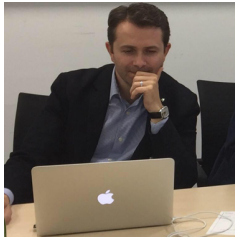


PERSONAL INFORMATION

**BOGDAN OVIDIU VARGA**

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Sex Male | Date of birth 11/11/1979 | Nationality Romanian

WORK EXPERIENCE

2016-present Professor, Technical University of Cluj-Napoca, Automotive Engineering and Transports Dept.

- Activities and responsibilities specific to the educational, teaching and research issues (Bachelor, Master and PhD level)
- Coordinator of the Master Program -Advanced Techniques in Automotive Engineering dedicated to Porsche Engineering- <https://art.utcluj.ro/atae/>
- Responsible of following courses, workshops and seminars: Electric vehicles, Alternative propulsion systems, Diagnosys.

2013-2016 Assoc. Professor, Technical University of Cluj-Napoca, Automotive Engineering and Transports Dept.

- Activities and responsibilities specific to the educational, teaching and research domains
- Responsible of following courses, workshops and seminars: Electric vehicles, Alternative propulsion systems, Diagnosys.

2006-2013 Lecturer, Technical University of Cluj-Napoca, Automotive Engineering and Transports Dept.

- Activities and responsibilities specific to the educational, teaching and research domains
- Responsible of following courses, workshops and seminars: Electric vehicles, Alternative propulsion systems, Diagnosys .

2011-2012 Assistant, Technical University of Cluj-Napoca, Automotive Engineering and Transports Dept

- Activities and responsibilities specific to the educational and teaching domains

EDUCATION AND TRAINING

2015 Habilitation in Mechanical Engineering - Habilitation Thesis " ENERGY EFFICIENCY OF THE ELECTRIC AND HYBRID VEHICLES FOR PUBLIC URBAN TRANSPORT ", Technical University of Cluj-Napoca, OMECS no. 5369/29.09.2015

2014-2015 Postdoctoral research activity " Energy efficiency of vehicles equipped with hybrid or electrical powertrain for urban public transport" Technical University of Cluj-Napoca

2010-2011 Training courses in the operation and use of experimental research systems in the field of internal combustion engines, AVL List GmbH, Graz, Austria (operation and use of research experimental systems in the field of internal combustion engines)

2010 Qualification certification as project manager (CNFPA certificate), S.C. RoMarketing S.R.L (specific competencies in project's management)

2003-2010 PhD Diploma in mechanical engineering, Technical University of Cluj-Napoca (PhD Thesis: "OPTIMIZATION OF THE COMPLEX TRANSMISSION SYSTEMS THROUGH COMPUTER SIMULATION")

2003-2004 Master in Science degree, Logistics of Road Transportation, Technical University of Cluj-Napoca

1998-2003 Bachelor degree, Automotive Engineering, Technical University of Cluj-Napoca

PERSONAL SKILLS

Mother tongue(s) Romanian

Other language(s)	UNDERSTANDING		SPEAKING		WRITING
	Listening	Reading	Spoken interaction	Spoken production	
English	C1	C1	C1	C1	C1
Replace with name of language certificate. Enter level if known.					
French	B1	B1	B1	B1	B1
Replace with name of language certificate. Enter level if known.					
German	A2	A2	A2	A2	A2
Replace with name of language certificate. Enter level if known.					

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

Communication skills

- Very good communication skills gained through my experience as technical speaker for several conferences
- Open attitude and permanent availability towards students.
- Good relationships with colleagues of the department

Job-related skills

- Implementation of green technologies in transport systems in various cities in Romania;
- Simulation and modelling functional processes of electric and hybrid vehicles;
- Advanced technologies systems for electric vehicles evaluation;
- Vehicle diagnosis (OBD II) with advanced technologies;
- 2020-current--member in Faculty of Automotive Engineering, Mechatronics and Mechanics board:
 - board of institutional relations;
 - board of scientific research;
- 2016-2020--member in Faculty of Mechanics board:
 - board of institutional relations;
 - board of scientific research;
- 2012-2016- member in Faculty of Mechanics board:
 - board of institutional relations;
 - board of scientific research
- Expert certified by AWG AKADEMIE- IBB Engineerig- Germany (CDR – crash data retrieval, for vehicles involed in car crash-november 2014;
- Technical Juridical Expert from november 2011 in the following filed:
 - Automotive engineering and traffic (Nr-18625112011, Seria-8710211627102011)
 - Equipment for command and control for road vehicles (Nr-28625112011, Seria-8710211627102011)
- Editor of, (automotive field) of Central European Journal of Engineering, ISSN: 1896-1541 (printed), ISSN: 2081-9927 (electronic),
- Coordinator professor of Formula Student Electric team of Technical University of Cluj-Napoca-2019;
- Regional coordinator fo CEEPUS III program - "Autonomous Vehicles Universities"- University of Maribor-2019;
- Vice-president of Romanian Automotive Engineering Society – SIAR- 2021;

Computer skills

- Computer use: MS Office suite, Corel, Photoshop, Photo Paint, MathCAD, Origin, Ansys, Boost, Fire, Cruise, Lotus Engineering, IPG CarMaker, CANoe 6.0, Concerto AVL. Bosch CDR

ADDITIONAL INFORMATION

- Specialisation abroad
- 2004: Biofuels and engine testing, TU Stuttgart, Germany;
- 2005: Mathematical modelling for PhD thesis, Technical University of Athens, Greece, Leonardo DaVinci Educational program;
- Books and Articles
- Author/First author of 4 books in automotive and transport engineering domains of interest
 - Author/Co-author of more than 40 scientific articles in the fields of mechanical and automotive engineering.
- List of the most representative works in automotive and transport engineering domains:
- **Varga B.O.**, Mariasiu F, Moldovanu D, Iclodean C (2015) *Electric and Plug-In Hybrid Vehicles – Advanced Simulation Methodologies*, Springer Verlag, ISBN 978-3-319-18638-2, 524 pg.
 - **Varga B.O.**, Iclodean C, Mariasiu F (2016) *Electric and Hybrid Buses for Urban Transport-Energy Efficiency Strategies*, Springer Verlag, ISBN 978-3-319-41248-1, 314 pg.
 - **Varga, B.O.**, Moldovanu D., Mariasiu, F., Iclodean C.D. (2016) *Electric Vehicle – Chapter: Simulation in the Loop of Electric Vehicles*, 1-22 pg., edit. Mohamed Amine Fakhfakh, Intech Open Publishing, ISBN: 978-953-51-4819-7.
 - Mariasiu F, **Varga B.O.** (2013) „Attitudes towards sustainable road transports (Consumer’s surveys)”, Lambert Academic Publishing, ISBN 978-3-659-48340-0.
 - **Varga B.O.** (2013) *Electric vehicles, primary energy sources and CO2 emissions: Romanian case study*, Energy, 1, 61-70.
 - **Varga B.O.** (2012) *Energy management of electric and hybrid vehicles dependent on powertrain configuration*, Central European Journal of Engineering, 2(2), 253-263;
 - **Varga, B.O.**, *Mariasiu, F., Indirect environment--related effects of electric car vehicle use– Environmental Engineering and Management Journal, Accepted: September, 2014 Print ISSN: 1582–9596;*
 - Mariasiu, F., **Varga, B.O.** (2010) *Possibilities to improve the cold start process of tractors engines fuelled with biodiesel*, Journal of Food, Agriculture and Environment (JFAE), 8 (3&4), 1120-1122, 2010
 - Mariasiu F., Burnete N.V., Moldovanu D., **Varga B.O.**, Iclodean C., Kocsis L. (2015) *Effects Of Bioethanol Ultrasonic Generated Aerosols Application On Diesel Engine Performances*, Thermal Science, 19(5), 1931-1941;
- Projects
- Experience in R&D projects in the last 5 years:
- Project Manager:
 - Contract no.14120/14.06.2018- Support to Jaspers – Low- Carbon Rolling Stock for Urban Transport in Romania-TA2018065 RO JEU, beneficiary- European Investment Bank- Luxemburg-34.500 Euro;
 - Contract no. 71 / 18.10.2016 Tender procedures for the purchase of 30 electric buses, City Major of Cluj-Napoca, Romania (15.600 Euro)
 - Contract with VAT no. 83 / 02.10.2017 Tenders procedures for the purchase of trolley buses and trams, City Major of Cluj-Napoca, Romania (18.870 Euro)
 - Contract no. 99 / 07.12.2017 Elaboration of the opportunity study (traffic study and justification of the environmental impact of the new transport vehicles) for the acquisition of 19 electric buses, City Major of Cluj-Napoca, Romania (20.650 Euro)
 - Contract no. 97 / 07.12.2017 Elaboration of opportunity study (study of traffic and justification of the acquisition of environmental impact of new transport vehicles) for the acquisition of 30 trolleybuses, City Major of Cluj-Napoca, Romania, (18.500 Euro)
 - Contract no. 98 / 07.12.2017 Elaboration of the opportunity study (traffic study and justification of the environmental impact of the new transport vehicles) for the acquisition of 16 trams, City Major of Cluj-Napoca, Romania (14.500 Euro)
 - Contract no. 17 (4594) / 26.02.2013, Endurance tests for testing two types of gasoline EuroLuk 95 and petrol with MMT metallic additive, Luk Oil Company, (31.000 Euro).
 - Team member in R&D and with industry partners' projects:
 - Project POC-A1-A1.2.3-G-2015, ID P_40_333, "Advanced Technologies for Smart Urban Vehicles - URBIVEL". Partnerships project for knowledge transfer (3.6 Mio. Euro) – Manager for relations with industry
 - Test cell laboratory for internal combustion engines running on bio-fuels. Financed by EU and Romanian Government with 8.931.904 Ron-approx.-2.152.266 Euro (www.testecocel.utcluj.ro) - Executive manager

- Patent applications**
- Co-author of two national patents: OSIM (RO 127 032-Device for cold start process for internal combustion engines fueled with biofuel and RO 128 768 - Device for reducing lubricating oil's viscosity for low ambiental temperatures for internal combustion engines starting process);
- Honours and awards**
- 4 prizes for research activity (UEFISCDI - Romanian Executive Unit for Higher Education, Research&Development and Innovation Authority: PN-II-RU-ABIL-2015-2-0048, PN-II-RU-PRECISI- 2015-9-9190, PRECISI-2013-7-2382) and Technical University of Cluj-Napoca (2016))
 - Diploma of Excellency: International Exhibition "ProInvent 2012"(Cluj-Napoca) and International Exhibition "ProInvent 2014"(Cluj-Napoca)
 - Golden Medals: International Exhibition „ProInvent 2014”, Cluj-Napoca, International Exhibition "INVENTICA 2014" (lassy) and International Exhibition "ProInvent 2017"(Cluj-Napoca), International Inventions and Innovations Exhibition "Traian Vuia", 2017 (Timisoara), International Exhibition "INVENTICA 2017" (lassy)
 - Silver Medals: Invention and Innovation Exhibition "INVENTIKA" 2014 (Bucharest), EUROINVENT 2017-European Exhibition of Creativity and Innovation (lassy)
- Memberships**
- Member of SIAR (Automotive Engineers Society of Romania) 2003-present,
Member of SIA (Société des Ingénieurs de l'Automobile France) 2008-present
Member of SAE Society of Automotive Engineers – since 2003
Member of FISITA- International Federation of Automotive Engineering Societies -since 2003
Correspondent member of FEDERATION INTERNATIONALE DES EXPERTS EN AUTOMOBILE,
<http://www.fiea.org/en/structure/members/associate-members.html>, 2012-present
Correspondent member of Standardization in International SAE Power-train Systems Group- from January 2011

Prof. Dr. habil.ing. Bogdan Ovidiu VARGA