


PERSONAL INFORMATION



MOROSANU Georgiana-Alexandra

 Plutonier Stoicescu, no. 41, Tecuci, postal code 805300, Romania

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 Alexandra.Costin@ugal.ro

Sex Female | Date of birth 28/07/1994 | Nationality Romanian

EDUCATION AND TRAINING

30.09.2019-present

PhD Student

Domain: Engineering Sciences, Subdomain: Industrial Engineering
"Dunarea de Jos" University of Galati, Faculty of Engineering, Domneasca Street, No. 47, 800008 - Galati, Romania, <http://www.ugal.ro>, <http://www.ing.ugal.ro>

PhD thesis title/theme: „Methods of studying reciprocally enveloping surfaces with reverse engineering applications”

Educational activities - Hydraulic and pneumatic drives, Basics of surface generation, Enterprise resource planning - ERP, Entrepreneurship, Maintenance management

01.10.2017-17.07.2019

Master's degree

Domain: Mechanical Engineering, Specialization: Graphics and Computerized Modeling
"Dunarea de Jos" University of Galati, Faculty of Engineering, Domneasca Street, No. 47, 800008 - Galati, Romania, <http://www.ugal.ro>, <http://www.ing.ugal.ro>

Dissertation title: „Constructive-functional analysis and graphical modeling of a hydromechanical deep-drawing die”

01.10.2013-20.07.2017

Engineer Degree

Domain: Engineering and Management, Specialization: Industrial Economic Engineering
"Dunarea de Jos" University of Galati, Faculty of Engineering, Domneasca Street, No. 47, 800008 - Galati, Romania, <http://www.ugal.ro>, <http://www.ing.ugal.ro>

Diploma project title: „Assessing European funds in order to build an agro-pension. Aspects regarding the roughness of the holes processed by drilling for polymeric materials. Manufacturing technology of the Straight shaft piece”

WORK EXPERIENCE

01.01.2021 - present

Research assistant

"Dunarea de Jos" University of Galati, Faculty of Engineering, Department of Manufacturing Engineering, Domneasca Street, No. 111, 800201 - Galati, Romania, <http://www.ugal.ro>, <http://www.ing.ugal.ro>

Research and development activities in the field of data processing by cold plastic deformation in the project: „Intelligent manufacturing technology for production of advanced automotive and aerospace industries” (TFI PMAIAA), PN-III-P1-1.2-PCCDI-2017-0446/82-2018.

Type or sector of activity Teaching - Research - Development

01.10.2018 - 01.12.2020

Technician of physico-chemical determinations

"Dunarea de Jos" University of Galati, Faculty of Engineering, Department of Manufacturing Engineering, Domneasca Street, No. 111, 800201 - Galati, Romania, <http://www.ugal.ro>, <http://www.ing.ugal.ro>

Research and development activities in the field of data processing by cold plastic deformation in the project: „Intelligent manufacturing technology for production of advanced automotive and aerospace industries” (TFI PMAIAA), PN-III-P1-1.2-PCCDI-2017-0446/82-2018.

Type or sector of activity Teaching - Research - Development

12.02.2018 - 12.09.2018

Economic clerk

S.C. Selir S.R.L., Gării Street, no. 59, Galati

Type or sector of activity Document registration activities using specific accounting programs

26.07.2016 – 26.10.2016

Data entry and validation operator

Topometrica Sistem S.R.L., Tulcea

Type or sector of activity Elaboration activities of topographic documentations

01.08.2015 - 30.09.2015

Project Assistant - Computing and Networking Technician

Liberty Steel (ArcelorMittal Galati S.A.), Calea Smardan, Galati

Type or sector of activity Identifying problems to reduce working times in safety conditions

PERSONAL SKILLS

Efficiency and seriousness at work, suitable behavior towards colleagues, superiors and collaborators.

Mother tongue Romanian

Other languages

	UNDERSTANDING		SPEAKING		WRITING
	Listening	Reading	Spoken interaction	Spoken production	
English	B1	A2	B1	B1	B2
Certificate of Language Competence in an international language					
French	A1	A2	A1	A1	A2

Levels: A1/2: Elementary user; B1/2: Independent user; C1/2: Experienced user.
Common European Framework of Reference for Foreign Languages

Communication skills Cooperation, the ability to assimilate new information and skills, enhanced ability to adapt.

Organisational/managerial skills

Involvement in activities such as:

- Member of the organizing committee of the NEWTECH 2020 Conference (The 6th International Conference on Advanced Manufacturing Engineering and Technologies - NEWTECH 2020, Galati;
- Member of the University Association of Manufacturing Engineering - AUIF, 2020;
- Secretary at the National Session of Student Scientific Communications, "Anghel Saligny", 12th Edition, Section 1. Modern Technologies and Management in Industrial Engineering, 2020;
- Diploma project guidance, academic year 2019-2020;
- Guidance of student scientific papers (National Session of Student Scientific Communications, "Anghel Saligny", 12th Edition, Section 1. Modern Technologies and Management in Industrial Engineering), 2020;
- Member of the Technological Engineering in Machine Building Research Center - ITCM, 2018
- Member of the organizing committee of the Technical contest „Mihai Honoriu Teodorescu (CMHT)”, 4th, 5th and 8th Editions, in the years of 2015, 2016 and 2019;
- Member of the organizing committee of the National Session of Student Scientific Communications, "Anghel Saligny", 7th and 8th Editions, in the years of 2015 and 2016;
- Contributions to the realization of the Faculty of Engineering calendar, in the years of 2016 and 2017;
- Member of the organizing committee of the Cross-Ing competition, 1st and 2nd Editions - 2015 and 2016;
- Member of the organizing committee of the „Brad Engineering” event, 1st and 2nd Editions - 2015 and 2016;
- Member of the organizing committee of the „Days of the Academy of Technical Sciences in Romania (ASTR)” conference, 10th Edition, 2015;
- Member of the organizing committee of the „Polymer Processing in Engineering (PPE)” Conference, 2015.

Digital skills A good knowledge of programming languages: Access, Excel, Power Point, Word;
A good knowledge of AutoCAD, Autodesk Inventor and Catia software programs.

Other skills The ability to investigate, analyze and solve problems, the desire of continuous learning, organization

Driving licence Driving licence B

ADDITIONAL INFORMATION

Certificates

- 2020 Graduation certificate - Trainer, COR code 242401
- 2019 Certificate of Linguistic Competence in English - B2 level

Courses

15.02.2016 – 27.05.2016 Computer-aided graphics – CATIA

- Awards**
- **Mention award** for the results obtained at the Fair of Scientific Posters held in Galați within the TRECIA 2020 event (Translating the results of research carried out at the “Dunărea de Jos” University of Galați into entrepreneurial initiatives), December 14, 2020;
 - **1st prize** for the results obtained at the Poster Fair of ideas and business plans, held within the SAADC event (Students and Graduates Entrepreneurs in Dialogue with Companies), 2018, Project code: CNFIS-FDI-2018-0132;
 - **3rd prize** at the Business Ideas Competition organized within the project Modern and efficient entrepreneurship for students and UDJG graduates, SAS-UGAL, Project code: CNFIS-FDI-2017-0542;
 - **3rd prize** at the Student Professional Contest „Mastercam Context” - 1st Edition, May 11, 2016 and 2nd Edition, April 27, 2017;
 - **1st prize** at the Student Contest of Engineering Graphics and Industrial Design, organized by the Romanian Society of Engineering Graphics - SORGING, paper entitled „*The graphic modeling of a drilling device for the EMCO MILL 55 CNC milling and drilling machine*”, 2016;
 - **Special Award** for the activity to promote the image of the Faculty of Engineering during the academic year 2015 - 2016;
 - **3rd prize** at the Student Contest of Engineering Graphics and Industrial Design, organized by the Romanian Society of Engineering Graphics - SORGING, with the paper entitled „*Art and Engineering in Metal Sculptures*”, 2015;
 - **3rd prize** at the Professional contest of Engineering Graphics Representation in AutoCAD - 2D Section, 8th Edition, 2015;
 - Awards at the National Session of Student Scientific Communications, „Anghel Saligny”, 8th, 9th and 11th Editions:
 - **Mention award** - for the paper entitled „*Graphic modeling and studies on the hydraulic parameters of volumetric pumps*” (11th Edition, 2019);
 - **2nd prize** - for the paper entitled „*Aspects regarding the roughness of the holes processed by drilling for polymeric materials*” (9th Edition, 2017);
 - **3rd prize** - for the paper entitled „*Sources of financing for student entrepreneurship*” (8th Edition, 2016);
 - **3rd prize** - for the paper entitled „*The graphic modeling of a drilling device for the EMCO MILL 55 CNC milling and drilling machine*” (8th Edition, 2016);
 - **Mention award** - for the paper entitled „*Particularities of the forward, futures and with options transactions*” (8th Edition, 2016);
 - **Mention award** - for the paper entitled „*Case study on elaboration of decisions in certainty conditions*” (8th Edition, 2016);

ANEXE

Scientific papers list

Scientific papers list

1. N. Baroiu, **G. A. Costin**, G. R. Frumușanu, V. G. Teodor, N. Oancea, *Study of the stator geometry for a Moineau pump*, The 5th International Conference on Computing and Solutions in Manufacturing Engineering - COSME 2020, IOP Conference Series: Materials Science and Engineering, 1009, 012003, doi:10.1088/1757-899X/1009/1/012003, ISSN 1757-899X (Online), 1757-8981 (Print), 2021, <https://iopscience.iop.org/article/10.1088/1757-899X/1009/1/012003/pdf>
2. N. Baroiu, **G. A. Costin**, V. G. Teodor, D. Nedelcu, V. Tăbăcaru, *Prediction of Surface Roughness in Drilling of Polymers using a Geometrical Model and Artificial Neural Networks*, Journal of Plastic Materials, Vol. 57, Issue. 3, ISSN 2668-8220 (Online), 0025-5289 (Print), pp 160-173, **Impact factor 2019 - 1.517**, <https://doi.org/10.37358/MP.20.3.5390>, 2020, <https://revmaterialeplastice.ro/Articles.asp?ID=5390>
3. **G. A. Costin**, V. G. Teodor, N. Oancea „Virtual Pole” method applied at the profiling of the rotary cutter tool for processing of ball screw, ModTech International Conference Modern Technologies in Industrial Engineering, IOP Conf. Series: Materials Science and Engineering 916, 012022, doi:10.1088/1757-899X/916/1/012022, ISSN 1757-899X (Online), 1757-8981 (Print), 2020, <https://iopscience.iop.org/article/10.1088/1757-899X/916/1/012022/pdf>
4. **G. A. Costin**, V. G. Teodor, *Virtual pole method applied at the profiling of the gear shaped cutter tool for generating a K-type bore*, 7th International Conference on Manufacturing and Materials Engineering – ICMMEN, MATEC Web of Conferences 318, 01001, <https://doi.org/10.1051/mateconf/202031801001>, ISSN 2261-236X, 2020, https://www.matec-conferences.org/articles/mateconf/pdf/2020/14/mateconf_icmmen20_01001.pdf
5. N. Baroiu, **G. A. Costin**, *The graphic model and the constructive-functional analysis of a normally open direct-acting valve*, Journal of Industrial Design and Engineering Graphics - JIDEG, Vol 14, No 1, Issue 1, pp. 99-104, ISSN 1843-3766, 2019, <http://sorging.ro/jideg/index.php/jid/article/view/435/408>
6. N. Baroiu, R. P. Baroiu, **G. A. Costin**, C. C. Rusu, *Graphical Modelling of a Butt Fusion Welding Machine for Thermoplastic Materials*, Journal of Industrial Design and Engineering Graphics - JIDEG, Vol. 14, No. 2, Issue 2, pp. 5-10, ISSN 2344-4681 (Online), 1843-3766 (Print), 2019, <http://sorging.ro/jideg/index.php/jideg/issue/view/jidegv14i2>
7. V.G. Teodor, V. Păunoiu, C. Cărăușu, N. Baroiu, **G. A. Costin**, *Statistical control of forming process*, ModTech International Conference Modern Technologies in Industrial Engineering, Iași, Romania, IOP Conf. Series: Materials Science and Engineering 591, 012071, doi:10.1088/1757-899X/591/1/012071, ISSN 1757-899X (Online), 1757-8981 (Print), 2019, <https://iopscience.iop.org/article/10.1088/1757-899X/591/1/012071/pdf>
8. V. G. Teodor, **G. A. Costin**, *Virtual Pole Method – Alternative Method for Profiling Rack Tools*, The Annals of „Dunărea de Jos” University of Galați, Fascicle V, pp. 5-8, ISSN 2668-4888 (Online), 2668-4829 (Print), 2019, <http://www.cmrs.ugal.ro/TMB/2019.htm>
9. **G. A. Costin**, V. G. Teodor, N. Oancea *The Virtual Pole Method- An Alternative Method for Profiling Tools which Generate by Enwrapping*, The Annals of „Dunărea de Jos” University of Galați, Fascicle V, pp. 31-34, ISSN 2668-4888 (Online), 2668-4829 (Print), 2019, <http://www.cmrs.ugal.ro/TMB/2019.htm>
10. I. Iacob, **G. A. Costin**, C. Afteni, V. Păunoiu, *Modeling of Sheet Metal Forming using Quasi-Elastic Media*, The Annals of „Dunărea de Jos” University of Galați, Fascicle V, pp. 35-38, ISSN 2668-4888 (Online), 2668-4829 (Print), 2019, <http://www.cmrs.ugal.ro/TMB/2019.htm>
11. **G. A. Costin**, C. Afteni, I. Iacob, V. Păunoiu, N. Baroiu, *An Overview on Sheet Metal Hydroforming Technologies*, The Annals of „Dunarea de Jos”, University of Galați, Fascicle V, Technologies in Machine Building, pp. 55-62, ISSN 2668-4888, 2018, http://www.cmrs.ugal.ro/TMB/2018/L08_Anale2018-Costin.pdf
12. C. Afteni, **G. A. Costin**, I. Iacob, V. Păunoiu, V. Teodor, *A Review on Sheet Metal Rubber-Pad Forming*, The Annals of „Dunarea de Jos”, University of Galați, Fascicle V, Technologies in Machine Building, pp. 49-54, ISSN 2668-4888, 2018, http://www.cmrs.ugal.ro/TMB/2018/L07_Anale2018-Afteni_2.pdf
13. N. Baroiu, **G. A. Costin**, *Particularities in determining the functional parameters of a hydrostatic system*, The Annals of „Dunărea de Jos”, University of Galați, Fascicle V, Technologies in Machine Building, pp. 35-40, ISSN 1221-4566, 2017, http://www.cmrs.ugal.ro/TMB/2017/L05_2017_Baroiu_01.pdf
14. F. Susac, V. Tăbăcaru, **G. A. Costin**, *Fixturing Device for Drilling a Straight Shaft*, Journal of Industrial Design and Engineering Graphics - JIDEG, Vol. 12, No. 1, Issue 1, pp. 147-154, ISSN 2344-4681 (Online), 1843-3766 (Print), 2017
15. N. Baroiu, V. G. Teodor, **G. A. Costin**, *Constructive-functional analysis of single-rod double-acting hydraulic cylinders*, TEHNOMUS Journal - New Technologies and Products in Machine Manufacturing Technologies, ISSN-1224-029X, pp. 126-131, 2017, http://www.fim.usv.ro/conf_1/tehnomusjournal/pagini/journal2017/files/21.pdf
16. **G. A. Costin**, G. V. Troncuță, A. C. Leșe, N. Baroiu, *Art and engineering in metal sculptures*, Journal of Industrial Design and Engineering Graphics - JIDEG, Vol. 11, Issue 1, ISSN 1843-3766, pp. 23-28, 2016, <http://www.sorging.ro/jideg/index.php/jid/article/view/297/282>
17. **G. A. Costin**, F. Susac, N. Baroiu, *The graphic modeling of a drilling device for the EMCO MILL 55 CNC milling and drilling machine*, Journal of Industrial Design and Engineering Graphics - JIDEG, Vol. 11, Issue 2, ISSN 1843-3766, pp. 35-40, 2016, <http://www.sorging.ro/jideg/index.php/jid/article/view/309/294>