatus, artificial intelligence; Advanced mechatronic systems with applications in industry, medicine and precision agriculture   |
| Name and type of organisation providing education and training | Transilvania University of Brasov, Romania   |
| Level in national or international classification              | ISCED 8  |
| Dates  | <b>November 2011 – May 2012</b>  |
| Title of qualification awarded                                 | <b>Certificate of Completion – Postgraduate course - Quality Assurance in Higher Education, Module M1.1 Internal Management and Quality Assurance Systems</b>  |
| Principal subjects/occupational skills covered                 | The course covered the following topics: Quality and internationalization in higher education; External quality assessment in higher education; Institutional approach to quality in higher education; Procedures and dimensions of quality management; Procedures and internal quality evaluation tools.  |
| Name and type of organisation providing education and training | Postgraduate course held in partnership by the University of Bucharest, Babes-Bolyai University of Cluj-Napoca, and the West University of Timisoara, in POSDRU / 57 / 1.3 / S / 26646 - <i>"Blended learning" continuous training for academics (BLU)</i> .   |
| Level in national or international classification              | ISCED 7  |
| Dates  | <b>1999 - 2007</b>   |
| Title of qualification awarded                                 | PhD Diploma in Industrial Engineering domain   |
| Principal subjects/occupational skills covered                 | Thesis Title: <i>"Researches on Biological Human Visual Structures Concerning the Diagnosis of Macular Diseases"</i><br>Bordering on important domains – engineering – medicine – informatics, involving knowledge regarding biosystems structure and functionality and also knowledge and skills of technical and IT systems, the thesis makes some research on biological human visual structures concerning the diagnosis of visual diseases, namely the macular ones. This is a highly important transdisciplinary topic; it combines aspects from biosystems (human visual system), image acquisition and processing (medical imaging), artificial intelligence techniques (neural networks), and information management (databases). |
| Name and type of organisation providing education and training | Transilvania University of Brasov, Politehnica University of Bucharest   |
| Level in national or international classification              | ISCED 8  |
| Dates  | <b>1994 - 1996</b>   |
| Title of qualification awarded                                 | Postgraduate Diploma<br>European Master of Science Degree Certificate in Energy Management and Mechanical Engineering  |
| Principal subjects/occupational skills covered                 | Competencies in energy management and design, modeling, simulation, and analysis of engineering systems.   |
| Name and type of organisation providing education and training | International Technological University - Technical University of Cluj-Napoca, Transilvania University of Brasov, The National Technical University of Athens, Greece, The Free University of Brussels, Belgium, The Technical University of Munich, Germany, The University of Padua, Italy; The European Masters Degree Course was supported by the Tempus Programme of the Commission of the European Communities (courses and exams in English, foreign teachers, Second Prize)   |
| Level in national or international classification              | ISCED 7  |
| Dates  | <b>1988 - 1993</b>   |
| Title of qualification awarded                                 | Engineer Bachelor Diploma  |
| Principal subjects/occupational skills covered                 | Specialization in "Computer Peripheral Equipment and Biomedical Devices", valedictorian.   |

Name and type of organisation providing education and training Transilvania University of Brasov  
 Level in national or international classification ISCED 6

**Other courses/ training stages**

Dates **September 9 – 10, 2016**  
 Title of qualification awarded **Completion Certificate – ISO 9001:2015 Risk-based Management and Transition Training Course**  
 Principal subjects/occupational skills covered The transition from ISO 9001: 2008 to the risk-based approach of the updated ISO 9001: 2015 version in quality management systems  
 Name and type of organisation providing education and training GLOBAL CERTIFICATION RO, Romania, official representative in Romania of Global Group United Kingdom - an independent certification body, inspection, and training with proven experience worldwide

Dates **February 8 – 12, 2016**  
 Title of qualification awarded **Certificate of Completion – Training for RPAS multi-copter operators**  
 Principal subjects/occupational skills covered The course covered the following topics: Rules and safety measures regarding the operation of RPASs (Remotely Piloted Aircraft Systems); Overview of multi-copters (constructive models); Existing autopilots - comparative presentation; Abbreviations used in aviation; MONICULT project multi-copters presentation; Mission Planner navigation software; Multi copters pilot training with the flight simulator; Legislative elements and of air safety regarding airspace usage; Planning and preparation for a mission (NOTAM, checklists, flight logs); Dual flight training for flight modes: stabilize, alt hold, loiter. Training for the autonomous mission; Training for FPV (First Person View) flight using monitor FPV and the FPV glasses.  
 Name and type of organisation providing education and training Aero Drone SRL, member of the Institute of Training, Research, and Studies for Unmanned Vehicle Systems, Romania

Dates **June 25 – 26, 2015**  
 Title of qualification awarded **Certificate of Completion - Vicon hardware Set-Up and Nexus Training**  
 Principal subjects/occupational skills covered The course covered the following topics: Description and configuration of VICON system for tracking, motion capture, simulation, modeling in real-time, consisting of 6 cameras with 250fps, near-infrared LEDs lighting system (NIR @ 780nm) with adjustable brightness, Gigabit Ethernet interface to transfer information on a workstation graphics; Presentation and use of the NEXUS calibration software, real-time tracking, motion capture, simulation, modeling, postprocessing and of the module for gait analyzing Vicon Plug-in Gait, to examine kinematics of the joints of the upper or lower body or the whole body and the kinetics of patients  
 Name and type of organisation providing education and training VICON Motion Systems Ltd, Oxford, United Kingdom

Dates **August 5 – 9, 2013**  
 Title of qualification awarded **Certificate of Completion – Electro-pneumatics – PN281 - Basics**  
 Principal subjects/occupational skills covered The course covered the following topics: Symbols used in electro-pneumatic schematics; structure, function, and maintenance of electrical devices used in electro-pneumatic circuits; reading and interpreting of electro-pneumatic schematics; proximity sensor; electrical connections; installation, commissioning, and adjustment of electro-pneumatic systems.  
 Name and type of organisation providing education and training FESTO DIDACTIC Romania

Dates **April 5 – 8, 2011**  
 Title of qualification awarded **Certificate of Completion - PLC control for Modular Production Systems**  
 Principal subjects/occupational skills covered The course covered the following topics: hardware and electrical characteristics of Siemens S7-300 PLCs, software development environment SIMATIC STEP 7, STEP 7 projects (hardware configuration, symbol tables, F7-GRAF or LDR programming); timers and counters; project downloads and information recovery in/ from PLC, practical applications of small-scale automation, etc.

Name and type of organisation providing education and training | FESTO DIDACTIC Romania

Dates | 2010-2011

Title of qualification awarded | **Certificate of Completion - IT Essentials: PC Hardware and Software – Cisco Networking Academy**

Principal subjects/occupational skills covered | **The IT Essentials: PC Hardware and Software** curriculum provides an introduction to the computer hardware and software skills needed to help meet the growing demand for entry-level information and communication technology (ICT) professionals. The curriculum covers the fundamentals of PC technology, networking, and security, and also provides an introduction to advanced concepts.

Students who complete this course will be able to describe the internal components of a computer, assemble a computer system, install an operating system, and troubleshoot using system tools and diagnostic software. Hands-on labs and Virtual Laptop and Virtual Desktop learning tools help students develop critical thinking and complex problem-solving skills. Cisco Packet Tracer simulation-based learning activities promote the exploration of network and networking security concepts and allow students to experiment with network behavior.

Name and type of organisation providing education and training | Internet Technology Academy – Brasov, Romania

Dates | **May 27-31, 2009**

Title of qualification awarded | **Completion Certificate - IRCA QMS Auditor/ Lead Auditor** (International Register of Certificated Auditors)  
Quality Management System Auditor/ Lead Auditor Course on ISO 9001:2008 Requirements

Name and type of organisation providing education and training | GLOBAL CERTIFICATION RO, Romania, official representative in Romania of Global Group United Kingdom - an independent certification body, inspection, and training with proven experience worldwide

Dates | **2008-2009**

Title of qualification awarded | CISCO CCNA Diploma

Principal subjects/occupational skills covered | **Cisco Networking Academy (CNA)** is a partnership between Cisco System, the worldwide leader in Networking, and various organizations (regional academies, local academies, test centers, etc.) aimed at preparing students for the design, analysis, and maintenance of network computers based on Cisco equipment and proprietary technologies and/or standard. Included modules: CCNA1 Exploration - Network Fundamentals, CCNA2 Exploration - Routing Protocols and Concepts, CCNA3 Exploration - LAN Switching and Wireless, CCNA4 Exploration - Accessing the WAN. Skills in installation, configuration, operation, troubleshooting, and improving the safety and performance of mid-size networks that use switches and routers.

Name and type of organisation providing education and training | Cisco Networking Academy - Advanced Technology Institute, Bloomfield College, USA

**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 |                  |         |                  |
| B2            | Independent user | B2      | Independent user | B1                 | Independent user | B1                | Independent user | B2      | Independent user |
| B1            | Independent user | B1      | Independent user | A1                 | Basic user       | A1                | Basic user       | A2      | Basic user       |

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

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|---------------------------------------|--|
| Social skills and competences         | <ul style="list-style-type: none"> <li>• Student guidance, mentoring, and counseling as a tutor and study program coordinator;</li> <li>• Communication skills and teamwork ability, proven in numerous projects as a member or project manager;</li> <li>• Training program coordinator between 2006-2007, international grant RO/2006/PL97023/PL, <i>Training the Students for Working in IT Intensive Technical Engineering Applications</i>, a project under the Leonardo da Vinci Programme;</li> <li>• Developing students and young researchers' skills for teamwork, project management, preparation of professional presentations, etc.;</li> <li>• Training students for excellence competitions (numerous awards obtained locally, nationally, and internationally).</li> </ul>   |
| Organisational skills and competences | <ul style="list-style-type: none"> <li>• Coordinator of the Leonardo da Vinci Brasov Regional Branch, as a projects expert (2003-2004). The work undertaken in the management of the Branch, in the center area of the country, involved promoting projects launched by competing, organizing regular meetings with the promoters of academic training and education, dissemination of results management, information management, and linking potential promoters and partners both at national and international level;</li> <li>• Director of two research-development-innovation contracts with third parties;</li> <li>• Director of two research projects, one within the Partnership Programme in priority areas, PCCA 2013, and the other one of Knowledge Transfer to the Company type, PNIII Bridge Grant, both won in national competitions;</li> <li>• 2004 - 2011 - Scientific Secretary of the Mechanical Engineering and Mechatronics Department, Mechanical Engineering Faculty;</li> <li>• 2004 - 2011 - Member of the Mechanical Engineering Faculty Council;</li> <li>• Since 2011 - Member of the Product Design and Environment Faculty Council, member of the Product Design, Mechatronics and Environment Department Council, IT faculty coordinator.</li> <li>• 2009 – 2011 - Scientific Secretary in the project contract no. POSDRU/2/1.2/S/1 "Quality assurance in higher education in Romania in the European context. Development of academic quality management system and institutional level", of the Romanian Agency for Quality Assurance in Higher Education – ARACIS. Evaluation missions at The Alexandru Ioan Cuza University of Iasi, The Târgu-Mures University of Theatre, Petru Maior University of Târgu Mures, National School of Political and Administrative Studies Bucharest, "Mihai Viteazul" National Intelligence Academy Bucharest, National University of Music Bucharest, University of Medicine and Pharmacy "Carol Davila" Bucharest, "Danubius" University of Galati.</li> <li>• Since 2014 - Secretary of the University Admission Commission;</li> <li>• Since October 2015 - Coordinator of the Mechatronics Bachelor study program;</li> <li>• Since February 2016 - Coordinator of the Advanced Mechatronic Systems Research Center;</li> <li>• November 2015 – March 2024 - Vice Dean for Scientific Research, IT and Quality Assurance, Faculty of Product Design and Environment;</li> <li>• Since April 2024 - Vice Dean for Quality Assurance and Internationalization, Faculty of Product Design and Environment;</li> <li>• Since March 2024 – the president of the Teaching Committee of the Senate of Transylvania University in Braşov.</li> </ul> |
| Technical skills and competences      | Competences and skills in the conception, design, realization, operation and maintenance of mechatronic systems (data acquisition, databases, command and control, etc.).  |
| Computer skills and competences       | <p>Special skills in hardware and software: debugging, optimization, computer maintenance, network design, programming in assembly language and high-level languages, database design, operating systems, office suites, Computer-Aided Design in the mechanical or electrical domain, and so on.</p> <p>Technical Consultant for IT, chairman or member of committees of competition for filling positions in IT, IT infrastructure coordinator of the department and the <i>Advanced Mechatronic Systems Research Center</i>, IT coordinator in the <i>Competence Center in Simulation and Analysis of Engineering Systems</i>, developed at the Transylvania University of Brasov with the company LMS International Belgium, actually Siemens Industry Software.</p>   |

**Additional information**

- Membership in professional and scientific associations:
  - Member, AGIR (General Association of Engineers in Romania);
  - Member, SROMECA (Romanian Association of Mechatronics);
  - Member, SRR (Robotics Society of Romania)
- Member of committee approval of research and development results in national research projects;
- Reviewer to publications printed in publishers recognized by The National University Research Council;
- Member of the organizing committee of national conferences;
- Member of the scientific committee of international conferences;
- Reviewer of the papers in international conferences.

Driving licence Category B

**References** Other references are available on request.

**Annexes** On request

Prof. Dr. Eng. Marius Cristian LUCULESCU

Braşov, 14.04.2024