

CURRICULUM VITAE

PERSONAL INFORMATION

First name / Surname

Ștefan, Bodi

Address

[Redacted]

Telephone

[Redacted]

E-mail

[Redacted]

Nationality

Date of birth

Gender

Desired employment /
Occupational field

Associate professor competition, position 24, within the Department of Design Engineering and Robotics, TUCN

PROFESSIONAL EXPERIENCE

Period

February 2018 – Present

Occupied work position

Asisntant professor

Activities and main responsibilities

Student training teaching activities in the areas of computer aided design, digital production teaching engineering, virtual fabrication, computer aided robotic manufacturing, CAD-CAE-CAM systems, competitive new product development and quality management.

Name and address of employer

Technical University of Cluj-Napoca
103-105 Muncii Blvd., 400641 Cluj-Napoca, Cluj, Romania

Type of activities or business sector

University education.

Period

October 2014 – January 2018

Occupied work position

Asisntant lecturer

Activities and main responsibilities

Student training teaching activities in the areas of computer aided design and quality management.

Name and address of employer

Technical University of Cluj-Napoca
103-105 Muncii Blvd., 400641 Cluj-Napoca, Cluj, Romania

Type of activities or business sector

University education.

Period

May 2014 – November 2015

Occupied work position

Design researcher

Activities and main responsibilities

Design activities for innovative furniture products and designing the corresponding technological processes.

Name and address of employer

S.C. Smart Furniture S.R.L.
53 Branului Street, 400641 Cluj-Napoca, Cluj, Romania

Type of activities or business sector

Research, 3D design, technology flow design.

Period

November 2013 – September 2014

Occupied work position

Technology transfer specialist

Activities and main responsibilities

Technology and research transfer activities to the industry

Name and address of employer

Danube Transfer Center Cluj-Napoca
103-105 Muncii Blvd., 400641 Cluj-Napoca, Cluj, Romania

Type of activities or business sector

Research, technology transfer, innovation training for companies

Period	October 2011 – July 2013
Occupied work position	Research internship
Activities and main responsibilities	Research activities, volunteer at Interuniversity Research Centre for Quality Management and Engineering.
Name and address of employer	Technical University of Cluj-Napoca 103-105 Muncii Blvd., 400641 Cluj-Napoca, Cluj, Romania
Type of activities or business sector	Research, development, innovation in quality management and engineering and design for quality.
EDUCATION AND TRAINING	
Period	August 2018 – December 2018
Title of qualification awarded	Fulbright-RAF researcher at the University of Rochester, New York, U.S.A.
Principal subjects covered /professional skills acquired	<ul style="list-style-type: none"> - technical entrepreneurship and entrepreneurial practices; - financing instruments for start-up companies; - selection of technical business opportunities / ideas; - new product strategies; - economics, marketing and business strategies; - networking with business environment representatives from New York, U.S.A
Name and type of organisation providing education and training	Romanian-U.S. Fulbright Commission
Period	October 2013 – September 2017
Title of qualification awarded	Doctor of Philosophy (Ph.D.) in management and engineering Topic / Thesis title: Research and contributions regarding the use of the virtual environment for supporting quality management
Principal subjects covered /professional skills acquired	<ul style="list-style-type: none"> - quality management and engineering; - quality management techniques and tools; - industrial metrology; - statistical process control; - process improvement through simulation.
Name and type of organisation providing education and training	Technical University of Cluj-Napoca
Period	October 2011 – July 2013
Title of qualification awarded	Master of engineering in Quality Management and Engineering
Principal subjects covered /professional skills acquired	<ul style="list-style-type: none"> - quality management and engineering; - quality engineering techniques and tools; - industrial metrology; - design for quality and the environment; - six sigma; - intellectual property management; - integrated management systems; - methods and equipment for industrial process control; - geometrical product specification (GPS).
Name and type of organisation providing education and training	Technical University of Cluj-Napoca
Period	12-14 December 2011
Title of qualification awarded	ISO 9001:2008 Internal Quality Auditor

Principal subjects covered /professional skills acquired - auditing quality management systems using the ISO 9001:2008 standard requirements

Name and type of organisation providing education and training S.C. Calitop S.R.L.

Period **August 2010 – December 2010**

Title of qualification awarded **Erasmus mobility**

Principal subjects covered /professional skills acquired - automating manufacturing processes;
- industrial process control softwares;
- practical activity: developing an educational production line;
- computer programming using “.net” language;
- manufacturing equipment maintenance.

Name and type of organisation providing education and training HAMK – University of applied sciences, Finland

Period **October 2007 – October 2011**

Title of qualification awarded **Bachelor of Engineering** in Robotics

Principal subjects covered /professional skills acquired - robot mechanics and engineering;
- robotized manufacturing;
- manufacturing processes technology;
- industrial software;
- computer aided design;
- flexible manufacturing systems.

Name and type of organisation providing education and training Technical University of Cluj-Napoca

Period **September 2003 – October 2007**

Title of qualification awarded **High school diploma**

Principal subjects covered /professional skills acquired - computer programing;
- mathematics;
- physics;
- chemistry;
- English;
- German.

Name and type of organisation providing education and training “Andrei Mureșanu” National High School of Bistrița

PERSONAL SKILLS

Mother tongues

Other languages

Self-assessment

European level (*)

English

German

Hungarian, Romanian

English, German

Understanding				Speaking				Writing	
Listening		Reading		Spoken interaction		Listening		Reading	
C1	Proficient user	C2	Proficient user	C1	Proficient user	C2	Proficient user	C1	Proficient user
B2	Independent user	B1	Independent user	B1	Independent user	B1	Independent user	B1	Independent user

(*) Common European Framework of Reference for Languages

Social skills and competences	<ul style="list-style-type: none"> - team work: I've acquired teamwork skills both within the research team of the university and during academic studies, by participating in various practical activities and projects (both national and international); - training and skills in: communication, leadership, management, marketing, technology transfer and international cooperation.
Organisational / managerial skills and competences	<ul style="list-style-type: none"> - perseverance; objectiveness; dynamic personality; desire for self-improvement; professional discipline; balanced in stressful situations.
Technical skills and competences	<ul style="list-style-type: none"> - design skills in mechanical engineering and robotics; - designing, planning and simulating manufacturing processes for existing or new products; - advanced knowledge in metrology and measurements using CMMs; - designing technological processes for machine building; - basic knowledge in optimal designing.
Computer skills and competences	<ul style="list-style-type: none"> - advanced programming knowledge in C++, FoxPro, Java languages; - basic knowledge in html programming; - advanced modeling knowledge in 3D CAD in CATIA, DELMIA, Visual Components, SolidWorks, Autodesk AutoCAD, Autodesk Inventor and Autodesk PowerInspect; - medium knowledge in offline robot programming in RobotStudio; - advanced knowledge in high precision laser scanning and 3D reconstruction of surfaces using VX Elements; - advanced knowledge in process simulation using SigmaFlow Modeler; - advanced user of Microsoft Office software and other Windows compatible programs; - basic knowledge in text interpretation through semantic analysis using Tropes v.8.4; - basic knowledge in Unity and VuForia for developing Android applications; - other known software programs: LabVIEW; Qualica QFD and Planning Suite; Rektron FMEA; Mathcad.
Driving licence	A, B, C, CE vehicle category driving licence.
ADDITIONAL INFORMATION	
Publications	Out of the 28 publications in total, 6 are selected and presented here: <ol style="list-style-type: none"> 1. Dragomir, Mihai; Bodi, Ștefan; Iamandi, Oana; Dragomir, Diana; <i>Applying Sigma Flow simulation software for improving the quality of an R&D Project</i>, Proceedings of the 2014 International Conference on Production Research & 3rd International Conference on QIEM, pp. 152-156, ISBN 978-973-662-978-5, 1-5 July 2014, Cluj-Napoca, Romania; indexed ISI proceedings; 2. Bodi, Ștefan; Popescu, Sorin; Drăgeanu, Călin; Popescu, Dorin; <i>Virtual Quality Management elements in optimized new product development using genetic algorithms</i>; Proceedings of the MakeLearn and TIIM Joint International conference, pp. 633-642, ISBN 978-961-6914-13-0, Bari, Italy, 27-29 May 2015; 3. Bodi, Ștefan; Dragomir, Mihai; Banyai, Daniel; Dragomir, Diana; <i>Process improvements using simulation software and quality tools</i>, 12th International conference on Modern Technologies in Manufacturing, 14-16 October 2015, Cluj-Napoca, Romania, published in Applied Mechanics and Materials Vol. 808, 2015, pp. 376-381, ISSN print 1660-9336; 4. Bodi, Ștefan; Comes, Radu; Weckenmann, Albert; Popescu, Sorin; <i>Assistive augmented environment for quality inspection and statistical process control</i>, Proceedings of the 2016 International Conference on Production Research & 4th International Conference on QIEM, pp. 494-499, ISBN 978-606-737-180-2, 25-30 July 2016, Cluj-Napoca, Romania; indexed ISI proceedings.

5. Weckenmann, Albert; **Bodi, Ștefan**; Popescu, Sorin; Dragomir, Mihai; Hurgoiu, Dan; Comes, Radu; Hit or Miss? Evaluating the potential of a research niche: A case study in the field of virtual quality management; Sustainability, Vol. 11, Iss. 5, 2019, pp. 1450-1476, doi: 10.3390/su11051450, indexed ISI WoK, Q2 quartile article;
6. Dragomir, Mihai; Popescu, Sorin; Neamțu, Călin; Dragomir, Diana; **Bodi, Ștefan**; Seeing the immaterial: A new instrument for evaluating integrated management systems' maturity; Sustainability, Vol. 9, Iss. 9, 2017, pp. 1643-1656, doi: 10.3390/su9091643, indexed ISI WoK, Q2 quartile article;

Conferences

- Antreprenor Viitor Durabil, September 27th-28th 2011, March 15th-16th 2012 and May 16th-18th 2012, Cluj-Napoca, Romania;
- 2nd International conference on Quality and Innovation in Engineering and Management (QIEM), November 21st-25th 2012, Cluj-Napoca, Romania;
- Disruptive Innovation in Manufacturing Engineering – Towards the 4th Industrial Revolution, October 3rd 2013, Cluj-Napoca, Romania;
- 11th International Scientific Conference on Coordinate Measuring Technique, April 2nd-4th 2014 Bielsko-Biala, Poland;
- 2014 International Conference on Production Research & 3rd International Conference on QIEM, July 1st-5th 2014, Cluj-Napoca, Romania;
- MakeLearn and TIIM Joint International conference, May 27th-29th 2015, Bari, Italy;
- 12th International conference on Modern Technologies in Manufacturing, October 14th-16th 2015, Cluj-Napoca, Romania;
- 3rd International Engineering and Technology Education Conference & 7th Balkan Region Conference on Engineering and Business Education, November 1st-4th 2015, Sibiu, Romania;
- 2016 International Conference on Production Research & 4th International Conference on QIEM, July 25th-30th 2016, Cluj-Napoca, Romania;
- 2018 International Conference on Production Research & 5th International Conference on QIEM, July 25th-26th 2018, Cluj-Napoca, Romania;
- QIEM-ICNcT 2021 Joint international conference; 18th-19th November 2021, Cluj-Napoca, Romania.

Projects

Year	Beneficiary/Financier Title / Object Total value	Responsibilities
International		
2013-2016	FP7-INCO-2013-9 R2I-ENP, Project no. 609531; Knowledge Transfer Community to bridge the gap between research, innovation and business creation – Acronym: NoGAP Value: 1.182.644 EUR (UTCN 94.166 EUR)	Member in the implementation team
2017-2019	Interreg Danube Transnational Programme; Contract no. DTP1-1-071-1.1; Improving RD and business policy conditions for transnational cooperation in the manufacturing industry – Acronym: Smart Factory Hub (SFH) Value: 1.838.636,6 EUR (UTCN 181.986,6 EUR)	Member in the implementation team
2019-2021	Erasmus+ Programme 2014-2020; Key Action 2: Strategic Partnership Projects; Agreement no. 2019-1-TR01-KA202-077366 A Customized Education Plan Based on Industry 4.0 Competency Gaps – Acronym: CEPI4.0 Value: 116.000 EUR (UTCN: 18.610 EUR)	Member in the implementation team
National		
2014-2015	European Fund for Regional Development, POSCCE, 12.P01.001 13 C3 Research for developing and implementing into production innovative furniture – Acronym: SmartFurniture. Value: 895.000 EUR	Member in the implementation team

2018-2020	UEFISCDI, PN-III-P1-1.2-PCCDI-2017 – Project no. 53PCCDI/2018 Project 1 – Painters, artwork, assignments. Protocols for establishing the paternity of medieval and premodern paintings from Romania – Acronym: IDArt. Value: 72.450 RON	Member in the implementation team
2018-2020	UEFISCDI, PN-III-P1-1.2-PCCDI-2017 – Project no. 53PCCDI/2018 Project 3 – Multicriterial methodologies for authenticating and establishing the paternity of medieval and premodern paintings – Acronym: IDArt. Value: 1.077.986 RON	Member in the implementation team
2018-2021	National Council for Financing of Higher Education, Project no. CNFIS-FDI-2018-0438; Project no. CNFIS-FDI-2019-0579; Project no. CNFIS-FDI-2020-0496; Project no. CNFIS-FDI-2021-0199 TUC-N Students – Entrepreneurs in the digital world – Acronym: SALT 2018, 2019, 2020, 2021 Value for all 4 years: ~700.000 RON	Member in the implementation team
2018	Romanian-American Foundation & Junior Achievement Romania, Contract no. JAR2019_027/20.05.2019 Industry-Academia Problem Solving Tournament – Acronym: IMPULSE Value: 6167 USD	Director
2020-2022	EEA Grants, Financing contract no. RO-CULTURA-A1-6/2020/31.01.2020 Horea's Church – A heritage for the future. Capitalizing on an 18th century architectural monument through virtual reality – Acronym: CALL01-16 Value: 130.000 EUR (UTCN: 30.000 EUR)	Member in the implementation team
2020	Romanian-American Foundation & Junior Achievement Romania, Contract no. JAR2020_002/03.02.2020 Mainstreaming technology Commercialization in Romania – Acronym: MaCRO Value: 12.954 RON	Member in the implementation team
2020-2022	UEFISCDI, PN-III-P2-2.1.-2.1.2.-PED-2020 – Project no. 345PED/2020 Smart hospital bed – Acronym: HOPE Value: 600.000 RON	Member in the implementation team
2020-2022	UEFISCDI, PN-III-P1-1.1.-TE-2020 – Project no. 132TE/2020 Mass digitization of cultural heritage: between myth and reality. Evaluating the accuracy of 3D models generated using the photogrammetry method in the case of cultural heritage – Acronym: AtOP Value: 431.900 RON	Member in the implementation team
2020-2022	Human Capital Operational Program 2014-2020, Call code: POCU/626/6/13, Project no. 130354 (SMIS code) Advanced practice for success in the engineering career – Acronym: PAVING Value: 4.749.806,86 RON	Member in the implementation team
2017	Electroceramica S.A. 3D measurement services Value: 1.700 RON	Contract Director
2019	Eckerle Automotive S.R.L. Industrial 3D measurement and scanning services Value: 5.712 RON	Contract Director
2021	Emerson S.R.L. Measurement of mechanical parts from the LSR project, using the instruments provided by the 3D measurements laboratory Value: 500 EUR	Contract Director

2021-2026	RAAL S.A. Framework collaboration agreement no. 1400/19.01.2021: Industrial 3D measurement and scanning services and related consultancy Value: 26.656 RON	Contract Director
2021-2026	Modulo Decorative Solutions S.R.L. Framework collaboration agreement no. 3876/15.02.2021: Industrial 3D scanning and CAD modeling services Value: 3.430 RON	Contract Director
2021-2026	AviTech Co. S.R.L. Framework collaboration agreement no. 9471/12.04.2021: 3D scanning and processing services Value: 11.900 RON	Contract Director

References

- Prof. Dr. Eng. Popescu Sorin, e-mail: sorin.popescu@muri.utcluj.ro;
- Prof. Dr. Eng. Popescu Daniela, e-mail: daniela.popescu@muri.utcluj.ro;
- Prof. Dr. Eng. Neamțu Călin, e-mail: calin.neamtu@muri.utcluj.ro;
- Prof. Dr. Eng. Dragomir Mihai, e-mail: mihai.dragomir@muri.utcluj.ro.

