

Europass Curriculum Vitae



Personal information

First name(s) / Surname(s) **Olivia Ramona (Miron) Bruj**

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 Gender Female
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Work experience

<p>Dates</p> <p>Occupation or position held</p> <p>Name and address of employer</p> <p>Principal subjects/occupational skills covered</p>	<p>July 2023 -present</p> <p>Technological development engineer II (IDT II)</p> <p>INCDTIM, str. Donath nr.67-103, 400293, Cluj-Napoca, Romania</p> <p>Development of new measurement and evaluation devices for energy storage systems. Generator design for micro wind turbines.</p>
<p>Dates</p> <p>Occupation or position held</p> <p>Name and address of employer</p> <p>Principal subjects/occupational skills covered</p>	<p>March 2019 -June 2023</p> <p>Technological development engineer III</p> <p>INCDTIM, str. Donath nr.67-103, 400293, Cluj-Napoca, Romania</p> <p>Testing lead-acid and Li-Ion batteries in order to increase and to optimize their lifetime performances.</p>
<p>Dates</p> <p>Occupation or position held</p> <p>Name and address of employer</p> <p>Principal subjects/occupational skills covered</p>	<p>June 2018-March 2019</p> <p>Technological development engineer</p> <p>INCDTIM, str. Donath nr.67-103, 400293, Cluj-Napoca, Romania</p> <p>EIS measurements and optimization algorithms.</p>
<p>Dates</p> <p>Occupation or position held</p> <p>Name and address of employer</p> <p>Qualifications achieved</p> <p>Principal subjects/occupational skills covered</p>	<p>July 2013 – May 2018</p> <p>Electrical & Instrumentation Engineer</p> <p>Emerson, Emerson str., no.4, 400641, Cluj-Napoca, Romania</p> <p>Course 7009 PCS DeltaV Implementation, Autocad & Autocad Electrical, 5590 Power Quality and Grounding, SE101 Safety Instrumented Systems</p> <p>I have designed automation systems for low voltage, small and medium projects in oil, chemical and gas industries. I coordinated Factory Acceptance Tests and Site Acceptance Tests. I developed Network Architecture diagrams and bill of materials.</p>
<p>Dates</p> <p>Occupation or position held</p>	<p>October 2009 - February 2013</p> <p>PhD Student</p>

Name and address of employer Technical University of Cluj-Napoca, Baritiu str., no. 26-28, 400020, Cluj-Napoca, Romania

Principal subjects/occupational skills covered I studied electromagnetic compatibility of thin films deposited within a magnetron sputtering chamber. I developed PEEC method for electromagnetic field evaluation and I measured shielding effectiveness of thin films in a coaxial TEM cell.

Main activities and responsibilities I have held classes of Numerical Methods Laboratories.

Education and training

Dates 2009-2012

Title of qualification awarded PhD in Electrical Engineering- *Contributions regarding the study of a magnetron sputtering device and the analysis of thin films shielding effectiveness*

Principal subjects/occupational skills covered Electromagnetic compatibility, thin films deposition within a magnetron sputtering device, electrical systems optimization methods, shielding effectiveness of thin films in a coaxial TEM Cell, numerical methods in Matlab/Mathcad.

Name and type of organisation providing education and training Technical University of Cluj-Napoca, Baritiu str., no. 26-28, 400020, Cluj-Napoca, Romania

Dates 2009-2010

Title of qualification awarded Master Degree - *The analysis of the magnetic source in a magnetron sputtering device*

Principal subjects/occupational skills Computer Aided Design in Electrical Engineering

Name and type of organisation providing education and training Technical University of Cluj-Napoca, Baritiu str., no. 26-28, 400020, Cluj-Napoca, Romania

Dates 2004-2009,

Title of qualification awarded Bachelor of science in Electrical Engineering

Principal subjects/occupational skills Electromagnetic field, Automated Systems, Numerical Methods in Electrotechnics

Name and type of organisation providing education and training Technical University of Cluj-Napoca, Baritiu str., no. 26-28, 400020, Cluj-Napoca, Romania

Dates 2000-2004

Title of qualification awarded Highschool Diploma

Principal subjects/occupational skills Informatics, Mathematics, Physics

Name and type of organisation providing education and training Informatics Highschool "Tiberiu Popoviciu", Cluj-Napoca, Romania

Personal skills and competences

Mother tongue(s) **Romanian**

Other language(s)

Self-assessment

European level (*)

English

Italian

French

German

Understanding

Speaking

Writing

Listening Reading Spoken interaction Spoken production

C2 Proficient user C2 Proficient user C2 Proficient user C2 Proficient user C2 Proficient user

B2 Independent user B2 Independent user B2 Independent user B2 Independent user B2 Independent user

A2 Elementary user A2 Elementary user A2 Elementary user A2 Elementary user A2 Elementary user

A2 Elementary User A2 Elementary User A2 Elementary User A2 Elementary User A2 Elementary User

(*) [Common European Framework of Reference for Languages](#)

Research stages	2010/2011/2012- University of Padova, Italy; 2011- South Westphalia University of Applied Sciences, Soest, Germany; 2012- Brunel University, London, England.
Publications	Over twenty scientific papers published in international / national journals.
Patents	1. Vasile Surducu, Emanoil Surducu, Olivia Bruj , G. Mihăilescu. Device for accumulators charging, measure and balancing by sequential commutation, Patent pending A00363, 2019. 2. Codrin Cantemir., Olivia Bruj . <i>“Electric Machine, Tuned Winding Geometry and Technology and related methods</i> , United States Patent, US11637469B2, 25 Apr 2023. 3. Codrin Cantemir, Olivia Bruj , „Fully Integrated Electric Machines and related Technology”, United States Patent, US12081075B2, 03 Sep 2024.
Organisational skills and competences	I coordinated more than ten projects in the low voltage electrical automation domain for chemical, gas and food industry.
Computer skills and competences	Good skills in Mathcad, Autocad, Matlab, EC-Lab, Labview, Comsol, Pspice, Ansoft Maxwell, Office computer programs.
Certifications	ANRE IIA+IIB
Driving licence	Category B vehicle.

Cluj-Napoca,
05.11.2024

Dr. Eng. Olivia Ramona (Miron) Bruj