



Europass Curriculum Vitae

Personal information

First name(s) / Surname(s) **Mircea Paul Muresan**

Address(es)

Telephone(s)

E-mail

Nationality

Date of birth

Gender **Male**

Work experience

Dates	August 2014 – 2019(present)
Occupation or position held	Research assistant Computer Vision department
Main activities and responsibilities	Research and development in computer vision regarding different topics (rectification, 3D reconstruction, 3D obstacle detection, classification, motion correction, data association, sensor fusion, tracking etc.), writing scientific papers, reviewing scientific articles, Communicating with project partners, developing code C++, python, CUDA development, ADTF.
Type of business or sector	IT, Research , Automotive
Name and address of employer	Technical University Cluj-Napoca
Dates	October 1 - 1 June (2014 – 2018)
Occupation or position held	Teaching assistant for the Design with Microprocessors, Computer Architecture and Data Structures and Algorithms laboratory
Main activities and responsibilities	Teaching, writing laboratory materials for students
Type of business or sector	Education
Name and address of employer	Technical University Cluj-Napoca
Dates	June – September (2015)
Occupation or position held	Software Engineer
Main activities and responsibilities	Developed a SGBM using various binary descriptors
Name and address of employer	Google Summer of Code, OpenCV
Dates	2010 - 2016
Occupation or position held	Microsoft Student Partner at the Technical University, Cluj-Napoca
Main activities and responsibilities	Application development and holding seminars using Microsoft technologies
Name and address of employer	Microsoft Student Partner, Technical University, Cluj-Napoca
Type of business or sector	IT Software

Dates	20 November – 25 December (2013)
Occupation or position held	Trainee, developer
Main activities and responsibilities	Software Development In python using eclipse
Type of business or sector	IT Software
Name and address of employer	HP Software Cluj
Dates	September 2013 – 2014 July
Occupation or position held	Undergraduate Research assistant in computer vision, developer
Main activities and responsibilities	Research and development of a software for pedestrian detection application using Far Infrared camera and different classifiers (Neural Networks, Ada boost) Reading articles, Visual studio C++ development, C# development and Open CV
Type of business or sector	IT Software
Name and address of employer	Technical University Cluj Napoca
Dates	July – August (2013)
Occupation or position held	Intern
Main activities and responsibilities	Web software development : CSS , html, asp .net, WCF , TFS, JavaScript , jQuery, SQL
Name and address of employer	UMT Software Cluj
Type of business or sector	IT Software
Dates	2010 - 2014
Occupation or position held	Freelancer
Main activities and responsibilities	Developed Hardware and Software solutions for various companies
Name and address of employer	Comunitary Foundation Cluj , EICar SRL Bistrita ,ElectricGroup Cluj , DeScris Penshop listaderechizite.ro Cluj etc.
Type of business or sector	IT Software , Hardware, Automation, Web development
Education and training	
Independent Courses	Stanford Online Machine Learning Course - Coursera, Fundamentals of Digital Image and Video Processing – Coursera, Self-Driving Car – Computer Vision and Deep Learning Track Sensor Fusion, Localization and Control - Udacity
Dates	2016-2018 (present)
Title of qualification awarded	PhD degree in Computer Vision
Principal subjects/occupational skills covered	Improving the measurement process using multiple sensors for autonomous systems, Data Association, Sensor fusion, Tracking, Calibration, Stereo-Correspondence, Deep learning solutions for tracking.
Name and type of organisation providing education and training	Technical University of Cluj-Napoca, Computer-Science
Dates	2014-2016
Title of qualification awarded	Master degree in Computer Vision
Principal subjects/occupational skills covered	Statistics, Computer Vision, Artificial Vision and Mobile Robots, Distributed Systems, Virtual Reality etc.

Name and type of organisation providing education and training	Technical University of Cluj-Napoca, Computer-Science																																																	
Dates	2010- 2014																																																	
Title of qualification awarded	Computer Science Engineer																																																	
Principal subjects/occupational skills covered	Acquisition of both software and hardware skills. Development of general engineering skills (Computer Programming, Data Structures and algorithms, Image Processing, Pattern Recognition, Computer Architecture, Design with Microprocessors, Software Design). All courses are taught in English.																																																	
Name and type of organisation providing education and training	Technical University of Cluj-Napoca, Computer-Science, English																																																	
Dates	2006 - 2010																																																	
Title of qualification awarded	Baccalaureate diploma																																																	
Principal subjects/occupational skills covered	Mathematics ,Computer Science, English, Physics																																																	
Name and type of organization providing education and training	Colegiul National "Liviu Rebreanu" from Bistrita, Computer Science branch																																																	
Personal skills and competences																																																		
Mother tongue(s)	Romanian																																																	
Other language(s)	1)English, 2)German																																																	
Self-assessment <i>European level (*)</i>	<table border="1"> <thead> <tr> <th colspan="4">Understanding</th> <th colspan="4">Speaking</th> <th colspan="2">Writing</th> </tr> <tr> <th colspan="2">Listening</th> <th colspan="2">Reading</th> <th colspan="2">Spoken interaction</th> <th colspan="2">Spoken production</th> <th colspan="2">Writing</th> </tr> </thead> <tbody> <tr> <td>C2</td> <td>Experienced user</td> <td>C2</td> <td>Experienced user</td> <td>C2</td> <td>Experienced user</td> <td>C2</td> <td>Experienced user</td> <td>C2</td> <td>Experienced user</td> </tr> <tr> <td>B1.1</td> <td>Independent User</td> <td>B1.1</td> <td>Independent User</td> <td>B1.1</td> <td>Independent User</td> <td>B1.1</td> <td>Independent User</td> <td>B1.1</td> <td>Independent User</td> </tr> </tbody> </table>										Understanding				Speaking				Writing		Listening		Reading		Spoken interaction		Spoken production		Writing		C2	Experienced user	C2	Experienced user	C2	Experienced user	C2	Experienced user	C2	Experienced user	B1.1	Independent User	B1.1	Independent User	B1.1	Independent User	B1.1	Independent User	B1.1	Independent User
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1)Language																																																		
2)Language																																																		
Personal skill and competences	<p>I have participated in over 60 computer science competitions in high school and university at which I received different distinctions (medals, prizes and mentions).</p> <p>Some of these contests from university are :</p> <p>International Math Contest Ariel University, Israel (Etapa I) - Silver Medal(2010)</p> <p>Traian Lalescu contest 2011 Local phase - 4th place.</p> <p>Infomatrix Hardware Control National Phase - Mention(4th place)(2011)</p> <p>International Math contest Ariel University, Israel (Etapa I) - Bronze medal(2011)</p> <p>Diligent Design (Hardware) Contest - Final European Phase - Mention(4th place) + Best Marketing Award(2012)</p> <p>International Software Contest Imprezio - 4th Edition - Honorable Mention(2012)</p> <p>ACM – participation at national phase etc.</p> <p>Honorary Distinction from Bistrita Nasaud County for promoting the image of the City at national and international level (2010).</p> <p>The subjects covered in the contests from high school were: Math, Computer Science, Astrophysics, Chemistry and Physics.</p> <p>Olimpiada Nationala de Fizica(2010), Olimpiada Nationala de Astrofizica(2009), Concursul National Infoeducatie Faza Nationala(2010)-Mentiune, Concursul de informatica aplicata (CIA -2010), Olimpiada de Matematica faza judeteana – Mentiune (2007- 2010), Concursul Interjudetean de Chimie aplicata (Chimia prieten sau dusman) – locul 4(Mentiune) etc.</p>																																																	
Social skills and competences	I am a friendly and energetic person that can adapt to any environment.																																																	

Technical skills and competences	Designing of electronic circuits with microcontrollers and FPGA boards, creation of autonomous robots, created laser measurement devices controlled with microcontrollers, worked with different types of sensors (position, IMU Sensors, optical sensors, gas sensors, pressure sensors etc.) I have also worked with different types of Microcontroller boards: Arduino (Dumilanove, Mini, Uno, Mega), Fez Domino, Digilent Chip Kit boards(Max32, Uno32), Olinuxino (A20, A13). Fpga Boards: Digilent Basys 2 board, Zybo board. GPU boards : Nvidia Tegra TK1.
Computer skills and competences	I have knowledge in different programming, markup and hardware description languages.
Other skills and competences	Team player, innovative spirit, good at working under pressure and finding optimal approaches to a problem, communication skills, creativity skills, responsibility, organizational and team leading skills
Driving licence	Category B
Hobbies	Computer Vision, Building robots, reading, socializing, going to conferences , sports, travelling, meeting new open minded people
Annex	