



## Europass Curriculum Vitae



### Personal information

First name(s) / Surname(s) **Ilare BORDEAȘU**

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Nationality

Date of birth

Gender

**Desired employment / Occupational field** **Polytechnic University of Timisoara / Technical Higher Education**

### Work experience

- | Dates                                   |  |
|---|--|
| ○ <b>2008 – present:</b>                | <b>Supervisor (Ph.D) in Mechanical engineering</b> (8 people have obtained the PhD title; 6 people are PhD students in the internship)   |
| ○ <b>February 2007- present:</b>        | <b>Professor</b> at Polytechnic University of Timisoara, Faculty of Mechanical Engineering, Department of Hydraulic Machinery;           |
| ○ <b>October 1998- February 2007:</b>   | <b>Associate professor</b> at Polytechnic University of Timisoara, Faculty of Mechanical Engineering, Department of Hydraulic Machinery; |
| ○ <b>October 1994-October 1998:</b>     | <b>Lecturer</b> at Polytechnic University of Timisoara, Faculty of Mechanical Engineering, Department of Hydraulic Machinery;            |
| ○ <b>October 1990-October 1994:</b>     | <b>Assistant professor</b> at Polytechnic University of Timisoara, Faculty of Mechanical Engineering, Department of Hydraulic Machinery; |
| ○ <b>September 1988- October 1990 ;</b> | <b>Assistant</b> at Polytechnic University of Timisoara, Faculty of Mechanical Engineering, Department of Hydraulic Machinery;           |
| ○ <b>September 1985-1988:</b>           | <b>Engineer and designer</b> at "Electrotimis" Timisoara;  |

*Note: The academic ranks are written according to romanian hierarchy system!*

Occupation or position held

**Main activities and responsibilities** - **Head of Department** Mechanical Machines, Equipment and Transportation (2020-present), **Head of Department** of Hydraulic Machinery (2008 -2012), **Scientific Secretary** Department of Hydraulic Machinery (2004-2008), **Head of Hydraulic Machinery laboratory**(1996-2008), **Member of Department Office** of Machines, Mechanical, Equipment and Transportation (2008 - present), **Head of the workshop for repairing and maintenance the hydraulic machines** (1996-2008), **Member of Professional** council of the Faculty of Mechanical Engineering(2000), **Member of Senate** of the Polytechnic University of Timișoara (2008 - present);

- **President of the Free Trade Union of UPT (2004 -), Vice President of the National Trade Union Federation ALMA MATER (2008 -), Vice-president, Member of the Executive Office of the National Trade Union Federation ALMA MATER-** responsible for western area (2004 -present), **President of the Free Trade Union of UPT- Faculty of Mechanical Engineering**(2000-2008), **member of UPT Free Trade Union Council** (1998 -present);

**Name and address of employer** Polytechnic University of Timisoara, street: P-ța Victoriei nr. 2, postcode: 300006, city Timișoara, country: Timiș Romania

**Type of business or sector** -Technical Higher State Education

### Education and training

**Dates**

- o 1997: Get the title (Phd) **Engineering doctor in engineering science**, at Polytechnic University of Timisoara,(degree series P, nr. 0000557)
- o 1990-1997: PhD courses,
- o 1980-1985: Polytechnic Institute “Traian-Vuia” of Timisoara, Faculty of Mechanical Engineering, Department of Hydraulic and pneumatic Machinery,
- o 1974-1978: Industrial High School number 1 of Drobeta Tr. Severin, County Mehedinți. Romania
- o 1966-1974: General school with 8 classes (primary and secondary school), of Burila -Mică, County Mehedinți; Romania

**Title of qualification awarded**

**Principal subjects/occupational skills covered** Fluid mechanics, hydraulic turbines, pumps and pumping stations, hydraulic machinery manufacturing technology, cavitation, hydraulic and pneumatic actuators and controls, Wind turbine / researcher, designer and technologist in turbo-machines, wind aggregates, hydraulic drive systems and cavitation

**Name and type of organisation providing education and training** Polytechnic University of Timisoara

**Level in national or international classification** PhD engineer

### Personal skills and competences

**Mother tongue(s)** **Romanian**

**Other language(s)**

**Self-assessment**  
*European level (\*)*

#### Understanding

#### Speaking

#### Writing

Listening                      Reading                      Spoken interaction                      Spoken production

**English**                      C2 Independent user                      C2 independent user                      B2 independent user                      B2 independent user                      B2 independent user

**French**                      B1 Experienced user                      B1 Experienced user                      B1 Experienced user                      B1 Experienced user                      B1 Experienced user

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

**Social skills and competences**

- Team spirit gained by team working in design and research programs
- Good communication skills gained through my experience as a university lecturer and as an active participant in symposiums and professional conferences;
- Ability to adapt to different social and cultural environments obtained through the work experience in industry and as a professor.

Organisational skills and competences	<p>2012 – present: member CNATDCU (17 Committee - Mechanical Engineering, Mechatronics and Robotics):</p> <p>2003 – present: Expert evaluator CNCSIS 2003,</p> <p>2008-present: Expert ARACIS</p> <p>2007 –present: Member of the General Association of Engineers in ROMANIA</p> <p>2007 - present Member of the Association of Hydraulics Engineers in Romania, branch of Timișoara</p> <p>1990 – present: Member of the board of directors of the Professional Association "PROCATEDRA"</p> <p>2019-present Scientific Reference International Journal of Multiphase Flow</p> <p>2019-present Scientific Reference for Journal of Surface &amp; Coatings Technology</p> <p>2018-present Scientific Reference for Journal of Ultrasonics - Sonochemistry</p> <p>2018-present Scientific Reference for Journal of CORROSION SCIENCE</p> <p>2017-present Scientific Reference for WEAR</p> <p>2015-present Scientific reference for Journal of Materials &amp; Design</p> <p>2014-present: member of the Scientific Reference Committee of the journal "Hydraulics" Magazine of Hydraulics, Pneumatics, Tribology, Ecology, Sensorics, Mechatronics, ISSN 1453 - 7303</p> <p>2007 –2010: Member ASTM Technical Committee G02 on Wear and Erosion Subcommittee G02.10 on Erosion by Solids and Liquids, Task Group on revision of Method G32 ("cavitation Erosion using Vibratory Apparatus")</p> <p>2000 -present Member of editorial Board and scientific reviewer of Journal of "MATERIALE PLASTICE" (Plastic materials) (ISI Journal) (2007 -);</p>
Technical skills and competences	Materials, heat treatments, manufacturing technologies, mathematics,
Computer skills and competences	- advance user of all Microsoft Office tools (Word, Excel, Power-Point, etc.) and other programs for calculation, text, design or photo;
Other skills and competences	<p>- Solve the disputes through mediation, ability gained from positions held during the military service, the university and the union movement;</p> <p>- Skills in project writing and project management</p>
Driving licence	Driving licence type B (car)

## **Additional information** Innovative activity and publishing:

- Inventions: **1**
  - Innovations: **3**
  - Handbooks and courses ISBN: **10** (on 2 first author and one another 2 sole author)
  - Guiding books for laboratory and design: **2** (1 first author)
  - Collection of problems: **1**
  - Papers published in specialized journals: **231** (**57** in ISI Journals, **53** BDI Journals and **121** recognized journals by CNCSIS)
  - Papers published in conferences, congresses, symposiums: **208** (**50** in ISI conferences proceedings, **32 volumes of** international conferences and symposiums organized abroad, , **45** at international conferences organized in Romania and **81** at national conferences.
- WEB of Science-ISI (total number of papers **107**, into **259** am cited, sum of citations **465**, without self-citations **284**, rata de citare **4.35**, HIRSCH index **h = 14**)
- Scopus (Total number of works **111**, sum of citations **525**, without self-citations **293**, HIRSCH index **h = 14**)
  - Google Scholar (citation sum **670**, HIRSCH index **h = 13**)

### **Participation in contracts:**

- Research (Grants and in other national programs): **44** from which in charge to **14** (all CNCSIS grants with MEC);
- research with others: **20** from which in charge on subject to **6**
- Execution of items: **5** from which in charge to **2**
- programs / projects / international contracts: **3**
- Awards and medals: Gold Medal at the International Exhibition of inventions of Genova (April 2007); Silver Medal at the International Salon of inventions and new technologies "INVENTIKA" in Bucharest (2-6 October 2007), Gold Medal at the International Centre business and technological inventions in Brussels (2008), Certificate of Deserving(City Hall SEBEŞ-ALBA-30-31 may 2008),Distinction of deserving(branch of Cluj-05.06.2009) Jubilee Medal (Faculty of Mechanical and Electrical Engineering of Petrosani -05.15.2007), 2 excellence Awards for "CARTEA TEHNICA" (TECHNICAL BOOK) 2009 (Timis branch-09.14.2009)
- President to commission at the final High school exam: **18**
- Member of the committee for admission to PhD: **19**
- Member of the board of exams and papers of the PhD internship: **32**
- Member of PhD committees support: **10**
- Member of the committee to support teaching Grade 1: **8**

**Annexes** - It may present on request, copies of any certificate or document to which reference was made.