PERSONAL INFORMATION

Vasile-Gabriel Iana

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Sex male | Date of birth 01/05/1975 | Nationality Romanian

WORK EXPERIENCE

2019 - Present

Professor Associate

University of Pitesti, str. Targul din Vale, no. 1, Pitesti, 110040
Department of Electronics, Computers and Electrical engineering (www.upit.ro)
Research and teaching in Computers, Electronics and Telecommunication fields
Business or sector University education and research

2014 - Present

Researcher
Mira Technologies, Str. Dna. Ghica, no. 12, sector 2, Bucharest, Romania
R&D (www.miratelecom.ro)
Research in Computers, Electronics and Telecommunication fields
Business or sector Research and Development

2005 - 2019

Lecturer

University of Pitesti, str. Targul din Vale, no. 1, Pitesti, 110040
Department of Electronics, Computers and Electrical engineering (www.upit.ro)
Research and teaching in Computers, Electronics and Telecommunication fields
Business or sector University education and research

2005 - 2000

Assistant

University of Pitesti, str. Targul din Vale, no. 1, Pitesti, 110040
Department of Electronics, Computers and Electrical engineering (www.upit.ro)
Research and teaching in Computers, Electronics and Telecommunication fields
Business or sector University education and research

EDUCATION AND TRAINING

2000-2004

PhD. in Electronics and Telecommunications

University of Pitesti , Romania
Developing Hardware Systems (Structures) for Digital Signal Processing

1999-2000

Postgraduate in Electronics

University of Pitesti , Romania
Modelling and Implementation of VLSI structures

1994-1999

Engineer in Electronics

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University of Pitesti , Romania
Applied Electronics

PERSONAL SKILLS

Mother tongue(s): Romanian

Other language(s)

	UNDERSTANDING		SPEAKING		WRITING
	Listening	Reading	Spoken interaction	Spoken production	
English	B2	B2	B2	B2	B2
French	B2	B2	B2	B2	B2

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

Communication skills
- good communication skills gained through my experience as teacher and projects manager

Organisational / managerial skills
- leadership in projects manager

Digital competence

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

Levels: Basic user - Independent user - Proficient user
Digital competences - Self-assessment grid

Computer and Technical skills and competences

- Design of embedded systems specializing in signal acquisition and processing (Analog Devices, Texas Instruments)
- Modeling and design of algorithms in the field of digital signal processing
- Programming with hardware description language FPGA structures (VHDL –language, XILINX hardware structures, Xilinx ISE tools, Aldec tools)
- Programing in C/C++, algebraic and assembly language embedded systems (microcontrollers from Atmel, Texas Instruments, Hitachi, Renesas, Microchip)
- MATLAB, LabVIEW, MPLAB, CSTUDIO, IAR Workbench Studio, PROTEUS, LTSpice, Multisim knowledge
- Designing analogic systems (low noise amplifier, active and passive filter, RF switching);
- Designing microsystems with microcontrollers (from Atmel, Zilog, Texas Instrument, Hitachi, Renesas, Microchip)
- PCB designing in Orcad (PSPICE, Capture, Layout), EAGLE CadSoft, , PROTEL
- VoIP systems knowledge

Driving licence: B

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ADDITIONAL INFORMATION

I was involved in designing complex systems in very low noise technologies to detect and processing the signals with amplitude up to 10nV (POS CCE project “The use of nuclear quadruple resonance method to produce equipment for detection of drugs and explosives - DESMTEH” - MIRATELECOM);

systems based on signal-analytics to identify patterns from vibration sensors to identifier the cars and persons (System for acquisition, monitoring, analysis and identification of vibration for protection of critical infrastructure (SmartVibes) - PN-III P2-2.1-PTE-2016-0215 as Project Director in MIRATELECOM; member in project Advanced Protection of critical buildings by Overall anticipating System -ARGOS”, Call identifier: FP7-SEC-2012-1 in MIRATELECOM;

Using the skills of low-noise and ultra-low-power technologies and signal processing techniques it was implied in development of a system capable to detect TNT(Developing of an multiple and selective detection sensor for representative explosives, 2015-2016, Finanted by UEFISCDI, contract PN-II-PCCA-2013-4-0474).

I was involved in the design of microprocessor and microcontroller microsystems (participation in the hardware and software design of the SUPERTAX101F-A charging device that was manufactured and sold by TRION SA to more than 10,000 for Romania, Moldova and Israel, designing an electronic digital timer for transport vehicles and passengers through the AMTRANS program);

I also was implied in designing systems with reprogrammable hardware structures (systems control at very high speed, cryptographic systems TDES, RSA, SHA, sigma-delta modulators); systems interfacing with peripherals microsystems (designing to an acquisition system with 3D accelerometer for measuring stratospheric of the Mars planet by AEROSPACE program);

In the period 18.02-01-03.2013 I graduated the Patent Inventions and Utility Models module of the industrial property training course, organized by OSIM

Projects

I participated as manager in the following projects:

1. "Vibration Acquisition, Monitoring, Analysis and Vibration Recognition for Critical Infrastructure Protection (SmartVibes)", 2016-2018, Program 2 Increasing the Competitiveness of the Romanian Economy through Research, Development and Innovation, Subprogram 2.1. Competitiveness through Research, Development and Innovation - Transfer Project to Economic Operator, PN-III-P2-2.1-PTE-2016-0215 (Project Manager)
2. "Test of the speaker system in terms of feasibility, quality and cost. Theoretical evaluation & documentation of concept ", Financing: S.C. DPR Draexlmaier Processes of Production Romania SRL, Beneficiary S.C. DPR Draexlmaier Processes of Production Romania SRL, Contract no. : 6 / 21.01.2014, Nr. Reg. 5 / 24.01.2014, Val: 21194EUR with VAT (Project Manager)
3. "Developing a Sensor for Multiple and Selective Detection of Representative Explosives", run 2014-2017, Financed by UEFISCDI, contract PN-II-PCCA-2013-4-0474. (Partner responsible)

I participated as a member in 14 national research projects and an FP7 international research project

Publications

I participated as author / co-author at the editing:

- 8 textbooks / books with ISBN
- 4 ISI indexed items;
- 19 scientific papers published at ISI-listed conferences;
- 55 papers with scientific contributions..

Patents

I participated as an inventor in the filing of 5 national patent applications and a request for a WIPO patent:

1. Zaharia Aurelian, Apostol Marian, Ionita Silviu, Iana Gabriel, "MOBILE DETECTOR AND METHOD FOR DETECTING SUBSTANCES WITH EXPLOSION HAZARD, EXPLOSIVES AND DRUGS BASED ON NUCLEAR QUADRUPOLE RESONANCE", (Patent No. RO131585 (B1) — 2019-04-30)

2. Gavriloaia Gheorghe, Serban Gheorghe, Iana Gabriel, "Apparatus and method of evaluation with high resolution of spatial distribution of temperature on the surface of the human body", patented (OSIM application no: a201101246 of 28.11.2011)
3. Bizon Nicu, Oproescu Mihai, Iana Vasile Gabriel, "Device and method of searching the power extremes for photovoltaic panels", pending (patent application no. A201500228 of 30.03.2015)
4. Zaharia Aurelian, Apostol Marian, Ionita Silviu, Iana Gabriel, ..., "Mobile detector and method for the detection of explosive, explosive, explosive and narcotic drugs (NQR)" patent pending (OSIM application no: a201600350 of 18.05.2016)
5. Zacharia Aurelian, Apostol Marian, Ionita Silviu, Iana Gabriel, ..., "Fixed detector and method for the detection of explosive, explosive, explosive and narcotic drugs based on the effect of Nuclear Resonance Resonance (NQR)", pending OSIM application no: a201600351 of 18.05.2016)
6. Zaharia Aurelian, Apostol Marian, Ionita Silviu, Iana Gabriel, "Mobile Detector and Method for the Detection of Potentially Explosive Substances, Explosives and Drugs by Nuclear Quadrupole Resonance (NQR)", patented (WIPO Patent Application No. WO2018124905 (A1) of 2018-07-05)
7. Bizon Nicu, Oproescu Mihai, Iana Vasile Gabriel, "Method for optimizing the efficiency of hybrid hydrogen energy sources", pending (patent application no. A1000793 of 04.10.2017)

Presentations

Invited talk: 8th INTERNATIONAL CONFERENCE on ELECTRONICS, COMPUTERS and ARTIFICIAL INTELLIGENCE ECAI 2016, June 30– July 02, 2016, International Workshop on Applied Electronics session, Iana Vasile Gabriel, Ionita Silviu, Ionescu Valeriu, „System for interpreting the characteristics of metal objects based on signal acquired from a magnetic loop antenna”

Awards

I participated as member at the Geneva International Salon with the invention "Mobile Detector and Detection Method for Explosive Risks, Explosives and Drugs Based on Nuclear Resonance Resonance (NQR)", which was awarded the following degrees:

- GOLD MEDAL - International Salon of Inventions GENEVE, 2017
- SPECIAL AWARD, STATE OFFICE FOR INVENTIONS AND TRADEMARKS OSIM, 2017
- DIPLOMA on behalf of the Scientific Community of ROMANIA, 2017

At the INOVA Salon of BARCELONA, "Mobile Detector and Detection Method for Explosive Risks, Explosives and Drugs Based on Nuclear Resonance Resistance (NQR)" was awarded the following degrees:

- GOLD MEDAL - The world exhibition on inventions, researches and new technologies, EUREKA, BARCELONA, 2017
- Diploma - International Exhibition of Innovation INOVA BARCELONA, 2017

Courses

Digital Signal Processing
Digital Signal Processors
Hardware Description Languages
Software Engineering

Mobilities

29.07.2013/02.08.2013 – ERASMUS training course within at GAMAX LABORATORY SOLUTION LTD, BUDAPEST
23.04.2018/ 27.04.2018 – ERASMPUS + teaching internship at University MARWADI, INDIA
18.06.2018/21.06.2018 – ERASMPUS + teaching internship at University JAN WYZYKOWSKY, POLONIA
16.03.2019/23.03.2019 – ERASMPUS + teaching internship at University MANSOURA, EGIPT

Journal Board

ECS Journal, http://ecsjournal.org/JournalBoard.aspx ,indexed in IIS, DBLP, CSBA - http://ecsjournal.org/JournalIndexing.aspx, 2015

ANNEXES

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