

PERSONAL INFORMATION

Mihai Machedon-Pisu



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WORK EXPERIENCE

10/2011–Present

University teaching professional (Lecturer, Associate Professor)

"Transilvania" University of Braşov, Braşov (Romania)

Expertise Fields: Telecommunications and Networking, Acquisition Systems and Signal Processing

Research Interest Areas: Energy Storage Systems and Applications, Sensor Networks and Telecom Systems

09/2006–09/2007

Electronics engineer

S.C. Benchmark Electronics Romania, Braşov (Romania)

- responsible for the proper functioning of PCB assembly equipments both in software and hardware

EDUCATION AND TRAINING

04/2014–10/2015

Postdoctoral

EQF level 8

Department of Electronics and Computers, Faculty of Electrical Engineering and Computer Science, "Transilvania" University of Braşov, Braşov (Romania)

Fundamental scientific research in the field of industrial telecommunication networks

10/2007–09/2010

Doctor of Philosophy in Industrial Telecommunications

EQF level 8

Department of Electronics and Computers, Faculty of Electrical Engineering and Computer Science, "Transilvania" University of Braşov, Braşov (Romania)

Advanced transmission lines and data transmission technologies and systems

Thesis title: Energetical and Functional Optimizations of Acquisition Systems for Wireless Communications in the ISM Band

10/2006–07/2008

Master of Science in Digital Communications

EQF level 7

Department of Electronics and Computers, Faculty of Electrical Engineering and Computer Science, "Transilvania" University of Braşov, Braşov (Romania)

- Digital communication networks
- Data acquisition systems
- Electromagnetic compatibility engineering

10/2001–07/2006

Bachelor of Science in Engineering

EQF level 6

Faculty of Electrical Engineering and Computer Science, "Transilvania" University of Braşov, Braşov (Romania)

- Electronics and computers
- Electrical engineering

PERSONAL SKILLS

Mother tongue(s) Romanian

Other language(s)	UNDERSTANDING		SPEAKING		WRITING
	Listening	Reading	Spoken interaction	Spoken production	
English	C1	C1	C1	C1	C1
Teacher Training in English for Vocational Purposes					
Levels: A1 and A2: Basic user - B1 and B2: Independent user - C1 and C2: Proficient user <u>Common European Framework of Reference for Languages</u>					

Communication skills - good communication skills gained through my experience of five years as faculty/department tutor

Organisational / managerial skills - good organisational skills gained as member of the university electoral office

Job-related skills
 Electronics and telecommunications: Data transmission technologies and systems
 Research: project manager of an international research project, one patent, 36 scientific papers
 Design: Industrial telecommunication systems, sustainable systems
 Competence in the design, technology selection (wireless: Bluetooth, ZigBee and Wi-Fi, wired: GPIB, PXI, Ethernet) and operation of data transmission lines (microstrip antennas, PIFAs) and systems, developing data acquisition and control applications and network integration in advanced telecom systems, IoT, hybrid storage systems
 Involvement in new training courses and specialization programs (DidaTec platform – POSDRU/87/1.3/S/60891)

Digital competence	SELF-ASSESSMENT				
	Information processing	Communication	Content creation	Safety	Problem solving
	Proficient user	Proficient user	Independent user	Proficient user	Independent user

Digital competences - Self-assessment grid

Computer Networks: CCNA1 Networking Basics and CCNA2 Routing Basics

- good command of virtual instrumentation software: LabVIEW, Multisim
- good command of programming languages and data processing software: MATLAB, Simulink, OriginLab, Mathcad, OrCAD (PSPICE), C/C++
- good command of office suite: Microsoft Office, Adobe, OpenOffice

Other skills - radio communications enthusiast: I own a radio amateur certificate
 - mountaineering: experienced climber (Kilimanjaro, Elbrus, Aconcagua)

Driving license B

ADDITIONAL INFORMATION

Publications Publication of 4 books and 38 scientific papers in technical journals & conferences

Projects Project manager in one international research project:
 "Solar sintering of Cu-TiC-graphite for electrical contacts used in advanced telecom systems"
 SFERA2 (PROMES-CNRS): SOLSIN - P1702060270, 2017
 Dissemination: Machedon-Pisu, M. – Research on solar sintering for electrical contacts, Nonconventional Technologies Review, 2019

- Conferences** Participation at 15 international conferences in the field of data transmission systems
- Honours and awards** Award for paper presentation: *Wireless Neural Signal Transmission in Biomedical Prosthetic Systems*, SIITME, 15th Edition, Gyula, Hungary, 2009 (IEEE conference)