



## Europass Curriculum Vitae



### Personal information

First name(s) / Surname(s) **Rodica NICULESCU**

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Fax(es) +40 348 453 150

E-mail [rodica.niculescu66@upb.ro](mailto:rodica.niculescu66@upb.ro); <https://orcid.org/0000-0002-5833-7752>

Nationality romanian

Date of birth 26.01.1966

Gender female

### Education and training

Dates **May 2017**

Title of qualification awarded Internal quality auditor

Principal subjects/occupational skills covered Internal quality auditor

Name and type of organisation providing education and training TUVKarpát, partner of TUV Thuringia & CCIR

Dates **December 2012**

Title of qualification awarded Systemic knowledge and management - the source of performance in education, business and socio-economic progress

Name and type of organisation providing education and training University of Pitești in collaboration with S.C. Genodynamic S.A.

Dates **2004 – 2006**

Title of qualification awarded	Master's degree
Principal subjects/occupational skills covered	Business Management; Marketing; Human resources management; Right; Accounting / skills to teach economic disciplines and to organize research activities in the economic field
Name and type of organisation providing education and training	Faculty of Economic Sciences, University of Pitesti
Level in national or international classification	Level 7, according to the EQF
Dates	<b>1994-2000</b>
Title of qualification awarded	Doctor's degree (PhD)
Principal subjects/occupational skills covered	Automobile diesel engines; Flow of fluids in pipelines; Research on improving diesel engine cold start / skills to organize research activities in the field of vehicle engines;
Name and type of organisation providing education and training	Polytechnic University of Bucharest;
Level in national or international classification	Level 8, according to the EQF
Dates	<b>1984-1989</b>
Title of qualification awarded	Engineer degree
Principal subjects/occupational skills covered	Math; Physics; Chemistry; Mechanics; mechanisms; machine parts; technologies; Thermodynamics; Heat transfer; Thermal machines; Internal combustion engines.
Name and type of organisation providing education and training	Polytechnic Institute of Bucharest
Level in national or international classification	Level 6, according to the EQF
Dates	<b>1980-1984</b>
Title of qualification awarded	baccalaureate
Principal subjects/occupational skills covered	Mathematics, physics
Name and type of organisation providing education and training	"Nicolae Balcescu" Theoretical High School, Pitesti
Level in national or international classification	

## Work experience

Dates **March 2024 - present**

Occupation or position held Member of the national register of evaluators within the Romanian Agency for Quality Assurance in Higher Education (<https://www.aracis.ro/registrul-national-al-evaluatorilor-cadre-didactice/> )

Main activities and responsibilities Academic management

Dates **May 2023 - present**

Occupation or position held PhD supervisor in the field of "Mechanical Engineering"

Main activities and responsibilities Scientific research

Name and address of employer National University of Science and Technology POLITEHNICA Bucharest, University Center of Pitești

Type of business or sector Higher Education; teaching, scientific research

Dates **March 2022 - present**

Occupation or position held ECTS responsible of the master's program named Automotive Engineering for Sustainable Mobility (AESM) taught in English (<https://www.upit.ro/ro/academia-reorganizata/facultatea-de-mecanica-si-tehnologie-2/departamentul-autovehicule-i-transporturi2/programe-de-master-dat/automotive-engineering-for-sustainable-mobility>)

Main activities and responsibilities Academic management;

Name and address of employer National University of Science and Technology POLITEHNICA Bucharest, University Center of Pitești

Type of business or sector Higher Education;

Dates **November 2019 - March 2024**

Occupation or position held Vice-dean of the Faculty of Mechanics and Technology

Main activities and responsibilities Academic management

Name and address of employer National University of Science and Technology POLITEHNICA Bucharest, University Center of Pitești

Type of business or sector Higher Education;

Dates **November 2019 - March 2024**

Occupation or position held Member of the Scientific Research Council (CCS) of the University Center of Pitești

Main activities and responsibilities Academic management; Scientific research

Name and address of employer National University of Science and Technology POLITEHNICA Bucharest, University Center of Pitești

Type of business or sector Higher Education; Scientific Research

Dates **February 2019 – present**

Occupation or position held Assoc. Professor phd eng @ Department Automobiles and Transport

Main activities and responsibilities Teaching activities at the Department Automobiles and Transport  
Course Owner:  
- Thermodynamics and Thermal Equipment - license  
- Automotive fuels and Energy Conversion - English Master  
- Fuels, Lubricants and Vehicle Maintenance Materials - license  
- Enterprise management – License  
- Marketing; Transportation marketing - license  
Research activities at the Automotive Engineering Research Center (CRC&D-Auto), of the University center of Pitesti.

Name and address of employer National University of Science and Technology POLITEHNICA Bucharest, University Center of Pitești

Type of business or sector Higher Education; teaching, scientific research

Dates **2017 - present**

Occupation or position held Responsible from DAT in the Center for Counseling and Career Guidance (CCOC)

Main activities and responsibilities Support in activities for monitoring the insertion of graduates on the labor market, informing students about the opportunities offered by CCOC

Name and address of employer National University of Science and Technology POLITEHNICA Bucharest, University Center of Pitești

Type of business or sector Higher Education

Dates **2015 - present**

Occupation or position held Responsible of Fuel and Lubricants Laboratory from the CRCD-Auto Research Center

Main activities and responsibilities Research activities

Name and address of employer National University of Science and Technology POLITEHNICA Bucharest, University Center of Pitești

Type of business or sector Higher Education; teaching, scientific research

Dates **2014 - 2019**

Occupation or position held Member of the Council of the Department Automobiles and Transport

Main activities and responsibilities Academic Management

Name and address of employer University of Pitesti

Type of business or sector Higher Education

Dates **2011 - 2019**

Occupation or position held Member of the Council of Faculty of Mechanics and Technology

Main activities and responsibilities Academic Management

Name and address of employer University of Pitesti

Type of business or sector Higher Education

Dates **2008 - 2021**

Occupation or position held Trainer

Main activities and responsibilities Teaching / training activities; course holder: Leadership, entrepreneurship and coaching in school institutions; Leadership and adult training - new action model

Name and address of employer University of Pitesti

Type of business or sector Education, training

Dates **2003 - 2019**

Occupation or position held Lecturer- phd. Department Automobiles and Transport

Main activities and responsibilities Teaching activities at the Department Automobiles and Transport  
Course Owner:  
- Thermodynamics and Thermal Equipment - license  
- Applied thermodynamics and Energy Conversion - English Master  
- Fuels, Lubricants and Vehicle Maintenance Materials - license  
- Enterprise management - License  
- Marketing; Transportation marketing - license  
Research activities at the Automotive Engineering Research Center (CRC&D-Auto), of the University of Pitesti.

Name and address of employer University of Pitesti.

Type of business or sector Higher Education; teaching, scientific research

Dates **1992-2003**

Occupation or position held Assistant Professor, Associate Teacher

Main activities and responsibilities Teaching and research activities at the Department Automobiles and Transport

Name and address of employer University of Pitesti

Type of business or sector Higher Education; teaching, scientific research

Dates **2001-2003**

Occupation or position held Engineer for Thermal Equipment

Main activities and responsibilities Coordinating the maintenance activities of thermal equipment

Name and address of employer SC. Teilor Invest – SRL, Teilor, nr.21, Pitești, Argeș

Type of business or sector Public nutrition; maintenance

Dates **1989 - 2001**

Occupation or position held Engineer

Main activities and responsibilities	Design and tracking of car parts Designing of technologies and tools and devices for checking for the manufacture of automotive components industry, design production
Name and address of employer	SC. Componente Auto – SA, Topoloveni, jud. Argeş;
Type of business or sector	Industry, design, production

## Personal skills and competences

Mother tongue(s) **Romanian language**

Other language(s)

Self-assessment	Understanding		Speaking		Writing
<i>European level (*)</i>	Listening	Reading	Spoken interaction	Spoken production	
<b>English</b>	B2 independent	B2 independent	B2 independent	B2 independent	B2 independent
<b>Spanish</b>	B1 independent	B1 independent	A2 Basic	A2 Basic	B1 independent

(\*) *Common European Framework of Reference for Languages*

Social skills and competences

- team spirit and good communication capacity acquired through:
- participation in professional activities within the working teams (research and administrative)
- volunteer activities as a founding member and vice-president of the NGO Parents Association from Traian, Piteşti
- Member of Professional Associations: Automotive Engineers Society of Romania ([www.siar.ro](http://www.siar.ro)), Société des Ingénieurs de l'Automobile de France ([www.sia.fr](http://www.sia.fr)).

Organisational skills and competences

Acquired managerial skills:

- through training/ education (master 2004-2006, seminar: "Systemic knowledge and management - the source of performance in education, business and socio-economic progress")
- in a professional context - the holder of management courses,
- management activities in 5 projects from which director of 3 projects
- member of faculty council from 2011 to 2019
- Member of the departmental council since 2014 to 2019
- good experience of project management
- leadership - competences acquired in a professional context - (holder of two Leadership courses within the Muntenia Continuing Training Center), coordinator of the teams implementing projects.

Computer skills and competences

Windows Operating System, Office Suite, the software of research equipment in the laboratory

Other details - member of professional associations:  
 Society of Automobile Engineers from Romania ([www.siar.ro](http://www.siar.ro));  
 Société des Ingénieurs de l'Automobile de France ([www.sia.fr](http://www.sia.fr)); SAE  
 International ([www.sae.org](http://www.sae.org))  
 - reviewer (peer-reviewer) of scientific papers for ISI Web of Science journals

Driving licence B category.

Additional Information **10 published books and didactic materials**  
**9 articles (author/co-author) in ISI Web of Science rated journals:**  
 Journal of Mechanical Engineering Science, Energy, Energies, Energy  
 Reports, Science, FUEL  
**13 articles (author or co-author) in indexed volumes ISI**  
**Proceedings**  
**Over 60 articles published in international databases, magazines,**  
**proceedings of national and international conferences and**  
**congresses.**  
**Hirsch index (ISI Web of Knowledge): 4**  
**Google Scholar H index: 8**  
**Scopus H index: 5**

**Guest Professor at:**

- Cnam Paris, department of "Moteurs a Combustion Interne et  
 Turbocompresseurs", based on the Erasmus+ agreement, in three teaching  
 periods: 08-12.12.2014; 13-17.06.2016; 02-06.04.2018  
 - Université Polytechnique HAUTS-DE-France, Valenciennes, Franta, 25-  
 29.11.2019, 25-28.10.2022, 27.11-01.12.2023

**Additional Information**

**REPRESENTATIVE WORKS**

1. **Niculescu, R.**, Nastase, M., Clenci, A. On the determination of the distillation curve of fatty acid methyl esters by gas chromatography, FUEL; Volume 314; Article Number 123143; DOI 10.1016/j.fuel.2022.123143; IF: 8.035 ; WOS: 000743246200006; <https://www.sciencedirect.com/science/article/abs/pii/S0016236122000151>
2. C. Zaharia, **R. Niculescu**, M. Năstase, A. Clenci, Diagnosing the truck engine operation by evaluating engine oil wear and issuing maintenance recommendations, EAEC-MVT, 2022 ([siarcongress.eu](http://siarcongress.eu))
3. **Rodica Niculescu**, Adrian Clenci, Victor Iorga-Siman, Review on the Use of Diesel-Biodiesel-Alcohol Blends in Compression Ignition Engines, Energies 2019, 12, 1194; doi:10.3390/en12071194, [www.mdpi.com/journal/energies](http://www.mdpi.com/journal/energies), 5-Year Impact Factor: 2.990 (2018), Published: 27 March 2019, 2019, <https://www.mdpi.com/1996-1073/12/7/1194/html>
4. Catalin ZAHARIA, **Rodica NICULESCU**, Adrian CLENCI, Victor IORGA, Analyse of used oil in order to emit diagnosis interpretations of the diesel engine operation, ISSN 2457 – 5275 (Online, English), ISSN 1842 – 4074 (Print, Online, Romanian), March 2019, Volume 25, Number 1, 4th Series, 2019
5. Adrian Clenci, **Rodica Niculescu**, Bogdan N. Nicolescu, Mathematics For The Education Of The Engineers In The 21st Century?,

<https://doi.org/10.15405/epsbs.2019.08.03.128>, ISSN: 2357-1330 The European Proceedings of Social & Behavioural Sciences EpSBS, 2019

6. **Rodica Niculescu**, Ion Iosub, Adrian Clenci, Catalin Zaharia, Victor Iorga-Siman, *Development of a test method for distillation of diesel-biodiesel-alcohols mixtures at reduced pressure*, International Congress of Automotive and Transport Engineering - Mobility Engineering and Environment (CAR2017) Book Series: IOP Conference Series-Materials Science and Engineering Volume: 252 Article Number: UNSP 012083 DOI: 10.1088/1757-899X/252/1/012083 Published: 2017
7. **Rodica NICULESCU**, Adrian CLENCI, Victor IORGA-SIMĂN , Cătălin ZAHARIA, *Review on the use of bioethanol / biomethanol – gasoline blends in spark ignition engine*, University of Pitesti, Scientific Bulletin, Faculty of Mechanics and Technology, AUTOMOTIVE series, year XXII, no. 26, <https://www.automotive.upit.ro/> , 2016,  
CrossRef: <https://search.crossref.org/?q=Automotive+Series+University+of+Pitesti>  
Index Copernicus: <http://jml.indexcopernicus.com/search/details?id=28098>
8. Adrian Clenci, **Rodica Niculescu**, Amélie Danlos, Victor Iorga-Siman, Alina Trica, *Impact of Biodiesel Blends and Di-Ethyl-Ether on the Cold Starting Performance of a Compression Ignition Engine*, Energies, Volume 9, Issue: 4, Pages: 284-303; DOI: 10.3390/en9040284, ISSN: 1996-1073, Published: APR 2016 (Impact Factor = 2.072), 2016;
9. Adrian Clenci, **Rodica Niculescu**, Victor Iorga-Simăn, Alina Trică, Amélie Danlos, *On the Effect of Di-Ethyl-Ether (DEE) Injection upon the Cold Starting of a Biodiesel Fuelled Compression Ignition Engine*, 2016, TMREES Fall Meeting (Technologies and Materials for Renewable Energy, Environment and Sustainability), Paris, November 16 – 18, 2016, Published with AIP Conference Proceedings, 1814, 020064 (2017), <http://doi.org/10.1063/1.4976283>, 2016;
10. **Rodica Niculescu**, Victor Iorga-Siman, Alina Trica, Adrian Clenci, *Study on the engine oil's wear based on the flash point*, 7th International Conference on Advanced Concepts in Mechanical Engineering (ACME) 2016, Iași, June 9 – 10, 2016, Published with IOP Conference Series-Materials Science and Engineering, Volume: 147 Article Number: UNSP 012124, DOI: 10.1088/1757-899X/147/1/012124, 2016;
11. Adrian CLENCI, **Rodica NICULESCU**, Sergiu STROE, Victor IORGA-SIMAN, *Experimental investigation for assessing the cold starting performance of a bio-diesel fuelled engine*, The 13th EAEC Automotive European Congress, Valencia 2011, EAEC2011\_A85, [https://www.vdi.de/uploads/media/EAEC\\_FINAL\\_PROGRAMME\\_2011.pdf](https://www.vdi.de/uploads/media/EAEC_FINAL_PROGRAMME_2011.pdf), 2011
12. **Rodica NICULESCU**, Adrian CLENCI, Sergiu STROE, Victor IORGA – SIMAN, *A study on the biodiesel fuelled engine cold start characteristics*, The FISITA World Automotive Congress, Budapest 2010, F2010-C-037, 2010 <https://www.yumpu.com/en/document/read/5033269/preliminary-programme-fisita-2010-world-automotive-congress/26>
13. **Rodica NICULESCU**, Adrian CLENCI, Sergiu STROE, *Improvement of cold startability of a biodiesel fuelled engine using the injection of volatile substances in the intake manifold*, CONAT20102053, The 11th International Automotive Congress, CONAT 2010, organized under the FISITA



<http://www.conat.ro/index.php/conat/2010/schedConf/presentations>

14. **Rodica NICULESCU**, Florian IVAN, Viorel NICOLAE, Catalin ZAHARIA, *Research concerning experimental determination of the main passenger flows within the metropolitan area of Pitesti city in order to validate the opportunity of introducing a new public transport system on individual lane (wheel tramway)*, The 2nd International Congress on Automotive, SMAT 2008, organized under FISITA patronage, Craiova, 2008, SMAT2008R23, 2008 <http://mecanica.ucv.ro/ViataAcademica/Conferinte/smat2008/nou/ListaLucrari.pdf>, <http://mecanica.ucv.ro/ViataAcademica/Conferinte/smat2008/nou/RezumateSMAT2008.pdf>

## **GRANTS / RESEARCH PROJECTS**

### **1.Grants / projects won through international competition**

1. Moteur avec autoregulation de la levee des soupapes d'admission. Mise au point du systeme de controle de levee de soupapes, , Partners: University of Piteşti – Conservatoire National des Arts et Métiers de Paris,Beneficiary: Agence National de VALorization de la Recherche (www.oseo.fr), 2008 – member;
2. Calculation of unsteady in-cylinder flow of gasoline engine. RANS and LES approaches. Calcul des ecoulements instationnaires dans les moteurs a essence. Approches RANS et LES, Partners : University of Pitesti, AVL France SAS, Renault France SAS, 2015-2020 – member;
3. Amélioration de l'efficacité énergétique des véhicules routiers par optimisation du couplage moteur-turbocompresseur, Cod: AUF – FRS Bulgarie 2018, beneficiar: AUF, anul: 2019, domeniul stiintific: Ingineria Autovehiculelor, 2019 – member.

## **2.Grants / projects won through national competition**

1. Cars with hybrid propulsion and continuously variable transmission (CVT), CNCISIS code A 286 / 2002-2003, University of Pitesti, 2003 – member;
2. Educational management in rural areas - M-EDU RUR, Phare Funds, 2008-2009, member of the management team;
3. Opportunity study (passenger traffic) for the construction of an easy and fast transport line on the route Pitesti – Ștefănești – Mărăcineni – Mioveni, No. 04/13.10.2008, beneficiary/financing Argeș County Council, 2008 - director;
4. Research on the development of a method to improve the cold start qualities of biodiesel fueled engines for special purpose vehicles, CNCISIS 696/ 2009 – 2011, University of Pitesti – director;
5. Reducing the polluting effects produced by motor vehicles, by using laser equipment to initiate the ignition of the fuel mixture in thermal engines, CNMP 1433/ 2009 – 2011, National Research and Development Institute for the Physics of Plasma Lasers and Radiation, Bucharest, Măgurele – member;
6. Active and Sustainable Employment Measures - In the Context of the Development of Industrial Clusters - financed by the Sectoral Operational Program for the Development of Human Resources 2007-2013, implementation period: 2011-2012, member of the management team;
7. Research and development of electrical, electronic, thermal systems and innovative technologies for sustainable mobility alternatives, to increase the energy efficiency of vehicles in order to reduce polluting emissions, Beneficiaries: A.M. POS CCE and Renault Technologie Roumanie, 2014-2015 – member;
8. Study on transport and mobility within the South-West Oltenia Region, Contract 35 / 5195 of 18.03.2015, Beneficiary: Agency for Regional Development South-West Oltenia, 2015 – member

## **3. Research contracts with the socio-economic environment**

1. Development of a rapid priming system of catalytic converters for the adaptation of passenger cars to the future EURO7 depollution standard, Beneficiary FEV Romania, year: 2020, scientific field: Automotive Engineering, 2022 – responsible
2. Truck engine diagnostics by evaluating engine oil wear and issuing maintenance recommendations, Beneficiary COMDIVERS, year 2022, member
3. The use of compressed natural gas (CNG) for fueling vehicles, Code: Research contract with the socio-economic environment, beneficiary: Renault Technologie Roumanie, year: 2020, scientific field: Automotive Engineering, 2020 - member
4. Endowment of the Fuels and Lubricants Laboratory, within CRCD - auto, no. 627/14/11/2018, financed by OMV-PETROM, 2018, director
5. Setting up tests on the track with PMS (Portable Measurement System) type equipment, Code: Socio-economic environment, beneficiary: Renault Technologie Roumanie, year: 2019, scientific field: Automotive Engineering, 2019-2020 – member

### References:

Professor habil. **Adrian CLENCI** - [adrian.clenci@upb.ro](mailto:adrian.clenci@upb.ro)

Professor habil. **Nicolae-Doru STĂNESCU** - [nicolae.stanescu@upb.ro](mailto:nicolae.stanescu@upb.ro)

**21.04.2024**