



Mihai Hulea

Date of birth: 20/09/1977 | **Nationality:** Romanian | **Phone number:** [REDACTED] |

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● **LOCUL DE MUNCA PENTRU CARE SE CANDIDEAZĂ**

Confertiari, Pozitia 25, Universitatea Tehnica din Cluj-Napoca

● **WORK EXPERIENCE**

2002 – CURRENT Cluj-Napoca, Romania

LECTURER UNIVERSITATEA TEHNICA DIN CLUJ-NAPOCA

Teaching activities, including lecturing and laboratory sessions for the following subjects:

- Software Systems Engineering
- Distributed Control Systems
- Real-time Systems
- Project Management
- Evolutive Systems
- Coordination of undergraduate and master's students
- Collaboration with doctoral students

2001 – CURRENT Cluj-Napoca, Romania

CONSULTANT IT

Throughout my professional career, following the completion of my university studies up to the present, I have engaged in IT consulting activities for various private sector companies, both in Romania and abroad. The projects I have been involved in ranged from commercial to research-oriented. My responsibilities varied from programming and system architecture design to coordinating technical teams and participating as an external member or a member of the writing team for Horizon-type research projects. Additionally, I have coordinated or been a member of research and development projects in the private sector and managed complex solutions involving IoT device integrations, applying AI/ML techniques to solve industrial problems, or integrating software and hardware components into complex systems.

● **EDUCATION AND TRAINING**

2002 – 2010 Cluj-Napoca, Romania

PHD Technical University of Cluj-Napoca

Website utcluj.ro

1997 – 2001 Cluj-Napoca, Romania

ENGINEER Technical University of Cluj-Napoca

Website utcluj.ro

2001 – 2002 Cluj-Napoca, Romania

MASTER, SYSTEMS ENGINEERING Technical University of Cluj-Napoca

Website utcluj.ro

● LANGUAGE SKILLS

Mother tongue(s): **ROMANA**

Other language(s):

	UNDERSTANDING		SPEAKING		WRITING
	Listening	Reading	Spoken production	Spoken interaction	
ENGLEZA	B1	B1	B1	B1	B1

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

● ALTE COMPETENTE

2007 – 2007

■ **Absolvent al Departamentului pentru pregătirea personalului didactic**

2015 – 2015

Absolvet al cursului de Formator, COR 242401

2006 – 2006

Absolvet al cursului Rational Tools din cadrul proiectului national „Integrating Rational Software Development Tools in University Curriculum” organizat de IBM

● PROJECTS

2002 – 2004

TRAFCON - Sistem informațional și de control de timp-real al traficului vehiculelor în și între localități faza I, contract CNCSIS 1076 / 2002

Project team member.

2004 – 2006

TRAFCON - Sistem informațional și de control de timp-real al traficului vehiculelor în și între localități faza II, contract CNCSIS 422 / 2003

Project team member.

2005 – 2007

Sistem distribuit pentru controlul și ghidarea traficului urban al vehiculelor, contract CNCSIS 873/2004

Project team member.

2005 – 2007

Sistem de resurse interdisciplinare integrate online pentru cercetare aplicativă și educație continuă, contract MCT – Excelenta, CEEX2005

Project team member.

2007 – 2008

Sistem inteligent de timp-real pentru gestionare, control și informare destinat traficului feroviar - Tema nr. 12, Contract nr. 24, Cod CNCSIS 1537/2007

Project team member.

2007 – 2009

Sistem de identificare prin amprente digitale cu transmitere la distanță prin terminale mobile, IDA – CNMP, nr. 11038/14.09.2007

Project team member.

2009 – 2011

I3E Promoting Innovation in the Industrial Informatics and Embedded Systems Sectors through Networking, ISI - Industrial Systems Institute / Research Centre ATHENA, 2009-2011

Project team member.

2020 – 2024

CA19111 - European Network on Future Generation Optical Wireless Communication Technologies (NEWFOCUS)

Member of management comitee.

2024 – 2025

Contract de prestari servicii de cercetare - NR DMCDI TN/29.03.2024, Valoare 50.000 + TVA.

Project director.

Integration and testing NLP algorithms for command and control of industrial robots.

● **PUBLICATII**

Capitole de carte, conferinte naitonale si internationale

Lucrari relevante:

1.A. Aștilean, T. Leția, S. Folea, C. Avram, M. Hulea, R. Miron, E. Ciupan, „Sistem si metoda securizata de comunicatie intre dispozitive fixe si mobile”, Propunere de brevet A/10037/2010, nr. de înreg. UTC-N 1000003415. Euro Invent 2011 (Premiat cu medalia de aur), INVENTIKA – 2011 (Premiat cu medalia de argint)

2.S. Folea, M. Hulea, D. Ursuțiu, „Tag4M, an ultra-low power Wi-Fi embedded system for measurements”, Book title “Embedded Systems and Wireless Technologies: Theory and Practical Applications”, Science Publisher, 2012, ISBN: 978-1578088034.

3.M. Hulea, G. Mois, S. Folea, „Dynamic Wi-Fi Reconfigurable FPGA Based Platform for Intelligent Traffic Systems”, Book title “Practical Applications and Solutions using LabVIEW™ Software”, InTech Education and Publishing, Croatia, 2011, pg. 377-397, ISBN: 978-953-307-650-8.

4.S. Folea, M. Hulea, C. Avram, A. Astilean, „Distributed Monitoring and Supervising System for E-Health Applications”, Book title “Telemedicine and E-Health Services, Policies and Applications: Advancements and Developments”, Joel J. P. C. Rodrigues, Isabel de la Torre Díez, Beatriz Sainz de Abajo (Ed.), IGI-Global, 2012, pg. 264-314, ISBN: 9781466608887, DOI: 10.4018/978-1-4666-0888-7, pages 264-314.

5.Mihai Hulea, Ovidiu Rosu, Radu Miron, Adina Astilean, Pharmaceutical cold chain management: Platform based on a distributed ledger, May 2018, DOI: 10.1109/AQTR.2018.8402709, Conference: 2018 IEEE International Conference on Automation, Quality and Testing, Robotics (AQTR).

6.M. Hulea, G. Mois, S. Folea, L. Miclea, V. Biscu, „Wi-Sensors: a Low Power Wi-Fi Solution for Temperature Measurements”, 39th Annual Conference of the IEEE Industrial Electronics Society (IECON 2013), 10-13 Nov. 2013, Vienna, Austria, pg. 4011-4015, ISSN: 1553-572X, ISI Proc.

7.S. Folea, G. Mois, M. Hulea, L. Miclea, V. Biscu, „Data Logger for Humidity and Temperature Measurement Based on a Programmable SoC”, 2014 IEEE International Conference on Automation, Quality and Testing, Robotics, AQTR 2014 (THETA 19), May 22-24, 2014, Cluj-Napoca, Romania.

8.B. Mrazovac, V. Ilian, and M. Hulea, “Beyond Industry 4.0: Leveraging AI-powered Anomalous Sound Detection for Smart Maintenance,” in 2021 Zooming Innovation in Consumer Technologies Conference (ZINC), Novi Sad, Serbia, May 2021, pp. 43–47. doi: 10.1109/ZINC52049.2021.9499309.

9.R. Miron, M. Hulea, and S. Folea, “Food Allergens Monitoring System Backed-up by Blockchain Technology,” in 2020 IEEE International Conference on Automation, Quality and Testing, Robotics (AQTR), Cluj-Napoca, Romania, May 2020, pp. 1–4. doi: 10.1109/AQTR49680.2020.9130006.

10.Hulea, M. , Miron, R. , Muresan, V. , Marcu, C. “WiPlatform, a sensing and event processing platform”, 19th International Conference on System Theory, Control and Computing, ICSTCC 2015 - Joint Conference SINTES 19, SACCS 15, SIMSIS 19; Cheile Gradistei - Fundata Resort Cheile Gradistei; Romania

- **OTHER PROJECTS**

WI-Sensors platform solution for Synchro Comp SRL.

Member of implementation team.

1. WI-Sensors RTD, "Wi-Senzori pentru măsurarea temperaturii cu termorezistență PT1000", Synchro Comp SRL, Craiova, România, 2012-2013
2. WI-Sensors T + RH, "Wi-Senzori de măsurare a temperaturii și umidității cu senzori digitali", Synchro Comp SRL, Craiova, România, 2011-201

Links <https://www.synchro.ro/en-us/WiSensors> | <https://ieeexplore.ieee.org/abstract/document/6699777>

- **NETWORKS AND MEMBERSHIPS**

2024

Membru IEEE

- **DRIVING LICENCE**

Driving Licence: B