

PERSONAL INFORMATION

Titus Constantin BĂLAN



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"Transilvania" University of Brasov, Romania

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WORK EXPERIENCE

01.03.2013 – present

Associate Professor

"Transilvania" University of Brasov, Faculty of "Electrical Engineering and Computer Science", Dept. of Electronics and Computers <https://iesc.unitbv.ro/>

Business or sector Educational / R&D

- Teaching for Computer Networks and Security / Mobile Communication / Industrial Communications courses and laboratories; Coordinator of the Cybersecurity master program
- Area of interest: Communication Networks, Security, Software Defined Networks, Cloud and Virtualization, Intelligent Networks, Telecom Services, Internet of Things, Ambient Assisted living
- Main teaching topics:
 - Network Security and Perimeter Defence
 - Integration of Computing Systems with Telecommunications
 - Cloud Computing
 - Data Transmissions and Protocols
 - Control and Data Transmission Networks in Industry
 - Protection and Security in Computing Systems
- Founder and coordinator of the master program "Cyber Security" at "Transilvania" University of Brasov, Faculty of Electrical Engineering and computer science, starting with October 2018;
- Establishing of the virtualized Cybersecurity lab environment after obtaining sponsorship worth around 100.000 EUR and being engaged in academic partnership with industry
- Cisco Academy Certified Instructor – Netacad UNITBV; Instructor Excellence Award - Advanced Level Instructor since 2019, Expert Level Instructor since 2020

Past research and development activities:

- o Published 40+ articles indexed in ISI Web of Science, 13 ISI journals, 10 in Q1 or Q2
- o Published 10+ articles indexed in international databases
- o IEEE Member, IEEE Broadcast Technology Society Member

Research and Development projects:

- Partener Responsible for ODIN 112 UEFISCDI PNIII Soluții - Contract 37SOL/2021
- Partener Responsible in Horizon 2020 project SARMENTI- “Smart multisensor embedded and secure system for soil nutrient and gaseous emission monitoring”, Grant agreement ID: 825325 (<https://cordis.europa.eu/project/rcn/219116/factsheet/en>) on behalf of Atos Convergence Creators SRL; Project duration 2019-2022.
- Partner Responsible for project “Implementation of a Voice Over IP Capability for NATO Wide Secure Voice Services: VOSIP”, Nato Communication and Information Agency – NCIA, contract number RFQ-C0-14137-VOSIP, on behalf of Siemens Convergence Creators <https://www.ncia.nato.int/Industry/Documents/1%20May%202016-31%20May%202016.pdf>
- Partener Responsible for project “EGSE for Small Sat - A Baseline Verification and Validation”, 2018-2019; Grant award by: ESA - European Space Agency, Call: Romanian Incentive Scheme – Activity Type b) – Research and development activities
- Partner responsible and coordinator: Fulbright Commission Project CS07 - Minigrant for the development of cybersecurity-oriented programs Period: 2022-2023

Member in research projects:

- EU FP7 Project 4WARD - Architecture and Design for the Future Internet (2008-2010), contract number: 216041
- Leonardo da Vinci project: “Valorisation of an Experiment-based Training System through a Transnational Network Development – VETTREND”, RO/06 / B / F / NT175014 – under the supervision of „Transilvania” University of Brasov (2006-2008)
- Management Committee member (substitute) in COST Action CA15104 – “Inclusive Radio Communication Networks for 5G and beyond (IRACON), 2016 – 2020, EU H2020
- Management Committee member (substitute) in COST Action CA19121 - Network on Privacy-Aware Audio- and Video-Based Applications for Active and Assisted Living – GOOD BROTHER, 2020-2024
- Member in COST Action CA20120 - Intelligence-Enabling Radio Communications for Seamless Inclusive Interactions (INTERACT) 2021-2025
- European Union Program – eSTART “Program multi-regional de studii masterale in domeniul e-Activitati eSTART” POSDRU /86/1.2/S/54956
- Representative of Transilvania University with observer/consultant role for QTSTRAT project - Elaboration of the strategy for the development of national capabilities in the field of quantum communications, Contract: 2 PS / 11.11.2021, Babeş-Bolyai University of Cluj-Napoca (UBB)

▪ Member of scientific associations:

- IEEE (Institute of Electrical and Electronics Engineers)
- IEEE Broadcasting Society
- Member of the Cybersecurity Task Force within ANIS (National Association for the Software Industry)
- Member of DC Cybersecurity TaskForce, working group coordinated by the Chamber of Commerce of Romania in the United States, in Washington DC

▪ Awards and Certifications:

- Regional Winner - ESNC (European Satellite Navigation Competition 2016) – Innovation competition organized by the European Space Agency, qualified for the competition final in Madrid, October 2016: <http://www.esnc.eu/winner/awareanywhere-nowcasting-localised-response-force-mobilisation/>
- ANIS award – “The Employers Association of the Software and Services Industry award” for proposing a curriculum in the cybersecurity area for the discipline “Network Security and Perimeter Defence”: <https://www.anis.ro/burse-anis/castigatorii-galei-bursele-anis-2018>
- “Cybersecurity in universities - study visits to the U.S.” program

01.10.2005 – present

Presales Manager / Product Line Manager

Atos Convergence Creators SRL / SIEMENS Convergence Creators SRL / EVIDEN Romania SRL

Str. M. Kogalniceanu, nr. 21, Brasov, Romania

Business or sector IT / Telecom

Had the following positions within Atos / Siemens Convergence Creators SRL Brasov

- Presales Manager (Big Data and Security) - defining technical solutions (CyberSecurity, Mission Critical Systems), customer contact and identifying market opportunities, bid coordination for developing offers, technical effort estimations, working with teams from Legal, Commercial, Procurement and productive departments for developing offers/contracts
- Product Lifecycle Manager – Suorite from 2012 to 2013, responsible for defining solutions and Suorite product line (a set of software tools for network monitoring and data migration), responsible for investment control, development process, market positioning, marketing and sales strategy
- Project Manager: Coordination of the innovative solution for resource management in Cloud - IaaS FARM (Infrastructure as a Service Framework for Automatic Resource Management) team
- Architect for communications and security solutions – custom solution architecture for different customers (NATO, ESA, Siemens), communication, cybersecurity and cloud solutions
- Telecommunications Engineer – 10.2005-05.2008: Planning, optimization and configuration recipes communications, integration and testing of communication software and telecom platform dedicated mobile networks interoperability tests (IOT);

19.05.2008 – 01.01.2011

Integration and Software Telecommunications Testing Engineer

Nokia Siemens Networks, R&D Center Düsseldorf

HeltorferStr. 21, Düsseldorf, Germany

Business or sector Telecom

Integration and Software Telecommunications Testing Engineer (External Consultant)
LTE eNodeB Transport Module - Software Integration Team

Research and development team of transport module for radio base station eNodeB LTE:

- design, maintenance and test scenario execution for communications network equipment; testing process coordination, cooperation with HW and SW development teams and system engineering teams;
- innovative implementation of automated testing

01.04.2004 – 01.10.2005

Hardware TestLab Editor

Vogel Burda Communications SRL, "CHIP – Computer and Communication" magazine, str. N.D. Cocea, nr. 12, Brasov, Romania

Business or sector IT / Press

EDUCATION AND TRAINING

01.10.2007 – 16.09.2011

Doctoral PhD Studies - Telecommunications and Electronics Domain

"Transilvania" University of Brasov, Faculty of "Electrical Engineering and Computer Science"

- Telecommunications and Electronics Domain
- PhD Thesis: "Mobile Computing in Heterogeneous Networks"

01.07.2007 – 01.03.2009

Master Studies "Digital Communication Networks"

"Transilvania" University of Brasov, Faculty of "Electrical Engineering and Computer Science"

- Master Programme: "Digital Communication Networks"

01.10.2002 – 01.07.2007

Engineer degree in Electronics and Computers

"Transilvania" University of Brasov, Faculty of "Electrical Engineering and Computer Science"

- Replace with a list of principal subjects covered or skills acquired

1998 - 2002

High-School Informatics profile

"Andrei Saguna" National College

TRAINING, QUALIFICATIONS AND CERTIFICATIONS

- Harvard Business Publishing Corporate Learning - Leading in the Digital Age (LIDA), 2021
- University of Cambridge, Institute for Manufacturing (IfM), Atos Global Talent Program: Gold for Technology Leaders, in collaboration with Paderborn University (2023)
- Project Management - PRINCE 2 Foundation Certified, June 2015
- Project Management - PRINCE 2 Practitioner Certified, June 2015
- CISCO CCNP SWITCH Certification - Implementing Cisco IP Switched Networks, 2014
- CISCO CCSP SND Certification - Securing Cisco Network Devices 2010
- Certification CISCO CCNA - Cisco Certified Network Associate, starting from 2007
- Cisco CCNA CyberOps, 2020
- Cisco CCNA Collaboration (former CCNA Voice) - Implementing Cisco Collaboration Devices, 2017
- Gold for Technology Leaders, University of Cambridge + University of Paderborn, in person training (in progress)
- Harvard, Leading in the Digital Age (LIDA) Course - Harvard Business Publishing Corporate Learning, online
- Certification LPIC1 - Linux Professional Institute Certification, 2007
- CyberSecurity Training – Avelgo, June 2016
- Certification Outpost 24: Network Security Audit, 2012
- Certification Information: Core Network Planning, Advanced - Advanced Core Network Planning Professional 2012
- HM Training Solutions Germany - IPv6 Certification Seminar: Technology and Transition, Certification seminar: IPsec, 2009
- Network Security Training - Technical University of Cluj, Romania
- European summer schools, intensive, Crete, Greece – “Applied Informatics and digital systems”, 2006

PERSONAL SKILLS

Mother tongue Romanian

Other language(s)

	UNDERSTANDING		SPEAKING		WRITING
	Listening	Reading	Spoken interaction	Spoken production	
English	C2	C2	C2	C2	C2
German	B1	B1	B1	B1	B1
French	A2	A2	A1	A1	A1

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

Communication skills

- Good communicational skills, Ability to learn, Creativity, Perseverance, Open minded, Teaching Experience

Driving licence Cat. B