Andreea Ignat-Balaci

Date of birth: 21/12/1991 | **Nationality:** Romanian | **Gender:** Female | (+40) 749251362 |

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WORK EXPERIENCE

10/2020 – CURRENT – Cluj-Napoca, Romania
ASSOCIATED TEACHING ASSISTANT – TECHNICAL UNIVERSITY OF CLUJ-NAPOCA

Teaching activities - Application classes for:
- Power supplies
- Microcontrollers

Research activities

03/2014 – 08/2017 – Cluj-Napoca , Romania
C/C++ DEVELOPER – AROBS TRANSILVANIA SOFTWARE

External partner for Continental Automotive Systems, Iasi - IBS business unit
- Software development (Matlab, Simulink)
External partner for Continental Automotive Systems, Tmisoara - IID business unit
- Widget development
- Widget Technical Responsible
- task management and planning
- coaching training
External partner for Continental Automotive Systems, Tmisoara - IBS business unit
- SWATT tests

07/2013 – 10/2013 – Sibiu, Romania
INTERNSHIP (EMBEDDED C/C++) – CONTINENTAL AUTOMOTIVE SYSTEMS

Programming an Infineon 1788 microcontroller.

EDUCATION AND TRAINING

10/2017 – 06/2021 – Cluj-Napoca, Romania
PH.D. IN THE FIELD OF ELECTRONICS, TELECOMMUNICATIONS AND INFORMATIONAL TECHNOLOGIES – Technical University of Cluj-Napoca

10/2015 – 07/2017 – Cluj-Napoca, Romania
MSC. IN THE FIELD OF ELECTRONICS ENGINEERING – Technical University of Cluj-Napoca

07/2015 – Cluj-Napoca, Romania
BSC. IN THE FIELD OF APPLIED ELECTRONICS – Technical University of Cluj-Napoca

LANGUAGE SKILLS

Mother tongue(s):   **ROMANIAN**

Other language(s):

	UNDERSTANDING		SPEAKING		WRITING
	Listening	Reading	Spoken production	Spoken interaction	
ENGLISH	C2	C2	C2	C2	C2
FRENCH	B1	B2	A2	A2	B2

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

DIGITAL SKILLS

ECDL Experienced user │ Simulation tools: Simulink, Proteus, LTSpice, PSim │ Mathematical tools: MATLAB, Mathcad │ Embedded software development tools: Keil uVision │ Programming languages: C/C++, ASM

PUBLICATIONS

Energy Management for an Islanded Microgrid Based on Harmony Search Algorithm

41st International Spring Seminar on Electronics Technology (ISSE)
2018

Energy Management for an Islanded Microgrid Based on Particle Swarm Optimization

IEEE 24th International Symposium for Design and Technology in Electronic Packaging (SIITME)
2018

Real-Time Scheduling for an Islanded Microgrid

IEEE 25th International Symposium for Design and Technology in Electronic Packaging (SIITME)
2019

Cost Optimization and Day-Ahead Scheduling for a Renewable Energy Microgrid

42nd International Spring Seminar on Electronics Technology (ISSE)
2019

Renewable Energy Microgrid Model using MATLAB — Simulink

43rd International Spring Seminar on Electronics Technology (ISSE)
2020

Islanded Microgrid Simulation and Cost Optimisation

IEEE 26th International Symposium for Design and Technology in Electronic Packaging (SIITME)
2020