

Personal Information

Fechete-Tutunaru, Lucian Viorel



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PROFESSIONAL EXPERIENCE

<p>Period</p> <p>Position held</p> <p>Main activities and responsibilities</p>	<p>Dec. 1997 – to present</p> <p>Assoc. Professor, lecturer, instructor, PhD student</p> <ul style="list-style-type: none"> ▪ Didactic activities for under and postgraduate students, continuing education responsibilities. Course and laboratory activities responsible: Automotive Mechatronics; Logistics and Transportation; Road Transport Logistics; Photovoltaic Systems. Former course and/or laboratory activities responsible: Automotive Electrical and Electronic Equipment's, Vehicles Manufacturing and Repair, Information and Scientific Documentation, Communication Techniques, Information Technology in Agriculture, Computer Basics for Agriculture. ▪ Master thesis and final project coordinator. ▪ Responsibilities within European and National R&D projects. ▪ Extracurricular activities responsibilities
<p>Name and address of employer</p> <p>Type of business or sector</p>	<p>Technical University of Cluj-Napoca (UTCN), RO-400020 Cluj-Napoca, str. C-tin Daicoviciu nr. 15. Undergraduate and postgraduate education, R&D.</p>
<p>Period</p> <p>Position held</p> <p>Main activities and responsibilities</p>	<p>Oct. 2012 – nov. 2012</p> <p>Mechanical Engineer – fixed-term contract</p> <p>Diagnostic and repair of Ford B-MAX electrical, electronics and computer-controlled systems and equipment's.</p>
<p>Name and address of employer</p> <p>Type of business or sector</p>	<p>S.C. Formel D Romania S.R.L., Medias, str. Gr. Alexandrescu, nr.8 Automotive technical consulting</p>
<p>Period</p> <p>Position held</p> <p>Main activities and responsibilities</p>	<p>Sept. 1997 – nov. 1997</p> <p>Reception Engineer, bodywork and paint shop department.</p> <p>Customer vehicles reception, defects and damage observation and reports, work and financial estimation reports, spare parts and supply material responsible.</p>
<p>Name and address of employer</p> <p>Type of business or sector</p>	<p>S.C. Dacia Service S.A. Cluj-Feleac, Cluj-Napoca, Calea Turzii 211 Automotive repair shop</p>

EDUCATION AND TRAINING

<p>Period</p> <p>Title of qualification awarded</p> <p>Principal subjects/ occupational skills covered</p> <p>Name of organisation</p>	<p>1997-2008</p> <p>Doctor engineer (PhD.) – scientific title, Mechanical Engineering specialization, for the thesis <i>Researches regarding optimization of soil tillage process.</i></p> <p>Design optimization and construction of soil tillage tools, functional parameters optimization, soil-tool interaction model, tillage tools durability evaluation models.</p> <p>Technical University of Cluj-Napoca</p>
<p>Period</p> <p>Title of qualification awarded</p> <p>Principal subjects/ occupational skills covered</p> <p>Name of organisation</p>	<p>1997-1998</p> <p>Master Diploma (MSc.), specialization <i>Assisted design of machinery from agriculture and food industry.</i></p> <p>CAD, FEM analysis, elements and mechanical structures optimization.</p> <p>Technical University of Cluj-Napoca</p>
<p>Period</p> <p>Title of qualification awarded</p> <p>Principal subjects/ occupational skills covered</p> <p>Name of organisation</p>	<p>1992-1997</p> <p>Licence Diploma, mechanical engineer, specialization <i>Agricultural machinery.</i></p> <p>Designing, manufacturing, exploitation and management in the fields of agricultural machinery, transportation, road vehicles, energy and mechanical testing.</p> <p>Theoretic subjects: mathematics, physics, chemistry; Technical subjects: machinery parts, fluid mechanics, electrotechnic and electronics, manufacturing technologies; speciality subjects: automotive design and construction, tractors and automobiles, soil tillage machineries, harvesting machineries, zootechnic equipment, reliability, machinery use and maintenance, management and marketing etc.</p> <p>Technical University of Cluj-Napoca</p>

PERSONAL SKILLS AND COMPETENCES

Mother tongue **Romanian**

Other languages

		Understanding		Speaking		Writing	
		Listening	Reading	Spoken interaction	Spoken production		
English	C1 experienced	C1 experienced	B2 independent	B2 independent	C1 experienced		
French	B1 independent	B1 independent	B1 independent	A2 elementary	A2 elementary		

Common European Framework of Reference for Languages

Social skills and competences

Excellent communication and cooperation skills, adaptive to multicultural environments, ability to work individually and in teams. Competencies and skills acquired in: Communication with external clients - coaching program within UTCN, organizing and participating in various national and international conferences and seminars, member in international research teams, alumni member of *Board of European Student of Technology*.

Organisational / managerial skills

Able to set and achieve goals. Competent in planning, coordination and support for education and practical training. Co-organizer of *JobShop JobShop '95 and '96* - fair workshops, *Cooperation through Internet, 1996* - international summer course, seminars, conferences and roundtables ('99-'01 *Agraria*, *TransAgraTech '98, '00, AMMA '02 and '07* etc.). Responsible from the University of Erlangen-Nürnberg Summer Academy for Romania, 1999-2005. Organizer and facilitator of a series of social and recreational events.

Technical skills and competences

- Design, simulation, optimization, maintenance and operation of mechanical systems, design manufacturing technologies for conventional and CNC machining centres.
- Design, maintenance and operating electrical, electronics and automated systems, embedded software knowledges. Specialized in automotive electrical and electronic equipment.
- Transport engineering and logistics, supply chain design, especially road operated. Environmental engineering, sustainable development, alternative energy sources for rural areas.
- Project management skills gained in national and international projects financed by Romanian MCI, TEMPUS, World Bank, DAAD.
- Professional certificate for maintenance, operation and repair of automated equipment's for the food industry, 1992.

Computer skills

IT&C competences as a good or excellent user of:

- CAE: I-DEAS (NX), SolidWorks, AutoCAD, FeatureCAM , Lab View, Automation Studio etc.;
- Office & multimedia: MS Office, Adobe, Corel, Macromedia etc.;
- Programming: Basic, Pascal, Fortran, Visual Basic, HTML, MathCAD, MATLAB, IndraWorks etc.

Other skills

Able to collect, select, analyse and categorize information, differently and specifically for a correct completion of activities.

Activities as technical reviewer, translator, and interpreter from English language (Volvo, *acquis communautaire* etc.).

Scientific reviewer for *Central European Journal of Engineering*.

Driving licence

B and C category

ADDITIONAL INFORMATION

- Web of Science - H-index: 4; articles: 20; total citations: 64; citing articles: 58
- Scopus - h-index: 5; articles: 12; total citations: 84; citing articles: 77
- Google Scholar - h-index: 6; articles: 55; total citations: 130; i-10 index: 5
- Author of *Advanced Technologies for Road Transport – course notes*, Cluj-Napoca: ed. Napoca Star, 2020; *Automotive Mechatronic Equipments – course notes*, ed. Napoca Star, 2020; co-author of *Dissemination guide for environmental technologies*, Cluj-

Napoca: ed. Risoprint, 2000; *Water quality control in agriculture*, Cluj-Napoca: Artprint, 2003; author of *Waste management in agriculture* and co-author of *Water pollution in agriculture* – electronic format courses in English for an international network universities;

- member in 24 national research projects and 5 international project funded by TEMPUS program , World Bank and DAAD (see scientific papers list);
- Project manager of Contract no. 78BG from 01/10/2016 (PN-III-P2-2.1-BG-2016-0305), *SC Artecom SRL upgraded competences through deep soil tillage machinery optimization – SUBSOIL*, 2016-2018, Total Budget: 460 000 lei; UTCN budget: 180 000 lei; Finance source: UEFISCDI;
- Responsible / Scientific manager from UTCN of Contract CEEEX 66/2006, *Research and development of innovative techniques and application equipment for the maintenance of potato cultivation, in a conservative system – TEHCONSERV*, 2006-2008, Total Budget: 1 075 000 lei; UTCN budget: 160 000 lei; Finance source: UEFISCDI;
- over 50 scientific papers published at home and abroad (see scientific papers list);
- participant in different information or study visits at: *Hohenheim University* – Stuttgart (DE), *TUM, Weihenstephan* – München (DE), *University of Erlangen- Nürnberg* (DE);
- students teams coordinator within student international competition Bosch „Elektromobil“, 2010-11, Miskolc (HU) and Bosch Rexroth „Pneumobil“, 2011-14 Eger (HU);
- participating diploma at *Numerical methods in Engineering* course, Ohrid (MK), 1999;
- 3 months TEMPUS program scholarship at *National Institutes of Applied Sciences (INSA)* Toulouse (FR), 1997;

References available on request.