



Lorant Andras Szolga

WORK EXPERIENCE

[01/10/2005 – Current] **Lecturer**

Technical University of Cluj-Napoca

City: Cluj-Napoca

Country: Romania

Main activities and responsibilities:

Teaching activity:

- To give lectures and lab activities for the Optoelectronics discipline for the 3rd year students at the bachelor's degree level.
- To coordinate students for the bachelor and dissertation diploma work.
- Erasmus collaboration.

Research activity:

- Carried out in the Optoelectronics group with interdisciplinary collaborations at the national and international levels.
- To participate in scientific events (conference/congress/workshop).
- Publication of scientific work in journals and conference proceedings.

Administrative activity:

- At department, faculty, and university level.

EDUCATION AND TRAINING

[19/12/2012] **PhD degree**

Technical University of Cluj-Napoca

[2008] **Master's degree in Microelectronics and Electromagnetic Compatibility**

Technical University of Cluj-Napoca

[2005] **Telecommunication Engineer Degree**

Technical University of Cluj-Napoca

LANGUAGE SKILLS

Mother tongue(s): Romanian, Hungarian

Other language(s):

English

LISTENING C1 READING C1 WRITING B2

SPOKEN PRODUCTION B2 SPOKEN INTERACTION B2

ORGANISATIONAL SKILLS

Events

Organizing the "R & I (Research and Industrial) Week" within the Erasmus Mundus EMIMEO Master (Erasmus Master on Innovative Microwave Electronics and Optics): <http://www.erasmus-master.emimeo.eu/>

- elaborate of the agenda of events by days and time intervals
- gathering prestigious guests during the event
- organizing visits to companies
- organizing social events
- accommodation, transport and meals for a group of 30 people from abroad

Organizing the SSET student symposium (Student Symposium of the Faculty of Electronics, Telecommunications and Information Technology):

<https://etti.utcluj.ro/conferinte-studentesti.html>

- communicate with the sponsoring companies of the event
- informing students through online media
- checking the submitted works
- elaborate of the event agenda
- communicate with the members of the works evaluation commissions
- awarding of prizes

SKILLS AND ABILITIES

Skills

- Design of analog and digital integrated circuits and printed circuit boards: Eagle Autodesk, Orcad Cadence, Ltspice;
- Making PCBs using press & peel technique, UV technique and CNC engraving technique;
- Design and printing of 3D models: Fusion Autodesk;
- Designing systems on Arduino and Raspberry Pi platforms;
- Design of integrated optical systems and fiber optic communication systems using: VPI Photonics;
- Maintenance of fiber optic systems and fiber optic measurements: Fusion Splicer and OTDR;
- Programming languages and software development environments: MATLAB, Arduino IDE, C / C ++;
- Development, maintenance and management of computer networks and related equipment;
- Implementation, testing, analysis and improvement of organic cells using equipment that uses techniques such as: PVD (Physical Vacuum Deposition), spin-coating, UV-Vis analysis, artificial sun, monochromator, profilometer.

COMMUNICATION AND INTERPERSONAL SKILLS

Teaching

- Mentor within the "Electrosummer" Project of type ROSE (Project Regarding Secondary Education), within the scheme of grids for universities; project code I / PV / 07, duration 36 months (2017-2020), Beneficiary of the Technical University of Cluj Napoca,
- Supervisor of 60 graduation diploma work (bachelor/master) during 2009-2021.

ERASMUS

Cooperation

Responsible from the Technical University of Cluj-Napoca for the Erasmus Mundus project: EMIMEO (Erasmus Master on Innovative Microwave Electronics and Optics)

- 2018-Present and Professor in this Master Mundus for the "Optoelectronics" module
- The organizer of the R&I Week (Research & Industrial Week) in Cluj-Napoca for the students within this master.
- <http://www.erasmus-master.emimeo.eu/context-consortium/partners/>

Responsible from the Technical University of Cluj-Napoca for Erasmus mobility in Brescia (Italy) at the University of Brescia;

Responsible from the Technical University of Cluj-Napoca for Erasmus mobility in Bilbao (Spain) at the University of the Basque Country;

INTERNSHIPS

Abroad

- March-April 2016, Research internship in the Laboratory of Special Optical Fibers within the XLIM Research Institute of UNILIM University in Limoges (France)
- February-March 2019, Research Internship in the Organic Solar Cell Laboratory at the Moltech Research Institute in Angers (France)

CONFERENCES AND SEMINARS

Organizing member

- Conference REEE 2021 (The 4th International Conference on Renewable Energy and Environment Engineering, 27-30 August 2021, Florence, Italy)
- Conference CIEES 2021 (The International Conference Communications, Information, Electronic and Energy Systems, 25-27 November 2021, Ruse, Bulgaria)
- Conference CEES 2022 (The 4th International Conference on Clean Energy and Electrical Systems, 2-4 April 2022, Tokyo, Japan)
- Conference EEPES 2022 The International Conference on Electronics, Engineering Physics and Earth Science, 22-24 June 2022, Varna, Bulgaria)

Chair

- Conference REEE 2021 (The 4th International Conference on Renewable Energy and Environment Engineering, 16-18 August 2020, Lisbon, Portugal)
- Conference REEE 2021 (The 4th International Conference on Renewable Energy and Environment Engineering, 27-30 August 2021, Florence, Italy)

RESEARCH

Database

- ResearcherID: [AAC-4482-2021](#)
- Scopus Author ID: [24829670700](#)
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