

PERSONAL INFORMATION

Lecturer dr.eng. Florin POIȘTER



PROFESIONAL EXPERIENCE

2017-2019

Design Engineer

Guehring Romania, Cluj-Napoca, Corneliu Coposu Str., nr. 167A, Cluj-Napoca, Romania, www.guehring.de

- Design engineer in the PCD/PCBN Tools (<https://guehring.com/en/products/pcd-pcbsn-tools/>).
- Design responsibility in order to produce complex tools for the manufacturing industry of alloy with orientation in the automotive industry
- PCD/PCBN develop and produce innovative diamond tools. 95 % of them are custom tools that are developed together with the customers

2010 - present

Academic associate professor / Teaching assistant / Lecturer

Technical University of Cluj-Napoca, Memorandumului Str., nr. 28, Cluj-Napoca, Romania, www.utcluj.ro

- Didactic activities with course and laboratory
- Teaching students regarding CAD/CAM software applications - CATIA V5, AutoCAD and SolidWorks.
- Elaborating semester projects within Robotics Engineering
- Diploma projects tutor

01.2008-09.2009

Type or field of activity : University education, research

CNC Operator/Programmer

S.C. CMIE S.R.L. - Fabricii Str., nr. 118/A, Cluj-Napoca, Romania

- Programming-operating various types of CNC machine tools
- Service and maintenance to various types of CNC machine tools
- Training activities for operating and programming CNC machine tools

Type or field of activity : Mechanical

07.2007-10.2007

CNC Operator/Programmer

S.C. RAAL S.A -Industry Str., nr. 4/A, Bistrița, Romania

- Production
- Development of numerically controlled programs for processing the parts on CNC lathe machine tools Lynx 200 / Lynx 220 and assisting the process technology

Type or field of activity : Mechanical

07.2005-09.2005

Project engineer

S.C. MEBIS S.A - Industry Str., nr 4, Bistrița, Romania

- Project engineer in the department "Design Workshop for Devices Tools Checkers (DTC)"
- - monitoring the achievement by products launched at the Toolroom Section;
- - design of medium complexity milestones needed for DTCs
- - updating the documentation for DTCs for products intended for export;
- -monitoring the records for the projects launched in the Toolroom Section;

Type or field of activity : Mechanical

EDUCATION AND TRAINING

06.2012-30. 09.2013

Debutant teacher

Within then project " **Academic school for the initial and continuing training of teaching staff and trainers in the field of engineering and technical specializations - DidaTec** ", POSDRU/87/1.3/S/60891

10.2009-30.09.2012

Ph.D. Student - Technical University of Cluj-Napoca

Doctoral field : Industrial engineering

- Doctoral thesis „Contributions regarding the achieving of complex surfaces on CNC equipment through reverse engineering methods"



2004 - 2009

Diplomat Engineer – Bachelor Student

- Technical University of Cluj-Napoca - Faculty of Machine Building
- Specialization: Industrial Robots (teaching language: English)
- Diploma thesis: „Postprocessor for 4- and 5- axis machine tools design and comparison"

PERSONALABILITIES

Foreign languages

English				
UNDERSTANDING		SPEAKING		WRITING
Listening	Reading	Conversation	Speech	
C2 - Experienced user	C2 - Experienced user	C1 - Experienced user	C1 - Experienced user	B2 – Independent user
certificate JETSET, Level 5, London Chamber Of Commerce and Industry International Qualifications - May 2012				

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

German				
UNDERSTANDING		SPEAKING		WRITING
Listening	Reading	Conversation	Speech	
A2 - Basic user	A2 - Basic user	A2 - BASIC USER	A2 - B USER	A1– Independent user

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

Communication abilities

- Experience in multicultural fields
- Collaboration contracts and national research

Digital abilities

- **Software CAD-CAM:** AutoCAD, SolidWorks, CATIA V5, Delcam
- Software ERP, Software VR/AR
- **Equipment and software applications** specific to the reverse engineering area –data processing: CopyCad, PowerInspect, PowerShape;
- **Digitizing surfaces** : Renishaw Cyclone II -Tracecut 24, Cimcore Stinger II scanner laser Zephyr – Polygonia
- **Graphic Software:** Corel Draw

Scientific and technical abilities

- Published books/book chapters: 3
- Published scientific articles/ communicated: 35 (over 15 indexed in international data bases)

Other abilities and certifications

- First prize at the Students Scientific Communications Session HD 36 STUD Hunedoara May 19 – 20 2006
- Licenced user for the software CATIA V5 Fundamentals Custom / Expert Mechanical Designer Custom / Numerical Control Infrastructure /Prismatic Machining / Surface Machining / Multi-Axis Surface Machining, obtained Magic Engineering, Brasov, January 2010
- Certificate of linguistic competence EDI Level 1 Certificate in ESOL International JETSET Level 5 - London Chamber Of Commerce and Industry International Qualifications - May 2012
- Long-term university studies in industrial engineering acquiring technical skills.
- Ability for teamwork, accountability decisions. Abilities gained from experiences at the workplace;
- Communicative, positive thinking, problem solving ability, adaptable. Skills acquired during the doctoral internship regarding the practical experience in research projects, participation in national and international conferences and events.

ADDITIONAL INFORMATION

Publications

- **Popișter, Florin**, Popescu, D., Păcurar, A., Păcurar, R. - Mathematical approach in complex surfaces toolpaths - Mathematics, 2021, 9(12), 1360; [ISI Q1, IF: 2.258]
- **Florin Popișter**, Alexandru Oarcea, Sergiu-Dan Stan, Costan-Vlăduț Trifan - Workspace Analysis of a Novel Parallel Kinematic Machine with 6 Degrees of Freedom - Advances in Manufacturing III - Volume 1 - Mechanical Engineering: Research and Technology Innovations, Industry 4.0 Pages 50-63, Online ISBN978-3-031-00805-4. DOIhttps://doi.org/10.1007/978-3-031-00805-4_5. **Lucrare premiată cu distincția "Best Paper Award"**
- Răzvan Păcurar, Petru Berce, Ovidiu Nemeș, Diana-Irinel Băilă, Dan Sergiu Stan, Alexandru Oarcea, **Florin Popișter**, Cristina Miron Borzan, Sven Maricic, Stanislaw Legutko, Ancuța Păcurar - Cast Iron Parts Obtained in Ceramic Molds Produced by Binder Jetting 3D Printing—Morphological and Mechanical Characterization - Materials 14 (16), 4502 [ISI Q1, IF 3.623]
- **F. Popișter**, D. Popescu, R. Comes, R. Ghinea - SCALLOP CALCULUS IN DIRECT MILLING ROUGHING TOOL PATHS OBTAINED USING ORIENTED GRAPH THEORY- , International conference on Production-Research - Africa, Europe and Middle East, 3rd international Conference on Quality and Innovation in Engineering and Management, 2014, Cluj-Napoca, Romania. Pp.411-415 ISBN: 978-973-662-978-5. ISI proceedings
- Popescu, D., **Popișter, F.**, Popescu, S., Neamțu, C., Gurzău, M., Direct toolpath generation based on graph theory for milling roughing, (2014) Procedia CIRP, 25 (C), pp. 75-80, index ISI Proceedings and Scopus
- Comes, R., Popescu, D., **Popișter, F.**, Buna, Z., Badiu, I., Tracking methods used in augmented reality manufacturing, (2014) 2014 International Conference on Production Research - Regional Conference Africa, Europe and the Middle East and 3rd International Conference on Quality and Innovation in Engineering and Management, pp. 94-99, index ISI Proceedings
- Călin, Neamțu, Zsolt, Buna, Răzvan, Mateescu; **Florin, Popișter** and Ximena, Morar CAD SOFTWARE IN 3D RECONSTRUCTIONS OF ANCIENT WORLD... 2nd International Conference on Quality and Innovation in Engineering and Management. QIEM 2012. 22-24.11.2012. ; indexed in Scopus, Google Scholar
- **FLORIN Popișter**, DANIELA Popescu, ANDREI Șteopan, MONICA Șteopan. 2015. Approach for obtaining broken plastic parts using reverse engineering tools. Published in. Applied Mechanics and Materials Vol. 808 (2015) pp 226-232. ISBN-13:978-3-03835-653-0

Projects/Research Contracts

- Nr. 10996/21.05.2013 – Beneficiary: S.C. Napochim S.A – Object of the contract - Design / 3D CAD Modeling - Product Development: snow shovel for cars, plastic masses, injection technology process - **Contract Manager**
- Nr. 38/12.09.2014 – Beneficiary: S.C. Gate Business Consulting S.R.L – Object of the contract - 3D modeling software services CATIA / SolidWorks - **Contract Manager**
- POSCCE, cod 12.P01.001 13 C3, " Research for the development and implementation in production of innovative furniture ", parte din Polul de competitivitate 12.P01.001 "Cluster Mobilier Transilvan"
- Development of mechatronics skills and innovative learning methods for Industry 4.0 ID 2019-1-RO01-KA203-063153 / Contract 27342/04.10.2019
- H2020 - Smart2 - Advanced integrated obstacle and track intrusion detection system for smart automation of rail transport GA.881784
- „ Development and practical realization of a prototype of automatic sorting of plastic bottles for the pharmaceutical industry,, Nr.2875/01.02.2022 DMCDI TN20/01.02.2022 **Contract Manager**

Conferences

Member of the organizing committee of the conference ICPR-AEM & QIEM (International Conference on Production Research - Regional Conference Africa, Europe and the Middle East and International Conference on Quality and Innovation in Engineering and Management) 2014 and 2016

Member of the organizing committee of the conference QIEM (Quality and Innovation in Engineering and Management) 2011 and 2012

Other activities within the University

Member of the admissions committee – Masters education program

Lecturer Dr.eng. Florin POPIȘTER
01.06.2022

