

PERSONAL INFORMATION



Radu Emanuil Petrus

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WORK EXPERIENCE

2006–2016

Laboratory Assistant

Lucian Blaga University of Sibiu, Sibiu (Romania)

- computer maintenance
- laboratory resources management

2012–2016

Assistant (during Ph.D. studies)

Lucian Blaga University of Sibiu, Sibiu (Romania)

- teach CAD/CAM and Virtual Mechatronic Systems laboratories

2014–2015

Assistant Lead

Lucian Blaga University of Sibiu, Sibiu (Romania)

- assistant lead for the POSDRU project: " FORMare profesională inovativă în domeniul INginieriei – FORMING - POSDRU/125/5.1/S/134003 "

09/2016–01/2017

Project Manager

Continental Automotive Systems, Sibiu (Romania)

- project manager for the research project no. 4587
- mechanical development researcher in the same project

09/2017–04/2018

Project Manager

Continental Automotivew Systems, Sibiu (Romania)

- project manager for the research project no. 1081 " Automatic Motorcycle Transmission Development – AMT 250 "
- mechanical development researcher in the same project

2017–Present

Lecturer

Lucian Blaga University of Sibiu, Sibiu (Romania)

- teaching courses and laboratories for: CAD, CAM, FEA and Virtual Mechatronic Systems

2017

Reporting Manager for DiFiCIL project

Lucian Blaga University of Sibiu, Sibiu (Romania)

- progress reporting manager for DiFiCIL project <http://dificil.grants.ulbsibiu.ro/en/project/activities/>

2016–2021

Researcher

Lucian Blaga University of Sibiu, Sibiu (Romania)

- researcher in DiFiCIL project <http://dificil.grants.ulbsibiu.ro/en/project/activities/>

- 2018–2019 **Lead design**
ODU Romania Manufacturing, Sibiu (Romania)
- design a connectivity test device for modular connectors
- 2020–Present **Academic co-supervisor**
Heilbronn University of Applied Sciences, Heilbronn (Germany)
- academic co-supervisor of the MSc project: “3D Visualization of Adolescent Idiopathic Scoliosis Using Aug-mented Reality” under the course: Innovative Interaction Technologies (INIAT)
- 2020–Present **Researcher**
Lucian Blaga University of Sibiu, Sibiu (Romania)
- researcher in HUBCAP project <https://www.hubcap.eu>

EDUCATION AND TRAINING

- 2006–2010 **Engineer**
Lucian Blaga university of Sibiu, Sibiu (Romania)
Bachelor Degree in Mechanical engineering
- 2010–2012 **Dpl. Eng.**
Lucian Blaga University of Sibiu, Sibiu (Romania)
Ms.C Digital Factory
- 2012–2016 **Ph.D**
Lucian Blaga University of Sibiu, Sibiu (Romania)
Ph.D. in Industrial Engineering. Thesis title: Augmented Reality Applications for the Design and Manufacture of Products

PERSONAL SKILLS

Mother tongue(s) Romanian

| Foreign language(s) | UNDERSTANDING | | SPEAKING | | WRITING |
|---------------------|---------------|---------|--------------------|-------------------|---------|
| | Listening | Reading | Spoken interaction | Spoken production | |
| English | C2 | C2 | C1 | C2 | C2 |
| German | A2 | A2 | A1 | A1 | A1 |

Levels: A1 and A2: Basic user - B1 and B2: Independent user - C1 and C2: Proficient user
Common European Framework of Reference for Languages

Communication skills - good communication skills gained through my lecturing experience
- participated and presented my research in international conferences

Organisational / managerial skills - managerial expertise acquired as a project manager for two research projects.
- organisational skills developed by tutoring students in different research activities
- leadership abilities gained by coordinating multiple research teams

Job-related skills - Assembly design in CATIA v5, v6, ProE/Creo and NX

- Kinematics simulations in CATIA v5 and v6
- Computer Aided Manufacturing (CAM) in CATIA v5, v6 and NX 7.5
- CAD in CATIA v5, v6, ProE/Creo and NX
- Sinumerik CNC operate/programming
- Finite Element Analysis in ABAQUS and CATIA
- Augmented Reality application development
- Rapid Prototyping
- Additive manufacturing
- 3D scanning
- Computer network management
- Web design (HTML)
- Software and Hardware maintenance

Digital skills

| SELF-ASSESSMENT | | | | |
|------------------------|-----------------|------------------|-----------------|-----------------|
| Information processing | Communication | Content creation | Safety | Problem solving |
| Proficient user | Proficient user | Proficient user | Proficient user | Proficient user |

Digital skills - Self-assessment grid

Driving licence A, B

ADDITIONAL INFORMATION

Certifications

- B&R Automation Studio - Training Certificate
- ABAQUS FEA - Training Certificate
- Catia FEA - Training Certificate
- Catia CAD - Training Certificate
- Catia CAM - Training Certificate
- NX CAM - Training Certificate
- NX CAD - Training Certificate
- Siemens Sinumerik ShopTurn, ShopMill - Trainer Certificate
- FARO - Training Certificate
- Project Manager Certificate
- Trainer Certificate

Projects

National and international projects involved in:

- Innovative Interaction Technologies (INIAT) - 3D Visualization of Adolescent Idiopathic Scoliosis Using Augmented Reality
- International Practice Seminar 2020-2021 – in collaboration with DFKI Kaiserslautern
- Research contract no. 5705 for ODU Romania Manufacturing, Sibiu (Romania)
- International Practice Seminar 2019 – in collaboration with DFKI Kaiserslautern
- Interreg Danube transnational programme
- International Practice Seminar 2017 – in collaboration with DFKI Kaiserslautern
- Research contract no. 1081 for Continental Automotive Systems

- Research contract no. 4587 for Continental Automotive Systems
- Dezvoltarea sistemelor socio-fizico-cibernetice pe baza Internetului Lucrurilor în fabrica viitorului – DiFiCIL Actiune 1.1.4: Atragerea de personal cu competente avansate din strainatate pentru consolidarea capacitatii de CD <http://difcil.grants.ulbsibiu.ro/en/>
- Inserție activă pe piața muncii prin FORMare profesională inovativă în domeniul INGerieriei – FORMING - POSDRU/125/5.1/S/134003 Funcția- Asistent lider perioada 2014-2015
- Digital Factory: Concepts, Implementations, Present and Future Challenges, Cod: 14-SEE-PC-RO SIBIU01, Programul “Fondul de burse RO15”, Finantat prin Mecanismul Financiar SEE 2009 – 2014, Contract nr. 3/22.07.2014 05-06. 2015
- “Augmented Reality - An Improvement for Computer-Integrated Manufacturing” din cadrul European Community’s Research Infrastructure Action – grant agreement VISIONAIR 262044 – under the 7th Framework Programme (FP7/2007-2013)