



# George Dan MOIȘ

**Date of birth:**  | **Nationality:** Romanian | **Phone number:**

) | **Email address:** [George.Mois@aut.utcluj.ro](mailto:George.Mois@aut.utcluj.ro) |

**LinkedIn:** <https://www.linkedin.com/in/george-dan-mois-b67127ab/>

## WORK EXPERIENCE

01/10/2021 – CURRENT Cluj-Napoca, Romania

**ASSOCIATE PROFESSOR** TECHNICAL UNIVERSITY OF CLUJ-NAPOCA

- Didactic: Embedded systems (course), Programmable equipment (course), Micro-systems and data acquisition (course)
- Research: embedded systems, IoT systems, low-power design, wireless sensors, measurement and control equipment

01/01/2022 – CURRENT Cluj-Napoca, Romania

**SENIOR ENGINEER, SOFTWARE DEVELOPMENT ENGINEERING** ANALOG DEVICES

Embedded Software - microcontroller no-OS drivers & Linux drivers

05/11/2017 – 31/12/2021

**SOFTWARE DEVELOPER** BOSCH GROUP ROMANIA

R&D, Innovation and Relations with the Academia Group

- Management of innovation projects
- Organization of Bosch Future Mobility Challenge

**Address** Cluj-Napoca, Romania

30/09/2012 – 30/09/2021 Cluj-Napoca, Romania

**LECTURER** TECHNICAL UNIVERSITY OF CLUJ-NAPOCA

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

**Address** Cluj-Napoca, Romania

21/08/2016 – 30/10/2017

**SOFTWARE ENGINEER** ALTRAN ROMANIA SRL

- Work on C projects for external customer

**Address** Cluj-Napoca, Romania

30/04/2013 – 31/07/2016 Craiova, Romania

**CONSULTANT** SYNCHRO S.R.L.

- End-to-end development of industrial measurement and control equipment (firmware, technical documentation)

**Address** Craiova, Romania

30/09/2011 – 30/09/2012

**ASSISTANT** TECHNICAL UNIVERSITY OF CLUJ-NAPOCA

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

**Address** Cluj-Napoca, Romania

30/11/2008 – 28/02/2010

**RESEARCH ASSISTANT** TECHNICAL UNIVERSITY OF CLUJ-NAPOCA

---

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

**Address** Cluj-Napoca, Romania

## ● **EDUCATION AND TRAINING**

---

12/2018 – 21/03/2019 Ludwigsburg, Germany

**DISCOVERY - GROW PLATFORM GMBH - ADVANCED LEVEL | 10 WEEKS IN PART-TIME** grow platform GmbH

---

**Address** Ludwigsburg, Germany

23/11/2018 – 25/11/2018 Ludwigsburg, Germany

**EXPEDITION - GROW PLATFORM GMBH - INTERMEDIATE LEVEL | 2.5 DAYS** grow platform GmbH

---

**Address** Ludwigsburg, Germany

19/05/2016 – 22/05/2016 Rotterdam, Netherlands

**SPRING SCHOOL** Test Spring School 2016 - Dependable systems: The enabler for future Autonomous Cars

---

**Address** Rotterdam, Netherlands

21/05/2015 – 24/05/2015 Cluj-Napoca, Romania

**SPRING SCHOOL** Test Spring School 2015 - Emerging Trends in Dependability

---

**Address** Cluj-Napoca, Romania

31/08/2014 – 30/09/2014 Torino, Italy

**SHARING OF EXPERIENCE WITHIN THE RO-IT BILATERAL PROJECT „DESIGNING CLOUD-BASED SELF-HEALING CYBER-** Politecnico di Torino, Dipartimento di Automatica e Informatica

---

**Address** Torino, Italy

07/09/2014 – 09/09/2014 Lugano, Switzerland

**SUMMER SCHOOL** Cyber Physical Systems for Industrial Applications: Wireless self-powered vibration monitoring and

---

**Address** Lugano, Switzerland

15/09/2013 – 17/09/2013 Roma, Italy

**SUMMER SCHOOL** First international training school on Manufacturable and Dependable Multi-core Architectures at Na

---

**Address** Roma, Italy

26/02/2011 – 03/03/2011 Palmse, Estonia

**WINTER SCHOOL** 16th Estonian Winter School in Computer Science (EWSCS)

---

**Address** Palmse, Estonia

30/09/2008 – 31/01/2011 Cluj-Napoca, Romania

**MSC** Technical University of Cluj-Napoca, Automation and Computer Science Faculty, Automation Department

---

**Address** Cluj-Napoca, Romania

30/09/2008 – 31/01/2011 Cluj-Napoca, Romania

**PHD, SYSTEMS ENGINEERING** Technical University of Cluj-Napoca, Automation and Computer Science Faculty, Automation Department

---

Self-Healing Capabilities in Digital Systems

**Address** Cluj-Napoca, Romania

28/02/2010 – 30/07/2010 Barcelona, Spain

**EXTERNAL MOBILITY STAGE WITHIN THE PHD STUDIES TO UNIVERSITAT POLITÈCNICA DE CATALUNYA** Politècnica de Catalunya, Department of Electronic Engineering

---

**Address** Barcelona, Spain

30/09/2003 – 30/06/2008 Cluj-Napoca, Romania

**BSC IN SYSTEMS AND COMPUTER ENGINEERING, AUTOMATION** Technical University of Cluj-Napoca, Automation and Computer Science Faculty, Automation Department

---

**Address** Cluj-Napoca, Romania

## ● LANGUAGE SKILLS

---

Mother tongue(s): **ROMANIAN**

Other language(s):

	UNDERSTANDING		SPEAKING		WRITING
	Listening	Reading	Spoken production	Spoken interaction	
<b>ENGLISH</b>	C2	C2	C2	C2	C2
<b>FRENCH</b>	A1	A1	A1	A1	A1

*Levels: A1 and A2: Basic user; B1 and B2: Independent user; C1 and C2: Proficient user*

## ● DIGITAL SKILLS

---

FPGA - VHDL | C | Python | microcontrollers | Proficient User of Latex | Debian Linux | Single-board computers (Raspberry Pi) | Wi-Fi | Bluetooth Low Energy

## ● ADDITIONAL INFORMATION

---

### NETWORKS AND MEMBERSHIPS

#### Memberships

- IEEE Member since 2009, Senior member since 2021
- IEEE Young Professionals Member since 2014
- IEEE IMS Member since 2016
- HiPEAC Member since 2018

### PROJECTS

#### Projects as lecturer at TUCN

- 1 with national funding, as principal investigator
  - uSD-BLE EDL – Thermal Printer, Bluetooth Low Energy and microSD Data Logger - Contract No. 65CI/2017, PN III (2017)
- 1 with internal university funding, as principal investigator
  - PHEWS – Evaluation of Power Harvesting Elements in Wireless Sensors, Contract No.1998/2017, CICDI (2017-2018)
- 5 with national and international funding, as a member of the implementation team
  - "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)

## ORGANISATIONAL SKILLS

**Organisational skills** Member in more than 10 research and development projects with the industry (Synchro, National Instruments, CDS, Accenture, Tintag Electronics). Project management for 5 projects as member of the Innovation and Relations with the Academia Group within Robert Bosch SRL (4 IoT systems and 1 web application).

## COMMUNICATION AND INTERPERSONAL SKILLS

**Communication and interpersonal skills** Acquired in more than 10 years of didactic and R&D activities.

## JOB-RELATED SKILLS

### 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 (Cypress, STMicroelectronics),
- embedded applications and automation systems,
- Linux-based systems,
- Wi-Fi and BLE applications.

Writing technical documentation for embedded systems. Writing scientific articles in the area of embedded systems.

## OTHER SKILLS

### Other skills

---

Advanced knowledge in:

- development of applications based on PSoC (M8C, 8051), FPGA,
- development of wireless systems based on Wi-Fi, Bluetooth low energy,
- development of applications running on single-board computers (RPi, BBB),
- interfaces and protocols - 1-Wire, UART, I2C, SPI, RS-232 and RS-485 standards,
- C, Python, VHDL, LabVIEW programming,
- LaTeX, CorelDRAW.

## REVIEWER

### Reviewer

---

IEEE Transactions on Instrumentation and Measurement, IEEE Sensors, Sensors, IEEE Access

## PROGRAMME COMMITTEE

### Programme Committee

---

AQTR'12, AQTR'14, AQTR'16, ANT2017, AQTR'18, AQTR'20

## ORGANIZING COMMITTEE

### Organizing Committee

---

ETS'14, AQTR'16

## PATENTS

### METHOD FOR DYNAMICALLY MODIFYING FREQUENCY IN AN ARITHMETIC UNIT BASED ON ONLINE ERROR DETECTION

---

OSIM PATENT NO. RO130282-B1 / 30.03.2018