

PERSONAL INFORMATION

Prof.dr.habil.eng. Florin Emil MARIASIU



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Sex Male | Date of birth 10/09/1968 | Nationality Romanian

WORK EXPERIENCE

from 2016 – to present

Professor
Technical University of Cluj-Napoca

- Activities and responsibilities specific to the educational and research fields
Responsible for Internal Combustion Engine Management, Command and Control of Internal Combustion Engines, Means of Transportation, Rational Exploitation of Transport Vehicles courses

from 2013 – to 2016

Associate professor
Technical University of Cluj-Napoca

- Activities and responsibilities specific to the educational and research fields
Responsible for Processes and Characteristics of Internal Combustion Engines, Means of Transportation, Vehicles Body Structure courses

from 2006 – to 2013

Lecturer
Technical University of Cluj-Napoca

- Activities and responsibilities specific to the educational and research fields
Responsible for Processes and Characteristics of Internal Combustion Engines, Internal Combustion Engines I, Maintenance of Agricultural Tractors courses

from 2011 – to 2012

Associate Professor
Babes-Bolyai University of Cluj-Napoca

- Activities and responsibilities specific to the educational and research fields

from 1995 – to 2006

Responsible for Organizational Theories course
Engineer
Robert Bosch GmbH

- Activities and responsibilities specific to the management and marketing of sales network

EDUCATION AND TRAINING

2015

Habilitation Thesis in Mechanical Engineering
Technical University of Cluj-Napoca

- RESEARCH ON POSSIBILITIES TO IMPROVE BIOFUEL'S USE IN INTERNAL COMBUSTION ENGINES FUELLING

2011-2013

Professional training program: "University school for initial and continuous training of teaching staff and trainers in the field of technical and engineering specializations - DidaTec" - project POSDRU / 87 / 1.3 / S / 60891.
Technical University of Cluj-Napoca

2010-2020

- Use and development of modern educational technologies - E-learning and blended learning
Qualification courses in the operation and use of experimental research systems in the field of internal combustion engines
AVL List GmbH, Graz, Austria

2010

- Operation and use of experimental research systems in the field of internal combustion engines
Project manager qualification certification course

- Replace with dates (from - to)

CNFPFA certificate, Romania

 - Mandatory to application for European funding programs and grants

Postgraduate courses in management and marketing

Southern Connecticut State University (USA) and Lider XXI foundation (Romania)
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 - Obtaining advanced and applied skills in the field of management and marketing

PhD degree in Mechanical Engineering

Technical University of Cluj-Napoca
- Replace with dates (from - to)

 - Contributions to the modelling of injection with the combustion chamber shape to optimize the functional cycle of compression ignition engine

BSc - Engineer Qualification)

Technical University of Cluj-Napoca

 - Mechanical engineering

PERSONAL SKILLS

Mother tongue(s) Romanian

Other language(s)

	UNDERSTANDING		SPEAKING		WRITING
	Listening	Reading	Spoken interaction	Spoken production	
English	C2	C2	C2	C2	C2
German	A2	A2	A2	A2	A2

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

Communication skills

- Good communication skills acquired through his own experience as a sales director and working with distributors within the sales networks;
- Open attitude and permanent availability towards students;
- The use of psycho-pedagogical means and methods specific to the educational process;
- Good relationship with department colleagues

Organisational / managerial skills

- Member of the UTCN Ethics Commission (2015-present)
- Member of the ARMM Faculty Council (2016-2020)
- Experience in research project management as a project director and member of research teams
- Coordinator of student teams participating in the international competition of pneumatically operated vehicles "Bosch Rexroth / Aventics Pneumobil" 2010-2015, Eger, Hungary.

Job-related skills/
Area of expertise

- Simulation and modeling of the functional processes of energy sources for vehicles,
- Renewable energies,
- Sustainable transportation;
- Nano materials and nanotechnologies applied in the automotive industry;
- Energy sources and high energy efficiency batteries for electric vehicles;
- Marketing and management of advanced technologies in the automotive industry;

Computer skills

- MS Office, Teams, MathCAD, Origin, Ansys, Boost, Fire, Cruise, Excite, Ricardo, Lotus Engineering

- Other skills**
- Creation and development of e-learning platforms for the disciplines: Engine Management for Transport Vehicles, Processes and Characteristics of Internal Combustion Engines
 - Editor of “Energy” and “Automotive & Transportation” fields - Open Engineering (former Central European Journal of Engineering), De Gruyter Publishing, (2009-2017). and Energies Special Issue – Performance and simulation of electric vehicle (2020-2021)
 - Reviewer: Energy Conversion and Management Journal, Tribology Transaction, Transport, Central European Journal of Engineering, Energy Sources Part B: Economics, Planning and Policy, Journal of Air Transport Management, Annals of Operational Research, International Journal of Energy Technology and Policy, International Journal of Mechanical Engineering Education, Journal of Cleaner Production, Energies, Symmetry, Processes, Electronics, Sustainability,

Driving licence : B (automobiles) and C (trucks)

ADDITIONAL INFORMATION

- Publications**
- Author / first author of 7 books, co-author of 4 books and 1 chapter in a monography
 - Author/first author of over 50 scientific articles and co-author of over 50 scientific papers in the field of mechanical, automotive and transportation engineering.
 - Citations: over 200 in scientific journals indexed in WoS and Scopus

List of the most 5 representative works:

1. Manzetti S., **Mariasiu, F.** (2015) Electric vehicle battery technologies: From present state to future systems, in Renewable and Sustainable Energy Reviews, 51: 1004–1012.
2. Varga B.O., Sagoian A., **Mariasiu F.** (2019) Prediction of Electric Vehicle Range: A Comprehensive Review of Current Issues and Challenges, Energies, 12 (5), 946.
3. Burnete N.V., **Mariasiu F.**, Moldovanu D., Depcik C. (2021) Simulink model of a thermoelectric generator for vehicle waste heat recovery, Applied Sciences, 11 (3), 1340.
4. Varga B, **Mariasiu F.**, Moldovanu D, Iclodean C – “Electric and Plug-In Hybrid Vehicles – Advanced Simulation Methodologies”, Springer Verlag, ISBN 978-3-319-18638-2, 524 pg., 2015.
5. Buidin T.I.C., **Mariasiu F.** (2021) Battery Thermal Management Systems: Current Status and Design Approach of Cooling Technologies, Energies, 14(16), 4879 (WoS IF=3.004)

Projects

Experience in project management:

- Project Director / Manager (4): PNII type contract Ideas Ex. ID175 - "Influence of external energy input on functional parameters and pollutant emissions of internal combustion engines powered by mixed biofuels" (2009-2012), Grant Ministry of European Funds and EEA-Norway Grant, RO 01 Program, contract no.1140 (2016), Subsidiary contracts no.6 and no 13 - Partnership Program for knowledge transfer, R&D activities within the project "Technologies for intelligent urban electric vehicles - URBIVEL", SMIS 105565, 2018-2021 (partners Porsche Engineering Romania and Inovo Finance).
- Expert in EU funds projects (4): POS DRU 109 /2.1/G/81459, POCU/380/6/13-ANTREDOC, POC/SMIS 108428/CeS-UTCN, OLGA-H2020
- Participation as a member in 15 national R&D and consulting projects with economic partners.

Patents

2 Patents and 7 Patent applications in automotive domain (national)

Honours and awards

- More than 20 prizes and awards at Patent National and International Exhibitions
- 6 awards from Romanian National Authority for Research and Innovation
- Faculty of Mechanics' Prize for Research and Innovation - 2016

Memberships

- Member of SIAR (Romanian Society of Automobile Engineers) 2006-2016,
- Member of SIA (Society of Automotive Engineers) 2010-2016
- Member of ASART (Association of Road Vehicle and Transport Specialists) 2018-present
- Member FIEA (International Federation of Automotive Experts) 2016-present