

Iulia Văscan

Date of birth: 29/12/1993 | Nationality: Romanian | Gender: Female | ID: 014512312

Address: Strada 11, Cluj-Napoca, Romania

Education: Master's Degree in Electrical Engineering, Cluj-Napoca, Romania

● WORK EXPERIENCE

14/01/2020 – CURRENT

**MEMBER OF COORDINATING COUNCIL OF THE DOCTORAL PROGRAMS
ELECTRICAL ENGINEERING** – Technical University of Cluj-Napoca

Cluj-Napoca, Romania

01/04/2019 – CURRENT

ENGINEER – Technical University of Cluj-Napoca

Project - URBIVEL - Advanced Technologies for Intelligent Urban Electric Vehicles

Cluj Napoca, Romania

18/05/2018 – 18/05/2018

PARTICIPANT AT SCIENTIFIC STUDENTS GROUP SESSION - 53TH EDITION – Technical University of Cluj-Napoca

Second prize for the scientific project called "Comparative Analysis of Different FSCW- PMSMs Topologies for Light Traction Application", presented on 18 May 2018 at the Scientific Students Group Session - 53th Edition, Faculty of Electrical Engineering - Electrical Machines

Cluj Napoca, Romania

01/02/2017 – 01/08/2017

INTERNSHIP - ERASMUS STUDENT - BACHELOR'S DEGREE – Brose Fahrzeugteile GmbH & Co Kommanditgesellschaft, Würzburg in collaboration with University of

Bachelor Degree Subject - "Comparative Analysis of Different FSCW- PMSMs Topologies for Light Traction Application"

Würzburg-Schweinfurt, Germany

01/07/2016 – 01/10/2016

INTERNSHIP - ERASMUS STUDENT – Brose Fahrzeugteile GmbH & Co Kommanditgesellschaft, Würzburg

Subject - "Thermal behavior of PMSMs used in cooling fan modules"

Würzburg, Germany

22/05/2015 – 22/05/2015

PARTICIPANT AT SCIENTIFIC STUDENTS GROUP SESSION - 50TH EDITION – Technical University of Cluj-Napoca

First prize for the scientific project called "Irrigation Monitoring and Control", presented on 22 May 2015 at the Scientific Students Group Session - 50th Edition, Faculty of Electrical Engineering - Electrical Machines

Cluj- Napoca, Romania

03/04/2015 – 06/04/2015

VOLUNTEER – Technical University of Cluj-Napoca

- contributed at organizing the Maria Skłodowska- Curie – Days at university
Cluj- Napoca, Romania

16/03/2015 – 03/04/2015

PARTICIPANT AT THE "MOTION UNDER CONTROL" CONTEST – Technical University of Cluj-Napoca

We worked for 3 weeks to develop the scientific project named "Irrigation Monitoring and Control". The team was made of 2 participants and a mentor. We won 3rd prize.

Cluj Napoca, Romania

08/08/2014 – 10/08/2014

VOLUNTEER – Colibița Bike Fest (5th edition)

- responsible for signing up the participants for the cycling contest (Colibița Bike Fest)

Bistrița, Romania

16/05/2014 – 16/05/2014

PARTICIPANT AT SCIENTIFIC STUDENTS GROUP SESSION - 49TH EDITION – Technical University of Cluj-Napoca

Participated in the juniors category, with the scientific work called "Radiografia (X-ray)", about X-rays

Cluj- Napoca, Romania

● EDUCATION AND TRAINING

2019 – CURRENT – Cluj Napoca, Romania

PHD – Technical University of Cluj-Napoca

Department of Electrical Machines and Drives

2017 – 2019 – Cluj- Napoca, Romania

MASTER DEGREE – Technical University of Cluj-Napoca

Faculty of Electrical Engineering in collaboration with Groupe Renault Romania - **Advanced Electrical Systems** (Sisteme și Structuri Electrice Avansate) - Master' s Degree

2013 – 2017 – Cluj- Napoca, Romania

BACHELOR DEGREE – Technical University of Cluj-Napoca

Faculty of Electrical Engineering - Electromechanics - Bachelor' s Degree

2009 – 2013 – Bistrița, Romania

BACCALAUREATE DIPLOMA – Andrei Mureșanu High School

Mathematics-Computer Programming (Real)

- Programming;
- Mathematics;
- Physics
- Romanian Language;
- English;
- French;

● LANGUAGE SKILLS

Mother tongue(s): ROMANIAN

	UNDERSTANDING		SPEAKING		WRITING
	Listening	Reading	Spoken production	Spoken interaction	
FRENCH	B1	B1	A2	A2	B1
ENGLISH	B2	B2	B1	B1	B1

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

● DIGITAL SKILLS

Advanced use of MS Office (Word, Excel, PowerPoint) | Advanced skills using a personal computer: typing and internet browsing | Advanced knowledge of operating systems: Windows 95/98/2000/XP/Vista/7/8/10 | Average level programming languages: C/C++, Python | Average knowledge 6SigmaET (Thermal Simulation for Electronics Utilising CFD) | Average knowledge Gmsh/GetDP (mesh generator + finite element solver) | Medium knowledge using Arduino | Medium knowledge using: ANSYS Maxwell, LabVIEW, MATLAB & Simulink, AutoCAD, LabView | Medium knowledge using calculation software MathCad | Medium knowledge using Microsoft Project

● PUBLICATIONS

Publications

1. Andreea-Madalina Nicorici, **Iulia Văscan**, Claudia Marțiș, Ion Barsan, "Design and Analysis of a Surface Permanent Magnet Synchronous Machine for Automotive Applications", 15th International Conference on Engineering of Modern Electric Systems, June 13-14, 2019, Oradea, Romania;
2. **Iulia Văscan**, Florin Pop Pigeșan, Claudia Marțiș, Ion Barsan, "PMSM Rotor Topologies for Automotive HVAC System", Electric Vehicles International Conference & Show, 3 - 4 October 2019, Icpe Solar Park, Bucharest, Romania.
3. Sorin Iulian Cosman, **Iulia Văscan**, Cristina-Adina Bilațiu, Marius Drancă, Rares Iușan Alexandru, Claudia Steluța Marțiș, "E DM cutting for rapid prototyping of a PMBG", 2020 ELEKTRO, May 25-28, 2020, Taormina, Italy.
4. Sorin Iulian Cosman, **Iulia Văscan**, Cristina-Adina Bilațiu, Adriana Tintelecan, Claudia Steluța Marțiș, Bica Zorlescu, "Design and Analysis of a Heating, Ventilation and Air Conditioning System for Electric Vehicles", 2020 International Symposium on Power Electronics, Electrical Drives, Automation and Motion (SPEEDAM), June 24-26, Sorrento, Italy.

● DRIVING LICENCE

Driving Licence: B

● ORGANISATIONAL SKILLS

Organisational skills

By participating at the contests and scientific sessions I have gained important knowledge, especially in the field of electrical engineering. I learned how to manage my time to be as efficient as possible, so the projects I work for are ready and functional before the deadline. One other important aspect was learning how to work in a team.

Working in a company, or seeing how the university abroad is, helped me to learn how to set a deadline for my projects and how to manage my time effectively.

● COMMUNICATION AND INTERPERSONAL SKILLS

Communication and interpersonal skills

After being volunteer at the university and at the festival, I improved my communication skills with other people, especially with qualified persons (engineers). Also the last two Erasmus programs helped me to develop my communicative competence, due to the fact that I took part in many meetings, both in the company and in the university.