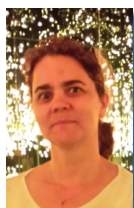





PERSONAL INFORMATION



Roxana-Mariana Beiu

 Sinaia Str. nr. 3, Arad, 310084, Romania
 +40 (734) 189 577
 roxana.beiu@uav.ro | rbeiu@yahoo.com
Sex Female | **Date of birth** 10 November 1968 | **Nationality** Romanian

WORK EXPERIENCE

- 01/10/2016 – 30/06/2017 **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
- 01/03/2017 – 30/02/2019 **Assistant Researcher**
 “Aurel Vlaicu” University of Arad, Complex M, Str. Elena Dragoi nr. 2-4, 310330 Arad, Romania
Research Center in Technical and Natural Sciences
- 01/12/2015 – 31/12/2018 **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.
Veterinary and Comparative Anatomy, Pharmacology and Philosophy (VCAPP)

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)

Romanian

Other language(s)

English

French

	UNDERSTANDING		SPEAKING		WRITING
	Listening	Reading	Spoken interaction	Spoken production	
English	C1	C1	C1	C1	C1
French	B1	B1	B1	B1	B1

TOEFL (October 2001): 227 (equivalent to 567 for the written test)

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, EMExplorer, OptiFDTD)

Other skills

- Art crafting, painting, travelling.

Driving licence

B (since 2001)

ADDITIONAL INFORMATION

Publications	1 book		
	7 journals	1 ISI (IF = 1.637)	6 BDI
	8 conferences	7 ISI	1 BDI
Presentations	2		
Other Conferences	9		
Citations	30 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:		
	<ul style="list-style-type: none"> ▪ 2003-2005: "Developing new non-invasive brain measurement techniques," VCAPP, WSU, USA http://jpn.vetmed.wsu.edu/neuroscience ▪ 2015-2016: "Optical Coherence Tomography (OCT) systems with handheld and endoscope probes for real time investigations in material studies and for in vivo medical imaging" ▪ 2016-2018: "Optomechatronic Choppers with rotational discs and shafts with windows for metrological, biomedical, and laser manufacturing applications" (http://3om-group-optomechatronics.ro/bg297/) ▪ 2016-2018: "Handheld scanning probes with 1D and 2D galvoscaners for biomedical and industrial investigations using Optical Coherence Tomography (OCT)" (http://3om-group-optomechatronics.ro/pte181/) ▪ 2017-2018: " Micro-Electro-Mechanical Systems (MEMS)-based handheld scanning probes for distortion-free biomedical imaging with Optical Coherence Tomography ". http://3om-group-optomechatronics.ro/pedp1937/ 		

Date: April 6, 2016

Roxana Beiu

