






PERSONAL INFORMATION

Carmen Catalina RUSU



-  4 Domneasca St., P10/44, 800035, Galati, Romania
-  +40 336 130 208
-  [carmen.rusu@ugal.ro](mailto:carmen.rusu@ugal.ro)
-  <http://www.if.ugal.ro/CD/CarmenRusu.htm>
- 

Sex Female | Date of birth 17/07/1977 | Nationality Romanian

WORK EXPERIENCE

**2013 - present**  
**2009 - 2013**

**Assistant Professor**

**Junior Assistant**

- “Dunarea de Jos” University of Galati - Faculty of Engineering, 47 Domneasca St., 800008 - Galati, Romania, <http://www.ugal.ro>; <http://www.if.ugal.ro>.
- Teaching and research activities in the field of Industrial and Management Engineering
- Development and implementation of RDI national and international projects
- Managing editor of the *Annals of “Dunarea de Jos” University of Galati, Fascicle XII, Welding Equipment and Technology*, Print ISSN: 1221-4639, <http://www.if.ugal.ro/AWET.htm>
- Responsible for the Laboratory of Automatic and Robotic Welding Systems, in the framework of *Centre for Advanced Researches in Welding - SUDAV*, <http://www.if.ugal.ro/Sudav.htm>, <http://www.unicer.ugal.ro/index.php/ro/prezentare-sudav>, <http://erris.gov.ro/SUDAV>
- Coordinator of *Department of Students Counselling and Career Guidance* (2016-present) <http://www.ing.ugal.ro/DCOCS/>
- Member of the *Department of Communication, Imagery and Institutional Identity - DCIII*, Faculty of Engineering (2012-2016)
- Member of Faculty of Engineering Council (2016-present)
- Member of Faculty of Engineering Admission Commission (2009-2015, 2019)

Business or sector Higher Education

**2017 - 2019**

**Researcher**

ALTFACOR SRL  
7 Portului St., 800035 - Galati, Romania, <http://www.altfactor.ro>.

- Research activities in ITC and IoT
- Implementation of national and international research project (POC, Eureka Cluster)
- Scientific reporting activities in the national and international research project

Business or sector ITC, IoT, RDI.

**2001 - 2009**

**ITC Engineer**

“Dunarea de Jos” University of Galati - Open and Distance Learning Department (ODL) 63-65 Garii St., 800003, Galati, Romania, <http://www.ugal.ro> <http://www.idd.ugal.ro>

- Coordinating activities of Logistics and Multimedia Department at ODL
- Development and implementation of national and international projects
- Member on annual committee of admission at ODL
- Technical elaboration and adaptation of e-courses for OLD platforms
- Management of the local network and site department, <http://www.idd.ugal.ro>
- Management of the ODL platforms: PIED, Moodle.

Business or sector Higher Education

**Jan. - Dec. 2008**

**Engineer**

“Dunarea de Jos” University of Galati, Department of Vocational Training and Technological Transfer 47 Domneasca St., 800008 - Galati, Romania, [www.ugal.ro](http://www.ugal.ro), [www.dfctt.ugal.ro](http://www.dfctt.ugal.ro)

- Hardware & Software maintenance and web site administration for the Department of Vocational Training and Technological Transfer (DFCTT)

Business or sector Vocational Training

## EDUCATION AND TRAINING

2011 - 2012

**International / European Welding Engineer (IWE/EWE)**

EQF level 6

ASR CertPers - Romanian Welding Society, 30, Bd. Mihai Viteazu, 300222 Timisoara, Romania

- M1-Welding Processes and Equipment, M2-Materials and their Behaviour during Welding, M3-Construction and Design and M4-Fabrication, Applications Engineering

2002 - 2011

**PhD in Industrial Engineering**

EQF level 8

"Dunarea de Jos" University of Galati, 47 Domneasca St., 800008-Galati, Romania

Thesis Title: *The modelling of the Thermo-Physical Processes of the Electrical Arc*, Scientific Coordinator: Prof. dr. ing. Emil Constantin, DHC (Analytical modelling and FEA of High-Strength Low-Alloy Steel Welding, Experimental Validation using Thermography, Cooling and Heating Rates modelling, Multi-arc and Multi-Wire Welding).

2007 - 2008

**Post-university Studies: Psycho-Pedagogical and Methodical Studies**

EQF level 7

"Dunarea de Jos" University of Galati, Department of Teachers Training, 47 Domneasca St., 800008-Galati, Romania

- Education Psychology, Pedagogy, Curriculum theories and methodologies, Training theories and methodologies, Assessing theories and methodologies, Specialty Didactics, Pedagogical practice, Computer-assisted instruction, Children Psycho-pedagogical Counselling and Education.

2005 - 2006

**Master of Science: Management of European Projects and Policies**

EQF level 7

"Dunarea de Jos" University of Galati, Faculty of Economic Sciences, 47 Domneasca St., 800008-Galati, Romania

- Elements of EU legislation, Administration mechanism of the European programmes and policies, Scientific research and technological development programmes, Social cohesion and institutional development programmes, Sector strategies and programmes, European Program Implementation Techniques, Institutional bases of the European construction, Financial administration methods of the European projects

2004 - 2006

**Master of Science: Quality Management in Industrial Engineering**

EQF level 7

"Dunarea de Jos" University of Galati, Faculty of Mechanical Engineering, 47 Domneasca St., 800008-Galati, Romania

- Quality assurance in of products, processes and services design, Quality systems, Audit and certification, Mechanical systems Identification, Quality evaluation and control, Policies, strategies and legislation of economic activities, Benchmarking, Human resources management, Environmental quality management, Total quality management, Marketing techniques and strategies

2004 - 2006

**Bachelor of Science in Mechatronics, Industrial Robotics**

EQF level 6

"Dunarea de Jos" University of Galati, Faculty of Mechanical Engineering, 47 Domneasca St., 800008, Galati, Romania

- Mechanical engineering fundamental and Specific courses: Mathematics, Physics, Informatics, Material Sciences, Systems Basis, Robotics, Mechatronics, Artificial Intelligence etc.

**Documentary and Research Stages, Vocational Training Programmes**

**November 2018:** "3D Modelling and Printing", course organised by Fablab Palermo, Palermo, Italia in the framework of FabLab SchoolNet project ([www.fablabsschoolnet.eu](http://www.fablabsschoolnet.eu))

**November 2018:** "Augmented Reality using Mobile Technologies", course organised by Centro Nazionale delle Ricerche - Istituto per Technologie Didattiche (CNR-ITD), Palermo, Palermo, Italia in the framework of FabLab SchoolNet project ([www.fablabsschoolnet.eu](http://www.fablabsschoolnet.eu))

**March 2019:** "Innovation Management", organized in the framework of the project no. POCU/227/3/8/117983, code COR 242106

**November 2018:** "Mentoring in Higher Education", Department of Vocational Training and Technological Transfer, DFCTT, UDJG

**November 2018:** "Innovative Didactic Strategies", Department of Vocational Training and Technological Transfer, DFCTT, UDJG

**September 2018:** "Integral Innovation", course organised by the Danubius Academic Consortium for Integral Innovation (DAC). Syllabus: Integral Innovation (GLI), Cultures of Innovation (KI), Creativity Methods (KT), Think-Tank (TT), Communication Concepts (CC), Technological Transfer (TU)

**July 2015:** "Project Manager", course organised by the "Solidaritate si Speranta" Foundation, 48 Costache Negri St., Iasi, Romania.

- April 2011:** “Scientific Writing & Publishing” course organised in the framework of project "Doctoral Studies in Schools of Excellence - Evaluation of the research activities quality in the universities and increasing the visibility by scientific publications", coordinated by the Executive Unit for Financing Higher Education, Research, Development and Innovation (UEFISCDI)
- March 2005:** “Training of teachers/trainers in vocational education”, Department of Vocational Training and Technological Transfer, DFCTT, UDJG
- October 2003:** “Communication and Public Relations”, Department of Vocational Training and Technological Transfer, DFCTT, UDJG
- October 2003:** “Project elaboration and management”, Department of Vocational Training and Technological Transfer, DFCTT, UDJG
- October 2003:** “European Integration and Community Relations”, Department of Vocational Training and Technological Transfer, DFCTT, UDJG
- October 2003:** “Human Resources Management”, Department of Vocational Training and Technological Transfer, DFCTT, UDJG
- March-June 2003:** Department of Vocational Training and Technological Transfer, DFCTT, UDJG  
**“Leonardo da Vinci” Scholarship (MSc level)**  
 Provincia di Potenza, Department of Internationalisation and Structural Funds, Basilicata Region, Italy  
 Leonardo da Vinci” scholarship dedicated to vocational training, Lifelong Learning Programme - LLP, in the field of administration and management of European funds - European Social Fund (2001-2006)

**PERSONAL SKILLS**

Mother tongue(s) Romanian

Other language(s)

|  | UNDERSTANDING |         | SPEAKING           |                   | WRITING |
|--|---------------|---------|--------------------|-------------------|---------|
|  | Listening     | Reading | Spoken interaction | Spoken production |         |
| English                                  | B2            | B2      | B2                 | B2                | B2      |
| Certificate of English Language Level B2 |               |         |                    |                   |         |
| Italian                                  | B2            | B2      | B2                 | B2                | B2      |
| Certificate of Italian Language Level B2 |               |         |                    |                   |         |
| French                                   | A2            | A2      | A1                 | A1                | A1      |
| Certificate of French Language Level A1  |               |         |                    |                   |         |

Levels: A1/A2: Basic user - B1/B2: Independent user - C1/C2 Proficient user  
[Common European Framework of Reference for Languages](#)

Communication skills

- Teaching and training activities in different countries (Algeria, Croatia, Germany, Italy, Spain)
- Attending national and international conferences and meetings organised in Algeria, Croatia, Switzerland, Germany, Greece, Italy, Czech Republic, Portugal, Republic of Moldova, Spain, Sweden, Tunis, Hungary
- Participation in national and international research projects or other initiatives: PNIII/PNII, POC, Eureka, POCU, POSDRU, CEEX, TEMPUS, PHARE, Leonardo da Vinci, Erasmus+
- Participation in national delegation of international competition World Robot Olympiad™ organised in Indonesia (2013), Russia (2014), Qatar (2015), India (2016), Costa Rica (2017), Thailand (2018), Hungary (2019) and Pan Hellenic Robotic Competition from Greece (2019)
- Participation as coordinator in mobilities from Italy with: the Allegria Choir of „Dunarea de Jos” Cultural Centre from Galati to Province of Potenza, Basilicata Region, Italy (2005) and “Vasile Alecsandri” National College, „Al. I. Cuza” National College and „Radu Negru” High School from Galati to the Liceo Scientifico „Frederico II di Svevia” from Melfi, Potenza, Basilicata Region, Italy (2006)
- Participating in scholarship mobility (2003) and working experience (2006) in international projects, implemented in Italy

Organisational / managerial skills

- **Academic Management**
- Member in the Faculty of Engineering Council (2016-present)
- Vice-Head of Department of Manufacturing Engineering, Faculty of Engineering (2015-2019)
- Coordinator of Students Department of Counselling and Career Guidance (2016-present)
- Assistant Manager of the Regional Center for Flexible Education and Training, Galati, Faculty of Engineering, "Dunarea de Jos" University of Galati (2012-present)
- Member of the coordinating team involved in the accreditation of the *Mechatronics* - MTR Study Program, the Faculty of Engineering, "Dunarea de Jos" University of Galati (2013) and the Master

Program *Design and Simulation in Welding Engineering* - PSIS (2016)  
 - Member of the annual admission commission in the Faculty of Engineering of "Dunarea de Jos" University of Galati.

**• Project Management**

- UDJG Partner Responsible of the international project "Jointly preparing the condition in the agricultural and connected sectors in the BSB area for the digital transformation" - BSB Smart Farming, in the framework of Black Sea Basin Programme 2014-2020, code BSB 908/2018 (2019-2021)
- UDJG Partner Responsible of the international Project "STEAM education and learning by Robotics, 3D and Mobile technologies", FabLab SchoolNet, code 2018-1-LT01-KA201-047064
- Project manager (SC ALTFACOR SRL) of the project „Smart City 3D Simulation and Monitoring Platform”, CITISIM, PN-III-P3-3.5-EUK-2016-0043, Eureka Cluster Programme (2016-2019)
- Project manager (SC ALTFACOR SRL) of the project, „Wearable IoT Network Solution for Work Safety in Hazardous Industrial Environments” - WINS@HI, PN-III-P3-3.5-EUK-2017-02-0038, Eureka Cluster Programme (2017-2020)
- Assistant manager of the UDJG Partner in the project "Flexible training program on mechatronic platforms, FLEXFORM, POSDRU/87/1.3/S/64069, (2010-2014)

**• Scientific/Organising Committee**

- Member in the Editorial Board of *Journal of Modern Mechanical Engineering and Technology* - EBM, ISSN (online): 2409-9848 (2019-present)
- reviewer of the *American Journal of Science and Technology*, ISSN: 2375-3846 (2012-2018)
- member of the organizing committee of "Dunarea de Jos" University of Galati Scientific Conference of the Doctoral Schools SCDS-UDJG, Galati (2018 - present)
- member of the organizing committee of "Polymer Processing in Engineering" International Conference, Galati (2017, 2019)
- President of the Scientific Committee of the Regional Competition *World Robot Olympiad™* - Galati, May 2013 - present
- President of the Scientific Committee of the National Competition *World Robot Olympiad™*, Open Category, May 2013 - present
- Member of the Scientific and Organising Committee of National Mechatronics Competition „Zilele Educatiei Mecatronice”, 2013
- Member of the evaluation committee of the International Informatics Contest „Severin Bumbaru”, (2006, 2007)
- Member in other committees: more than 15 scientific events both at national and international level
- Assistant Manager of the Galati Branch of the Robotics Society of Romania (S.R.R.)
- Expertise in using and managing hardware and software tools and equipments in teaching activities;
- Technical skills in various fields: welding equipment, computer assisted design, thermal processes phenomena, simulation of welding processes, mechatronics, robotics etc.
- Good knowledge of quality assurance and in industrial engineering and higher education;
- Technical skills and knowledge in fields of Educational Robotics, Internet of Things - IoT, Industrial Internet of Things - IIoT, Big Data, Data Analysis and Processing, Signal Processing, IR Thermography.

Job-related skills

Digital skills

SELF-ASSESSMENT

| Information processing | Communication    | Content creation | Safety           | Problem solving  |
|------------------------|------------------|------------------|------------------|------------------|
| Proficient user        | Independent user | Proficient user  | Independent user | Independent user |

Levels: Basic user - Independent user - Proficient user

[Digital competences - Self-assessment grid](#)

Replace with name of ICT-certificates

- MS Office (Word, Excel, PowerPoint, Visio, Project)
- WEB development: (HTML, CSS, JavaScript)
- Professional editing: photo, audio and video (Corel Draw, Adobe PhotoShop, Adobe Premiere, Adobe After Effects, Adobe Illustrator)
- CAD/CAM: Autodesk AutoCAD, Autodesk Inventor
- Statistics: OriginLab, Minitab
- Numerical analysis and development: Labview, Matlab, RoboDK
- FEA: COSMOS/M, Simufact Welding
- 3D printing: Ultimaker Cura, TinkerCAD, PrusaSlicer

Driving licence

B driving licence

## ADDITIONAL INFORMATION

- Publications
- Presentations
- Projects
- Conferences
- Seminars
- Honours and awards
- Memberships
- References
- Citations
- Courses
- Certifications

**• Honours and awards**

- Excellence Diploma and Golden Medal for the „Wins@HI - Industrial & Construction Sites Use Case”, Rusu C. C., Mistodie L. R., Ivanov M. P., Salonul Inovării și Cercetării UGAL INVENT, 2019
- Award for research results/Articles 2018, PN-III-P1-1.1-PRECISI-2018-23664, for the article “Experimental investigations on the polypropylene behavior during ultrasonic welding”, authors: Chinnadurai T., Arungalai Vendan S., Rusu C. C., Scutelnicu E., Materials and Manufacturing Processes 33 (7), 718-726
- Diploma and special award from the Romanian Inventors Forum for the project entitled "Security Increasing in Gas Supplying of Trans-European Pipelines - GAZODUCT", members: Scutelnicu E., Rusu C. C., Mircea O., Mistodie L. R., Birsan D. C., Georgescu B., Mihailescu D., Visan D., Research and Innovation Salon UGAL INVENT, 19-20 October 2017, Galati, Romania
- Excellence Diploma and Golden Medal for the patent no. 128721 - Instalatie de sudare tip multiarc electric, authors: Rusu C. C., Mistodie L. R., Voicu C., Scutelnicu E., Constantin E., Bormambet M. to the International Fair of Inventions and Practical Ideas, UGALINVENT 2017
- Excellence Diploma and Golden Medal for the " Security Increasing in Gas Supplying of Trans-European Pipelines - GAZODUCT", authors: E. Scutelnicu, C. C. Rusu, O. Mircea, L. R. Mistodie, D. C. Birsan, B. Georgescu, D. Mihailescu, D. Visan, Research and Innovation Salon UGAL INVENT, 19-20 October 2017, Galati, Romania
- Excellence Diploma and Golden Medal for the paper entitled " Developing 3D Digital Pathology with Spectroscopy - 3D Pathology ", Authors: Mistodie L. R., Rusu C. C., Ivanov M., Caraman D., Research and Innovation Salon UGAL INVENT, 19-20 October 2017, Galati, Romania.
- Excellence Diploma and Silver Medal for the paper entitled "Smart City 3D simulation and monitoring platform - CITISIM", Authors: Rusu C. C., Mistodie L. R., Ivanov M., Suci G., Research and Innovation Salon UGAL INVENT, 19-20 October 2017, Galati, Romania
- Excellence Diploma and Golden Medal for the patent no. 128721 - Instalatie de sudare tip multiarc electric, authors: Rusu C. C., Mistodie L. R., Voicu C., Scutelnicu E., Constantin E., Bormambet M. to the International Fair of Inventions and Practical Ideas INVENT - INVEST 2016, organised by the Romanian Inventors Society
- The Trophy of Excellence in Mechatronic Education awarded by FESTO Didactic Romania, for the participation to the national contest “Zilele Educatiei Mecatronice” - ZEM - 13-16 Mai 2015, Craiova
- Diploma „Anghel Saligny” for excellence achievements as Assistant Professor granted by Faculty of Engineering, „Dunarea de Jos” University of Galati, 21<sup>st</sup> of May 2014
- Diploma „Anghel Saligny” for excellence achievements as Junior Assistant Professor granted by Faculty of Engineering, „Dunarea de Jos” University of Galati, (2010, 2012 și 2013)
- Award certificate for outstanding performance and exceptional team work spirit provided by ArcelorMittal Galati Center for Professional Training and Work Safety

**• Member of Professional Associations**

- Romanian Welding Society (A.S.R.), 2006 - present
- Robotics Society of Romania (S.R.R.), 2006 - present
- Society of Automotive Engineers of Romania (S.I.A.R.), 2014 - present
- Institute of Research Engineers and Doctors (I.R.E.D.), Associate member, 2014 - present
- WROHELLAS™ “Organization Educational Robotics & Science”, 2013 - present
- Romanian-Chinese Association for Sustainable Development (ARCCDD), 2019 - present

**• Scientific Identification**

- WoS Researcher ID: AAA-5863-2019 (<http://www.researcherid.com/rid/AAA-5863-2019>)
- Scopus ID: 18435404300 (<https://www.scopus.com/authid/detail.uri?authorId=18435404300>)
- ORCID: <https://orcid.org/0000-0002-2626-5512>
- BrainMap UEFISCDI ID: U-1700-039R-0753 (<https://www.brainmap.ro/carmen-catalina-rusu>)
- Publons ID: D-9530-2014 (<https://publons.com/researcher/1491040/carmen-rusu/>)

**• Courses Designed for Teaching Activities**

- Quality Assurance and Certification (MSc level)
- Enterprise Resource Planning - ERP (BSc Level)
- Interactive Design and Experimental Data Processing (MSc level)
- Design of Welded Structures (MSc Level)

February 2020

Assist. Prof. Dr. Eng. Carmen Cătălina Rusu