



Eugen Valentin Butilă

📍 **Work** : No. 1, Politehnicii st., 500024, Brasov, Romania

✉ **Email**: butila@unitbv.ro

Gender: Male **Nationality**: Romanian

WORK EXPERIENCE

Transylvania University of Brasov

City: Brasov | **Country**: Romania

Technical coordinator for IT and infrastructure in International Relations Office

[1 Jan 2017 – Current]

Transylvania University of Brasov

City: Brasov | **Country**: Romania

Researcher

[5 Dec 2013 – Current]

Transylvania University of Brasov

Address: 29, Eroilor, 500036, Braşov, Romania

Postdoctoral researcher

[1 Jun 2010 – 31 May 2013]

Research

EDUCATION AND TRAINING

PhD

[1 Oct 2001 – 15 Sep 2008]

Transylvania University of Brasov

Address: 29, Eroilor, 500036, Brasov, Romania | **Field(s) of study**: Mechanical Engineering

Expert System for Designing Mechanical Transmissions

Master Degree

[1 Oct 2000 – 30 Jun 2001]

Transylvania University of Braşov

Address: 29, Eroilor, 500036, Braşov, Romania | **Field(s) of study**: Mechanical Engineering

Robotics

Bachelor Degree

[1 Oct 1995 – 30 Jun 2000]

Transylvania University of Braşov

Address: 29, Eroilor, 500036, Braşov, Romania | **Field(s) of study**: Mechanical Engineering

Industria Robots

LANGUAGE SKILLS

Mother tongue(s): Romanian , Hungarian

Other language(s):

English

LISTENING B1 READING B2 WRITING A2

SPOKEN PRODUCTION B1 SPOKEN INTERACTION B1

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

DIGITAL SKILLS TEST RESULTS

	Information and data literacy	ADVANCED	Level 5 / 6
	Communication and collaboration	ADVANCED	Level 5 / 6
	Digital content creation	ADVANCED	Level 5 / 6
	Safety	ADVANCED	Level 5 / 6
	Problem solving	ADVANCED	Level 5 / 6

Results from a [self-assessment](#) based on [The Digital Competence Framework 2.1](#)

PUBLICATIONS

Articles

Voinea, G. D., Boboc, R. G., Danu, M. D., Buzdugan, I. D., Butila, E. V., Postelnicu, C. C., Girbacia, F. (2025). The Emergence of the Vehicular Metaverse: A Scoping Review. CONAT 2024 INTERNATIONAL CONGRESS OF AUTOMOTIVE AND TRANSPORT ENGINEERING, PT THREE: 120-135.

Duguleana, M., Girbacia, F., Boboc, R. G., Butila, E. V.(2025). Emergent Trends in Deep Learning for Autonomous Electric Vehicles: A Literature Review. CONAT 2024 INTERNATIONAL CONGRESS OF AUTOMOTIVE AND TRANSPORT ENGINEERING, PT ONE: 337-349.

Boboc, R. G., Butila, E. V., Butnariu, S. (2024). "Leveraging Wearable Sensors in Virtual Reality Driving Simulators: A Review of Techniques and Applications." Sensors 24(13).

Butila, E. V. and R. G. Boboc (2022). "Urban Traffic Monitoring and Analysis Using Unmanned Aerial Vehicles (UAVs): A Systematic Literature Review." Remote Sensing 14(3): 28.

Burlacu, M; Boboc, RG and Butila, EV. (2022). "Smart Cities and Transportation: Reviewing the Scientific Character of the Theories." Sustainability 14(13): 8109.

Boboc, R. G., F. Girbacia, and E. V. Butila. "The Application of Augmented Reality in the Automotive Industry: A Systematic Literature Review." [In English]. Applied Sciences-Basel 10, no. 12 (Jun 2020): 23. <https://doi.org/10.3390/app10124259>.

Tavcar, A., C. Antonya, and E. V. Butila. "Recommender System for Virtual Assistant Supported Museum Tours." [In English]. Informatica-Journal of Computing and Informatics 40, no. 3 (Sep 2016): 279-84.

Girbacia, F., A. Dumitru, C. Postelnicu, M. Duguleana, T. Girbacia, E. Butila, A. Beraru, and G. Mogan. "Effects of Adas Notifications on Driver's Visual Attention under Simulator Driving Conditions." [In English]. Perception 45 (Aug 2016): 307-08.

Girbacia, T., F. Girbacia, M. Duguleana, and E. Butila. "Augmented Reality System for Training Robotic Prostate Biopsy Needle Guidance." Paper presented at the 10th International Conference on Virtual Learning, Timisoara, ROMANIA, Oct 31 2015.

Books

Butilă E. V. "Sisteme Expert CAD De Proiectare A Transmisiilor Mecanice Cu Angrenaje" Editura Universitatii Transilvania din Braşov. ISBN 978-606-19-1733-4 (ebook).

Mogan, Gh. L., Butilă E. V., Buzdugan, I. D. (2022) "Organe de Masini. Reductoare Cilindrice. Îndrumar de proiectare" Editura Universităţii Transilvania din Brasov. ISBN 978-606-19-1611-5.

Mogan, Gh. L., Butilă E. V., Buzdugan, I. D. (2023) "Organe de Masini. Reductoare Conico-Cilindrice. Îndrumar de proiectare" Editura Universitatii Transilvania din Braşov. ISBN 978-606-19-1490-6..

Chapter in Books

Runde C, Girbacia F., Butila E.V., (2013) Virtual and Augmented Environments for Concurrent Engineering: Concurrent Virtual Engineering. isbn: 978-1-4471-4425-0, 2013, Springer, http://link.springer.com/chapter/10.1007/978-1-4471-4426-7_72. pp 849-860

Runde C, Girbacia F., Butila E., (2012): „Virtual Reality in Fertigungsverfahren", 9. Fachtagung "Digitales Engineering zum planen, testen und betreiben technischer systeme", Fraunhofer - Institut für Fabrikbetrieb und -automatisierung IFF, Magdeburg, Germany, 26-28 June 2012, 15. IFF-Wissenschaftstage, Publicat de Biblioteca Națională Germană, URN: urn:nbn:de:0011-n-2061258, pp. 157-166.

Mogan, Gh. L., Butilă, E. V. (2005) Expert System for the Total Design of Mechanical Systems with Gears. Product Engineering. isbn: 978-1-4020-2932-5, Springer, <http://link.springer.com/book/10.1007/1-4020-2933-0> pp 143-162

PROJECTS

International Projects

2024-2026 - Enhancing MEchanical Engineering EDUcation in Moldova for Industry 4.0 - NEEDU4.0.

ERASMUS-EDU-2023-CBHE-STRAND-3 / 101128817

1st November 2020 – 31st October 2023. Environmental Education – OERs for Rural Citizens (EnvEdu-OERs). Is a cooperation project in higher education selected with financial support from The Education, Scholarships, Apprenticeships and Youth Entrepreneurship Programme (ESAYEP), which is one of the 12 financing programmes of the EEA Financial Mechanism, 2014-2021.

2021-2024 - MONGWBL - Work-based learning for higher education system in Mongolia towards better employability of university graduates (618777-EPP-1-2020-1-MN-EPPKA2-CBHE-SP)

2015 - 2018 - eHERITAGE - Expanding the Research and Innovation Capacity in Cultural Heritage Virtual Reality Applications. - eHERITAGE - H2020-TWINN-2015/H2020-TWINN-2015 contract nr. 692103.

2013 - 2016 - OI-NET - The European Academic Network for Open Innovation. - Ref. number: 542203-LLP-1-2013-1-FI-ERASMUS-ENW - 2014 - financial administrator.

2013 - 2015 - Learn DO - Proiect Erasmus for Young Entrepreneurs, Contract nr. C5-325427 LEARN DO

2008.09.19 - 2011.12.31 - Digital Cities - THE INTERREG IVC PROGRAMME. Buget 180.000 Euro

2008.10.01 - 2010.11.30 - Q-PLANET – Quality Placements Network. Contract n. 2007-2589/001-001 Project number: 142308-LLP-1-2008-1-DE-ERASMUS-ECUE, Buget 400.000 Euro

2007.10.01 - 2010.09.30 - EUE-NET – European University Enterprise Networkvaloare. 134546-LLP-1-2007-1- RO-ERASMUS-EN Contract n. 2007-2589/001-001 2008-2011, Buget 600.000 Euro

2005.05 - 2008.04 - FP6 - VEGA – Virtual Reality in Product Design and Robotics. Contract FP6-IST 16565, Buget 900.000 Euro

2005 - 2008 - EUI-NET – European University – Industry Network. Contract No: Ref. 116343 - CP -1-2004-1- RO - ERASMUS. Buget 560.000

2003.08.01 - 2004.07.31 - Alineea - SOCRATES - Grundtvig 2

2002 - 2005 - FP5 - ADEPT – Advanced Computer Aided Design of Ecological Products and Tehnologies Integrating Green Energy Sources. Contract type FP5, G1MA-CT-2002-04038, Buget 198.800 Euro.

#2002.03.01 - 2004.03.01 - FP5 - IRMA - A Configurable Virtual Reality System for Multi-PurposeIndustrial Manufacturing Applications. NAS complement to contract number GIRD-CT-1999-00236. PROJECT IRMA, 1999/0006(IMS 97007) – NAS GRD3-2001-61804.

Național Projects

2014.07.01 - 2017.10.01 - NAVIEYES –Intelligent car navigation assistant for mobile devices based on eye gaze tracking and head pose. Cod proiect: PN-II-PT-PCCA-2013-4-2023 - Nr contractului: 240/2014. – Membru în echipă

2014 - 2017 - SPINE– Sistem de diagnosticare și terapie a afecțiunilor coloanei vertebrale. Cod proiect: PN-II-PT-PCCA-2013-4-1596 - Nr contractului: 227/2014. Membru în echipă.

2014.07.01 - 2017.10.01 - ROBOCORE – Robotic Assisted Prostate Biopsy, A High Accuracy Innovative Method. Cod project: PN-II-PT-PCCA-2013-4-0647 - Nr. contract: 247/2014. – Membru în echipă.

2012 - 2016 - CHANCE– Robotic assisted brachytherapy, an innovative approach of inoperable cancers. Cod project: PN-II-PT-PCCA-2011-3.2-0414 - Nr. contract: 173/2012. – Membru în echipă.

2007 - 2010 - TOMIS - UȚilizarea realității virtuale în reConstituirea Multimodală 3D a site-urilor Istorice. PN Contract 11-041 / 14.09.2007. Buget UnitBv 257.757 RON.

2006 - 2008 - TRIMA – Virtual Reality in Engineering, Medicine and Art. Interdisciplinary platform. cod CNCSIS 80. Buget 2.973.922 RON.

2006 - 2008 - MERVI - Mediu colaborativ de Realitate Virtuală pentru planificare preoperatorie în ortopedie. Contract CEEX nr. 114/2006. Buget UTBv 800.000 RON.

2003 - 2005 - Expert Sistem for Mechanical Transmission with gear box - CNCSIS tip A - 979/2005. Membru de bază al echipei de cercetare. 35.850 RON.

OTHER SKILLS

Other skills

Trekking

Swimming

Mountain biking

Photographer

ORGANISATIONAL SKILLS

Organisational skills

Good knowledge of CAD/ CAE design. Good knowledge of financial.

**COMMUNICATION AND
INTERPERSONAL SKILLS**

Communication and interpersonal skills

Team spirit;
I worked on many projects teams.