

Curriculum vitae

Personal Information

First/Last name	Cristian Anghel
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Birth date	26-04-1980
Gender	Male

Desired job

Job type	Full Time
Professional objective	I target working in a research and development team, especially in projects for mobile communication systems or in projects involving algorithms for digital signal processing for radar, automotive or other applications. I have more than 17 years experience in this field and I have the required technical education (M. Sc., Ph. D.). Also I am interested in the academic activity related to the above mentioned fields.
Activity domain	Superior education, Telecommunications

Work experience

Experience by domains	Education/Training - 17 years Telecommunications - 17 years
Job	Lecturer/ Associate Professor - Education/Training
Period	2011-10 <> 2016-09/ 2016-10 <> present
Name and address of the employer	University Politehnica of Bucharest, Faculty of Electronics, Telecommunications and Information Technology
Domain	Superior education/Training
Job description	The company has 1000-3000 employees. - Teaching the following course for one Bachelor direction <i>Antennas and Propagations</i> - Teaching the following courses for several Master directions (one in English) <i>Hardware Description Language and FPGA Implementation</i> <i>Methodology</i> <i>Advanced Techniques for Digital Signal Processing</i> <i>Advanced Techniques In Wireless Communications</i> <i>Propagation, antennas and diversity</i> <i>Characterization and modeling of mobile radio channels</i> - Workshops and laboratories for the above mentioned courses - Coordinating dissertations and graduation projects - Coordinating small research teams that have developed modules and have proposed hardware implementation solutions - adaptive filtering for electric and acoustic echo cancellation tested on Xilinx ML507 board (with Virtex5 FPGA) - driver for audio codec based on AC97 protocol - prototype communication system (starting from IEEE 802.16e standard) for MIMO decoder testing - pulse radar for target detection and distance measurement implemented on Virtex 2 - music synthesizer using PS2 keyboard and audio codec from XESS XSA (with Xilinx Spartan 2) board on Xstend board

Job	Teaching assistant - Education/Training
Period	2003-11 <> 2011-09
Name and address of the employer	University Politehnica of Bucharest, Faculty of Electronics, Telecommunications and Information Technology
Domain	Superior education /Training
Job description	The company has 1000-3000 employees. - Teaching the course <i>Hardware Description Language and Methodology for FPGA Implementation</i> for two master directions - Workshops and laboratories: <i>Radar , Digital signal processing, Microwaves, Antennas and propagation</i> - Coordinating dissertations and graduation projects - Coordinating small research teams that have developed modules and have proposed hardware implementation solutions

Education and training

Obtained diploma	Doctorship
Period	2004 - 2010
Institution	University Politehnica of Bucharest, Faculty of Electronics, Telecommunications and Information Technology
City	Bucharest
Major	Electronics
Description (specialization)	Thesis title "Contributions to the implementation of MIMO channel-based communications systems" Obtained title: cum laude
Obtained diploma	Postuniversity degree
Period	2003 - 2004
Institution	University Politehnica of Bucharest, Faculty of Electronics, Telecommunications and Information Technology
City	Bucharest
Major	Electronics
Description (specialization)	Specialization "Radio-communications, microwave and optical communications" The average of the marks: 9.84 The mark of the dissertation: 10
Obtained diploma	University (graduate)
Period	1998 - 2003
Institution	University Politehnica of Bucharest, Faculty of Electronics, Telecommunications and Information Technology
City	Bucharest
Major	Electronics
Description (specialization)	Specialization "Mobile and satellite communications" The average of the marks: 9.55 The mark of the graduation exam: 10
Obtained diploma	Highschool
Period	1994 - 1998
Institution	Mihai Viteazul Theoretical Highschool
City	Ploiesti
Major	Mathematics

Description (specialization) | The mark of the graduation exam: 9.36

Personal skills and competences

Foreign Languages

English - Advanced; French - Advanced; Spanish - Beginner;

Driving license

Yes

Skills

Knowing in detail the architecture of the most important families of FPGA's and the VHDL hardware description language

Detailed knowledge of communications IEEE 802.16e standard and 3GPP UMTS standards and good knowledge of IEE 802.16m and 3GPP LTE standards

Very good knowledge of digital signal processing algorithms for telecommunications systems (at Physical Layer), for audio applications and good knowledge for Radar systems

Working with the software tools used for FPGA implementation:

- ModelSIM
- Vivado 2019
- Xilinx ISE
- Xilinx XST
- ChipScope
- System Generator
- Simplify
- Matlab and Simulink

Working with the hardware tools used for analysis and testing :

- Rohde & Schwarz VSA
- SanJole WaveJudge for WiMAX
- Tektronix digital oscilloscope
- Azimuth channel emulator
- Rohde & Schwarz CMU 200

Medium knowledge of C++

Complete PC operation

Other activities

Papers and Conferences

- Author of 2 chapters published in technical books by an international publisher and of 2 books published by as known national publisher
- Author of 2 didactical materials published by a national publisher
- Author of 3 ISI articles published in prestigious international magazines and of 3 ISI articles published in known national magazines
- Author of 26 articles presented at international ISI conferences

Projects

Involved in 15 research projects inside the Telecommunications Department, 4 of them with the role of Director

Training courses

Achieved the "3G systems and mobile communication systems" course, organized by the Faculty of Electronics, Telecommunications and Information Technology and sponsored by Connex SA (actual Vodafone)

Additional information

Mobility

I am available for business trips, representing a percentage of the work program