



# Elena - Mirela ŞTEŢCO

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Memorandumului 28, 400114, Cluj-Napoca, Romania

## ● EDUCATION AND TRAINING

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01/10/2019 – CURRENT

**PH.D. STUDENT** – Technical University of Cluj-Napoca

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Faculty of Electronics, Telecommunications and Information Technology

Research topic: Magnetoresistive sensors for the detection of low intensity magnetic fields.

01/10/2017 – 17/07/2019

**M.SC. IN APPLIED ELECTRONICS** – Technical University of Cluj-Napoca

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Faculty of Electronics, Telecommunications and Information Technology

Dissertation Thesis: "Design and Characterization of a Micrometric Magnetoresistive Sensor"

01/10/2013 – 13/07/2017

**B. SC. IN ELECTRONICS, TELECOMMUNICATIONS AND INFORMATION TECHNOLOGY** – Technical University of Cluj-Napoca

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Faculty of Electronics, Telecommunications and Information Technology

Diploma title: "Design and Comparative analysis of Gm-C Filters"

## ● WORK EXPERIENCE

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24/02/2020 – CURRENT – Cluj-Napoca, Romania

**ASSISTANT PROFESSOR** – TECHNICAL UNIVERSITY OF CLUJ-NAPOCA

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Applied Electronics Department

01/10/2018 – 02/03/2020 – Cluj-Napoca, Romania

**MASTER STUDENT ENGINEER** – TECHNICAL UNIVERSITY OF CLUJ-NAPOCA

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Center of Superconductivity, Spintronics and Surface Science (C4S)

Project: Spin-orbitronic devices for non-volatile magnetic memory elements, **PN-III-P1-1.1-TE-2016-2131 No. 24/02.05.2018**

04/07/2016 – 16/08/2016 – Cluj-Napoca, Romania

**INTERNSHIP** – EMERSON

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## ● LANGUAGE SKILLS

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**Mother tongue(s):** ROMANIAN

**Other language(s):**

	UNDERSTANDING		SPEAKING		WRITING
	Listening	Reading	Spoken production	Spoken interaction	
<b>ENGLISH</b>	C2	C2	C1	C1	C2
<b>FRENCH</b>	B1	B1	A2	A2	B1

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

## ● DIGITAL SKILLS

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Matlab | Micromagnetic Simulations in OOMMF | OrCAD PSpice

## ● PUBLICATIONS

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### Scientific papers

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1. **E.M.Stetco**, O. A. Pop, A.Grama, and D.Csipkes, Design, Modelling and Simulation of a Fifth Order Low-Pass Gm-C Filter, 41<sup>th</sup> International Spring Seminar on Electronics Technology (ISSE), 2018, Zlatibor, Serbia, ISSN: 2161-2536, DOI: 10.1109/ISSE.2018.8443770, WOS:000449866600091.
2. **E.M.Stetco**, O. A. Pop, A.Grama, D.Csipkes, and E.Ceuca, Design and Simulation of a Sixth Order Band-Pass Gm-C Filter, IEEE 24<sup>th</sup> International Symposium for Design and Technology in Electronic Packaging (SIITME), 2018, Iași, România, DOI: 10.1109/SIITME.2018.8599271, WOS:000466960400041.
3. M. A. Ilie, **E.M. Stetco**, L. Viman and D. Pitica, AC Coupled Instrumentation Amplifier with Gytrators, 42<sup>th</sup> International Spring Seminar on Electronics Technology (ISSE), 2019, Wroclaw, Poland, ISSN: 2161-2536, DOI: 10.1109/ISSE.2019.8810302, WOS:000507501000074.
4. Grama, D. Petreus, B. Bia, O. Coca, G. Petrasuc, V. Socaciu, and **E. M. Stetco**, Personal Assistant Based on Internet of Things, IEEE 25<sup>th</sup> International Symposium for Design and Technology in Electronic Packaging (SIITME), 2019, Cluj-Napoca, România, ISSN: 2642-7036, DOI: 10.1109/SIITME47687.2019.8990799, WOS: 000564733700051.
5. **E.M. Stetco**, O. A. Pop, C. A. Davidas, T. Petrisor Jr., and M. S. Gabor, Design and Characterization of a Micrometric Magneto-resistive Sensor, IEEE 25<sup>th</sup> International Symposium for Design and Technology in Electronic Packaging (SIITME), 2019, Cluj-Napoca, România, ISSN: 2642-7036, DOI: 10.1109/SIITME47687.2019.8990875 .
6. A. Grama, **E.M. Stetco**, O. A. Pop, and O. Pop, Autonomous Robot for House Supervision Based on Personal Assistance Technology, 43<sup>rd</sup> International Spring Seminar on Electronics Technology (ISSE), Slovakia, 2020, ISSN: 2161-2536, DOI: 10.1109/ISSE49702.2020.9120882.
7. **E.M. Stetco**, O. A. Pop, M. S. Gabor, A.Grama, and D.Pitica, PSpice Model for a Current Sensor Based on Spin-Valve Magneto-resistive Microstructure, Electronics System-Integration Technology Conference (ESTC), 2020, Vestfold, Norway, ISBN:978-1-7281-6294-2, DOI: 10.1109/ESTC48849.2020.9229833.
8. **E. M. Stetco**, O. A. Pop, and A. Grama, Simulation Model of a GMR Based Current Sensor, IEEE 26<sup>th</sup> International Symposium for Design and Technology in Electronic Packaging (SIITME), 2020, Pitesti, Romania, ISBN: 978-1-7281-7507-2, DOI:10.1109/SIITME50350.2020.9292159 .
9. **E. M. Stetco**, C. A. Davidas, M. Nasui, O. A.Pop, M. S. Gabor, T. Petrisor Jr. Hybrid Superconducting Magneto-resistive Sensor for Low Magnetic Field Detection, 14<sup>th</sup> European Conference on Applied Superconductivity, 2019, SEC, Glasgow – poster presentation (**invited poster**).

## ● HONOURS AND AWARDS

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### PRO INVENT 2019

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Excellence award granted for the project Communication system for people with hearing impairments to avoid traffic events at PRO INVENT, Cluj-Napoca, 2019 awarded by Technical University of Moldova.

## ● **ORGANISATIONAL SKILLS**

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### **Organisational/ managerial skills**

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- IEEE member
- IMAPS member
- Member of the organizing committee of the Student Symposium on Electronics and Telecommunications (SSET)
- Member of the organizing committee of the 25th International Symposium for Design and Technology in Electronic Packaging (SIITME), 2019