

PERSONAL INFORMATION

Ciupe Valentin



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WORK EXPERIENCE

2021 – present day

Vice president of the Romanian Robotics Society – Timișoara branch  
Universitatea Politehnica Timișoara

Timișoara, Bd. Vasile Pârvan, nr.2, 300223; www.srrtm.ro

- Management activities specific to SRR management;
- Promotion activities specific to the field of Robotics.

Business or sector Management / Non-profit professional society

2021 – present day

Head of the Research Centre for Mechatronics and Robotics in UPT  
Universitatea Politehnica Timișoara

Timișoara, Bd. Mihai Viteazul, nr.1, 300222; www.upt.ro

- Management activities specific to research management;
- Promotion activities specific to the research and outcomes in Mechatronics and Robotics.

Business or sector Management / University

2018 – present day

Associate Professor

Universitatea Politehnica Timișoara, Facultatea de Mecanică, Departamentul de Mecatronică

Timișoara, Bd. Mihai Viteazul, nr.1, 300222; www.upt.ro

- Teaching activities: PLC (course, laboratory); PLC-applications (course, lab, project); Microcontrollers (course); Actuating Systems (laboratory, project); Robot control systems (laboratory); Basics of Intelligent Manufacturing Systems (laboratory);
- Research activities: International and national research grants (member); Research and development projects with the economic environment (director, member); Life-long education projects (director, member)
- Coordination of undergraduate and dissertation projects; Doctoral student guidance

Business or sector Education / University

2009 - 2018

Lecturer

Universitatea Politehnica Timișoara, Facultatea de Mecanică, Departamentul de Mecatronică

Timișoara, Bd. Mihai Viteazul, nr.1, 300222; www.upt.ro

- Teaching activities: PLC (course, laboratory); PLC-applications (course, lab, project); Microcontrollers (course); Actuating Systems (laboratory, project); Robotic applications (course, laboratory);
- Research activities: International and national research grants (member); Research and development projects with the economic environment (director, member); Life-long education projects (director, member)
- Coordination of undergraduate and dissertation projects; Doctoral student guidance

Business or sector Education / University



- 2011 – present day **General manager**  
 SC MV Robsol SRL  
 Timișoara, Str. Bujorilor nr. 65-67/A, 300431; www.robsol.ro
- Management and projects implementation
  - Consulting activities
  - Engineering activities
- Business or sector Engineering and consulting
- 05.2016 **Invited expert**  
 Optotransmitter-Umweltschutz-Technologie e.V.  
 Berlin, Köpenicker Str. 325 / Haus 201, 12555; www.out-ev.de
- Project management: UPT side consortium representative for development of project FLASH
  - Research activities in the field of LED lighting
- Business or sector Research institute
- 02.2012 – 04.2012 **Invited researcher**  
 Institut Francais de Mecanique Avancee  
 Clermont-Ferrand, Campus des Cezeaux - CS 20265; www.sigma-clermont.fr
- Organizing activities: Co-Chair of the organizing committee, MTM & Robotics conference 2012
  - Research activities in the field of robotic handling for automatic deboning processes
- Business or sector University / Research institute
- 2006 - 2009 **University assistant**  
 Universitatea Politehnica Timișoara, Facultatea de Mecanică, Departamentul de Mecatronică  
 Timișoara, Bd. Mihai Viteazul, nr.1, 300222; www.upt.ro
- Teaching activities: Advanced Programming Languages (laboratory); Hydraulic and pneumatic drive systems (laboratory, project); Automatic Data Processing (laboratory); Prostheses (laboratory, project)
  - Research activities: National research grants (member); Research and development projects with the economic environment (member); Life-long education projects (member)
  - Coordination of undergraduate projects
- Business or sector Education / University
- 2001 - 2006 **PhD Student / Substitute Assistant**  
 Universitatea Politehnica Timișoara, Facultatea de Mecanică, Departamentul de Mecatronică  
 Timișoara, Bd. Mihai Viteazul, nr.1, 300222; www.upt.ro
- Research activities: Development of doctoral thesis
  - Teaching activities: Hydro-pneumatic drives (laboratory, project); Advanced Programming Languages (laboratory); Simulation of Electro-mechanical Systems (laboratory); Prostheses (laboratory, project)
- Business or sector Education / University
- 2003 - 2005 **IT Technician**  
 SC PK Digital SRL  
 Timișoara, Str. Daliei, nr. 13/A
- Handling warranty issues for computer components
  - Various activities related to computers and IT components

Business or sector IT products distribution

- 2000 - 2003 **IT Technician**  
SC Condata SRL  
Arad, Str. Zdrenjanin, nr. 8
  - Network and IT systems administrator
  - Generation of digital maps and collection of reference points
- Business or sector Engineering services in telecommunications

**EDUCATION AND TRAINING**

- 2011 **KUKA College certificate**  
KUKA Robotics Hungaria Ipari Kft.
  - Course "Basic Robot Programming"
- 2001 - 2006 **PhD diploma** EQF nivel 8  
Universitatea „Politehnica” din Timișoara
  - Contributions to the Constructive and Functional Optimization of Anti-lock Brake Systems
- 1996 - 2001 **Engineer diploma** EQF nivel 6  
Universitatea Politehnica Timișoara, Facultatea de Mecanică, Industrial Robots specialization
  - Automatic Surface Measurement System
- 1992 - 1996 **Baccalaureate diploma** EQF nivel 5  
**Programing analyst assistant certificate**  
Elena Ghiba-Birta High school, Arad, Informatics specialization
  - Micro-caddy: C ++ program for the selection and calculation of several types of mechanical transmissions

**PERSONAL SKILLS**

Mother tongue Romanian

Other language

	UNDERSTANDING		SPEAKING		WRITING
	Listening	Reading	Spoken interaction	Spoken production	
English	C2	C2	C2	C2	C2
French	B2	B2	B1	A2	A2

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

- Communication skills
- very good communication skills acquired through the experience of university teacher and trainer
  - very good communication skills acquired by offering specialized technical advice and assistance

## Organizational / managerial skills

- good teamwork, coordination and division of tasks skills
- good skills for organizing events with a large number of people, acquired through coordination and participation in the organizing committees of several international conferences, workshops and summer schools
- good skills for organizing and managing and implementing projects, acquired as a result of professional and independent activities

## Job-related skills

- very good skills for disseminating information, analysis and scientific research, acquired through the experience of a university teacher and researcher
- very good knowledge and skills of working with pneumatic and electro-pneumatic equipment; very good working skills and installation of PLCs, microcontrollers and robots of different types
- a very good knowledge of PLC programming environments: Step7, TIA Portal, WinCC, MicroWin, FST, CX-One, Codesys, as well as the Fluidsim simulation environment
- good programming knowledge of industrial robots (Kuka, Cloos, UR, Dobot)
- good knowledge of working with FDM 3D printers as well as associated programs and utilities.

## Computer skills

SELF EVALUATION				
Data processing	Communication	Content creation	Security	Problem solving
Experienced user	Experienced user	Experienced user	Experienced user	Experienced user

Levels: Elementary user - Independent user - Experienced user  
 Digital skills - Self-assessment grid

- a long experience (over 20 years) with IT technology, both in terms of hardware and software, acquired as a result of professional and independent activities.
- very good programming skills in different languages: .NET (VB, C#), good programming skills in languages based on C and Pascal standards, in scripting languages (Matlab / Octave, LUA, Python), as well as in Web design work (HTML, Wordpress)
- very good working skills with Windows / Linux operating systems as well as with associated utilities and general-purpose programs; good command of several CAD / CAE design environments (SolidWorks, Creo, Fusion 360, FreeCad, AutoCad), very good working skills with dedicated multimedia and internet programs
- good photo-video and audio editing skills (Gimp, Paint.Net, Inkscape, Audacity, VirtualDub, VSDC), acquired as a result of independent activities.
- web page admin for the Department of Mechatronics at UPT: <http://mctr.mec.upt.ro>

## Other skills

- passionate about new technologies in many fields – and how different things are built
- woodworking, design and construction of acoustic enclosures and furniture
- DIY projects, nature and outdoor activities lover, amateur photographer, amateur beekeeper

## Driving license

B type

## ADDITIONAL INFORMATION

## Projects ▪ R&amp;D projects' management (project director):

Project/contract name	Contract no.	Date	Funding source	Value, Euro
High performance mechatronic system for book scanning in the Branch Library of the Romanian Academy	BC 100	2021-2022	Romanian Academy	30000
Cooperation agreement Festo-UPT	CEP 46	2018-2022	FESTO SRL	952
Cooperation agreement ZOPPAS-UPT	CEP 43	2018	SC ZOPPAS Industries România SRL	4260
Cooperation agreement Festo-UPT	CEP 16	2015 - 2017	FESTO SRL	11100
Technical assistance and consulting on the optimization of small-scale railway model manufacturing processes and equipment.	67/2011	2011	SC Modelleisenbahn SRL Arad	2120
Technical assistance for the maintenance of pneumatic drive systems	61/2009	2009	SC MAHLE Componente de motor SRL Timisoara	792
Technical assistance and consulting in hydraulic and pneumatic drive systems	657/2008	2008	SC TRW Automotive Safety Systems SRL Timisoara	869

- Honors and awards
- FLEX Recognition Award – for his contribution to science and technology in Timisoara (2017)
  - Best Paper Award – Third IFToMM Asian Conference on Mechanism and Machine Science (2014)
  - „Bologna Professor” title, awarded by the National Alliance of Romanian Student Organizations (ANOSR), <http://www.profitari.ro/comunitate/profesorii-bologna.html>
  - Best Poster Award – 20th DAAAM International World Symposium (2009)

- Memberships
- Association for Promoting the Digital Mechanism and Gear Library – DMG-Lib e.V. (din 2016)
  - Romanian Robotics Society – SRR (din 2012)
  - Romanian Association for Mechanisms and Machine Science – ARoTMM (din 2012)

- Research interests
- electro-pneumatics, automation and control, service and industrial robots, general mechatronics

- References
- trainer for Festo Didactic Romania since 2006, in the fields of: pneumatics, electro-pneumatics, valve islands, electric drives, PLCs, safety in pneumatics, energy saving in pneumatics, engineering principles in pneumatics