

## Curriculum vitae Europass



### Personal information

Surname(s) / First name(s) **Sorin Aurel / RAȚIU**  
 Address(es) Building I, Mihai Eminescu street, 330176, DEVA, Romania  
 Telephone(s) 0040254207520  
 Fax(es) 0040254207501 Faculty of Engineering Hunedoara  
 E-mail [sorin.ratiu@fih.upt.ro](mailto:sorin.ratiu@fih.upt.ro)  
 Nationality Romanian  
 Date of birth 26.06.1969  
 Gender Male

### Desired employment / Occupational field

Politehnica University of Timisoara, Faculty of Engineering Hunedoara  
 Higher education

### Work experience

Dates	2001 - present
Occupation or position held	Lecturer, PhD
Main activities and responsibilities	Educational and research activities
Name and address of employer	Politehnica University of Timisoara, Faculty of Engineering Hunedoara
Type of business or sector	Higher education
Dates	1998 - 2001
Occupation or position held	Assistant Professor
Main activities and responsibilities	Educational and research activities
Name and address of employer	Politehnica University of Timisoara, Faculty of Engineering Hunedoara
Type of business or sector	Higher education
Dates	1995 - 1998
Occupation or position held	Teaching assistant
Main activities and responsibilities	Educational and research activities
Name and address of employer	Politehnica University of Timișoara, Faculty of Engineering Hunedoara
Type of business or sector	Higher education

## Education and training

Dates	2012-2013
Title of qualification awarded	Certificate of completion
Principal subjects / occupational skills covered	Blended -learning training and modern educational technologies for higher education – DidaTec
Name and type of organization providing education and training	Politehnica University of Timișoara E-learning Center
Dates	2010-2012
Title of qualification awarded	Master's degree, Series A, No. 0224828
Principal subjects / occupational skills covered	Automotive Engineering / Construction and operation of road vehicles
Name and type of organization providing education and training	Politehnica University of Timișoara Mechanical Faculty
Dates	23-26 November 2011
Title of qualification awarded	Certificate of completion, No. 935/30.12.2011
Principal subjects / occupational skills covered	Implementation of the quality management system developed in the CALISIS project / Quality Assurance in the Romanian Continuing Vocational Training System
Name and type of organization providing education and training	National Authority for Qualifications
Dates	2009
Title of qualification awarded	Certificate of completion, Series E, No. 0132758
Principal subjects / occupational skills covered	Human resources manager
Name and type of organization providing education and training	Swiss – Romanian “Multimedia” Institute, Deva, Romania
Dates	2009
Title of qualification awarded	Certificate of completion, Series E, No. 0121888
Principal subjects / occupational skills covered	Project Manager
Name and type of organization providing education and training	Swiss – Romanian “Multimedia” Institute, Deva, Romania
Dates	2008
Title of qualification awarded	Certificate of completion, Series A, No. 0083166
Principal subjects / occupational skills covered	Communication in English
Name and type of organization providing education and training	Swiss – Romanian “Multimedia” Institute, Deva, Romania
Dates	1999 – 2004
Title of qualification awarded	PhD., Series C, No. 0004988
Principal subjects / occupational skills covered	PhD., Materials Science and engineering
Name and type of organization providing education and training	Politehnica University of Timișoara, Faculty of Engineering Hunedoara

Dates	2002 – 2004
Title of qualification awarded	Specialized Postgraduate Diploma, Series D, No. 00110828
Principal subjects / occupational skills covered	Computers and IT
Name and type of organization providing education and training	Politehnica University of Timișoara, Faculty of Engineering Hunedoara
Dates	2002
Title of qualification awarded	Certificate of completion, Series D, No. 0057899
Principal subjects / occupational skills covered	Psycho-pedagogical module Educational psychology, pedagogy, didactics, computer assisted instruction
Name and type of organization providing education and training	Politehnica University of Timișoara / Department of Teacher Training
Dates	2002
Title of qualification awarded	Certificate of internship, No. 738/21.06.2002
Principal subjects / occupational skills covered	AutoCad 3D
Name and type of organization providing education and training	Politehnica University of Timișoara, Faculty of Engineering Hunedoara / Department of Continuing Education
Dates	2001
Title of qualification awarded	Certificate of internship, No. 469/21.02.2002
Principal subjects / occupational skills covered	AutoCad 2D
Name and type of organization providing education and training	Politehnica University of Timișoara, Faculty of Engineering Hunedoara / Department of Continuing Education
Dates	1994 – 1995
Title of qualification awarded	Postgraduate Diploma, Series A, No. 003476
Principal subjects / occupational skills covered	Welding Equipment and Technology/ Protective Gas Welding averaged
Name and type of organization providing education and training	Politehnica University of Timișoara Mechanical Faculty
Dates	1989 – 1994
Title of qualification awarded	Bachelor's degree, Series M, No. 025482
Principal subjects / occupational skills covered	Specialization: Thermal equipments , direction of deepening: Internal combustion engines
Name and type of organization providing education and training	Politehnica University of Timișoara Mechanical Faculty
Dates	1984 – 1988
Title of qualification awarded	Baccalaureate, Series F, No. 35436
Principal subjects / occupational skills covered	Mathematics and physics
Name and type of organization providing education and training	„DECEBAL” High School, Deva, Romania

**Personal skills and competences**

Mother tongue(s) Romanian

Other language(s) English, French

Self-assessment

European level (\*)

**English**

**French**

Understanding				Speaking				Writing	
Listening		Reading		Spoken interaction		Spoken production		Spoken	
C1	Proficient	C1	Proficient	C1	independent user	B1	independent user	B2	independent user
B1	independent user	B1	independent user	A2	basic user	A2	basic user	B1	independent user

(\*)Common European Framework of Reference for Languages

Social skills and competences

Teamwork experience gained in supporting teaching activities and teams formed to conduct the research programs;  
Ability to adapt to multicultural environments, obtained through their work experience abroad and international cooperation;  
Communication skills obtained and developed in a professional context - the work of teaching.

Organizational skills and competences

Organizational skills acquired through activities supporting the educational and related (national and international student scientific conferences);  
Experience in project management and team (collaboration on research projects and European projects).

Technical skills and competences

*Range of teaching:*  
Processes and characteristics of internal combustion engines, The calculation and construction of the internal combustion engine, Auxiliary systems of road vehicles, Testing and diagnosis of road vehicles, Heat transfer and thermal machines;  
*Teaching publication:*  
Monographs / specialized treaties: 1  
Specialized courses / textbooks / exercise books: 5  
Laboratory guidance / mentoring project: 4  
*Scientific activity:*  
90 scientific papers published  
Contributor to 3 research contracts  
Contributor to two European projects : Leonardo da Vinci and CEEPUS  
*Research theme:*  
Numerical simulation of heat transfer processes in internal combustion engines;  
Study to improve the intake of internal combustion engines;  
The optimization of the combustion process in the cylinders of internal combustion engines.

Computer skills and competences

Competencies and skills in using the computer as a tool in teaching and research ( using specialized computer programs for engineering and educational software, interactive programs, educational resources and numerical models, modeling and computer environments simulation).

Driving license

Driving license category: B, C, E.

**Additional information**

Member of professional associations:  
– The General Association of The Engineers in Romania – AGIR, County branch president;  
– Society of Automotive Engineers of Romania – SIAR, member;  
Contacts and references:  
Professor Ph.D.Teodor HEPUT– Faculty of Engineering Hunedoara,  
Associate Professor, PhD. Caius PĂNOIU, Dean of the Faculty of Engineering Hunedoara,  
Associate Professor, PhD. IOAN LAZA, Politehnica University of Timișoara, Mechanical Faculty,  
Associate Professor, PhD. LIVIU MIHON, Politehnica University of Timișoara, Mechanical Faculty.

September 2014

Signature,

