

## PERSONAL INFORMATION Aurel Cornel STANCA

 Transilvania University of Brasov  
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 [cornel.stanca@unitbv.ro](mailto:cornel.stanca@unitbv.ro) , [cornelstanca@yahoo.com](mailto:cornelstanca@yahoo.com) ,

Sex Male | Date of birth 25/12/1960 | Nationality Romanian

## POSITION WITHIN THE PROJECT

Coordinator and designer of electronics parts

## WORK EXPERIENCE

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- 01.11.2011 - today **Head of Electronics and Computers Department, Faculty of Electrical Engineering and Computer Science**  
"Transilvania" University of Braşov, B-dul Eroilor nr.29  
▪ Management activities  
**Business or sector** Education
- 01.11.2011 - today **Lecturer at Electronics and Computers Department, Faculty of Electrical Engineering and Computer Science**  
"Transilvania" University of Braşov, B-dul Eroilor nr.29  
▪ *Sensors and transducers* – course and laboratory  
▪ *Power electronics* – course and laboratory  
▪ *Electronic instrumentation* – course  
▪ *Systems with microcontrollers* – course and laboratory  
▪ *Electronic devices and fundamental electronic circuits* – seminar and laboratory  
▪ *Projects management* – course and project  
▪ *Sensorics and control systems in autovehicles* – course and laboratory  
**Business or sector** Education
- 01.10.2003 – 30.10.2011 **Associate professor at Electronics and Computers Department, Faculty of Electrical Engineering and Computer Science**  
"Transilvania" University of Braşov, B-dul Eroilor nr.29  
▪ *Sensors and transducers* – laboratory  
▪ *Electronic instrumentation* – laboratory  
▪ *Electronic devices and fundamental electronic circuits* – seminar and laboratory  
**Business or sector** Education
- 01.09.1996 - 30.09.2011 **Teacher, grade I**  
"Remus Răduleş" Technical College, Zizinului 106, Braşov  
▪ Training of the college students in specialities: electronics, automation, informatics and mechatronics.

- Business or sector** Education
- 01.06.1995 – 31.08.1996 **Automation engineer**  
S.C. CIMUS S.A. (now HOLCIM) Braşovului 1, Câmpulung Muşcel, Romania
- Design and implementation of data acquisition systems
- Business or sector** Cement production
- 01.08.1990 – 31.05.1995 **Automation engineer**  
S.C. PROCELIA S.A., Carpaţilor 12, Braşov, Romania
- Development of technical and economical software
  - Design and implementation of control systems in the cement and lime industry
- Business or sector** Research and development in the cement and lime industry
- 19.09.1985-31.08.1990 **Automation engineer and Analyst-programmer**  
CLC (now HOLCIM), Braşovului 1, Câmpulung Muşcel, Romania
- Implementation of the technical solutions in the control systems using analog and digital equipment
  - Update the factory control systems
  - Development of technical and economical software
- Business or sector** Cement and lime production

## EDUCATION AND TRAINING

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- 11.2004 – 05.2010 **PhD degree**  
“Transilvania” University of Braşov, Faculty of Electrical Engineering and Computer Science
- Contributions to the control systems of the vehicles using supercapacitors
- 30.04.2007 – 02.05.2007 **Certificat of graduation**  
Global Certification Romania
- Quality management – internal auditor ISO 9001
- 2003 - 2004 **Certificat of skills**  
Asociation of Economics Studies, “Transilvania” University of Braşov
- Management in education
- 22 – 29.11.1991 **Certificat of graduation**  
IPA – INDAS Bucureşti, România
- Allen Bradley SLC 500
- 1989 - 1990 **Certificat of graduation**  
Polytechnic Institute of Bucharest, Faculty of Chemistry
- The computer use in research and design activity of building materials industry
- 1980 – 1985 **Engineer in automation and computers**  
“Traian Vuia” Polytechnic Institute of Timișoara, Faculty of Electric Engineering, Department of automation and computers.

- **Fundamental**

Mathematics analysis, special mathematics, chemistry, physics, technology, mechanics, technical drawing, philosophy, political economy, french language, physical education.

- **Specific**

Electrotechnics; Electronic drives and circuits; Measurements and transducers; The Systems theory; Motor drives; Technique of pulse; Computers; Control of the systems; Hydraulic and pneumatic equipments; Industrial analog automations; Industrial digital automations;

## PERSONAL SKILLS

Mother tongue(s) Romanian

Other language(s)	UNDERSTANDING		SPEAKING		WRITING
	Listening	Reading	Spoken interaction	Spoken production	
English	B1	B1	B1	B1	B1
	Replace with name of language certificate. Enter level if known.				
French	B1	B1	B1	B1	B1
	Replace with name of language certificate. Enter level if known.				

Levels: A1/A2: Basic user - B1/B2: Independent user - C1/C2 Proficient user

[Common European Framework of Reference for Languages](#)

Communication skills ▪ Good communications skills in the multicultural environments, gained in college where coexist the students with different nationality (romanian, german, hungarian)

Organisational / managerial skills ▪ Leadership skill gained in my activity (responsible of technology area in Remus Radulet Technical College 1999-2006, with a team of about 20 people, CEAC coordinator in Remus Radulet Technical College 2006-2011, with a team of about 10 people), and by training (at Management in Education course)

▪ Responsible with implementation of Internal Control System at DAEC/DEC-IESC-UTBv, 2011-2015

▪ Responsible CEAC-D at DEC-IESC-UTBv, 2012-2015.

▪ Now, head of Electronics and Computers department (34 employees)

Job-related skills ▪ Good didactical skills, gained by training and by teaching experience.

Digital competence

SELF-ASSESSMENT				
Information processing	Communication	Content creation	Safety	Problem solving
Independent user	Basic user	Independent user	Basic user	Independent user

Levels: Basic user - Independent user - Proficient user [Digital competences - Self-assessment grid](#)

Replace with name of ICT-certificate(s)

- Good command of Microsoft Office tools (Word, Excel and PowerPoint) gained in my activity;
- Good command in programming (Turbo Pascal, Visual Basic, MPLAB) gained in my activity;
- Basic knowledge in ORCAD, ACAD, SPICE, Multisim, LabView, MathCAD, MathLab, GMWIN gained in my activity.

Other skills ▪ Fine art and painting, gained in primary school.  
▪ Masonry, wood and iron processing gained in my leisure time.

Driving licence B

ADDITIONAL INFORMATION

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[Publications](#)  
[Presentations](#)  
[Projects](#)  
[Conferences](#)  
[Seminars](#)  
[Honours and awards](#)  
[Memberships](#)  
[References](#)  
[Citations](#)  
[Courses](#)  
[Certifications](#)

**Publications:** 5 books, 18 articles in journals and conferencies

**Main articles:**

- **Aurel Cornel Stanca**, Florin Sandu – „Microcontroller-based Management System of Supercapacitor-aided Vehicle Starter” – Proceedings the 14<sup>th</sup> International Symposium for Design and Technology of Electronic Packages, “SIITME 2008”, Predeal, 18-21 September 2008, pp.115-119, ISSN 1843-5122 – Ed. MEDIAMIRA, Cluj-Napoca.
- **Stanca A.C.**, Sandu V., Szekely I., “Embedded System for Vehicles Start-of-ICE with Hybrid Battery-Supercapacitor Source”, Proceedings of the 10<sup>th</sup> International Conference on Development And Application Systems – „DAS 2010”, 27-29 May 2010, Suceava, pp.82, ISSN 1844-5039.
- **Stanca A.C.**, Sandu V., Szekely I., “Control System For Supercapacitor Based ICE Catalyst Preheating”, Proceedings of the 2<sup>th</sup> International Conference on Recent Achievements in Mechatronics, Automation, Computer Science and Robotics - MACRo'2010, 14-15 May 2010, Tg.Mureş, pp.171-182 - “Scientia” Publishing House - ISBN 978-973-1970-39-4.
- **Stanca, A.** ; Sandu, V. , Vaduva, R. ; Nemeth, O., „Distributed system for indoor temperature control”, Proceedings of the 11<sup>th</sup> International Conference on Applied and Theoretical Electricity (ICATE), 25-27 Oct.2012, Craiova, ISBN 978-1-4673-1809-9.
- **A. C. Stanca**, F. Sandu, “Solutions to improve the features of local interconnected networks”, Bulletin of the *Transilvania* University of Braşov, Series I: Engineering Sciences, vol. 6 (55) no.2 – 2013.