

Razvan Bogdan



Sex Male | Date of birth | Nationality Romanian

WORK EXPERIENCE

09/2020 – present

Associate Professor

"Politehnica" University of Timisoara, Timisoara (Romania), Department of Computers and Information Technology

- Teach undergraduate and graduate level courses, seminars and laboratories
 - Plan topics according to the latest trends and developments, create and improve courses, projects, laboratories;
 - I am responsible for Embedded Systems, Embedded Systems Testing, Internet-of-Things, Introduction to Research courses
- Develop and execute complex research projects
 - Plan the research areas and topics
 - Execute research projects according to a predefined plan
- Coordinate students for diploma/ dissertation projects, as well as mentoring students in their PhD projects
- Various managing tasks
 - Managing the team for diploma projects final examination
 - Managing the team for elective courses selection

09/2012 – 09/2020

Lecturer

"Politehnica" University of Timisoara, Timisoara (Romania), Department of Computers and Information Technology

- Teach undergraduate and graduate level courses, seminars and laboratories
 - Plan topics according to the latest trends and developments, create and improve courses, projects, laboratories;
 - I am responsible for Embedded Systems, Embedded Systems Testing, Internet-of-Things
- Develop and execute complex research projects
 - Plan the research areas and topics
 - Execute research projects according to a predefined plan
- Coordinate students for diploma/ dissertation projects
- Various administrative tasks
 - Participation in diploma/ dissertation exam teams
 - Organizing the team for the development of teaching hours distribution
 - Coordinating meetings and seminars

02/2008 – 09/2012

Teaching associate professional

"Politehnica" University of Timisoara, Timisoara (Romania)

- Design of teaching materials for Embedded Systems and Peripherals laboratories
- Improving the learning process
- Execute complex research projects
- Various administrative tasks
 - Organizing the team for the development of teaching hours distribution
 - Coordinating meetings and seminars

10/2007 – present

Researcher

"Politehnica" University of Timisoara, Timisoara (Romania)

Research activity in the field of Embedded Systems, Ambient Intelligence, Testing, e-Learning;

Working as researcher on the following research projects

- Title: EUDRES - Engaged and Entrepreneurial European University as Driver for European Smart and Sustainable Regions, 2020-2023, Erasmus+ Project
- Title: Development of IoT Medical Applications – smart pillbox, *Industrial partner:* F&F IT SERVICES SRL, 2018, 3000 Euro (**project manager**)
- Title: AC_G_xBU_Academy, Developing the e-Learning Portal for AUTOSAR Division, *Industrial partner:* Continental Automotive Romania, 2015-2016, 15000 Euro (**project manager**)
- Title: A Data Security Perspective On Information Transmission Over Distributed Systems, CNCSIS (Ministry of Education) Research Project TD 54/2008, 14000 Euro (**project manager**)
- Title: High Performance Cloud Platform at Politehnica University of Timisoara, Romanian Ministry of Research, Innovation and Digitization, project number POC/398/1-Development of networks of R&D centers, 2020-2022, 1000000 Euro (team member)
- Title: Creșterea capacității instituționale a Universității Politehnica Timișoara prin crearea unui centru de competențe în domeniul managementului universitar și a managementului calității (CAPIMAN), MEN - CNFIS, 146.000,00 lei, 2017 (team member)
- Title: Cross-border access infrastructure to high-level education through web-casts (international project); Period: 19.12.2013 – 18.06.2015; Financing source: European Commission (team member)
- Title: GreenEr Mobile Systems by Cross Layer Integrated energy Management GEMSCCLAIM (international project); Period: 01.09.2012-31.08.2015; Financing source: CHIST-ERA partnership projects, PNII-IDEI – 1/CHIST-ERA/01.10.2012 (team member)
- Title: Joint Cross-Border Internet Communication System of the University of Debrecen and Politehnica University of Timisoara (international project); Period: 01.01.2013-01.06.2014; Financing source: HURO/1101/074/1.2.1; amount: 771326 Euro (team member)
- Title: Estimating dependability of bio-inspired emerging systems with hierarchical reconfiguration strategy using classical and interdisciplinary methods (national project); Period: 2007-2008; Financing source: CNCSIS: Tip A, 371/2007; amount: 15500 Euro (team member)

- Improvement measurement by different metrics;
- Performance analysis
- Develop testing plan, writing use-cases and execute tests
- Coordinate team members and work according to a plan
- Develop courses for abroad university programs (University of Novi Sad)
- Write scientific papers
- Presentation of research results at conferences

09/2018 - 08/2020

Educational Specialist

Hella Romania, Timisoara (Romania)

- Part of EduTeam project
- Responsible with developing educational programs in the company for technical students;
- Responsible for Hella Diploma Projects program
- Coaching students

03/2017 - 09/2018

Software Quality Assurance Manager

Elektrobit Romania, Timisoara (Romania)

Working for Adaptive (ARA) Project

- Responsible with setting-up project's quality monitoring strategy
- Responsible for defining quality metrics
- Responsible for applying the Quality Management System into the project
- Monitor the project's quality based on the metrics
- Establish quality processes for the project
- Coach team members regarding quality processes that are applied for the project
- Develop the quality Dashboard
- Develop JQL scripts for the quality part of the project
- Used technologies: JIRA, JQL, QMS, Linux

09/2011 - 02/2015

Software Integration Test Engineer

Continental Automotive Romania, Timisoara (Romania)

Working for Human Machine Interface, Audio-Media of Volkswagen RNS 810, Bentley, Fiat project

- Responsible for client delivery of software resources
- Problem Reporting
- Compiling and creating the software builds for testing the product on device
- Delivering to System Integration
- Develop Automatic Tests in ATP (Automatic Test Platform)
- Responsible for testing the embed system
- Develop Tests vs. Software Requirements
- Car Testing and maintaining in car equipment
- Used technologies: Microsoft Visual Studio, Python, ATP, Canoe, SITEMPPO, DOORS, IBM Rational Change (Problem Tracking), IBM Rational Synergy (Lifecycle Support), ZOC/ Filter Terminal for tracing, KANBAN
- **ISTQB (International Software Testing Qualifications Board) Certified**

08/2007 – 09/2011 Software Engineer

Continental Automotive Romania (former Siemens VDO Automotive), Timisoara (Romania)

Working for Human Machine Interface of Audi Project , Volkswagen RNS Project

- Features developing in C++/C
- C++ code testing
- Developed features testing, quality assurance
- Photoshop designer responsible for Human Machine Interface graphical part and the appliance of graphical-delivered requirements in C++ code
- Testing of graphical requirements
- Used technologies: Eclipse, Visual Studio 2005, 2008, CM Synergy (Lifecycle Support), Change Synergy (Problem Tracking), SmartSVN (Version-control), Photoshop CS4
- Java development, KPI, Emma, code testing, quality assurance;

09/2006 – 07/2007 Software Engineer

Siemens VDO Automotive, Timisoara (Romania)

Working for Human Machine Interface of **Volkswagen RNS Project**

- Developing a Java-based tool (called **RXS**) to convert different XML formats into graphical representation;
- Java development and maintenance of Human Machine Interface subproject of **Volkswagen RNS Project**; code testing; quality assurance;
- Used technologies: Eclipse (IDE), CM Synergy (Lifecycle Support), Change Synergy (Problem Tracking), SVN (Version-control)

07/2005 – 09/2005 Internship: Software Developer

S.C. Timsoft SRL, Timisoara (Romania)

- Developing and testing a web platform using HTML, PHP, MySQL

EDUCATION AND TRAINING

10/2006 – 09/2009 Doctor of Philosophy (PhD) in Computer Science, Diploma de Doctor Seria F, Nr. 0011239

"Politehnica" University of Timisoara, Timisoara (Romania)

- Main research topics: reliability, networks, intelligent agents, testing
- Implement the CNCSIS (Ministry of Education) Research Project TD 54/2008, entitled "A Data Security Perspective On Information Transmission Over Distributed Systems"
- Experience with writing scientific articles
- Familiarity with cross-referencing multiple data sources and extrapolations

10/2001 – 06/2006 Bachelor of Science

"Politehnica" University of Timisoara, Timisoara (Romania)

- Computer Science specialization, final mark: 9.44/10

PERSONAL SKILLS

Mother tongue(s) Romanian

Other language(s)

English

UNDERSTANDING		SPEAKING		WRITING
Listening	Reading	Spoken interaction	Spoken production	
C1 Proficient User	C2 Proficient User	C1 Proficient User	C1 Proficient User	C1 Proficient User
TOEFL, CBT: 273 points				

Communication skills

- Part of an international (multinational) team and also of an academic and research team which included working, collaboration with colleagues from other R&Ds and academia
- Debate skills through years of experience presenting and defending a (scientific) point of view, but also as part of high-school's Debate And Public Speaking Team
- Good listener skills gained through my experience as teacher

Organisational skills

- Continental Automotive Romania Ambassador
- Time management, communication, team working trainings from Continental Automotive Romania and BEST (Board of European Students of Technology)

Driving licence

- Category B (since 2000)

ADDITIONAL INFORMATION

Distinctions

2018: First prize, to National Stage of "19th Scientific Student Conference on Technical Sciences", pentru proiectul din domeniul Internet-of-Things: "Air Quality Vehicular Sensor Network", team: Gyorgy Kolumban Antal și Lasak Vladko, mentor: Razvan Bogdan
2017: Internet-of-Things Prize for "Interactive Digital Media Student Contest 2017", project: "aLexa Embedded Home Assistant", student: Alin Tatu, mentor: Razvan Bogdan, Internet-of-Things section

Publications (selection)

- Răzvan Bogdan, Mihaela Crișan-Vida, Darius Barmayoun, Loredana Lavinia Stăicu, Robert Valentin Puiu, Mădălina Lup, Marius Marcu, Optimization of AUTOSAR Communication Stack in the Context of Advanced Driver Assistance Systems, Sensors, 21(13), 4561, 2021
- Răzvan Bogdan, Alin Tatu, Mihaela Marcella Crisan-Vida, Mircea Popa, Lăcrămioara Stoicu-Tivadar, A Practical Experience on the Amazon Alexa Integration in Smart Offices, Sensors, 21(3), 734, 2021
- Gyorgy Kolumban-Antal, Vladko Lasak, Razvan Bogdan, Bogdan Groza, A Secure and Portable Multi-Sensor Module for Distributed Air Pollution Monitoring, Sensors, 20(2), 403, 2020
- Razvan Bogdan, Nicolina Pop, Carmen Holotescu, Using Web 2.0 Technologies for Teaching Technical Courses, TIM18 PHYSICS CONFERENCE, AIP Conference Proceedings, Vol. 2071, 2019, DOI: 10.1063/1.5090087
- Gavruta, Alex, Marcu, Marius, Razvan Bogdan, Software Solution for Monitoring and Analyzing Driver Behavior, IEEE 12TH INTERNATIONAL SYMPOSIUM ON APPLIED COMPUTATIONAL INTELLIGENCE AND INFORMATICS (SACI). IEEE, pag. 345-349, 2018
- Bolintis, Razvan, Razvan Bogdan, Crisan-Vida, Mihaela, Stoicu-Tivadar, Lacramioara, PillHelper - an application for treatment administration, IEEE 12TH INTERNATIONAL SYMPOSIUM ON APPLIED COMPUTATIONAL INTELLIGENCE AND INFORMATICS (SACI). IEEE, pag. 527-531, 2018
- Nimara, Sergiu, Mereu, Andrei, Crisan-Vida, Mihaela, Razvan Bogdan, Portable device for remote control of a vehicle, 26TH TELECOMMUNICATIONS FORUM (TELFOR). IEEE, pag. 281-284, 2018
- Razvan Bogdan. Sentiment Analysis on Embedded Systems Blended Courses, BRAIN-BROAD RESEARCH IN ARTIFICIAL INTELLIGENCE AND NEUROSCIENCE, 8:1, 2017
- Vasilevska, Daina, Rivza, Baiba, Razvan Bogdan. Evaluation of Readiness for Distance Education of Students in European Universities, BRAIN-BROAD RESEARCH IN ARTIFICIAL INTELLIGENCE AND NEUROSCIENCE, 8:1, 2017

Complete list of publications: <https://scholar.google.com/citations?user=5YqbQsAAAAJ&hl=en>

Books

- Razvan Bogdan, A DATA SECURITY PERSPECTIVE ON INFORMATION TRANSMISSION OVER DISTRIBUTED SYSTEMS, 110 pag., Editura Politehnica, 2009, ISBN 978-973-625-909-8
- Razvan Bogdan, Gabriel Girban, Aplicatii cu microcontrolere. O abordare practica, 128 pag., Editura Politehnica, 2011, ISBN 978-606-554-417-8

International Certification

ISTQB (International Software Testing Qualifications Board) Certified