



Razvan-Gabriel Lazar

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WORK EXPERIENCE

01/05/2023 – CURRENT Iasi, Romania

SOFTWARE VERIFICATION ENGINEER MAGNA INTERNATIONAL

Projects:

Vision Platform

Night Vision System - Stellantis group

Skills: CodeBeamer, PTC, System Testing, Automatic Testing, Python, CANoe, CANalyzer, CAPL, Test Cases, Agile, XML, and Jira.

21/02/2021 – CURRENT Iasi, Romania

TEACHING ASSISTANT FACULTY OF AUTOMATIC CONTROL AND COMPUTER ENGINEERING

Teaching and research activities in the field of Systems Engineering.

Disciplines:

- Data Transmission - Process Remote
- Control Communications for Control Systems

13/01/2020 – 01/05/2023 Iasi, Romania

SOFTWARE VERIFICATION ENGINEER VEONEER ROMANIA

Projects:

Vision System - SMPC5 (Daimler) and Subaru

ADAS System - Argus2 (Volvo)

Skills: Rational DOORS, CodeBeamer, Jenkins, PTC, System Testing, Automatic and Manual Testing, Autosar Knowledge, XML, Electronics, Python, CANoe, CAPL, Test Cases and Test Modules, Agile, Embedded Systems, GIT, and Jira.

15/05/2016 – 10/01/2020 Iasi, Romania

SOFTWARE DEVELOPER / TEST PLATFORM ENGINEER CONTINENTAL ROMANIA

Projects:

Interior Body & Security (IBS) - BDC2015 (BMW), MFA2 (Daimler), MQB19 (Volkswagen), and ICAS (Volkswagen).

Skills: Rational DOORS, PTC, Communication Protocols, System Testing, Test Automation, Autosar Knowledge, Python, CAPL scripting, C#, CANoe, Test Cases and Test Modules, Jira, and Tortoise SVN.

EDUCATION AND TRAINING

01/10/2020 – CURRENT Iasi, Romania

PHD STUDENT Faculty of Automatic Control and Computer Engineering

Research Field: Reliability Assessment of Networked Communications for Interconnected Vehicles.

Field of study Systems Engineering

2023 Iasi, Romania

ISTQB CERTIFIED TESTER ADVANCED LEVEL - TECHNICAL TEST ANALYST (CTAL-TTA) Brightest

- The Technical Test Analyst's Tasks in Risk-based Testing, White-box Test Techniques, Static and Dynamic Analysis, Quality Characteristics for Technical Testing, Reviews, Test Tools, and Automation.

2020 Iasi, Romania

ISTQB CERTIFIED TESTER FOUNDATION LEVEL (CTFL) SEETB

- Fundamentals of Testing, Testing Throughout the Software Development Lifecycle, Static Testing, Test Techniques, Test Management, and Tool Support for Testing.

01/10/2017 – 15/07/2019 Iasi, Romania

MASTER'S DEGREE Faculty of Automatic Control and Computer Engineering

Field of study Embedded Control Systems

05/02/2019 – 09/02/2019 Iasi, Romania

TRAIN DE TRAINERS Know!

- Understanding the specifics of the training activity as a process of training and development of skills, Knowledge of the stages of the training, Specific group work techniques, Practicing group communication skills.

Website <http://know-team.ro/>

01/10/2013 – 15/09/2017 Iasi, Romania

BACHELOR'S DEGREE Faculty of Automatic Control and Computer Engineering

Field of study Systems Engineering

15/09/2009 – 01/09/2013 Bacau, Romania

HIGH SCHOOL DIPLOMA Technical Communication High School "Nicolae Vasilescu-Karpen"

Field of study Computing technician

2013 Bacau, Romania

CCNA MODULE 1 Cisco Academy

- Networking, Operating systems, The hardware part of a computer, Computer security.

● **PROJECTS**

01/04/2023 – CURRENT

Member of TRials Supported By Smart Networks Beyond 5G (TrialsNet) project

Smart crowd monitoring and smart traffic management.

01/06/2023 – 15/12/2023

Collaborative environment for developing OpenStack-based cloud architectures with applications in CDI

15/04/2021 – CURRENT

Orange Romania scholarship for the Efficiency and Safety collaborative traffic functions in intelligent intersections (INTERACT) project

Development of methods for evaluating the performance of the 5G network in Iasi.

15/02/2017 – 15/05/2017

Reconstruction of the route of an autonomous vehicle, Student Scientific Communications Session, Faculty of Automatic Control and Computer Engineering

The project focused on the behavior of an autonomous vehicle, through theoretical and experimental study, reflecting its ability to decide its own movements in accordance with the occurrence of unforeseen obstacles in its path and the offline reconstruction of the route of that vehicle.

● LANGUAGE SKILLS

Mother tongue(s): **ROMANIAN**

Other language(s):

	UNDERSTANDING		SPEAKING		WRITING
	Listening	Reading	Spoken production	Spoken interaction	
ENGLISH	B2	B2	B2	B2	B2
FRENCH	A2	A2	A1	A1	A1

Levels: A1 and A2: Basic user; B1 and B2: Independent user; C1 and C2: Proficient user

● DIGITAL SKILLS

Programming language

C | CAPL | MATLAB & MATLAB Simulink | Python | C# | Arduino | C++ Basic

Microsoft Office tools

● ORGANISATIONAL SKILLS

Job-related skills

Communication skills, teamwork, mentoring and training others, and efficient organization of requirements.

Team spirit

Participating in various activities that involved teamwork (participation in a student league, participation in various sports, various projects).

● COMMUNICATION AND INTERPERSONAL SKILLS

Ability to argue and persuade

Participating in a training organized by EuroDemos.

Trainer skills

Responsible for various trainings.

Teaching Assistant and presenter at various international conferences

● HONOURS AND AWARDS

15/04/2013

Electronics and Automation Olympiad

First Award, Theoretical part, National stage, Baia Mare, 2013

04/05/2012

Electronics and Automation Olympiad

Mention, National stage, Roman, 2012

● DRIVING LICENCE

Driving Licence: B

● PUBLICATIONS

DMPC-based control solution for mobile robots platoon based on ZigBee communication

O. Pauca, R. G. Lazar, M. Postolache, C. F. Caruntu, Submitted to Computers and Electrical Engineering, 2024

Coalitional Control for Mobile Robots Formation

O. Pauca, R. G. Lazar, A. Maxim, C. F. Caruntu, Accepted for the 28th International Conference on System Theory, Control and Computing (ICSTCC), 2024

Cloud-Based DMPC Simulation for Autonomous Mobile Robot Platooning in Logistic Applications

A. Maxim, O. Pauca, R. G. Lazar, C. M. Amarandei, C. F. Caruntu, Accepted for the 28th International Conference on System Theory, Control and Computing (ICSTCC), 2024

Control Architecture for Connected Vehicle Platoons: From Sensor Data to Controller Design Using Vehicle-to-Everything Communication

R. G. Lazar, O. Pauca, A. Maxim, C. F. Caruntu, Sensors 23, no. 17: 7576, 2023

Real-time data measurement methodology to evaluate the 5G network performance indicators

R. G. Lazar, A. V. Militaru, C. F. Caruntu, C. Pascal, and C. Patachia-Sultanoiu, IEEE Access, 2023

Comparative analysis between 4G LTE and 5G NR: An evaluation of cellular communications for V2X technology

R. G. Lazar and C. F. Caruntu, Bulletin of the Polytechnic Institute of Iasi. Electrical Engineering, Power Engineering, Electronics Section, vol. 69, no. 1, 2023, pp. 9-22

Evaluation of Channel Congestion for V2V Safety Communication in Multiplatooning Applications

R. G. Lazar and C. F. Caruntu, International Symposium ELMAR, Zadar, Croatia, 2023

Impact of Data Packet Loss for DSRC Vehicular Safety Communication in Connected Vehicle Platoons

R. G. Lazar, A. V. Militaru, and C. F. Caruntu, in 28th IEEE International Conference on Emerging Technologies and Factory Automation (ETFA), Sinaia, Romania, 2023

Performance analysis of 5G communication based on distance evaluation using the SIM8200EA-M2 module

R. G. Lazar, A. V. Militaru, C. F. Caruntu and C. Patachia-Sultanoiu, in 26th International Conference on System Theory, Control and Computing (ICSTCC), Sinaia, Romania, 2022

Simulated and practical approach to assess the reliability of the 5G communications for the Uu interface

R. G. Lazar, C. F. Caruntu, and C. Patachia-Sultanoiu, in 14th International Conference on Communications (COMM), Bucharest, Romania, 2022

Analysis of message flow transmissions for an inter-vehicle communication scenario

A. V. Militaru, R. G. Lazar, C. F. Caruntu, C. R. Comsa, and I. Bogdan, in 14th International Conference on Electronics, Computers and Artificial Intelligence (ECAI), Ploiesti, Romania, 2022

TrueTime-based Analysis of a Distributed Generalized Predictive Control Architecture for CACC Systems

R. G. Lazar, V. Varga, and C. F. Caruntu, in 25th International Conference on System Theory, Control and Computing (ICSTCC), Iasi, Romania, 2021

TrueTime Testing of Inter-Vehicular Communications for Cooperative Vehicles using Distributed Generalized Predictive Control

C. F. Caruntu, V. Varga, and R. G. Lazar, in 29th Mediterranean Conference on Control and Automation (MED), Bari, Italy, 2021

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