

PERSONAL INFORMATION

Bogdan ȚEBREAN



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Sex: male | Date of birth: 23/10/1981 | Nationality: romanian

WORK EXPERIENCE

2019 - present

**Associate Professor**

Electrical Engineering and Measurements Department, Faculty of Electrical Engineering, Technical University of Cluj-Napoca

- Course responsible for:
    - Transducers – II - nd year Biomedical Engineering BN
    - Data acquisition and signal processing - III - rd year Biomedical Engineering BN
    - Virtual Instrumentation – IV - th year Biomedical Engineering BN
  - Laboratory responsible for:
    - - Transducers – II nd year Electrical Engineering
    - - Electrical Measurement and Sensors – II nd year Automation and Computer Engineering
- Analyses and development of nanosensors – I st year- master Electrical Engineering

**Business or sector:** education and research

2013 - 2019

**Lecturer**

Electrical Engineering and Measurements Department, Faculty of Electrical Engineering, Technical University of Cluj-Napoca

- Course responsible for:
    - Electrical Measurements of Non Electrical Sizes – II - nd year Biomedical Engineering BN
    - Data acquisition and signal processing - III - rd year Biomedical Engineering BN
    - Virtual Instrumentation – IV - th year Biomedical Engineering BN
  - Laboratory responsible for:
    - - Electrical Measurements of Non Electrical Sizes – II nd year Electrical Engineering
    - - Electrical Measurement and Sensors – II nd year Automation and Computer Engineering
- Analyses and development of nanosensors – I st year- master Electrical Engineering

**Business or sector:** education and research

2009 - 2013

**Assistant Professor**

Electrical Engineering and Measurements Department, Faculty of Electrical Engineering, Technical University of Cluj-Napoca

- Course responsible for:
    - - Electrical Measurements of Non Electrical Sizes – II nd year Electrical Engineering
  - Laboratory responsible for:
    - - Electrical Measurements of Non Electrical Sizes – II nd year Electrical Engineering
    - - Electrical Measurement and Sensors – II nd year Automation and Computer Engineering
    - - Analyses and development of nanosensors – I st year- master Electrical Engineering
- Electrical Measurements – II nd year ETTI eng

**Business or sector:** education and research

2005 - 2008

**PhD. Student**

Electrical Measurement Department, Faculty of Electrical Engineering, Technical University of Cluj-Napoca

- Laboratory responsible for:
  - - Sensors – III rd year Automation
  - - Electrical Measurements of Non Electrical Sizes – II nd year Electrical Engineering
  - - Electrical Measurement and Sensors – II nd year Automation and Computer Engineering

**Business or sector:** education and research

EDUCATION AND TRAINING

- 2011-2013 Postdoctoral scholarship - „Innovative Postdoctoral programs for Sustainable development in a Knowledge based Society” - POSDRU/89/1.5/s/60189 Level 6 – Second stage of tertiary education  
 Babeş-Bolyai University, Romania
- **Title of Postdoctoral individual research project:** “Research Concerning the Use of Nanoporous Structures In Controlled Capsules Which Release a Substance As a Response To Different Parameters Detected By Biosensors”
  - **Principal subjects/occupational skills covered:** - study regarding the development of a capsular structure that allows controlled release of a substance as a response to different stimuli captured by biosensors; simulation and mathematical modelling of substance delivery process and transport phenomena in controlled release systems; study regarding the interaction between the capsular structure and the environment in which it is inserted.
- 2005-2008 PhD diploma – Electrical Engineering Level 6 – Second stage of tertiary education  
 Technical University of Cluj-Napoca, Romania
- **Title of PhD thesis** ” Researches Regarding Mechanical Shock and Vibration Measurement with Hall Effect Sensors”
  - **Principal subjects/occupational skills covered:** - design and experimental setup implementation of shock and vibration measurement systems using Hall effect sensors; computer assisted simulation and mathematic modelling of magnetic effects and sensors systems; analysis and design of Hall effect based MEMS. mechanical shock and vibration measurement systems.
- 2005-2006 MS diploma – Electrical Engineering Level 6 – Second stage of tertiary education  
 Technical University of Cluj-Napoca, Romania
- **Title of MS thesis :** “ Considerations Regarding Mechanical Shock Measurement with Hall Effect Transducers”
  - **Principal subjects/occupational skills covered:** - design and implementation of a shock measuring system using Hall sensors; transient regime analysis of Hall sensors in shock measuring systems; error analysis for shock measuring systems.
- 2000-2005 Eng diploma – Electrical Engineering Level 5 –First stage of tertiary education  
 Technical University of Cluj-Napoca, Romania
- **Title:**” Hall effect sensors applications in the measurement of nonelectrical quantities”
  - **Principal subjects/occupational skills covered:** - Sensors and transducers; Electrical Measurements; Instrumentation and data acquisition; Legal and applied metrology

PERSONAL SKILLS

|                   |               |         |                    |                   |         |
|-------------------|---------------|---------|--------------------|-------------------|---------|
| Mother tongue     | romanian      |         |                    |                   |         |
| Other language(s) | UNDERSTANDING |         | SPEAKING           |                   | WRITING |
|                   | Listening     | Reading | Spoken interaction | Spoken production |         |
| English           | B2            | B2      | B2                 | B2                | B2      |
| French            | B1            | B1      | B1                 | B1                | B1      |

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

Organisational / managerial skills

Good organisational skills both in project follow up and conferences and workshop;

- Research project management – During my work on the Technical University of Cluj-Napoca I worked in 6 research projects (project manager (1), research team member (4) and individual research project (1))
- From 05.09.2012 I have a “Project Manager” certificate

Job-related skills

- During my work at the Technical University of Cluj-Napoca I have accumulated experience in electrical measurements, sensor systems, automation, instrumentation and data acquisition, signal and power electronics, metrology and computer math modeling.

Computer skills

Advanced with specific data acquisition, instrumentation and design software LabVIEW, OrCAD, COMSOL Multiphysics, Mathcad, Autocad, SolidWorks, CorelDRAW, Adobe Photoshop

Additional information

- I have published more than 30 scientific articles, 2 books and 2 laboratory manuals
- I have also been a member in 4 scientific projects, in one of them I was project manager