

Curriculum vitae Europass



Personal information

First name(s) / Surname(s) VĂTAVU Sorin

Address(es) Petroşani, Avram lancu Street, Building no. 5A, Apartment no. 22, Entrance no. 2, code 332025

Telephone(s) - Mobile: 0721783848

Fax(es) -

E-mail(s) sorinvatavu57@yahoo.com

Nationality Romanian

Date of birth The 5th of November 1957

Gender Male

Desired position / Professional

University of Petroşani, Faculty of Mechanical and Electrical Engineering, Department of Mechanical and Industrial Engineering and Transports / Associate Professor

Professional experience

Period February 2008 →

Occupation or position held Associate Professor

field

Main activities and responsibilities Lecture, project and laboratory activities carried out with mechanical and industrial engineering and

transport licence students (Hydraulic and pneumatic operation, Hydraulic Machineries, Machines' Systems and Equipments) and mechanical engineering master students (Transducers and Physical Measures Measuring Devices, Safety and diagnosis of machineries and equipments, Fluid Process Installations and Equipments, Design Basics, experimental data acquisition and processing); Hydraulic

Machines Educational activities with ERASMUS incoming students starting with 2013.

Responsibilities: Deputy Director of the Department of Mechanical and Industrial Engineering and Transports (from 2011); Chairman of ALUMNI – University of Petroşani Graduates' Association (from 2013); Responsible of the Timetable Collective of the University (from 2009); Scientific Secretary of

the Department of Mechanical and Industrial Engineering and Transports (2010 to 2011).

Name and address of employer University of Petroşani, Romania

Type of activity or field of activity Specialised Scientific, technical and management activities

Period October 1991 - February 2008

Occupation or position held Lecturer

Main activities and responsibilities
Lecture, project and laboratory activities carried out with mechanical and industrial engineering and

transport licence students (Hydraulic and pneumatic operation, Hydraulic Machineries, Machines' Systems and Equipments) and mechanical engineering master students (Transducers and Physical Machineries Pouriese, Sefety and diagnosis of machineries and equipments)

Measures Measuring Devices, Safety and diagnosis of machineries and equipments).

Name and address of employer University of Petroşani, Romania

Type of activity or field of activity Specialised Scientific, technical and management activities

Period October 1990 - October 1991

Occupation or position held Assistant Lecturer

Laboratory Activities carried out with mechanical engineering and mining licence students (Hydraulic Main activities and responsibilities

and Pneumatic Operation. The Mechanic of Fluids).

Name and address of employer Petroșani Mining Institute (University), Romania

Type of activity or field of activity Specialised scientific, technical and management activities

> Period May 1990 - October 1990

Occupation or position held Scientific Researcher

Research and design activities (in the fields of electro-mechanics and mining and industrial ventilation) Main activities and responsibilities

and Assistant Lecturer (Hydraulic and Pneumatic Operations) - Faculty associate

Name and address of employer Mining Safety Institute (ISM) of Petrosani, Mining Institute of Petrosani, Romania

Specialised scientific and technical activities Type of activity or field of activity

> Period December 1986 - May 1990

Occupation or position held Design Engineer

Design and research activities (in the field of electro-mechanics and of mining and industrial Main activities and responsibilities

ventilation) and Assistant Lecturer (Hydraulic and Pneumatic Operation) – Faculty Associate.

Name and address of employer The Research Centre, Technological Engineering and Design for Mining Safety (CCITPSM) of

Petroşani, Mining Institute of Petroşani, Romania

Type of activity or field of activity Specialised scientific and technical activities

> Period September 1985 - December 1986

Occupation or position held **Process Engineer**

Main activities and responsibilities Design and research activities (the mechanical field) and Assistant Lecturer (Hydraulic and Pneumatic

> Operation) - Faculty Associate. Deputy Head of Design Staff

Name and address of employer The Centre for Scientific Research and Process Engineering for Mining Machineries (CCSITUM),

Department no. 310 Petroşani, Mining Institute of Petroşani, Romania

Specialised technical and management activities Type of activity or field of activity

> Period September 1984 - September 1985

Occupation or position held Engineer in training (assigned)

Main activities and responsibilities Design activities (in the field of mechanics) and Assistant Lecturer (Hydraulic and Pneumatic

Operation) - Faculty Associate.

Name and address of employer The Centre for Scientific Research and Process Engineering for Mining Machineries (CCSITUM).

Department no. 310 Petroşani, Mining Institute of Petroşani, Romania

Type of activity or field of activity Specialised technical activities

> Period September 1982 - September 1984

Occupation or position held Engineer in training

Main activities and responsibilities TQC Activities. Head of TQC Staff of the Department of Hydraulic Mining

Name and address of employer Mining Machineries Enterprise (IUM) Petroşani, Romania

Type of activity or field of activity Specialised technical and management activities

Education and training

Period 29 August 2015 - 05 September 2015

Title or qualification awarded Staff Mobility for Training

Main subjects / professional skills Skills acquired in: Mechanical Engineering, Hydraulic Power & Machines, Transports Engineering and

> covered **Quality Assurance**

Name and type of the institution PARAGON Europe

providing education and training

Malta

National or international classification Continuing professional development

level

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31.December. 2015

Period 1992 – 1999

Title or qualification awarded Doctorate in Technical Sciences, the field of Mining Machineries and Installations, Thesis:

Contributions regarding the energetic study of hydraulic operated mining systems / Diploma Series R

No. 3105, No. 228 / 02.02.2001

Main subjects / professional skills Mining Machineries and Installations; Hydraulic and pneumatic operation; Fluid Mechanics /

covered Skills acquired in: Hydraulic power systems; The energetic of hydraulic systems and installations;

Fluid transport; Thermal exchange phenomena.

Name and type of the institution providing education and training

University of Petroşani

National or international classification PhD studies,

ISCED 854 (section 271) in UNESCO ISCED 2011

http://www.uis.unesco.org/Education/Documents/isced-2011-en.pdf

Period September 1988 – June 1989

Title or qualification awarded Post-graduate graduation degree, field of Industrial Robots

Diploma Series B No. 2719, No. 469 / 03.09.1990

Main subjects / professional skills Mechanics and Kinematics; Mechanisms; Hydraulic and Pneumatic Operation; Designing and building

industrial robots / Skills in designing and building industrial robots

Name and type of the institution Polytechnic Institute of Bucharest providing education and training

National or international classification Post-graduate studies,

covered

level

level ISCED 757 (section 258) in UNESCO ISCED 2011

http://www.uis.unesco.org/Education/Documents/isced-2011-en.pdf

Period October 1977 – June 1982

Title or qualification awarded Mechanical Engineer /

Diploma Series A No. 18943, No. 308 / 11.10.1984

Main subjects / professional skills Mathematics; Mechanics; Materials' Resistance; Mechanisms and Machineries' Parts; Fluid

covered Mechanics; Hydraulic and Pneumatic Operation; Thermo-technic; Machines' Construction Technology;

Mining Machineries and Installations; Technologic equipments /

Skills in operating, designing and conceiving mining machines, equipments and installations;

Designing, operating and maintaining hydraulic installations and systems.

Name and type of the institution Mining Institute of Petroşani,

providing education and training Faculty of Mining Machineries and Installations

level ISCED 666 (section 237), domeniu 54 (section 286) în UNESCO ISCED 2011,

http://www.uis.unesco.org/Education/Documents/isced-2011-en.pdf

Period September 1972 – June 1976

Title or qualification awarded Baccalaureate Diploma

Diploma Series J No. 59047, No. 318 / 30.06.1976

Main subjects / professional skills Mathematics; Physics; Romanian Literature; Foreign Languages; History; Geography; Natural History

covered / General Knowledge Skills

Name and type of the institution Sciences and Humanistic High-school of Petroşani

providing education and training

level ISCED 344 (section 184) în UNESCO ISCED 2011

http://www.uis.unesco.org/Education/Documents/isced-2011-en.pdf

Personal skills and abilities

Maternal tongue Romanian

Known Foreign Language(s) Self assessment European Level (*) French

French and English

Self assessment	Understanding		Speaking		Writing	
European Level (*)	Listening	Reading	Spoken interaction	Spoken production	Written production	
French	C1 Experimented user	C1 Experimented user	C1 Experimented user	B2 Independent User	B1 Independent User	
French	B1 Independent User	B1 Independent User	B1 Independent User	A1 Elementary Use	ntary UserA1 Elementary User	
	(*)Common European Framework of Paterence for Languages					

(*)Common European Framework of Reference for Languages

Social skills

- Communication skills acquired through personal scientific and educational experience;
- Team spirit acquired during the professional training process.

Management skills

 Managerial, analysis and synthetic skills acquired through training and personal experience (Positions in the Council of the Department of Mechanical and Industrial Engineering and Transports since 2010; Coordinating the design / research activity - 1985 – 1990).

Technical skills and abilities

- Designing components and synthesising mechanical systems:
- Designing, building and operation of classical measuring systems based on sensors and transducers specific to fluid processes;
- Designing, building, operation and maintenance of hydraulic operation systems and hydraulic networks:

Skills acquired through professional formation and personal professional experience.

Computer skills and abilities

 Using Microsoft Office tools and Windows, skills acquired through personal experience and professional training sessions.

Artistic skills and abilities

Other skills and abilities

- University time table staff responsible since 2009;
- Chairman of ALUMNI, University of Petrosani Graduates' Association since 2013;
- Miniature models.

Driver's Licence Category B

Additional information

- Deputy Director of the Department of Mechanical and Industrial Engineering and Transports;
- Member in the Senate of the University of Petroşani;
- Member of the Council of the Faculty Mechanical and Electrical Engineering;
- Member of the General Assembly of Engineers of Romania;
- Associate Editor for the Annals of the University of Petroşani, Mechanical Engineering;
- Chairman of the University of Petroşani Graduates' Association ALUMNI
- Statistics and scientific activity:
 - 5 speciality books and booklets, published by CNCSIS (2) and locale (3) publishing houses
 - 99 published scientific papers, 6 of which are published abroad, 11 in BDI, 33 B+ and B according to CNCSIS
 - 1 patented innovation
 - 26 research papers based on researching contracts as head of researching theme and staff
 - 12 Students' Scientific Sessions coordinated papers, 6 rewarded papers

Additional information

- Monographs and speciality books
- Scientific activity extract 1. Pătrașcu P., Vătavu S., Hidraulica mașinilor miniere. Elemente de actionări hidraulice, Universitas Publishing House, ISBN (10) 973-741-029-7; ISBN (13) 978-973-741-029-0, Petrosani, 301 pages, 2006
 - 2. **Vătavu S.**. Masini hidraulice, Turbine hidraulice, Fundamente, Universitas Publishing Hosue, ISBN (10) 973-741-052-1; ISBN (13) 978-973-741-052-8, Petrosani, 272 pages, 2006
 - 3. Pătrascu P., Vătavu S., Traductoare și aparate pentru măsurarea mărimilor fizice. University of Petrosani Lithography, 1997
 - Papers published in speciality magazines and conference volumes
 - 1. Vătavu N., Vătavu S., Opinions on the Compliance of Underground Non-metallic Pipework Intended for the Conveyance of Oil Products with the European Safety Requirements, Annals of the University of Petrosani, Mechanical Engineering, vol. 11 (XXXVIII), ISSN 1454-9166, Petrosani, 2009, pp. 229-236
 - 2. Vătavu, N., Vătavu, S., and others, New test methods of non-metallic pipeworks for liquid fuels Wiertnictwo Nafta Gaz 26/3. Czasopisma Elektroniczne Akademia Górniczo-Hutnicza. ISSN 1507-0042. Krakow. 2009. 567-573. http://journals.bg.agh.edu.pl/WIERTNICTWO/indexphp?vol=2009-03
 - 3. Vătavu S., Vătavu N., Ideas concerning the Safety of Hydraulically-mechanized Supported Coal-Faces, Annals of the University of Petrosani, Mechanical Engineering, vol. 12 (XL), ISSN 1454-9166. Petrosani. (B+. CNCSIS magazine), 2011, pp. (being issued)
 - 4. Vătavu S., Vătavu N., Structural and Functional Particularities and Principles of Calculus for the Energetic Parameters of Hydraulic Props in Powered Roof Support, COlloque FRancophone en Energie, Environnement, Economie et Thermodynamique (COFRET), 4-eme edition, pe CD, ISBN 2.6905267.61.5, Ecole des Mines de Nantes, 2008
 - 5. Vătavu S., Vătavu N., Systems for the Control and Adjustment of Hydraulic Parameters in the Main Feed Pipelines of the Powered Roof Supports for Longwall Working, Proceedings of the International Conference on Hydraulic Machinery and Equipments HME 2008 in Scientific Bulletin of the "Politehnica" University of Timisoara, Romania, Transactions on Mechanics, Tom53 (67), Special Issue, ISSN 1224-6077, (B+, CNCSIS magazine), pp. 405-410, 2008
 - 6. Vătavu S., Vătavu N., Study on the Safety Valves for the Hydraulic Props on the Roof Supports used during Coal Mining, Annual of University of Mining and Geology "St. Ivan Rilski", vol. 53, Part. III, Mechanization, electrification and automation on mines, ISSN 1312-1820, Sofia, 2010, pp. 7-11.
 - 7. Vătavu S., Vătavu N., Theoretical Aspects on Pumping Systems and Hydraulic Networks, Lucrările științifice ale Simpozionului Internațional Multidisciplinar UNIVERSITARIA SIMPRO 2010, Technological machines and equipments technology, mechanisms and machines mechanics and resistance, ISSN 1842-4449, Petroşani, 2010, pp.105-110.
 - 8. Vătavu S., Vătavu N., The Study of Hydrodinamic System used in Rail Transport, Annals of the University of Petrosani, Mechanical Engineering, vol. 14 (XLI), ISSN 1454-9166, Petrosani, (BDI: EBSCO, Scipio, Periodicals.ru, ..., B+ magazine, code 26 CNCSIS), 2012, pp 211-218.
 - 9. Loga W., Vătavu S., Florea V.A. Possibilities to reduce Interruption in the Excavators E_SR_C-1400 functioning by Improving Centralized Lubrication System of Bearing pressure, Revista minelor / Mining Revue, nr. 1, ISSN-L 1220-2053/ISSN 2247-8590, (BDI: EBSCO, B+ magazine, code 293 CNCSIS), Petroşani, 2013, pp. 37-40.
 - 10. Vătavu S., Vătavu N., Pressure Source for Hydraulic Actuations used in Hazardous Explosive Atmospheres, The 6th International Conference on Manufacturing Science and Education – MSE 2013 - Proceedings, ISSN 1843-2522, Sibiu, 2013, pp 341-344.
 - 11. Vătavu S., Vătavu N., Structural, Functional and Energetic Markers of Refrigerating Installations, 6th International Multidisciplinary Scientific Symposium "UNIVERSITARIA SIMPRO 2014"-Proceedings on CD, ISSN-L 1842 - 4449; ISSN 2344 - 4754, University of Petrosani, 10-11 oct. 2014, http://www.upet.ro/simpro/2014/proceedings/06%20-390-395. %20MECHANICAL%20ENGINEERING%20AND%20TRANSPORT/6.2.pdf
 - Contracte de cercetare
 - 1. Florea C., Vătavu S., and others co-author, Materiale metalice cu structuri compozite utilizabile în atmosfera potential explozivă, contract no. 98/04.09.2006, addendum 1/2007 with ANCS, Excelence Researching Programme - MATNANTECH, Module I CEEX, 2007 - 2008
 - 2. Vătavu S., head of researching theme, Studiu privind soluțiile tehnice în vederea realizării și punerii în funcțiune a standurilor de încercare pentru conducte nemetalice, Faza 1: Analiza soluțiilor tehnice pentru realizarea standurilor de încercare în vederea asimilării și implementării noilor metode de încercare și evaluare precisă a caracteristicilor conductelor nemetalice subterane pentru produse petroliere. Concepere / proiectare standuri de încercare pentru încercări hidraulice, pneumatice şi mecanice, Contract no. 8385/2008, part of the Finance contract PN 07-45-02-04/31.01.2007, with INSEMEX Petroşani, 2008