



Europass Curriculum Vitae



Personal information

First name(s) / Surname(s) **Bogdan BELEAN**
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Nationality Romanian
Date of birth 07.02.1983

Work experience

Dates	July 2011 – present
Occupation or position held	Scientific researcher – electronics and communication
Main activities and responsibilities	Design, simulation and testing for application specific hardware architectures for efficient LDPC decoding process; PDE for image processing; real time image and video processing.
Name and address of employer	National Institute for Research and Development of Isotopic and Molecular Technologies, 65 – 103 Donath, 400293, Cluj-Napoca, Romania
Type of business or sector	Research and development
Dates	October 2007 – April 2011
Occupation or position held	Research engineer
Main activities and responsibilities	Application specific hardware architectures for microarray image processing
Name and address of employer	Technical University of Cluj-Napoca, 28 Memorandumului, 400114, Cluj-Napoca, Romania
Type of business or sector	Research and development
Dates	October 2007 – September 2010
Occupation or position held	Research engineer – permanent member of research team within the project “Automated system for cDNA microarray image acquisition and processing”
Main activities and responsibilities	<ul style="list-style-type: none">- developing algorithms for automated microarray image processing (C++, OpenCV);- design, simulation and testing for application specific hardware architectures for image processing (- integrating the designed hardware architectures in a system on a chip- comparing the computational time of the proposed hardware architectures with the one obtain using a general purpose processor, in case of the developed image processing algorithms;- microarray image acquisition on FPGA boards using general purpose USB interface
Name and address of employer	Technical University of Cluj-Napoca, Str. Memorandumului no. 28, Cluj-Napoca
Type of business or sector	Research and development
Dates	November 2006 – October 2007
Occupation or position held	Software engineer
Main activities and responsibilities	Software development using Navision Axapta ERP solutions for Gericom Management and Production
Name and address of employer	Gericom AG, Linz, Austria
Type of business or sector	Engineering

Education and training

<p>Dates</p> <p>Title of qualification awarded</p> <p>Principal subjects</p> <p>Name and type of organisation</p>	<p>October 2007 – October 2010</p> <p>PhD in electronics and telecommunication engineering</p> <p>thesis: "Application specific hardware architectures for automated microarray image processing";</p> <p>Technical University of Cluj-Napoca, Communication Department</p>
<p>Dates</p> <p>Title of qualification awarded</p> <p>Principal subjects</p> <p>Name and type of organisation</p>	<p>October 2006 – July 2007</p> <p>Master of science</p> <p>Signal and image processing (language - French)</p> <p>thesis "Hardware architecture for automatic microarray image segmentation"</p> <p>Technical University of Cluj-Napoca, Communication Department</p>
<p>Dates</p> <p>Title of qualification awarded</p> <p>Name and type of organisation</p>	<p>October 2001 – July 2006</p> <p>Electronics and communication engineer</p> <p>Technical University of Cluj-Napoca</p>
<p>Dates</p> <p>Title of qualification awarded</p> <p>Principal subjects</p> <p>Dates</p> <p>Title of qualification awarded</p> <p>Principal subjects</p> <p>Name and type of organisation</p>	<p>January 2008 – January 2011</p> <p>BD research grant for doctoral fellowship awarded by National Council of Scientific Research</p> <p>"Novel approach for automatic cDNA microarray image processing"</p> <p>January 2011 – March 2011</p> <p>Training grant - awarded through contest by Agence Universitaire de la Francophonie</p> <p>Application specific hardware architectures for image processing</p> <p>IMS Laboratory ("Integration de Materiaux au Systemes"), University of Bordeaux 1, France.</p>
<p>Dates</p> <p>Title of qualification awarded</p> <p>Principal subjects</p> <p>Name and type of organisation</p>	<p>January 2012 – March 2012</p> <p>Training grant - awarded through contest by Agence Universitaire de la Francophonie</p> <p>Hardware architectures for LDPC error correcting codes</p> <p>IMS Laboratory ("Integration de Materiaux au Systemes"), University of Bordeaux 1, France.</p>
<p>Dates</p> <p>Title of qualification awarded</p> <p>Principal subjects</p> <p>Name and type of organisation</p>	<p>May 2015 – August 2015</p> <p>DAAD Advanced research grant</p> <p>Analysis of technologies for parallel processing of image data of stained HL tissue and automatic PDE based approach for CGH microarray image processing</p> <p>Goethe University, Frankfurt am Main, Department of Molecular Bioinformatics</p>

Personal skills and competences

Mother tongue(s) **Romanian**

Other language(s) **English, French**

Self-assessment
European level ()*

English

French

Understanding				Speaking				Writing	
Listening		Reading		Spoken interaction		Spoken production			
C1	Proficient user	C2	Proficient user	C1	Proficient user	C1	Proficient user	C2	Proficient user
B1	Independent user	B2	Independent user	B1	Independent user	B1	Independent user	B2	Independent user

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

Technical skills and competences

Signal and Image Processing, C++, Matlab;
Microarray image analysis, Time and frequency analysis for speech signals, Matlab;
Embedded FPGA design using MicroBlaze processors, VHDL language;
Modeling an AWGN digital communication channel for error protection using LDPC codes, C++;