

# Europass Curriculum Vitae



## Personal information

First name(s) / Surname(s) **Cristian, Constantin, MOLDER**

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[cristianmolder@mta.ro](mailto:cristianmolder@mta.ro)

Web <https://erris.gov.ro/LRSA>

Nationality Romanian

Date of birth **[REDACTED]**

Gender Male

Occupational field Research and education

## Work experience

Dates July 2016 onwards

Occupation or position held **Vice-dean for scientific research**

Main activities and responsibilities  
Scientific research planning  
Coordination of researchers in R&D programs  
Young researchers management  
Cooperation with similar research teams both civilian and defense

Name and address of employer  
Faculty of Electronics and Computer Science,  
Military Technical Academy, 39-49 George Coșbuc blvd., sector 5, Bucharest, Romania  
Phone.: +40 (0) 21 335 46 60, E-mail: [relatii publice@mta.ro](mailto:relatii publice@mta.ro), Website: [www.mta.ro](http://www.mta.ro)

Type of business or sector Research and education

Dates October 2013 onwards

Occupation or position held **Program coordinator of Master of Applied Electronics in Robotics for Security and Defense**

Main activities and responsibilities  
Master coordination  
Curricula management  
Lectures and laboratories  
- robotics and automation  
- embedded systems  
- command and control devices  
- robot vision  
- robot programming languages  
- graphical user interfaces

Name and address of employer  
Faculty of Electronics and Computer Science,  
Military Technical Academy, 39-49 George Coșbuc blvd., sector 5, Bucharest, Romania  
Phone.: +40 (0) 21 335 46 60, E-mail: [relatii publice@mta.ro](mailto:relatii publice@mta.ro), Website: [www.mta.ro](http://www.mta.ro)

Type of business or sector Research and education

Dates	October 2010 onwards
Occupation or position held	<b>Associate professor</b>
Main activities and responsibilities	Lectures and laboratories: <ul style="list-style-type: none"> <li>- robotics and automation</li> <li>- embedded systems</li> <li>- digital image processing</li> <li>- computer graphics</li> <li>- video surveillance systems</li> <li>- biometric systems</li> </ul>
Name and address of employer	Faculty of Electronics and Computer Science, Military Technical Academy, 39-49 George Coșbuc blvd., sector 5, Bucharest, Romania Phone.: +40 (0) 21 335 46 60, E-mail: relatii.publice@mta.ro, Website: www.mta.ro
Type of business or sector	Research and education
Dates	March 2007 – October 2010
Occupation or position held	<b>Lecturer</b>
Main activities and responsibilities	Lectures and laboratories: <ul style="list-style-type: none"> <li>- computer graphics</li> <li>- high level programming languages</li> <li>- applied informatics</li> <li>- pattern recognition and decision fusion (master)</li> </ul>
Name and address of employer	Faculty of Electronics and Computer Science, Military Technical Academy, 39-49 George Coșbuc blvd., sector 5, Bucharest, Romania Phone.: +40 (0) 21 335 46 60, E-mail: relatii.publice@mta.ro, Website: www.mta.ro
Type of business or sector	Research and education
Dates	July 2004 – March 2007
Occupation or position held	<b>Assistant professor</b>
Main activities and responsibilities	Lectures and laboratories: <ul style="list-style-type: none"> <li>- applied informatics</li> <li>- signals and systems</li> <li>- display systems</li> </ul>
Name and address of employer	Faculty of Electronics and Computer Science, Military Technical Academy, 39-49 George Coșbuc blvd., sector 5, Bucharest, Romania Phone.: +40 (0) 21 335 46 60, E-mail: relatii.publice@mta.ro, Website: www.mta.ro
Type of business or sector	Research and education
Dates	September 2000 – August 2002
Occupation or position held	<b>Research assistant</b>
Main activities and responsibilities	Scientific research in the fields of sonar signal processing, digital image processing, pattern recognition and expert systems
Name and address of employer	ENSTA Bretagne, 2 rue François Verny, 29806 Brest cedex 9, France Phone.: +33 (0) 2 98 34 88 00, Fax: +33 (0) 2 98 34 88 46, Website: <a href="http://www.ensta-bretagne.fr">http://www.ensta-bretagne.fr</a>
Type of business or sector	Research and education
<b>Education and training</b>	
Dates	January 2015
Title of qualification awarded	<b>3D Robotic Swarm Models for Visionair Integration (TNA Research Grant)</b>
Principal subjects/occupational skills covered	<ul style="list-style-type: none"> <li>- virtual reality, computer graphics</li> <li>- robot swarm</li> </ul>
Name and type of organisation providing education and training	3DICC Laboratory, MTA Sztaki, Budapest, Hungary
Level in national or international classification	ISCED level 6

Dates	August 2014
Title of qualification awarded	<b>FANUC training in robot vision applications design (ERASMUS LLP)</b>
Principal subjects/occupational skills covered	<ul style="list-style-type: none"> <li>- robot vision</li> <li>- camera calibration</li> <li>- iRVision programming</li> </ul>
Name and type of organisation providing education and training	FANUC Robotics, Hungary
Level in national or international classification	ISCED level 6
Dates	October-December 2013
Title of qualification awarded	<b>Graduation certificate in logistics</b>
Principal subjects/occupational skills covered	<ul style="list-style-type: none"> <li>- logistics</li> </ul>
Name and type of organisation providing education and training	Military Technical Academy, Bucharest, Romania
Level in national or international classification	ISCED level 6
Dates	April 2013
Title of qualification awarded	<b>FANUC industrial robot operator and programmer certification (ERASMUS LLP)</b>
Principal subjects/occupational skills covered	<ul style="list-style-type: none"> <li>- robot safety</li> <li>- industrial robot programming</li> <li>- robot programming languages</li> <li>- robot application design</li> </ul>
Name and type of organisation providing education and training	FANUC Robotics, Hungary
Level in national or international classification	ISCED level 6
Dates	October-December 2011
Title of qualification awarded	<b>Graduation certificate of electronic systems management</b>
Principal subjects/occupational skills covered	<ul style="list-style-type: none"> <li>- electronic systems management</li> </ul>
Name and type of organisation providing education and training	Military Technical Academy
Level in national or international classification	ISCED level 6
Dates	October – December 2011
Title of qualification awarded	<b>Graduation diploma – Management of electronic systems</b>
Principal subjects/occupational skills covered	<ul style="list-style-type: none"> <li>- management of electronic systems</li> </ul>
Name and type of organisation providing education and training	Military Technical Academy
Level in national or international classification	ISCED level 6
Dates	2002 – 2008
Title of qualification awarded	<b>PhD</b> ( <i>Scientific domain</i> : engineering, <i>Scientific field</i> : electronics and communications)

Principal subjects/occupational skills covered	<ul style="list-style-type: none"> <li>- digital image processing</li> <li>- pattern recognition</li> <li>- artificial intelligence</li> <li>- sonar signal processing</li> <li>- advanced signal processing</li> <li>- high-level programming</li> <li>- OCR / ALPR</li> </ul>
Name and type of organisation providing education and training	Military Technical Academy – Department of Military Electronic and Computer Systems
Level in national or international classification	ISCED level 6
Dates	March – October 2007
Title of qualification awarded	<b>Graduation certificate – Psycho-pedagogy</b>
Principal subjects/occupational skills covered	<ul style="list-style-type: none"> <li>- pedagogy</li> <li>- didactics</li> <li>- educational techniques</li> <li>- scholar psychology</li> </ul>
Name and type of organisation providing education and training	National Defense University “Carol I”, Bucharest, Romania
Level in national or international classification	ISCED level 6
Dates	March – June 2006
Title of qualification awarded	<b>Graduation diploma - Maintenance of electronic systems</b>
Principal subjects/occupational skills covered	<ul style="list-style-type: none"> <li>- military units logistics</li> <li>- military electronic systems logistics</li> <li>- information management for radio systems</li> <li>- military legislation</li> <li>- modern techniques for early warning and electronic warfare systems</li> </ul>
Name and type of organisation providing education and training	Military Technical Academy
Level in national or international classification	ISCED level 6
Dates	October 2003 – April 2004
Title of qualification awarded	<b>Intensive course of German language for beginners</b>
Principal subjects/occupational skills covered	STANAG 1/2 level
Name and type of organisation providing education and training	National Defense University “Carol I”, Bucharest, Romania – Dept. of foreign languages
Level in national or international classification	ISCED level 6
Dates	2000 – 2001
Title of qualification awarded	<b>Master of Applied Sciences</b> Domain: communications sciences and technologies
Principal subjects/occupational skills covered	<ul style="list-style-type: none"> <li>- advanced signal and image processing</li> <li>- digital communications</li> <li>- pattern recognition and neural networks</li> </ul>
Name and type of organisation providing education and training	Université de Bretagne Occidentale (UBO), Brest, Franța – Faculté de Sciences, Technologies, Santé
Level in national or international classification	ISCED level 6

Dates	1995 – 2000
Title of qualification awarded	<b>Engineer diploma and Officer license</b> Specialty: SAM radio-electronics
Principal subjects/occupational skills covered	<ul style="list-style-type: none"> <li>- mathematics and calculus</li> <li>- assembly and high level programming</li> <li>- analog and digital signal processing</li> <li>- analog and digital integrated circuits</li> <li>- microprocessor architectures</li> <li>- automatic systems and control theory</li> <li>- sensors and actuators</li> <li>- radio emitters and receivers</li> <li>- electronic circuit design</li> </ul>
Name and type of organisation providing education and training	Military Technical Academy – Department of Military Electronic and Computer Systems
Level in national or international classification	ISCED level 5B
Dates	1991 – 1995
Title of qualification awarded	<b>Baccalaureate diploma</b> Specialty: mathematics and physics
Principal subjects/occupational skills covered	<ul style="list-style-type: none"> <li>- mathematics</li> <li>- physics</li> <li>- programming</li> </ul>
Name and type of organisation providing education and training	“Costin D. Nenitescu” high school
Level in national or international classification	ISCED level 3
<b>Personal skills and competences</b>	
Mother tongue(s)	<b>Romanian</b>
Other language(s)	
Self-assessment	
<i>European level</i>	
<b>English</b>	
<b>French</b>	
<b>German</b>	
Social skills and competences	<ul style="list-style-type: none"> <li>- Team work : I've been working in various types of teams from research teams to sport</li> <li>- Leading skills : I've lead the SAM university group for 5 years</li> <li>- Intercultural skills : I'm experienced working with team members of different cultures in Europe</li> <li>- High level of adaptability and high resistance to stress</li> <li>- High level of objectivity and exigency : long time working in research and teaching</li> <li>- Highly communicative, sociable, high level of humor</li> </ul>
Organisational skills and competences	<ul style="list-style-type: none"> <li>- Organizing and rigorous : working in the military field since 1995, during studies and onwards</li> <li>- High analysis and synthesis skills</li> <li>- Coordinator of the robotics club in the Military Technical Academy</li> </ul>
Technical skills and competences	<ul style="list-style-type: none"> <li>- Hardware and software design of embedded &amp; robotics systems</li> <li>- Algorithm design of image processing, pattern recognition, computer vision</li> <li>- Design, simulation, and building of electronic circuits</li> <li>- Operation and programming of various robot systems</li> </ul>

Computer skills and competences	<ul style="list-style-type: none"> <li>- Competent with Microsoft Windows operating systems and Microsoft Office applications</li> <li>- Competent with text editing using the LaTeX language</li> <li>- Competent with design and simulation of electronic circuits in OrCAD and Proteus</li> <li>- Competent with programming high level applications in MATLAB</li> <li>- Competent with creating computer graphics applications in C and OpenGL</li> <li>- Competent with image processing in Corel Paint Shop Pro</li> <li>- Competent with vector design in CorelDRAW</li> <li>- Experienced internet user with Microsoft Internet Explorer, Mozilla Firefox and Google Chrome</li> <li>- Experienced in creating web pages with HTML and JavaScript</li> </ul>
Artistic skills and competences	Esthetics skills: creating designs and promotional materials
Other skills and competences	<ul style="list-style-type: none"> <li>- Member of NATO Group SAS-123/RTG - Futures Assessed alongside socio-Technical Evolutions</li> <li>- Scientific coordination of French cadets from Ecole de Saint-Cyr in scientific research scholarships</li> <li>- Electronics department ERAMUS coordinator</li> <li>- Member of the Military Electronic and Computer Systems Faculty Council</li> <li>- Member of the Senate of the Military Technical Academy</li> <li>- Member in the organizing committee of Communications conference from 2004 onwards</li> <li>- Organizer of the student scientific embedded systems &amp; robotics national contest 2014</li> <li>- Member of the AGIR (General Assembly of Romanian Engineers)</li> </ul>
Driving licence	A
<b>Additional information</b>	<p>PERSONAL INTERESTS</p> <p>Creating and painting models, learning about contemporary history, collecting stamps, numismatics, riding the motorcycle, listening to music, reading SF literature</p>
<b>Annexes</b>	1. List of works