

CURRICULUM VITAE

PERSONAL INFORMATION

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Nationality **Romanian**
Date of birth **6 September 1977**



INTERNATIONAL ACTIVITIES

A highly experienced and qualified radiocommunications expert with a working career in the Romanian communications regulator (ANCOM) for more than 20 years, Cristian UNGUREANU has also been actively involved in relevant international activities, both at a regional, and at a global level.

At European level, he has represented Romania within various working structures of the Electronic Communications Committee –ECC/WG SE (SE07, SE40), ECC/WG FM (FM44), CPG/PTB, CPG/PTA. Since May 2022 he has been Chair of CEPT/WGSE/SE7. Currently, he is the CEPT coordinator on WRC-23 A.I. 1.18.

At ITU level, he has taken part in the work of ITU-R SG4 (WP 4A, WP 4C), and is involved in the preparatory works for WRC-23. Since August 2020, he has been a Vice-chair of ITU Expert Group on Decision 482 from the European Region.

WORK EXPERIENCE

Date (from – to)	November 2019 – present
Name and address of employer	National Authority for Management and Regulation in Communications of Romania (Headquarters), 2 Delea Noua Street, Bucharest 3, Romania
Type of business or sector	Telecommunication Regulatory Authority RF engineering
Occupation or position held	Expert in the Aeronautical, Maritime, Satellite and Amateur Unit
Main activities and responsibilities	- Participation in the activities of coordinating the orbital positions assigned to Romania, as well as of elaborating and sending the assignment requests for orbital positions to BR ITU; - Participation in inter-ministerial groups regarding the development of projects with an impact on satellite radiocommunication services managed within the office; - Participation in authorization and regulation activities, internal and international coordination, including CEPT and ITU working groups, as well as monitoring and control, related to radiocommunication services managed within the office; - Administration Manager for e-Submission of Satellite Network and Satellite Interference Reporting and Resolution System.
• Dates (from – to)	November 2010 – November 2019
• Name and address of employer	National Authority for Management and Regulation in Communications of Romania (Headquarters) 2 Delea Noua Street, Bucharest 3, Romania
• Type of business or sector	Telecommunication Regulatory Authority RF engineering

<ul style="list-style-type: none"> • Occupation or position held • Main activities and responsibilities 	<p>Middle management Expert at Monitoring Coordination Service</p> <ul style="list-style-type: none"> - Managing a team of telecom engineers; - Elaborating strategies for monitoring campaigns; - Training new recruits on monitoring problems and standards; - Budgeting the team; - Elaborating technical procedures for different kinds of monitoring campaigns; - Making quality measurements on GSM, CDMA, UMTS, LTE and CDMA based networks; - Spectrum monitoring (GSM, CDMA, UMTS, LTE, FM and TV broadcasting, PMR/PAMR); - Interference solving (GSM, CDMA, UMTS, LTE, FM and TV broadcasting, PMR/PAMR); - Discovering unlicensed radio emissions; - Finding solutions to eliminate EM interferences appeared in licensed telecommunication systems; - Supervising the installation and integration of transportable and fix monitoring stations.
<ul style="list-style-type: none"> • Dates (from – to) • Name and address of employer • Type of business or sector 	<p>June 2009 to November 2010 National Authority for Management and Regulation in Communications of Romania, Iași Regional Branch, 34A Moara de Vânt Street, Iași, Romania Telecommunication Regulatory Authority RF engineering Middle management</p>
<ul style="list-style-type: none"> • Occupation or position held • Main activities and responsibilities 	<p>Head of Unit Regional Control Service</p> <ul style="list-style-type: none"> - Managing a team of telecom engineers; - Elaborating strategies for market surveillance, radio equipment inspection, enforcement campaigns; - Training new recruits on enforcement problems and standards; - Budgeting the team; - Elaborating technical procedures for different kinds of enforcement campaigns.
<ul style="list-style-type: none"> • Dates (from – to) • Name and address of employer • Type of business or sector 	<p>October 2005 to June 2009 National Regulatory Authority for Communications and Information Technology, Iași Regional Branch, 34A Moara de Vânt Street, Iași, Romania Telecommunication Regulatory Authority RF engineering</p>
<ul style="list-style-type: none"> • Occupation or position held • Main activities and responsibilities 	<p>RF engineer at Authorization and Radiocommunications Bureau</p> <ul style="list-style-type: none"> - Frequency allocation for PMR and PAMR systems; - Licensing FM/TV stations; - Controlling PMR/PAMR networks; - Controlling cable TV networks; - Database operation and maintenance.
<ul style="list-style-type: none"> • Dates (from – to) • Name and address of employer • Type of business or sector 	<p>October 2003 to October 2005 General Inspectorate for Communications and Information Technology (Headquarter) 22 Italiana Street, Bucharest, Romania Telecommunication Regulatory Authority RF engineering</p>
<ul style="list-style-type: none"> • Occupation or position held • Main activities and responsibilities 	<p>RF engineer at Spectrum Management Service</p> <ul style="list-style-type: none"> - Making quality measurements on GSM, UMTS and CDMA based networks; - Spectrum monitoring (GSM, CDMA, UMTS, FM and TV broadcasting, PMR/PAMR); - Perturbation solving (GSM, CDMA, UMTS, FM and TV broadcasting, PMR/PAMR); - Discovering unlicensed radio emissions; - Finding solutions to eliminate EM interferences appeared in licensed telecommunication systems; - Supervising the installation and integration of transportable monitoring stations.

- Dates (from – to) July 2002 to October 2003
- Name and address of employer General Inspectorate for Communications and Information Technology, Iași Regional Branch, 34A Moara de Vânt Street, Iași, Romania
- Type of business or sector Telecommunication Regulatory Authority
- Occupation or position held RF engineering
- Main activities and responsibilities RF engineer at Authorization and Radiocommunications Bureau
 - Frequency allocation for PMR and PAMR systems;
 - Licensing FM/TV stations;
 - Controlling PMR/PAMR networks;
 - Controlling cable TV networks;
 - Database operation and maintenance.

EDUCATION AND TRAINING

- Dates (from – to) 30 November to 4 December 2020 and 24 to 28 October 2022
- Name and type of organisation providing education and training ITU
- Principal subjects/occupational skills covered BR Space Software and Databases, BRSIS, Submission of API and Notification for satellite networks not subject to coordination, Submission of non-geostationary satellite systems and networks subject to coordination, Examination of non-geostationary satellite systems and networks including EPFD, Space Monitoring, Harmful Interference and SIRRS, e-Submission of satellite network filings, e-Communications, Submission and receivability of coordination requests of GSO networks, Regulatory and technical examination: general overview, GIBC/PFD for GSO and NGSO networks, Coordination between geostationary satellite networks: Appendix 8, Introduction to Coordination Identification of Nos 9.11A and 9.21 through GIBC-FOS, Notification and recording of frequency assignments for satellite networks subject to coordination, Broadcasting-satellite service and associated feeder-link Plan/List, Implementation of Resolution 559 (WRC-19), AP30/30A submissions and publications, Commenting on Special Sections, Coordination and notification of Earth stations, Bringing into use of GSO and NGSO satellite networks, Cost recovery for satellite network filings
- Title of qualification awarded Certificate of participation
- Dates (from – to) 30 January – 01 February 2017
- Name and type of organisation providing education and training Anite Finland Ltd
- Principal subjects/occupational skills covered Mobile networks introduction; Nemo Outdoor: Principles and Measurements Methods; Nemo Walker hardware introduction; Nemo Outdoor with Nemo Walker; Nemo Outdoor indoor option for Walker; Nemo servers introduction; Nemo Analyze introduction; Nemo Handy introduction
- Title of qualification awarded Certificate of Advanced Training
- Dates (from – to) 17-20 October and 1-4 November 2016
- Name and type of organisation providing education and training Anite Finland Ltd
- Principal subjects/occupational skills covered Mobile networks introduction; Nemo Outdoor: Principles and Measurements Methods; Nemo Walker hardware introduction; Nemo Outdoor with Nemo Walker; Nemo Outdoor indoor option for Walker; Nemo servers introduction; Nemo Analyze introduction; Nemo Handy introduction
- Title of qualification awarded Certificate of Training

<ul style="list-style-type: none"> • Dates (from – to) • Name and type of organisation providing education and training • Principal subjects/occupational skills covered • Title of qualification awarded 	<p>5-9 January 2015 Keysight Technologies</p> <p>Radio Spectrum Management with Keysight RF Sensor and Surveyor 4D, Geolocation, Vector Signal Analyzer, Audio Player Software</p> <p>Certificate of Training Completion</p>
<ul style="list-style-type: none"> • Dates (from – to) • Name and type of organisation providing education and training • Principal subjects/occupational skills covered • Title of qualification awarded 	<p>25-27 November 2014 Rohde&Schwarz</p> <p>Portable Receiver PR100 Training for Users</p> <p>Certificate of Attendance</p>
<ul style="list-style-type: none"> • Dates (from – to) • Name and type of organisation providing education and training • Principal subjects/occupational skills covered • Title of qualification awarded 	<p>2-6 June 2014 Felix Telecom – Alcatel-Lucent Academy Timisoara</p> <p>LTE – standards and protocols</p> <p>Certificate of Achievements</p>
<ul style="list-style-type: none"> • Dates (from – to) • Name and type of organisation providing education and training • Principal subjects/occupational skills covered • Title of qualification awarded 	<p>4-8 November 2013 Agilent Technologies</p> <p>Agilent Technologies Geo-location and Signal Survey training</p> <p>Certificate of Achievement</p>
<ul style="list-style-type: none"> • Dates (from – to) • Name and type of organisation providing education and training • Principal subjects/occupational skills covered • Title of qualification awarded 	<p>30 September – 04 October 2013 ICPE-CA Bucharest</p> <p>Electromagnetic compatibility</p> <p>Certificate of Attendance</p>
<ul style="list-style-type: none"> • Dates (from – to) • Name and type of organisation providing education and training • Principal subjects/occupational skills covered • Title of qualification awarded 	<p>2-6 June 2013 Rohde&Schwarz</p> <p>Argus – Training for Experienced Users</p> <p>Certificate of Attendance</p>
<ul style="list-style-type: none"> • Dates (from – to) • Name and type of organisation providing education and training • Principal subjects/occupational skills covered • Title of qualification awarded 	<p>2-6 June 2013 Rohde&Schwarz</p> <p>Argus Refresh training</p> <p>Certificate of Attendance</p>
<ul style="list-style-type: none"> • Dates (from – to) • Name and type of organisation providing education and training • Principal subjects/occupational skills covered 	<p>12-16 November 2012 CODECS Romania</p> <p>Internet Protocol TeleVision</p>

<ul style="list-style-type: none"> • Title of qualification awarded • Dates (from – to) • Name and type of organisation providing education and training • Principal subjects/occupational skills covered 	<p>Certificate of Achievement 25-27 June 2012 Rohde&Schwarz</p> <p>Romes&NPA training</p>
<ul style="list-style-type: none"> • Title of qualification awarded • Dates (from – to) • Name and type of organisation providing education and training • Principal subjects/occupational skills covered 	<p>Certificate of Attendance 6-8 June 2012 Rohde&Schwarz</p> <p>LTE&WiMax technologies training</p>
<ul style="list-style-type: none"> • Title of qualification awarded • Dates (from – to) • Name and type of organisation providing education and training • Principal subjects/occupational skills covered 	<p>Certificate of Attendance 24-27 April 2012 Rohde&Schwarz</p> <p>Spectrum Monitoring Training</p>
<ul style="list-style-type: none"> • Title of qualification awarded • Dates (from – to) • Name and type of organisation providing education and training • Principal subjects/occupational skills covered 	<p>Certificate of Attendance 17-20 January 2012 Rohde&Schwarz</p> <p>Monitoring Receivers – Advanced Level</p>
<ul style="list-style-type: none"> • Title of qualification awarded • Dates (from – to) • Name and type of organisation providing education and training • Principal subjects/occupational skills covered 	<p>Certificate of Attendance 16 January 2012 Rohde&Schwarz</p> <p>Direction Finding Training – Advanced Level</p>
<ul style="list-style-type: none"> • Title of qualification awarded • Dates (from – to) • Name and type of organisation providing education and training • Principal subjects/occupational skills covered 	<p>Certificate of Attendance 21-25 November 2011 Rohde&Schwarz</p> <p>Radiomonitoring and Direction Finding training</p>
<ul style="list-style-type: none"> • Title of qualification awarded • Dates (from – to) • Name and type of organisation providing education and training • Principal subjects/occupational skills covered 	<p>Certificate of Attendance 28 November – 02 December 2011 Rohde&Schwarz</p> <p>Argus training</p>
<ul style="list-style-type: none"> • Title of qualification awarded • Dates (from – to) • Name and type of organisation providing education and training • Principal subjects/occupational skills covered 	<p>Certificate of Attendance 9-11 March 2011 CODECS Romania</p> <p>Microsoft Project 2007 Course</p>

skills covered	
• Title of qualification awarded	Certificate of Achievement
• Dates (from – to)	13-16 December 2010
• Name and type of organisation providing education and training	Radiocom Romania
• Principal subjects/occupational skills covered	Digital Television
• Title of qualification awarded	Participation diploma
• Dates (from – to)	22-27 November 2010
• Name and type of organisation providing education and training	Rohde & Schwarz
• Principal subjects/occupational skills covered	Argus Monitoring Software
• Title of qualification awarded	Participation diploma
• Dates (from – to)	1-5 November 2010
• Name and type of organisation providing education and training	Rohde & Schwarz Deutsche Telekom Hungary
• Principal subjects/occupational skills covered	Digital modulation Techniques Radio Network Planning and Optimization
• Title of qualification awarded	Participation diploma
• Dates (from – to)	May to November 2010
• Name and type of organisation providing education and training	CODECS Romania
• Principal subjects/occupational skills covered	Project management
• Title of qualification awarded	Participation diploma
• Dates (from – to)	October 2009
• Name and type of organisation providing education and training	AVANTERA Romania
• Principal subjects/occupational skills covered	development of student leadership skills in his triple capacity as: process manager, mentor for colleagues and team leader
• Title of qualification awarded	Certificate of Attendance
• Dates (from – to)	20-24 October 2008
• Name and type of organisation providing education and training	Radiocom Romania
• Principal subjects/occupational skills covered	TV and radio broadcasting measuring equipment
• Title of qualification awarded	Participation diploma
• Dates (from – to)	3-5 July 2007
• Name and type of organisation providing education and training	International Telecommunication Union, Kyiv, Ukraine
• Principal subjects/occupational skills covered	Economic aspects of national radio frequency spectrum management
• Title of qualification awarded	Certificate of Attendance

- Dates (from – to) 19-21 July 2006
- Name and type of organisation providing education and training International Telecommunication Union, Kyiv, Ukraine
- Principal subjects/occupational skills covered Trends in development of national spectrum monitoring systems
- Title of qualification awarded Certificate of Attendance

- Dates (from – to) 04 December 2006 - 30 June 2007
- Name and type of organisation providing education and training Faculty of Electronics and Telecommunications, Technical University "Gheorghe Asachi" Iași, Romania
- Principal subjects/occupational skills covered Digital Radiocommunications
PC Networks
- Title of qualification awarded Participation diploma

- Dates (from – to) October 1996 - June 2001
- Name and type of organisation providing education and training Faculty of Electronics and Telecommunications, Technical University "Gheorghe Asachi" Iași, Romania
- Principal subjects/occupational skills covered Basic knowledge of radio/telecommunications systems
PC Networks
Programming
Operating Systems
- Title of qualification awarded Engineer

- Dates (from – to) September 1992 - June 1996
- Name and type of organisation providing education and training IT High School "Grigore Moisil", Iași, Romania
- Principal subjects/occupational skills covered Mathematics
Physics
Informatics
- Title of qualification awarded Baccalaureate Diploma

**PERSONAL SKILLS
AND COMPETENCES**

MOTHER TONGUE

Romanian

OTHER LANGUAGES

English

- Reading skills Proficient user B2
- Writing skills Proficient user B2
- Verbal skills Proficient user B2

French

- Reading skills Basic user A1
- Writing skills Basic user A1
- Verbal skills Basic user A1

**SOCIAL SKILLS
AND COMPETENCES**

Very good interpersonal and communication skills, all of those obtained as a participant at:

- national and international meetings (member of ECC WG/SE (SE07 and SE40) Group, ECC/WG FM (FM44), CPG/PTB, CPG/PTA, ITU SG4);
- various national spectrum monitoring and enforcement campaigns (together with colleagues from different Regional Divisions or network operators).

ORGANISATIONAL SKILLS AND COMPETENCES
Very good and efficient leader:
- as Head of Unit Regional Control Service I've had to recruit, "grow" and coordinate a team of radio engineers for solving various problems regarding the radio spectrum enforcement aspects and also various administrative tasks like contracts, maintenance contracts, budgeting, etc.

TECHNICAL SKILLS AND COMPETENCES
Excellent command of:
- Keysight ESA, VSA and PSA series spectrum analyzers,
- Keysight N9912A, N9340B spectrum analyzers,
- Rohde & Schwarz ESI 40 spectrum analyzer,
- Rohde & Schwarz FSL6 spectrum analyzer,
- Rohde & Schwarz ESMD spectrum monitoring receiver,
- Rohde & Schwarz PR100 spectrum monitoring receiver,
- Rohde & Schwarz SMR 40 signal generator,
- Rohde & Schwarz SMA 100 signal generator,
- Anritsu MT8220T and MS2724B spectrum analyzers,
- Narda SRM-3006 spectrum analyzers,
- Kathrein MSK 200/M4 75 spectrum analyzers,
- Tadiran spectrum monitoring system,
- Rohde&Schwarz spectrum monitoring system,
- Anite Nemo (Keysight) benchmark system,
- Rohde & Schwarz monitoring system for quality measurements on mobile communications networks (TSMU, TSMW, Qualcomm Test Phones, etc.),
- various kinds of antennas, attenuators, and filters,
- various software for spectrum monitoring (Argus, Romes, Spectrum, Anite Nemo),
- radio planning and spectrum management software – ATDI ICS Telecom.

All of these competences were acquired in a real radiocom environment.

Very familiar with different kinds of standards, regulations, recommendations, and reports issued by ITU, ECC, ETSI, ERO, CEPT, regarding various radio technologies, propagation, planning and spectrum monitoring.

Level of knowledge for:

- Windows – advanced
- Microsoft Office – advanced
- ICS Telecom (radio planning tool) – advanced
- Mapinfo - advanced
- ROMES, ARGUS (Rohde & Schwarz software) – advanced
- PSPICE – intermediate
- VHDL, Matlab, C/C++ - intermediate

All these computer skills were acquired through on-site, daily work.

ARTISTIC SKILLS AND COMPETENCES
I like listening to rock and classical music. I have a large collection of albums of these musical genres.

OTHER SKILLS AND COMPETENCES
Very well organized and well-mannered.
Can work independently as well in teams, under stress.
Problem-solving oriented.

DRIVING LICENCE(S) B category since 1998

ADDITIONAL INFORMATION Available for extensive global travel.

Contact persons for references:

Name: Liviu Goras
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Name: Marian Luiz Mircea Angheluta
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Name: Octavian Nicolae Lupu
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