




Curriculum Vitae

PERSONAL INFORMATION

Ioana-Raluca ADOCHIEI

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CURRENT POSITION

Since October 2013

Lecturer, PhD. Eng.

Department of Aircraft Integrated Systems and Mechanics
Faculty of Mechatronics and Integrated Armament Systems
Military Technical Academy

WORK EXPERIENCE

January 2014 –
February 2014

Erasmus Mobility for Teachers (European Internship)

Jena University of Applied Sciences (Ernst-Abbe-Fachhochschule Jena), Thuringia, Jena (Germany)

Financing program: ERASMUS Bilateral Agreement: 2013 – 2014

January 2012 –
August 2012

PhD. Student Engineer (European Internship)

Jena University of Applied Sciences (Ernst-Abbe-Fachhochschule Jena), Thuringia, Jena (Germany)

Signal processing

- Design, development and testing new software architectures
- Data acquisition and signal processing and interpretation
- Carry out experimental research and publishing articles in specialized journals
- Writing research grant applications

October 2009 –
November 2012

PhD. Student Engineer

“Politehnica” University of Bucharest (Technical University), Bucharest (Romania)

“Research regarding the use of micro and nano-sensors in inertial navigation”

- Developing new micro and nanosensors and inertial measurement units architectures using intelligent controls
- Design, implementation and testing of new software algorithms
- Experimental validation and performance evaluation
- Artificial Intelligence developments and improvements
- Data acquisition and signal processing and interpretation
- Conducting experimental research & publishing articles in specialized journals
- Development of research projects & writing research grant applications
- Project Management

Business or sector Research & Education

August 2010 –
August 2013

Research engineer

University of Craiova, Craiova (Romania)

“High-precision strap-down inertial navigators, based on the connection and adaptive integration of the nano and micro inertial sensors in low cost networks, with a high degree of redundancy”, European Project type PN II-RU 1/28.07.2010

Business or sector Research & Education

November 2012 – November 2014 **Research engineer**
University of Craiova (in collaboration and the Romanian Space Agency (ROSA)), Craiova (Romania)
“High-Precision Micro And Nano Smart Sensors For Space Inertial Navigation Applications”, Space Technology and Advanced Research (STAR) - Program for Research, Development and Innovation, European Project No. 27/19.11.2012

- Solving scientific and technical problems of high interest and modernity, by means of original research
- Developments in Artificial Intelligence
- Developing new software architectures of sensors using intelligent controls
- Experimental validation and performance evaluation of data fusion algorithms

[Business or sector Research & Education](#)

May 2008 – March 2013 **Engineer**
IPROLAM S.A, Bucharest (Romania)
The Department of Electric Drives, Installations, Automation and Computer - Controlled Processes

EDUCATION AND TRAINING

January 2012 – August 2012 **PhD Exchange Program (European Internship)**
Jena University of Applied Sciences (Ernst-Abbe-Fachhochschule Jena), Thuringia, Jena (Germany)
Biomedical Engineering (Medizintechnik Department)

- Design, development and testing new software architectures
- Data acquisition and signal processing and interpretation

[From 01.2013 – present → in Jena \(same department\) - Research Engineer \(volunteer\).](#)

October 2009 – October 2012 **PhD Student**
Electrical Engineering and Avionics, Inertial Navigation Systems, Micro and Nano Sensors, Embedded systems
“Politehnica” University of Bucharest (Technical University), Bucharest (Romania)

- Design, development and testing new software architectures
- Experimental validation and performance evaluation of the new developed algorithms
- Developments and improvements in Artificial Intelligence field
- Data acquisition and signal processing and interpretation

September 2008 – June 2010 **Master Degree**
“Politehnica” University of Bucharest (Technical University), Bucharest (Romania)
Electrical Engineering, Smart sensors, Distributed measurements and information security systems

- Smart sensors, Power electronics and intelligent electrical drives, Advanced electric systems
- Informatics in electrical engineering, Instrumentation and advanced measurements systems

September 2003 – July 2008 **Diploma Engineer**
“Politehnica” University of Bucharest (Technical University), Bucharest (Romania)
Electrical Engineering, specialization Electrical Drives

- Electric systems, Power electronics and electrical drives, electrical machines, Electric and Electronic Measurements & Metrology and measurement of data systems, Instrumentation, data acquisition, signal processing, Microprocessors and Microprocessor Systems

PERSONAL SKILLS

Mother tongue(s) Romanian

Other language(s)	UNDERSTANDING		SPEAKING		WRITING
	Listening	Reading	Spoken interaction	Spoken production	
English	C2	C2	C2	C2	C2
French	B1	B1	B1	B1	B1
German	A2.2	A2.2	A2.2	A2.2	A2.2

- Computer skills**
- Good knowledge of Engineering Calculation Software (Matlab/Simulink, C, C++, AutoCAD, LabVIEW, Simatic Step 7,)
 - Good command of Microsoft Office™ tools (Word™, Excel™ and PowerPoint™)
 - Good knowledge of graphic design application Eplan Electric 5, AutoSketch, Corel Draw,
 - "Circuits and Electronics 6.002x" MIT diploma owner, offered by Harvard University and MASSACHUSETTS INSTITUTE OF TECHNOLOGY
<https://verify.edxonline.org/cert/0a678fad727a4d43b24440cab714feac>
 - Graduated SIMATIC S7 PRO1 course: SIMATIC S7 - PROGRAMMING PART 1

- Communication skills**
- *Reviewer for Science Publishing Corporation, Greifsalder Platz 7, 28239, Bremen, Germany*
 - *Activity as a Communication and PR Consultant in the NGO "League of Romanian Students Abroad", German Department*
 - *Ability of communication and to adapt to multicultural environments acquired through life experience and improved by work experience abroad (almost 10 months in Jena and 6 months in Krefeld (North Rhine-Westphalia) as Electrical Engineer)*

- Organisational / managerial skills**
- 2017-2019 – Project manager (responsible) of "Stratospheric platform for observation, testing and research of aerospace systems (STRATOTEST)" project, funded by the Research-Development-Innovation Program for Space Technology and Advanced Research - STAR CDI program of the Romanian Space Agency, Contract no. 70/20.07.2017 (20.07.2017-31.04.2019)
 - *Experience in projects and team management gained through the involvement as Research Engineer in the management of several european projects funded by the European Community and Ministry of Education, Research, Youth and Sports :*
 - ✚ 2010 – 2013 - "Research projects to stimulate the formation of young independent research teams", European project type PN II-RU 1/28.07.2010
 - ✚ 2012 – 2014 - High-Precision Micro And Nano Smart Sensors For Space Inertial Navigation Applications", Space Technology & Advanced Research (STAR), Eu Project No. 27/19.11.2012
 - ✚ 2011 – 2012 - "South-East European Transmission System Operators challenges" (SEETSCO), European Grant nr. 239453/ FP7-ENERGY-2008-TREN-

- Job-related skills**
- Good skills in research, software techniques, laboratory techniques, data acquisitions and data management, planning and control processes, project management

- Interpersonal skills**
- Cross-cultural skills, listening, collaborative, friendly, supportive, advocating/representing others, establishing relationships, leading.

Favourite quote *„Logic will get you from A to B. Imagination will take you everywhere.”*
Albert Einstein