



Europass Curriculum Vitae



Personal information

First name(s) / Surname(s) **Corneliu Remus CACOVEANU**

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Nationality Romanian

Date of birth 28.10.1958

Gender Male

Work experience

Dates September 1986 – onwards

Occupation or position held Associate professor (2005-onwards), Lecturer (1996-2005), Assistant (1986-1996), engineer (1985-1986).

Main activities and responsibilities Teaching lessons on Antennas and Propagation, Microwave Techniques, RADAR, Wireless Communications Principles, Numerical methods for RF circuits.
Research topics: Antennas for MIMO systems, RADAR sensors, Radio Communication systems

Relevant projects:

COBIS “Opportunistic C band bistatic SAR differential interferometry” ESA contract, 2016-2018, Project goal: design, implementation and evaluation of an architecture for bistatic differential interferometry SAR using opportunistic the C band Sentinel 1 satellite, able to exploit best characteristics of both ground based SARs, classic satellite SAR interferometry and persistent scatterer techniques in monitoring ground movements like landslides, volcanoes, glaciers and large built structures.

HybridNAVCOM “Modelling hybrid communication-navigation systems for formation flying satellites” CDI project 2013-2016. Project goal: study of the possibilities to define a hybrid communication-navigation model for precise relative position and attitude measurements and estimation. The study focuses on the exploitation of waveform diversity, signal properties, scattering mechanisms, channel capacity estimation, for accurate ranging and positioning.

GRADIS “Ground based RAdar for DISplacement measurements” Program Parteneriate, 2012 - 2015 Project goal: development of a X-band Ground-based Radar instrument and signal processing chain for very accurate geometry and displacement measurement

BISTATIC – PSI “Bistatic SAR Demonstrator for PS Interferometry using a Fixed-Receiver Configuration”, Space Technology and Advanced Research program, contracting authority - Romanian Space Agency, 2012 – 2015. Project goal: design and implementation of a fixed-receiver Bistatic SAR system that uses Satellite Systems as Transmitter of opportunity. The initial calibrations and synchronizations are designed and correlated with the TerraSAR-X mission.

SMART- net „SMART-antenna multimode wireless mesh Network” European project FP7, Nr. 223937 STREP, 2008-2011. Project goal: development of the layers 1-3 technologies for wireless mesh networks using heterogeneous technologies IEEE 802.11, 15, 16 and based on directive antennas.

WEIRD „WiMAX Extension to Isolated Research Data networks” European project FP6, IST-034622-IP, 2006-2008. Project goal: development of a large scale access networks based on WiMAX technologies for rural and metropolitan areas or for environment surveillance.

ENTHRONE “End-to-End QoS through Integrated Management of Content, Networks and Terminals”, FP6, Nr. 038463 –IP, 2006-2008. Project goal: development of a multi-domain integrated management system for multimedia communications.

Name and address of employer	“POLITEHNICA” University of Bucharest, Splaiul Independentei nr. 313 Bucharest ROMANIA
Type of business or sector	Education
Dates	August 2011 - 2015
Occupation or position held	Consultant
Main activities and responsibilities	RF system architect
Name and address of employer	Blinq Networks Inc 400 March Road, #240 Ottawa ON, K2K 3H4, Canada
Type of business or sector	Wireless backhaul systems
Dates	October 2007 July 2010
Occupation or position held	System architect
Main activities and responsibilities	Define specifications for RF systems OFDM based for vertical markets.
Name and address of employer	Redline Communications Romania, Cotroceni Business Centre, Bucharest, ROMANIA
Type of business or sector	R&D wireless solutions
Dates	April 2000 October 2007
Occupation or position held	Director of Engineering
Main activities and responsibilities	General manager of the Redline Communications Inc Romanian branch, Technical manager, project lead. Technical and project lead for a PTP high-speed wireless TDM transport and Ethernet bridge terminal. Designer of a clock recovery algorithm for TDM interface. Technical and project lead for the SC1000 Redline WiMAX BS.
Name and address of employer	Redline Communications Inc, 302 Town Centre Blvd., Markham, Ontario Canada L3R0E8
Type of business or sector	wireless broadband systems

Education and training

Dates	1989-1998
Title of qualification awarded	Doctor (PhD)
Principal subjects/occupational skills covered	Thesis title: "Tehnici de crestere a eficientei metodei TLM" (Techniques to increase the efficiency of the Transmission Line Matrix (TLM) method)
Name and type of organisation providing education and training	“Politehnica” University of Bucharest, Bucharest, Romania

Dates 1993-1997
 Title of qualification awarded Docteur de l'Institut National Polytechnique de Grenoble (PhD)
 Principal subjects/occupational skills covered Thesis title: "Developpement de la methode TLM: simulation des pertes dans le domaine temporel"; Scientific research that directly contributes to development of the TLM method (numerical method for passive microwave circuits analysis)
 Name and type of organisation providing education and training Institut National Polytechnique de Grenoble, Grenoble, France

Dates 1978-1983
 Title of qualification awarded Master of science in Electronics and Telecommunications
 Principal subjects/occupational skills covered Mathematics, Physics, Signals Circuits and Systems, Integrated circuits, Microprocessors, Microwave Techniques, Theory of Information Transmission, Modern Communication Techniques, Research Methods
 Name and type of organisation providing education and training "Politehnica" University of Bucharest, Bucharest, Romania

Personal skills and competences

Mother tongue(s) Romanian

Other language(s)

Self-assessment

European level (*)

English

French

Understanding		Speaking		Writing			
Listening		Reading		Spoken interaction		Spoken production	
	good		good		good		good
	good		good		good		good

Organisational skills and competences Whilst working for Redline Communications, I organized and formed a R&D team focus on wireless broadband system (hardware platform design, PHY level design and implementation based on FPGA, DSP, GreenSide, PicoChip).
 I organized a test lab for WiMAX BSs. I managed the Redline's Romanian branch.

Technical skills and competences Competent with standards: WiFi, WiMAX, LTE, OBSAI, CPRI, ATCA, MicroTCA.
 Competent with technologies: CDMA, OFDM, OFDMA, SC-FDMA, FMCW Radar, SAR, Bistatic SAR

Computer skills and competences Microsoft Office, Fortran, MatLab, Mathematica, ADS, CST, OPNET

Additional information Adward

The BS designed for Redline awarded the prize: „Best of WiMAX World EMEA 2008 Industry Choose Award”, Munich Germany May 21 2008.