



Ioana-Carmen Bogliș

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EDUCATION AND TRAINING

30 SEP 2017 – SEP 2023 Bucharest

PHD University POLITEHNICA of Bucharest

Automatic control of launching vehicle (adaptive control)

12 JAN 2020 – 16 JAN 2020

ESA ACADEMY CONCURRENT ENGINEERING WORKSHOP

part of the AOCS- Attitude Orbit Control System for a nano-satellite team

NOV 2017 – 6 JUN 2018

PSYCHO-PEDAGOGICAL TRAINING PROGRAM, LEVEL II (IN-DEPTH) CERTIFICATION FOR THE TEACHING PROFESSION National Defence University, Bucharest (Romania)

31 MAR 2017 – 1 JUN 2017

MISSION IN PORTUGAL TO BASE AÉREA Nº 5, MONTEREAL, PORTUGAL

Training course on F-16 avionics maintenance procedures

JAN 2017 – JUL 2017

PROGRAM OF PSYCHO-PEDAGOGICAL STUDIES, LEVEL I (INITIAL) CERTIFICATION FOR THE TEACHING PROFESSION National Defence University, Bucharest (Romania)

30 SEP 2015 – JUL 2017 Bucuresti, Romania

MASTER- AEROSPATIAL ENGINEERING Military Technical Academy

Masters Thesis:

INTEGRATED SYSTEMS FOR DATA DISPLAY IN THE COCKPIT

30 SEP 2016 – 14 DEC 2016

BURSA ERASMUS 3 MONTH INTERNSHIP Universidad del Pais Vasco, Bilbao (Spain)

Research topic: BLADE TIP TIMING AND TIP CLEARANCE

2015 Bucuresti, Romania

COURSE- HOW TO ELABORATE AN EUROPEAN PROJECT Universitatea Politehnica din București

14 OCT 2015 – 30 DEC 2015

DETACHED TO THE AERIAL MILITARY BASE FOR TRANSPORT 90, OTOPENI, BUCHAREST

Training course on C-130(Hercules) and C-27J(Spartan) aircraft maintenance procedures

2010 – 2015 Bucharest, Romania

BACHELOR DIPLOMA – " ELECTRICAL EQUIPMENT AND AIRCRAFT SYSTEMS" VALEDICTORIAN Military Technical Academy "Ferdinand I"

Main Courses: Aerodynamics, Aircrafts Construction, Propulsion Systems of Aircrafts, Aircrafts Board Equipment, Automatic Systems, Automatic Control of Aircrafts, Gyroscopic Systems, Radio-transmitting and Radio-receiving

Systems, Radio Communication Systems, Air Navigation Systems, Radar Systems, Electronic Devices and Circuits, Electric Motors and Generators, Structure of Microcontrollers.
Softwares: Computer-aided Design CATIA, Circuit Simulation Software: ARDUINO, Programming Software: C++, MATLAB.
Diploma Project: DESIGN OF AN INTEGRATED SYSTEM FOR COLLECTION AND DISPLAY OF BOARD INFORMATION ON MULTIFUNCTIONAL DISPLAY M.F.D.

28 FEB 2014 – 31 MAY 2014
BURSA ERASMUS 3 MONTH INTERNSHIP L’université de Pau et des Pays de l’Adour, Pau (France)

Research topic: "La réalisation d'une commande déportée (éloignée) pour une alimentation haute tension du commerce"

2006 – 2011 Câmpulung Moldovenesc
HIGH SCHOOL DIPLOMA Colegiul Național Militar "Ștefan cel Mare"

Real branch, Mathematics - Informatics

● **WORK EXPERIENCE**

-  **MILITARY TECHNICAL ACADEMY** – BUCHARES, ROMANIA
ENGINEERING LECTURER – 1 OCT 2024 – CURRENT
-  **MILITARY TECHNICAL ACADEMY "FERDINAND I"** – BUCHAREST
HEAD OF INTEGRATED AVIATION SYSTEMS LABORATORY – 1 DEC 2021 – 1 OCT 2024
-  **ASTOS SOLUTIONS SRL** – BUCHAREST
AEROSPACE ENGINEER – NOV 2020 – NOV 2024
-  **MILITARY TECHNICAL ACADEMY** – BUCHAREST, ROMANIA
SPECIALIST OFFICER – 26 JUL 2015 – DEC 2021

Scientific Research
Teaching activities

● **LANGUAGE SKILLS**

Mother tongue(s): **ROMANIAN**
Other language(s):

	UNDERSTANDING		SPEAKING		WRITING
	Listening	Reading	Spoken production	Spoken interaction	
ENGLISH	C1	C1	B2	B2	B2
FRENCH	A2	B1	A2	A2	A2
SPANISH	B1	B1	A1	A2	A1

Levels: A1 and A2: Basic user; B1 and B2: Independent user; C1 and C2: Proficient user

● **SKILLS**

Matlab modelling programming and simulating | Familiar with ANSYS CATIA Proteus | Good command in office suites (Word Excel Power Point)

● **PUBLICATIONS**

Publications

Ioana-Carmen BOGLIȘ, Anca BELEGA, and Andra NEGRU, *Comparative Analysis of Flight Control Systems for Launching Vehicles*, JOURNAL OF MILITARY TECHNOLOGY, Vol. 2, No. 1, ISSN: 2601-6613, Jun 2019, Bucharest, Romania

Ioana-Carmen Boglis, Adrian M. Stoica, *Model Reference Adaptive Control Design for the VEGA Launch Vehicle*, The 7th IEEE International Conference on E-Health and Bioengineering - EHB 2019 Grigore T. Popa University of Medicine and Pharmacy, Iasi, Romania, November 21-23, 2019

Ioana-Carmen Boglis, Adrian M. Stoica (2020), *Attenuation of the effects produced by the bending modes of a flexible launch vehicle using second order filters*, Technium: Romanian Journal of Applied Sciences and Technology, 2(1), 48-55.

Ioana-Carmen Boglis, *Adaptive control system: A robust multi model adaptive control for launching vehicles*, 71st International Astronautical Congress 2020 (accepted paper).

Andra TOFAN-NEGRU, Cristian BARBU, Amado STEFAN, **Ioana-Carmen BOGLIS**, *Analysis and characterization of additive manufacturing processes*, pp. 167-180, Volume 13 Issue 4/2021, INCAS BULLETIN, <https://doi.org/10.13111/2066-8201.2021.13.4.14>

Bianca-Gabriela Antofie, Cristian VIDAN, **Ioana-Carmen Boglis**, Ciprian-Marius Larco, Grigorie Teodor Lucian, *Wavelet denoising method for improving the accuracy of attitude determination in miniaturized space applications*, 2023, 27th International Conference on System Theory, Control and Computing (ICSTCC), Timisoara, Romania, 2023, pp. 42-49, doi: 10.1109/ICSTCC59206.2023.10308459.

Stefan-Mircea MUSTATA, Cristian VIDAN, Ciprian-Marius LARCO, **Carmen-Ioana BOGLIS**, Bianca-Gabriela ANTOFIE, *Overview of the technologies used in the fabrication of MEMS/NEMS actuators for space applications*, INCAS Bulletin, Volume 15, Issue 3/2023.

● CONFERENCES AND SEMINARS

Conferences

First PLace - Students' International Conference "CERC 2012"- Military Technical Academy- Section: Foreign Languages
Participation -Students' International Conference "CERC 2012"- Military Technical Academy- Section: Technology
Second place - Students' International Conference "CERC 2013"- Military Technical Academy- Section: Foreign Languages
Partipation -Students' International Conference "CERC 2015"- Military Technical Academy- Section: Electrical Engineering and Electronic Systems

● PROJECTS

Projects

Project manager- "Development of a trajectory algorithm for the guidance system of self-directed missiles with high speed and precision"- A PSCD contract (Sectorial Plan for Research and Development) for SMFA (Romanian Air Forces),Jan-Dec 2017

Team member- "Experimental platform for testing and evaluation of equipment and systems compatible with the communication standard MIL-STD-1553" – technical demonstrator, March 2019 – Dec 2021.

Project manager- „Satelit de mici dimensiuni pentru imagini de înaltă rezoluție”, Planul Sectorial de Cercetare-Dezvoltare al MapN, 2022

● COMPETITIONS

Competitions

Third place - National Mechanics Students Competition "Andrei G. Ioachimescu"-2013

● MANAGEMENT AND LEADERSHIP SKILLS

Main member (national representative) in AHWG Space (Ad-Hoc Working Group)- European Defence Agency

● ORGANISATIONAL SKILLS

Organisational skills

- Strong sense of leadership;
- Highly organized;
- Dynamic;
- Excellent planning skills with great attention to detail and ability to prioritize work.

● **COMMUNICATION AND INTERPERSONAL SKILLS**

Communication and interpersonal skills

- Thrive in a team environment and work well with others
- Enjoy working as a team member as well as independently
- Proficient in using technology to enhance data and information management
- Self-motivated, hard-working individual

Boglis