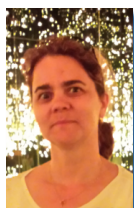


PERSONAL INFORMATION



ROXANA-MARIANA BEIU

Ciobanului Str. 22-22A, Bl. M1, Arad, 310298, România
 +40 (734) 189 577
roxana.beiu@uav.ro | rbeiu@yahoo.com
 Gender Female | Date of birth 10 November 1968 | Nationality Romanian

WORK EXPERIENCE

- 01/03/2019 – present **Senior Lecturer**
 “Aurel Vlaicu” University of Arad, Complex M, Str. Elena Dragoi nr. 2-4, 310330 Arad, Romania
 - Research & Teaching undergraduate courses
 Faculty of Food Engineering, Tourism and Environmental Protection
- 01/03/2017 – 30/02/2019 **Assistant Researcher**
 “Aurel Vlaicu” University of Arad, Complex M, Str. Elena Dragoi nr. 2-4, 310330 Arad, Romania
 - Research
 Research Center in Technical and Natural Sciences
- 01/10/2015 – 30/06/2016 **Adjunct Professor (Senior Lecturer level)**
 “Aurel Vlaicu” University of Arad, Complex M, Str. Elena Dragoi nr. 2-4, 310330 Arad, Romania
 - Teaching undergraduate courses
 Faculty of Food Engineering, Tourism and Environmental Protection
- 01/12/2015 – 31/10/2018 **Researcher on Projects:**
 “Aurel Vlaicu” University of Arad, Complex M, Str. Elena Dragoi nr. 2-4, 310330 Arad, Romania
 - Partnership Project: “Optical Coherence Tomography (OCT) systems with handheld and endoscope probes for real time investigations in material studies and for in vivo medical imaging” (<http://3om-group-optomechatronics.ro>) of the Romanian National Authority for Scientific Research
 - Handheld scanning probes with 1D and 2D galvoscaners for biomedical and industrial investigations using Optical Coherence Tomography (OCT) <http://3om-group-optomechatronics.ro/ptep181/>
 - Optomechatronic Choppers with rotational discs and shafts with windows for metrological, biomedical, and laser manufacturing applications <http://3om-group-optomechatronics.ro/bg297/>
 - Micro-Electro-Mechanical Systems (MEMS)-based handheld scanning probes for distortion-free biomedical imaging with Optical Coherence Tomography (OCT) <http://3om-group-optomechatronics.ro/pedp1937/>
 Faculty of Engineering – Professor’s Virgil Duma (3OM Optomechatronics Group)
- 01/09/2000 – 10/11/2007 **PhD Candidate**
 University “Politehnica” of Bucharest, Romania
 Faculty of Engineering and Management of Technological Systems
- 01/01/2003 – 30/07/2005 **PhD Candidate**
 Washington State University, Pullman, WA, USA
 - Took 3 exams, worked on 2 projects, and attended a seminar where I made a presentation on MEMS mirrors
 Veterinary and Comparative Anatomy, Pharmacology and Philosophy (VCAPP)
 School of Mechanical and Materials Engineering
- 01/01/2003 – 30/07/2005 **Teaching Assistant (TA)**
 Washington State University, Pullman, WA, USA
 - Involved in teaching ME220 “Mechanics of Materials – ME 220”
 School of Mechanical and Materials Engineering

01/01/2003 – 30/07/2005 **Research Assistant (RA)**
 Washington State University, Pullman, WA, USA
 ▪ I worked in “David Rector’s Lab” on developing new non-invasive brain measurement techniques. I was involved in researching dedicated optical systems for measuring nerve bundles swelling triggered by action potential.

015/05/1995 – 30/05/2001 **Research Engineer**
 Institute of Advanced Technologies, PO Box 1-946, RO-721361 Bucharest, Romania
 ▪ I worked for six years in R&D Department for Fine Mechanics and Optics. There I investigated various optical and mechanical devices, and have designed different apparatus including: optical systems (lens with large aperture, as well as lens for: video, TV cameras, and night vision devices), mechanical and optical accessories for photographic equipment and film processing tools.
 R&D Photo and Optical Devices Department

EDUCATION AND TRAINING

01/09/2000 – 10/11/2007 **PhD - Engineering**
 University “Politehnica” of Bucharest (Bucharest, Romania)
 Faculty of Engineering and Management of Technological Systems
 Nanotechnologies and Unconventional Systems

01/01/2003 – 30/07/2005 **PhD Candidate**
 Washington State University (Pullman, WA, USA)
 School of Mechanical and Materials Engineering
 Veterinary and Comparative Anatomy, Pharmacology and Philosophy (VCAPP)

01/01/1994 – 30/06/1994 **MSc Mechanics**
 University “Politehnica” of Bucharest (Bucharest, Romania)
 Faculty of Mechanical Engineering
 Precision Mechanics Specialization

01/10/1989 – 30/12/1993 **BSc Mechanics**
 University “Politehnica” of Bucharest (Bucharest, Romania)
 Faculty of Mechanical Engineering
 Precision Mechanics Specialization

01/2002 GRE Exam
 10/2001 TOEFL Exam
 03/1997 Specialization on
 “Optical Correlation Applied to Pattern Recognition”
 University “Politehnica” of Bucharest, Romania

PERSONAL SKILLS

Mother tongue(s) Other language(s)	UNDERSTANDING		SPEAKING		WRITING
	Listening	Reading	Spoken interaction	Spoken production	
English	C1	C1	C1	C1	C1
TOEFL (October 2001): 227 (equivalent to 567 for the written test)					
French	B1	B1	B1	B1	B1

Levels: A1/A2: Basic user - B1/B2: Independent user - C1/C2: Proficient user
[Common European Framework of Reference for Languages](#)

Communication skills ▪ Enhanced through study-abroad experience (PhD candidate), and refined and rounded off through work-abroad experiences (Teaching Assistant and Research Assistant)

Organisational / managerial skills ▪ I was involved in teaching ME220 *Mechanics of Materials* as a Teaching Assistant
 ▪ Organized a conference, “The Third Annual Mechanical Engineering Graduate Symposium School of Mechanical and Materials Engineering,” Washington State University Pullman, WA, USA, Apr. 2003

Digital competence

	Information processing	Communication	SELF-ASSESSMENT Content creation	Safety	Problem solving
	Independent User	Independent User	Independent User	Independent User	Independent User

Levels: Basic user - Independent user - Proficient user

[Digital competences - Self-assessment grid](#)

- Very good command of office suite (word processor, spread sheet, presentation software)
- Very good command of photo editing software (Adobe Photoshop, Corel DRAW)
- Good knowledge of mathematical-based simulation packages (Matlab, EMEplorer, OptiFDTD)

Other skills ▪ Art crafting, painting, travelling, taking pictures

Driving licence B (since 2001)

ADDITIONAL INFORMATION

Publications	2 books		
	8 journals	2 ISI (IF = 1.637, IF = 3.307)	6 BDI
	15 conferences	10 ISI	5 BDI
Presentations	2		
Other Conferences	13		
Citations	23 citations		
Courses	3 courses	WSU: ME220 – “Mechanics of Materials” UAV: EIME – “Elemente de Inginerie Mecanica si Electrica” APTB – “Automatizarea Proceselor Tehnologice si Biotehnologice”	
Projects	5 research projects:		
	2003 – 2005 : Washington State University, USA		
	▪ “Developing new non-invasive brain measurement techniques,” VCAPP http://ipn.vetmed.wsu.edu/neuroscience		
	2015 – 2018: “Aurel Vlaicu” University of Arad, Romania		
	▪ <i>Optical Coherence Tomography (OCT) systems with handheld and endoscope probes for real time investigations in material studies and for in vivo medical imaging</i> (http://3om-group-optomechatronics.ro/pp1682/) of the Romanian National Authority for Scientific Research		
	▪ <i>Handheld scanning probes with 1D and 2D galvoscaners for biomedical and industrial investigations using Optical Coherence Tomography (OCT)</i> http://3om-group-optomechatronics.ro/ptep181/		
	▪ <i>Optomechatronic Choppers with rotational discs and shafts with windows for metrological, biomedical, and laser manufacturing applications</i> http://3om-group-optomechatronics.ro/bg297/		
	▪ <i>Micro-Electro-Mechanical Systems (MEMS)-based handheld scanning probes for distortion-free biomedical imaging with Optical Coherence Tomography (OCT)</i> http://3om-group-optomechatronics.ro/pedp1937/		