PERSONAL INFORMATION   Roxana Buhuş

📍 Cluj-Napoca, Romania

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PREFERRED JOB   Technical Leader/Project Manager/Team Leader

WORK EXPERIENCE

April 2020 – present

Project Manager/Technical Advisor
Innovation & University – BOSCH Engineering Center Cluj Cluj Napoca
I had been part of the Working Student Program for 2023, as a the Key Person for the HackerRank Platform; I provided technical support for the interviewers in using the platform, defined the guide.
I am responsible with the Tax and Incentives technical papers for research and development activities in ECC , that implies coordination for managing objectives with all the departments for creating their Technical papers for 2023 (16 projects);
I am responsible with the technical consultancy for a novel and World project that BOSCH is part of Called IPCEI (https://www.ipcei-me.eu/), and coordination for the universities collaborations (National and International)

Embedded Software Developer (2022)
Ultrasonic Systems – BOSCH Engineering Center Cluj Cluj Napoca
Embedded C developer for automotive Park Pilor applications with the latest ultrasonic technologies and off-highway applications. With the BEG collaboration held the role of local technical lead, and was responsible for the summer internship of 2020.
For the current project AR965 I provided support for the Architect role ramp-up career path together with the implementation for the PSX functionality.

November 2017 – April 2020

Embedded Software Developer
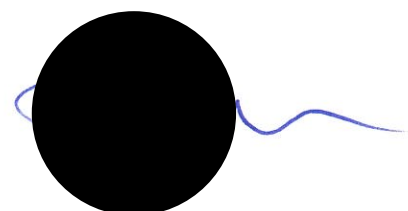Automotive Lighting Department – Magneti Marreli Cluj SRL. Romania
Embedded C developer for automotive Head Lamps/Rear Lamps applications with the latest lighting technologies. I was also responsible with the summer internships for the students 2 years in a row, and had the scrum master role for one month.

May 2017 – October 2017

Embedded Software Developer
Comercial and Residential Solutions -EMERSON Cluj - Napoca Romania
- Embedded C developer for compressor/valve/fan control applications for refrigeration industry, cooling heating, defrost and alarm control. ModBus Communication protocol was used for testing and parameter evaluation.

April 2014 – May 2017	**Embedded C/C++ Engineer**
	.NET/Embedded/C++ Automotive Department – Cluj-Napoca, AROBS Transylvania Software

- Current role: Embedded C software developer for an internal product. Main task is to develop software for GSM/GPRS interface, for SARA350 module. As an external partner I also have tasks for quality engineering for automotive software.

- As an external partner for clients in Automotive Industry I had to work in different roles such as MATLAB/Embedded C Developer, MATLAB/TPT tester and System Test Engineer

- MATLAB/Embedded C Developer - the work presume to do research on the existing MATLAB model/Requirements in DOORs and according with the Software Development process (Agile) to attend the reported bug-fixing/feature changes by priority, develop tests/run on the built version that contain the changes, on a specified BCM board. The touched functionalities: *Exterior lighting module, Thief Alarm module, DTC – module, Convertible Encoder module* - AUTOSAR compliant; performed also MISRA analyses for the Exterior lighting module for which I was owner.

- MATLAB/TPT tester - the work presume to update automated TPT tests/MATLAB scripts from the Client/ run MIL/SIL on MATLAB models for different functionalities, also offered constant support for 3 Juniors on similar tasks

EDUCATION AND TRAINING

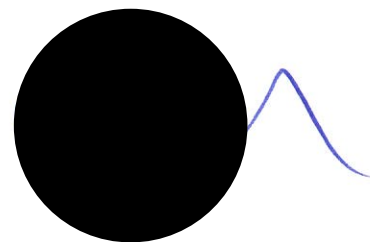|	
October 2015 – present	**PhD Studies**
	at the Technical University of Cluj-Napoca, Faculty of Electronics, Telecommunications & Information Technology (E.T.T.I), within the Signal Processing group. The theme of the research implies working with image processing algorithms for fire and smoke detection. Also it implies working with audio classifiers for wildlife sound recognition.
October 2009 – July 2010	**Master Studies**
	at "Gheorghe Asachi" Technical University, Faculty of Electronics, Telecommunications & Information Technology (E.T.T.I), Iasi, Romania in "Modern Technics for Signal Processing" one year Masters studies
October 2004 – September 2009	**License Courses - Microtechnology**
	at "Gheorghe Asachi" Technical University, Faculty of Electronics, Telecommunications & Information Technology (E.T.T.I), Iasi, Romania

PERSONAL SKILLS

Mother tongue   Romanian

Other languages

	UNDERSTANDING		SPEAKING		WRITING
	Listening	Reading	Spoken interaction	Spoken production	
English	PROFICIENT	PROFICIENT	PROFICIENT	PROFICIENT	PROFICIENT
Portuguese	INDEPENDENT	INDEPENDENT	INDEPENDENT	INDEPENDENT	INDEPENDENT
French	BASIC	BASIC	BASIC	BASIC	BASIC

Personal statement   A cheerful, positive, cooperative and professional approach, with team builder/team leader skills Patience, discretion, tact, diplomacy, autodidact and ease adaptable.

Organisational skills   Familiar with Agile-Scrum Methodology – developed Scrum-Master skills at National Instruments and Magneti Marelli

Programming languages   C (medium), C++ (medium), Phyton (basic), TCL (basic), ASM (medium); Verilog (medium), VHDL (medium); LabView FPGA (medium), Specman (medium)**,** SistemVerilog (basic);
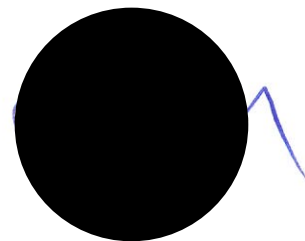
Operating Systems and Tools: Windows (9x, 2000, Me, XP,7,8),moderate Linux; Microsoft Office tools;

Electronics and Telecommunications Software & Tools: OrcadCapture , Orcad PSpice/ HSpice, Orcad Layout; **MATLAB/Simulink/Targetlink ,TPT**, MathCAD 2000; ModelSim SE (VERILOG,VHDL), ModelSim XE; Cadence (Schematic,LayoutPlus, Virtuoso, Diva), **CANOE, Canape, Altova,Test Manager, ControlDesk Next Gen – dSpace, DOORs, IMS-MKS,ClearCase, QAC, JIRA, Synergy,SVN;**

Working Environments : AEEE, WinIDEA , IDEAS,INCA, Xilinx ISE, VIVADO, MPLAB IDE, Proteus-ISIS, CygWin, MingWin, EDK, Xilinx Shell. **AtmelStudio.**

Driving licence   B

ADDITIONAL INFORMATION

Diplomas

March 2009 - Certificate in " **Advanced Global Management Techniques**" , professor from USA James Hearn

December 2011 – *Mentor Graphics* Certificate in Basic Course - *System Verilog for Verification*

January 2022 – ISAQB Certificate in Basic Couse for ISAQB Certified Professional for Software Architecture – Foundation Level

Honours and awards

[1] Premiul II în cadru SSET 2018 – Cluj-Napoca, secția prezentări Master/Doctorat, cu lucrarea *"Histograms and Supervised Learning for Facial Recognition Applications",* Elena Roxana Buhus, L.Grama, C. Serbu :https://sset-etti.utcluj.ro/?page_id=90

[2] Premiul I în cadru SSET 2017– Cluj-Napoca, secția prezentări Master/Doctorat, cu lucrarea "Linear Predictive Cepstral Coefficients in Wildlife Detection Systems" Elena Roxana Buhus, L.Grama: https://etti.utcluj.ro/files/Studenti/concursuri-studenti/Castigatori%20SSET%202017.pdf

[3] Articol (best paper) premiat în cadru conferinței ICONS 2010, The fifth International Conference on Systems, din Franța, Secția "**Embedded systems and systems-on-the-chip**", cu lucrarea "A System-On-Chip Approach in Designing a Dedicated RISC Microcontroller Unit Using the Field-Programmable Gate Array", Elena Roxana Buhus, Alexandru Lazar, and Adriano Tavares" https://www.iaria.org/conferences2010/AwardsICONS10.html

October 2005 - Diploma with 4th place in the Faculty for the 1st year annual study

Hobbies

travelling, sports, music, arts.