

LEJLA GURBETA

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SUMMARY

MSc of Electrical Engineering with an experience in Business and Academic Area. Working as Head of Medical Devices Verification Laboratory Verlab Ltd Sarajevo, which is accredited (ISO 17020 and ISO 9001 standard) Laboratory appointed by National Metrology Institute of Bosnia and Herzegovina.

In Academic Area, working as Industry Expert at Genetics and Bioengineering Department at Faculty of Engineering and Natural Sciences at International Burch University. Also, working as Senior Teaching Assistant at Technical Faculty Bihac, University of Bihac.

SKILLS

Science	Flexibility
Critical Thinking	Time Management
Decision Making	Multitasking
Operations Analysis	Organisation
Creativity	Research
Quality Control Analysis	Public speaking and Presentation
Computer skills	Team Work
Troubleshooting	Driving licence (B category)

WORK HISTORY

10/2015 — Current

Head of the Laboratory

Verlab Ltd. Sarajevo, Bosnia and Herzegovina — Ismeta Mujezinovica 30, 71000 Sarajevo

1. Organisation and management of the Medical Devices Verification Laboratory (VERLAB) processes.
2. Organization and management of the technical part of the work process in VERLAB.
3. Application of the requirements of the standards BAS EN ISO / IEC 17020.
4. Resolving user complaints.
5. Management of non-compliant inspections and researches by the management.

6. Supervision over Laboratory staff.
7. Proposing measures for Laboratory Improvement.
8. Encouraging and motivating Laboratory staff.

10/2015 — *Current*

**Industry Expert, Genetics and Bioengineering Department,
International Burch University Sarajevo, Bosnia and Herzegovina — Francuska
Revolucije bb, 71000 Sarajevo**

1. Teaching Assistant at the Courses: Biosensors, Biomedical Instrumentation,
Biomedical Signals and Systems, Intelligent Systems, Calculus II.

06/2017 — *Current*

**Senior Teaching Assistant
Technical Faculty Bihac, University of Bihac — Dr. Irfana Ljubijankica bb, 77000
Bihac**

EDUCATION

- Est. 2018 **PhD in Genetics and Bioengineering – in progress**
International Burch University Sarajevo, Bosnia and Herzegovina – Francuska
Revolucije bb, 71000 Sarajevo
- 2015 **Master of Science.: Electrical Engineering**
Faculty of Electrical Engineering Sarajevo, University of Sarajevo – Zmaja od
Bosne bb, 71000 Sarajevo
- 2013 **Bachelor of Science: Electrical Engineering**
Faculty of Electrical Engineering Sarajevo, University of Sarajevo – Zmaja od
Bosne bb, 71000 Sarajevo

ACCOMPLISHMENTS

1. 1st place at the Central Bosnia Canton Project Citizen Competition organised by the Center for Democracy and Human Rights Education Center (CIVITAS), 2006
2. Official speaker at the 16th Youth Balkan Table Tennis Championship, 2008
3. 2nd place at the Competition in mathematics for high schools of the Central Bosnia Canton, 2010
4. Organization of the Biggest Scientific Event in the field of Biomedical Engineering in South - East European Area, International Conference on Medical and Biological Engineering (CMBEBIH) with more than 700 participants from 40 different world countries, 2015 and 2017

CERTIFICATIONS

1. Fluke Biomedical testing devices by Micom Electronics, Ljubljana, Slovenia, 2014
 - Fluke ESA620 electrical safety analyser
 - Fluke 6000/7000DP defibrillator analyser
 - Fluke ProSim8 ECG device and patient monitor analyser
 - Fluke INCU analyser
 - Ohmico UPM - therapeutical ultrasound analyser
 - Fluke VT305 respirators and anaesthesia machine analyser
 - Fluke IDA5 – perfusor and infusomat analyser
2. CEI Cooperation Activity VI Spring School - ICT, economical and organizational issues for e-health integration in the enlarged Europe within the Higher Education in Clinical Engineering (SSIC-HECE) Master's Programme, University of Trieste (Italy), 2015
3. Quality control: Requirements of BAS ISO IEC 17020 standard, BATA - Institute for accreditation of B&H, 2015
4. Biomedical sensors - Pasco Scientific Sensors, Ljubljana, Slovenia, 2015
5. Quality control: Requirements of ISO 17020: Risk management, Supera kvaliteta, Croatia, 2016
6. Quality control: Requirements of BAS ISO IEC 17020 standard, BATA - Institute for accreditation of B&H, 2016
7. Fluke Biomedical Advantage Training for inspecting medical devices, 2017

PUBLICATIONS

BOOK CHAPTERS:

[1] Badnjevic A., Cifrek M., Gurbeta L., Feric E., „Classification of Chronic Obstructive Pulmonary Diseases Based on Neuro-Fuzzy Software“ in the Book: „Chronic Obstructive Pulmonary Disease (COPD): Clinical Symptoms, Emerging Treatment Strategies and Impact on Quality of Life“, 2016, Nova Science Publisher, ISBN: 978-1-63484-500-7, 2016.

[2] Granulo E, Becar L, Gurbeta L, Badnjevic A., „Telemetry System for Diagnosis of Asthma and Chronical Obstructive Pulmonary Disease (COPD)“, Internet of Things Technologies for HealthCare. Mobyen Uddid Ahmed, Shahina Begum, Wasim Raad. Springer International Publishing, 2016, pp. 113-118, DOI:10.1007/978-3-319-51234-1_18

SCIENTIFIC AND PROFESSIONAL ARTICLES PUBLISHED IN THE JOURNALS:

[1] Badnjevic A, Gurbeta L, Boskovic D, Dzemic Z. „Measurement in medicine – Past, present, future“, Folia Medica Facultatis Medicinae Universitatis Saraeviensis Journal, 2015; 50(1): 43-46

[2] Mustoo S., Gurbeta L., (2015) Turning the Challenge into Opportunity – A Strategic Framework for the Biomedical Engineering Development in Bosnia and Herzegovina Folia Med. Fac. Med. Univ. Saraeviensis; 50(1): 18-22

[3] Badnjevic – Cengic A, Kovacevic P, Dragic S, Momcicevic D, Badnjevic A, Gurbeta L, Hasanefendic B. „Serum nitric oxide levels in patients with acute myocardial infarction with ST elevation (STEMI)“, Respiratio Journal, Vol 5, No 1-2, May 2015, ISSN 2233-0216

[4] Gurbeta L, Badnjević A., „Inspection process of medical devices in healthcare institutions: Software solution“, Health Technol. Volume 7, Issue 1, pp 109–117, doi:10.1007/s12553-016-0154-2

[5] Badnjevic A, Gurbeta L, Jimenez E.R., Iadanza E. „Testing of mechanical ventilators and infant incubators in healthcare institutions“ Technology and Health Care, vol. 25, no. 2, pp. 237-250, 2017

[6] Abdel-ilah L, Veljović E, Gurbeta L, Badnjević A. „Applications of QSAR Study in Drug Design“, International Journal of Engineering Research & Technology (IJERT), 6(06), June 2017

[7] Secerovic A, Gurbeta L, Omanovic – Miklicanin E, Badnjevic A., „Genotype Association with Sport Activity: The Impact of ACE and ACTN3 Gene Polymorphism on Athletic Performance“, International Journal of Engineering Research & Technology (IJERT), 6(06), June 2017

[8] Gurbeta, L., Dzemic, Z., Bego, T., Sejdic, E., Badnjevic, A., Testing of Anesthesia Machines and Defibrillators in Healthcare Institutions J Med Syst (2017) 41: 133. <https://doi.org/10.1007/s10916-017-0783-7>

[9] Kozic A, Gurbeta L, Omanovic-Miklicanin E., The Influence of Erythropoietin (EPO) on Cancer Cells and its Role in the Cancer Treatment, International Journal of Engineering Research & Technology (IJERT), 6(07), June 2017

SCIENTIFIC AND PROFESSIONAL PAPERS PUBLISHED AT INTERNATIONAL CONFERENCES:

- [1] Badnjevic A, Gurbeta L, Boskovic D, Dzemic Z. „Medical devices in legal metrology“, *IEEE 4th Mediterranean Conference on Embedded Computing (MECO)*, pp: 365-367, 14 – 18 June 2015, Budva, Montenegro
- [2] Boskovic D, Badnjevic A. „Opportunities and Challenges in Biomedical Engineering Education for Growing Economies“, *IEEE 4th Mediterranean Conference on Embedded Computing (MECO)*, pp: 407-410, 14 – 18 June 2015, Budva, Montenegro
- [3] Gurbeta L, Badnjevic A, Pinjo N, Ljumic F, „ Software Package for Tracking Status of Inspection Dates and Reports of Medical Devices in Healthcare Institutions of Bosnia and Herzegovina“, *XXV International Conference on Information, Communication and Automation Technologies (IEEE ICAT)*, pp:1-5, 29-31 October 2015., Sarajevo, Bosnia and Herzegovina
- [4] Gurbeta L, Badnjevic A, Sejdinovic D, Alic B, Abd El-Ilah L, Zunic E, „Software Solution for Tracking Inspection Processes of Medical Devices from Legal Metrology System“, *XIV Mediterranean Conference on Medical and Biological Engineering and Computing (MEDICON)*, 31. March – 02. April 2016., Paphos, Cyprus.
- [5] Badnjevic A, Gurbeta L, Cifrek M, Marjanovic D, „Diagnostic of Asthma Using Fuzzy Rules Implemented in Accordance with International Guidelines and Physicians Experience“, *IEEE 39th International convention on information and communication technology, electronics and microelectronics (MIPRO)*, 30. May to 03. June 2016. Opatija, Croatia
- [6] Badnjevic A, Gurbeta L, Cifrek M, Marjanovic D, „Classification of Asthma Using Artificial Neural Network“, *IEEE 39th International convention on information and communication technology, electronics and microelectronics (MIPRO)*, 30. May to 03. June 2016. Opatija, Croatia
- [7] Badnjevic A, Gurbeta L, „Development and Perspectives of Biomedical Engineering in South East European Countries“, *IEEE 39th International convention on information and communication technology, electronics and microelectronics (MIPRO)*, 30. May to 03. June 2016. Opatija, Croatia
- [8] Aljovic A, Badnjevic A, Gurbeta L, „Artificial Neural Networks in the Discrimination of Alzheimer's disease Using Biomarkers Data“, *IEEE 5th Mediterranean Conference on Embedded Computing (MECO)*, 12 – 16 June 2016, Bar, Montenegro
- [9] Alic B, Sejdinovic D, Gurbeta L, Badnjevic A, „Classification of Stress Recognition using Artificial Neural Network“, *IEEE 5th Mediterranean Conference on Embedded Computing (MECO)*, 12 – 16 June 2016, Bar, Montenegro
- [10] Fojnica A, Osmanovic A, Badnjevic A, „Dynamical Model of Tuberculosis-Multiple Strain Prediction based on Artificial Neural Network“, *IEEE 5th Mediterranean Conference on Embedded Computing (MECO)*, 12 – 16 June 2016, Bar, Montenegro
- [11] Halilovic S, Avdihodžić H, Gurbeta L, (2016) Micro cell culture analog Apparatus (μ CCA) output prediction using Artificial Neural Network, 5th Mediterranean Conference on Embedded Computing (IEEE MECO 2016), Bar, Montenegro;
- [12] Granulo E, Becar L, Gurbeta L, Badnjevic A, “Telemetry system for diagnosis of Asthma and Chronical Obstructive Pulmonary Disease (COPD)”, *The 3rd EAI International Conference on IoT Technologies for HealthCare*, 18-19 October 2016, Vasteras, Sweden
- [13] Gurbeta L, Badnjevic A, Dzemic Z, Jimenez E.R, Jakupovic A, “Testing of therapeutic ultrasound in healthcare institutions in Bosnia and Herzegovina”, *2nd EAI International Conference on Future Access Enablers of Ubiquitous and Intelligent Infrastructures*, 24-25 October 2016, Belgrade, Serbia

- [14] Veljovic E, Spirtovic – Halilovic S, Muratovic S, Osmanovic A, Badnjevic A, et.al., “Artificial Neural Network and Docking Study in Design and Synthesis of Xanthenes as Antimicrobial Agents”, *CMBEBIH 2017. IFMBE Proceedings, vol 62. pp 617-626, Springer, Singapore*. DOI: 10.1007/978-981-10-4166-2_93
- [15] Veljović E, Špirtović-Halilović S, Osmanović A, Badnjevic A, Gurbeta L, Muratović S, Tahrić T, Peštović D, Fazlić L, Jerlagić A, Karačić A, Kovač N, Tucak A, Završnik D, (2017) Tyrosinase related activity of 2,2'-(arylmethylene)bis(3-hydroxy-5,5-dimethylcyclohex-2-enones) - docking study, Springer IFMBE Proceedings of International Conference on Medical and Biological Engineering in Bosnia and Herzegovina – in press, March 2017
- [16] Alic B, Gurbeta L, Badnjevic A, et.al., “Classification of Metabolic Syndrome patients using implemented Expert System”, *CMBEBIH 2017. IFMBE Proceedings, vol 62. pp 601-607, Springer, Singapore*. DOI: 10.1007/978-981-10-4166-2_91
- [17] Badnjevic A, Gurbeta L, Cifrek M, Pecchia L., “Pre-classification process symptom questionnaire based on fuzzy logic for pulmonary function test cost reduction”, *CMBEBIH 2017. IFMBE Proceedings, vol 62. pp 608-616, Springer, Singapore*. DOI: 10.1007/978-981-10-4166-2_92
- [18] Sejdinovic D, Gurbeta L, Badnjevic A, Malenica M, Dujic T, Causevic A, Bego T, Divovic L, “Classification of prediabetes and Type 2 Diabetes using Artificial Neural Network”, *CMBEBIH 2017. IFMBE Proceedings, vol 62. pp 685-689, Springer, Singapore*. DOI: 10.1007/978-981-10-4166-2_103
- [19] Gurbeta L., Alic B., Dzemic Z., Badnjevic A. (2017) Testing of infusion pumps in healthcare institutions in Bosnia and Herzegovina. In: Eskola H., Väisänen O., Viik J., Hyttinen J. (eds) *EMBEC & NBC 2017. EMBEC 2017, NBC 2017*. IFMBE Proceedings, vol 65. Springer, Singapore
- [20] Gurbeta L., Alic B., Dzemic Z., Badnjevic A. (2017) Testing of dialysis machines in healthcare institutions in Bosnia and Herzegovina. In: Eskola H., Väisänen O., Viik J., Hyttinen J. (eds) *EMBEC & NBC 2017. EMBEC 2017, NBC 2017*. IFMBE Proceedings, vol 65. Springer, Singapore
- [21] B. Alić, L. Gurbeta and A. Badnjević, "Machine learning techniques for classification of diabetes and cardiovascular diseases," *2017 6th Mediterranean Conference on Embedded Computing (MECO)*, Bar, Montenegro, 2017, pp. 1-4. doi: 10.1109/MECO.2017.7977152

SCIENTIFIC AND PROFESSIONAL PAPERS PUBLISHED IN ABSTRACT BOOKS:

- [1] Huskic V, Vardo A, Begic E, Hrvat E, Gurbeta L, Dzubur M, Badnjevic A, Dajic A, Kadic A., „Localization and 2D imaging of ST elevation myocardial infarction using software differentiation”, *1st Conference on Medical and Biological Engineering in Bosnia and Herzegovina (CMBEBIH 2015)*, 13 – 15 March 2015., Sarajevo, Bosnia and Herzegovina
- [2] Gurbeta L, Badnjevic A., „Medical Devices in Legal Metrology Framework“, *WHO Global Forum on Medical Devices*, 09 – 12 May 2017., Geneva, Switzerland

ADDITIONAL INFORMATION

REVIEW AND EDITORIALS:

1. Reviewer at IEEE IMECO 2017
2. Reviewer at EMBEC 2017

PROJECTS:

1. Dialog for future - UNDP/UNESCO/ OSCE: Mutual future based on mutual interests, Society for medical and biological engineering in Bosnia and Herzegovina, April 2015, www.dmbiubih.org.
2. First Conference of Medical and Biological Engineering in Bosnia and Herzegovina, Sarajevo, March 2015. – Organising Committee, www.dmbiubih.cmbebih.org
3. International Conference on Medical and Biological Engineering in Bosnia and Herzegovina, Sarajevo, March 2017. – President of Local Organising Committee, www.cmbebih.com