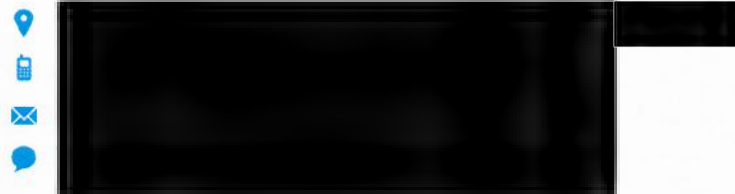


## PERSONAL INFORMATION

George Dan MOIȘ



## POSITION

Associate Professor

## WORK EXPERIENCE

06/11/2017–Present

## Software Developer

Bosch Group Romania, Cluj-Napoca (Romania)

- R&D, Innovation and Relations with the Academia Group

22/08/2016–31/10/2017

## Software engineer

ALTRAN ROMANIA SRL, Cluj-Napoca (Romania)

01/10/2012–Present

## Lecturer

Technical University of Cluj-Napoca, Cluj-Napoca (Romania)

- Didactic: Embedded systems, Numerical and analog circuits, Programmable equipment
- Research: low-power design, wireless sensors, measurement and control equipment, FPGAs

**Business or sector** Higher education

01/05/2013–Present

## Consultant

Synchro S.R.L., Craiova (Romania)

- Development of industrial measurement and control equipment (firmware, technical documentation)

**Business or sector** R&D

01/10/2011–01/10/2012

## Assistant

Technical University of Cluj-Napoca, Cluj-Napoca (Romania)

- Didactic: Reliability and diagnosis, Numerical and analog circuits
- Research: embedded systems, wireless sensors, reconfigurable systems, FPGAs

**Business or sector** Higher education

01/12/2008–01/03/2010

## Research assistant

Technical University of Cluj-Napoca, Cluj-Napoca (Romania)

- Research: embedded systems, wireless sensors, reconfigurable systems, FPGAs

**Business or sector** Higher education

## EDUCATION AND TRAINING

01/10/2008–01/02/2011

## PhD, Systems engineering

Technical University of Cluj-Napoca, Automation and Computer Science Faculty,  
Automation Department, Cluj-Napoca (Romania)

Self-Healing Capabilities in Digital Systems

- 01/10/2008–01/02/2011 **MSc**  
Technical University of Cluj-Napoca, Automation and Computer Science Faculty,  
Automation Department, Cluj-Napoca (Romania)
- 01/10/2003–01/07/2008 **BSc in Systems and Computer Engineering, Automation**  
Technical University of Cluj-Napoca, Automation and Computer Science Faculty,  
Automation Department, Cluj-Napoca (Romania)
- 01/09/2014–01/10/2014 **Sharing of experience within the RO-IT bilateral project „Designing  
Cloud-based Self-healing Cyber-Physical Systems – CyCloSe” to  
Politecnico di Torino, Dipartimento di Automatica e Informatica,  
professor Paolo Ernesto Prinetto**  
Politecnico di Torino, Dipartimento di Automatica e Informatica, Torino (Italy)
- 01/03/2010–31/07/2010 **External mobility stage within the PhD studies to Universitat  
Politècnica de Catalunya, Department of Electronic Engineering,  
professor Juan Figueras Pamies**  
Politècnica de Catalunya, Department of Electronic Engineering, Barcelona (Spain)
- 27/02/2011–04/03/2011 **Winter school**  
16th Estonian Winter School in Computer Science (EWSCS), Palmse (Estonia)
- 16/09/2013–18/09/2013 **Summer school**  
First international training school on Manufacturable and Dependable Multi-core  
Architectures at Nanoscale, Roma (Italy)
- 08/09/2014–10/09/2014 **Summer school**  
Cyber Physical Systems for Industrial Applications: Wireless self-powered vibration  
monitoring and control, Lugano (Switzerland)
- 22/05/2015–25/05/2015 **Spring school**  
Test Spring School 2015 - Emerging Trends in Dependability, Cluj-Napoca (Romania)
- 20/05/2016–23/05/2016 **Spring School**  
Test Spring School 2016 - Dependable systems: The enabler for future Autonomous Cars,  
Rotterdam (Netherlands)

#### PERSONAL SKILLS

Mother tongue(s) Romanian

Foreign language(s)

|         | UNDERSTANDING |         | SPEAKING           |                   | WRITING |
|---------|---------------|---------|--------------------|-------------------|---------|
|         | Listening     | Reading | Spoken interaction | Spoken production |         |
| English | C2            | C2      | C2                 | C2                | C2      |

| Cambridge English: Advanced (CAE) - A |    |    |    |    |
|---------------------------------------|----|----|----|----|
| French                                | A2 | A2 | A2 | A2 |

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** Acquired in the 7 years of didactic activities

**Organisational / managerial skills** Member in more than 10 research and development projects with the industry (Synchro, National Instruments, CDS, Accenture, Tintag Electronics)

**Job-related skills** The participation in the entire process of development of measurement and control equipment. Writing firmware for:

- embedded systems based on SoC, PSoC, microcontrollers, Linux-based systems
- embedded applications and automation systems
- Wi-Fi and BLE applications.

Writing technical documentation for embedded systems.

| 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

**Other skills** Advanced knowledge in

- development of applications based on PSoC, 8051, FPGA, SBC
- development of wireless systems based on Wi-Fi, Bluetooth low energy
- C, VHDL, LabVIEW programming
- LaTeX, CorelDRAW

**Driving licence** B

**ADDITIONAL INFORMATION**

**Publications**

- 2 book chapters, international publishers (InTech, IET)
- more than 35 research articles in journals and conference proceedings
- 1 patent (Romania) - OSIM PATENT NO. RO130282-B1 / 30.03.2018

**Reviewer** IEEE Transactions on Instrumentation and Measurement, IEEE Sensors, IEEE Instrumentation & Measurement Magazine, Sensors, IEEE Internet of Things Journal

**Programme Committee** AQTR'12, AQTR'14, AQTR'16, ANT2017, AQTR'18, AQTR'20, ADSI2021

**Organizing Committee** ETS'14, AQTR'16

**Projects**

- 5 with national and international funding, as a member of the implementation team and 1 with national funding as responsible from the university side, 1 TUCN internal project as director
  - "uSD-BLE EDL – Thermal Printer, Bluetooth Low Energy and microSD Data Logger" (contract 65CI/2017, responsible from the university side, 07.2017-12.2017)

- "PHEWS – Evaluation of Power Harvesting Elements in Wireless Sensors", Contract No.1998/2017, CICDI (2017-2018) - 2 Q1 ISI articles and 1 ISI Proceedings article
- "Power Harvesting Ambient Beacon for the IOT", Accenture grant, April-August 2016
- "TETRACOM D3.44: Sub 1 GHz ISA100 technology for low cost and low power consumption embedded systems (ISA100)", Technology Transfer Project, January-June 2016
- "SCADA Federation, Collaborative Instrument for Water Management – Somes River Pilot Application - F2S", PN-II-PARTNERSHIPS project (contract 2/2014)
- "Designing Cloud-based Self-healing Cyber-Physical Systems – CyCloSe" (2013-2014), Romanian-Italian bilateral cooperation project (contract 642/2013)
- "Development of Self-Healing Capabilities for Digital Societies – SODA" (2007-2009), PN-II-Ideas project (contract 93/2007)

**Memberships** ■ IEEE Member since 2009

- IEEE Senior Member since 2021
- IEEE IMS Member since 2016
- HiPEAC Member since 2018
- IEEE Young Professionals Member since 2014



18.06.2021.