

PERSONAL INFORMATION

Dan NICULA



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PURPOSE PhD thesis Committee referee

ACADEMIC EXPERIENCE

- 1990-Present **Professor**
[TRANSILVANIA University of Braşov](#)
Department of Electronics & Computers
- Courses:
 - Digital Electronics
 - Hardware Description Languages
 - VLSI/ASIC Design
 - Online Communication (Sociology)
- Business** Education, Electronics/Computers/Telecom, Digital Media
- 1992 – 1997 **PhD Computers**
[TRANSILVANIA University of Braşov](#)
- 1985 – 1990 **Engineer, Electronics and Telecommunication**
[Polytechnic Institute of Bucharest, Applied Electronics](#)

INDUSTRIAL EXPERIENCE

- 2015-present **Expert VLSI Engineer**
[XPERI - FotoNation](#)
Business Semiconductors, Digital IP
Projects Verilog RTL Design
- Various image processing related IPs
 - Memory Controllers
 - AXI arbiters and convertors
- 1999-2015 **RTL Designer, General Manager Romania**
[eASIC Corporation](#)
Business Semiconductors
Projects Verilog RTL Design
- Various communication related IPs, Memory Controllers
 - Design of control part for eASIC structured ASIC (eMU – embedded Microrprocessor Unit)
 - eScope – Logic analyzer implemented with eASIC
- [“How to implement a digital oscilloscope in Structured ASIC fabric”](#)*

EDUCATION

- 1992-1997 **PhD, Computers**
[TRANSILVANIA University of Braşov](#)
- **Thesis:** "High Performance Architecture for Microprocessors"
- 1985-1990 **Engineer, Electronics & Telecommunication**
[Politechnical Institute Bucharest, \[www.upb.ro\]\(http://www.upb.ro\)](#)
[Faculty of Electronics and Telecommunication](#)
- Analog/Digital design, Video processing

PERSONAL SKILLS

Native language Romanian

Other language(s)

	UNDERSTANDING		SPEAKING		WRITING
	Listening	Reading	Spoken interaction	Spoken production	
English	C2	C2	C2	C2	C2

Levels: A1/2: Basic user - B1/2: Independent user - C1/2 Proficient user
Common European Framework of Reference for Languages

- Communication skills**
- Good communication skills gained through the experience as a General Manager Romania, Recruiter and Trainer for personnel (eASIC Corporation).
 - Good presenter skills gained through the experience as a professor (TRANSILVANIA University of Braşov).
- Organisational / managerial skills**
- Top-management position (10 years, General Manager) managing all activities in a small company: employees (head hunting, selection, training), logistic (travel, team events), administration (procedures, work flows), accounting (supervision, audit), leadership (100+ employees, 10+ direct supervisor), remote reporting oversee (eASIC Corporation)
 - [Supervise students for graduate and master thesises](#) since 1995 (TRANSILVANIA University of Braşov).
- Job-related skills**
- Business developer (helped and support for 4 companies to start business or open subsidiaries at Brasov in VLSI Digital IC business).
 - Negotiation with suppliers, commercial contracts, lease (eASIC Corporation)
 - PR & HR (eASIC Corporation)
- Computer skills**
- EDA Electronic Design Automation tools for IC implementation (front-end, HDL Simulators, FPGA implementation)
- Other skills**
- HW architecture definition for large systems (specification, coding style, RTL model, test environment) acquired during many team projects.
 - Good understanding of local market and individual behaviour of employees.

- Publications
- Dan NICULA, [Verilog - Carte de învățătură](#), Editura Universității Transilvania din Brașov, 2019, ISBN 978-606-19-0563-8, (Romanian)
 - Dan NICULA, [ELECTRONICĂ DIGITALĂ - Carte de învățătură 2.0](#), Editura Universității Transilvania din Brașov, 2015, ISBN 978-606-19-0563-8, (Romanian)
 - G. TOACSE, Dan NICULA, [ELECTRONICĂ DIGITALĂ. Dispozitive, Circuite, Proiectare \(I\), Verilog HDL \(II\)](#), Editura Tehnică, București, 2005, ISBN 973-31-2270-X; 973-31-2268-8; 973-31-2269-6, (Romanian)
 - Bogdan SBARCEA, Dan NICULA [Automatic Conversion of MatLab/Simulink Models to HDL Models](#), Proc. of IEEE Optim'2004, Brasov, ROMANIA
 - M. CIRSTEA, A. DINU, M. McCORMICK, Dan NICULA, [A VHDL Success Story: Electric Drive System Using Neural Controller](#), VHDL International Users Forum Fall Workshop (VIUF'00) October 18 - 20, 2000, Orlando, Florida.
 - M. CIRSTEA, A. DINU, Dan NICULA, [A Practical Guide to VHDL Design](#), Editura Tehnică, Bucharest, 2001, ISBN 973-31-1539-8.
 - Mircea Moldovan, DAN NICULA, Traian Tulbure, [Low-cost Implementation of Digital Oscilloscope in Nextreme™ Structured ASIC](#), eASIC Corporation Whitepaper WP-1 Version 1.0
- Patent
- DAN NICULA [Image processing apparatus](#), EUROPEAN PATENT APPLICATION EP 3 582 176 A1, Date of publication: 18.12.2019 Bulletin 2019/51, Application number: 19196620.9, Date of filing: 11.09.2019

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