

CURRICULUM VITAE

1. Family Name:	BAJRAMI	
2. First Name:	XHEVAHIR	
3. Nationality:	Albanian	
4. Citizen:	Kosovar, Republic of Kosovo	
5. Date of Birth:	11.03.1982	
6. Contact details:	UPHP/FIM: Office -725, xhevahir.bajrami@uni-pr.edu	
7. Education Degree:	Doctor of Technical Science	
Institution:	Vienna University of Technology, Faculty of Mechanical and Industrial Engineering, Institute of Mechanics and Mechatronics E325, Karlsplatz 13, 1040 Wien, Österreich (AT - Austria).	
Degree Date:	2013	
Degree/ Doctoral Thesis:	Doctor of Technical Science / Dynamic Modeling and Simulation of a Humanoid robot.	
Institution:	University of Pristina / Faculty of Mechanical Engineering	
Degree Date:	2010	
Degree/ Master Thesis :	Master of Technical Science / Dynamic modeling and control of vehicle using fuzzy logic controller	
Institution:	University of Pristina / Faculty of Mechanical Engineering	
Degree Date:	2006	
Degree /Thesis:	Mechanical Engineer / Two-legged (Biped) robot movements	
8. Academic Degree:	Professor Assistant	
<i>Institution:</i>	University of Pristina / Faculty of Mechanical Engineering	
<i>Degree Date:</i>	23.07.2018	
Professor for subject courses	Bachelor studies: 1. Statics (O), 2. Simulation of mechanical systems (E).	Master studies: 3. Engineering Databases (M), 4. Modeling and Simulation of Mechatronics systems (M), 5. Business management, quality and costs (M), 6. Mechatronic Systems in Food Industry(E).
- Coordinator for Academic Development – ECTS , from 01.10.2019 University of Pristina “Hasan Prishtina”, Faculty of Mechanical Engineering		
9. Work experience record:		
- 1.01.02.2014 – 20.04.2018,- Professor Assistant, University of Prizren, Faculty of Computer Science, Rruga e Shkronjave, nr.1 20000 Prizren, Republic of Kosovo.		
- 20.04.2018 – 21.08.2018,-Profersor Association, University of Prizren, Faculty of Computer Science, Rruga e Shkronjave, nr.1 20000 Prizren, Republic of Kosovo.		
- 01.03.2013 – 30.06.2014,- Professor Assistant, College AAB, Faculty of Computer Science, Republic of Kosovo.		
10. Member of the Senate		
- 01.10.2013 – 01.02.2015, University “Kadri Zeka”, Rr. "Zija Shemsiu", p.n.60 000 Gjilan, Republic of Kosovo.		
11. Scientific Publications		
11. a. Publications/Scientific Papers/International Researches: <i>Journal Article</i>		
[1]. Pajaziti, A., Bajrami, X., Beqa, F., & Gashi, B. (2019). Development of a Vehicle for Driving with Convolutional Neural Network. <i>International Journal of Advanced Computer Science and Applications (IJACSA), Development, 10(9)</i> . Clarivate Analytics- Web of Science indexed		

- [2]. Gëzim, H., Ahmet, S., Ramë, L., & **Xhevahir, B.** (2018). Mathematical Model for Velocity Calculation of Three Types of Vehicles in the Case of Pedestrian Crash. *Strojnícky časopis–Journal of Mechanical Engineering*, 68(3),95-110. <https://www.degruyter.com/view/j/scjme.2018.68.issue-3/scjme-2018-0027/scjme-2018-0027.xml>
- [3]. **Bajrami, X.**, Gashi, B., & Murturi, I. (2018). Face recognition performance using linear discriminant analysis and deep neural networks. *International Journal of Applied Pattern Recognition*, 5(3), 240-250. <http://www.inderscience.com/info/inarticle.php?artid=94818>
- [4]. **Bajrami, X.**, & Murturi, I. (2018). An efficient approach to monitoring environmental conditions using a wireless sensor network and NodeMCU. *e & i Elektrotechnik und Informationstechnik*, 135(3), 294-301. <https://link.springer.com/article/10.1007%2Fs00502-018-0612-9>
Acknowledgements: Open access funding provided by TU Wien (TUW)
- [5]. **Bajrami, X.**, Kopacek, P., Shala, A., & Likaj, R. (2013). Modeling and control of a humanoid robot. *e & i Elektrotechnik und Informationstechnik*, 130(2), 61-66. <https://link.springer.com/article/10.1007/s00502-013-0133-5>
- [6]. Dermaku, A., & **Bajrami, X.** (2013). Two new heuristic approaches for optimal path calculation on occupancy grid map. *e & i Elektrotechnik und Informationstechnik*, 130(2), 54-60. <https://link.springer.com/article/10.1007/s00502-013-0132-6>

11. b. Publications/Scientific Papers/International Researches: Conference Paper: IEEE

- [1]. Hulaj, A., Shehu, A., & **Bajrami, X.** (2017, November). The application of a single algorithm for filtering different noise in the image. In *2017 European Conference on Electrical Engineering and Computer Science (EECS)* (pp. 174-179). IEEE. <https://ieeexplore.ieee.org/document/8412017/>
- [2]. **Bajrami, X.**, Likaj, R., & Hulaj, A. (2017, May). Modeling of Biped Robot Archie. In *2017 International Conference on Control, Artificial Intelligence, Robotics & Optimization (ICCAIRO)* (pp. 15-18). IEEE. <https://ieeexplore.ieee.org/document/8252954/>
- [3]. Hulaj, A., Shehu, A., & **Bajrami, X.** (2017, May). Support vector machine for the classification of images captured by WMSN. In *2017 International Conference on Control, Artificial Intelligence, Robotics & Optimization (ICCAIRO)* (pp. 283-287). IEEE. <https://ieeexplore.ieee.org/document/8253002/>
- [4]. Shkurti, L., **Bajrami, X.**, Canhasi, E., Limani, B., Krrabaj, S., & Hulaj, A. (2017, June). Development of ambient environmental monitoring system through wireless sensor network (WSN) using NodeMCU and “WSN monitoring”. In *2017 6th Mediterranean Conference on Embedded Computing (MECO)* (pp. 1-5). IEEE. <https://ieeexplore.ieee.org/document/7977215/>
- [5]. Krrabaj, S., Canhasi, E., & **Bajrami, X.** (2017, June). Quantum-Dot cellular automata divider. In *2017 6th Mediterranean Conference on Embedded Computing (MECO)* (pp. 1-4). IEEE. <https://ieeexplore.ieee.org/document/7977215/>
- [6]. **Bajrami, X.**, Dërmaku, A., Demaku, N., Maloku, S., Kikaj, A., & Kokaj, A. (2016, June). Genetic and Fuzzy logic algorithms for robot path finding. In *2016 5th Mediterranean Conference on Embedded Computing (MECO)* (pp. 195-199). IEEE. <https://ieeexplore.ieee.org/document/7525739/>
- [7]. Berisha, J., **Bajrami, X.**, Shala, A., & Likaj, R. (2016, June). Application of Fuzzy Logic Controller for obstacle detection and avoidance on real autonomous mobile robot. In *2016 5th Mediterranean Conference on Embedded Computing (MECO)* (pp. 200-205). IEEE. <https://ieeexplore.ieee.org/document/7525740/>

11. c. Publications/Scientific Papers/International Researches: Conference Paper: ELSEVIER

- [1]. Pajaziti, A., **Bajrami, X.**, & Paliqi, A. (2018). Path Control of Quadruped Robot through Convolutional Neural Networks. *International Federation of Automatic Control IFAC-PapersOnLine*, 51(30), 610-615. <https://www.sciencedirect.com/science/article/pii/S2405896318328908>
- [2]. **Bajrami, X.**, Dermaku, A., Likaj, R., Demaku, N., Kikaj, A., Maloku, S., & Kikaj, D. (2016). Trajectory planning and inverse kinematics solver for real biped robot with 10 DOF-s. *International Federation of Automatic Control IFAC-PapersOnLine*, 49(29), 88-93. <https://www.sciencedirect.com/science/article/pii/S2405896316325460>
- [3]. Dermaku, A., **Bajrami, X.**, Demaku, N., Kikaj, A., Maloku, S., Gashi, B., ... & Demolli, B. (2016). Educational and school management platform. *International Federation of Automatic Control IFAC-PapersOnLine*, 49(29), 138-143. <https://www.sciencedirect.com/science/article/pii/S2405896316325137>
- [4]. Koshi, B., **Bajrami, X.**, & Hamiti, M. (2016). Alternative creation of text to speech technology for the Albanian language. *International Federation of Automatic Control IFAC-PapersOnLine*, 49(29), 259-

262. <https://www.sciencedirect.com/science/article/pii/S2405896316324892>
- [5]. Shala, A., Likaj, R., Bruqi, M., & **Bajrami, X.** (2015). Propulsion Effect Analysis of 3Dof Robot under Gravity. *Procedia Engineering*, 100, 206-212. <https://www.sciencedirect.com/science/article/pii/S1877705815003860>
- [6]. **Bajrami, X.**, Dermaku, A., Shala, A., & Likaj, R. (2013). Kinematics and dynamics modelling of the biped robot. *IFAC Proceedings Volumes*, 46(8), 69-73. <https://www.sciencedirect.com/science/article/pii/S1474667016342161>
- [7]. Dermaku, A., Demaku, N., & **Bajrami, X.** (2013). Reducing of the latency between the client and server using Heuristic Partitioning Approaches on Cloud Computing Architecture. *IFAC Proceedings Volumes*, 46(8), 64-68. <https://www.sciencedirect.com/science/article/pii/S147466701634215X>
- [8]. Likaj, R., Shala, A., Mehmetaj, M., Hyseni, P., & **Bajrami, X.** (2013). Application of graph theory to find optimal paths for the transportation problem. *IFAC Proceedings Volumes*, 46(8), 235-240 <https://www.sciencedirect.com/science/article/pii/S147466701634246X>.

11.d. Publications/Scientific Papers/Researches in region:

- [1] *Semi-autonomous mobile robot for mine detection: Pajaziti, Arbnor, Ka C. Cheok, and Bajrami Xhevahir. Proceedings 10th International Symposium HUDEM and 11th IARP WS HUDEM. 2013* http://www.fp7-tiramisu.eu/sites/fp7tiramisu.eu/files/publications/IARP%207%20-%20A.Pajaziti_0.pdf
- [2] *Localization of the mobile robot by using the ultrasonic and optical sensors: Xh. Bajrami, A. Pajaziti, IASH, Prishtinë, Kosovë, Shtator 20011.* <http://iash-takimet.org/tv2011/konferencat/>
- [3] *Dizajnimi i simulatorit të futbollit me robotë i bazuar në teorinë Fuzzy Logic: A. Pajaziti, Xh. Bajrami, M. Hasanzhekaj, Buletini i punimeve shkencore të publikuara me rastin e 50 vjetorit të themelimit të FIEK, Universiteti i Prishtinës, Fakulteti i Inxhinierisë Elektrike dhe Kompjuterike, Prishtinë 2011 KUD 621.3 004,*
- [4] *Trajectory tracking using integrated sensors on mobile robot: X. Bajrami, A. Shala, European Championship in football with Robots, Scientific Conference on Robotics, 03-06 May, 2011.*
- [5] *Design and Simulation of an Autopilot by using Fuzzy Logic Controller: A. Shala, X. Bajrami, R. Likaj, IARP-HUDEM'2011, Sibenik, Croatia, 26-28 April, 2011.* http://www.ctro.hr/universalis/162/dokument/iarphudem_0804_338407737.pdf
- [6] *Demining techniques of improvised explosive materials by the usage of mobile robots: A. Pajaziti, J. Berisha, X. Bajrami, A. Ajvazi, IARP-HUDEM'2008, American University in Cairo (AUC), Egypt, 2008.* <http://www.gichd.org/fileadmin/pdf/LIMA/HUDEM2008.pdf>

11.e. Books / Teaching materials:

- 1) Dr. Arbnor Pajaziti, Dr. Ismajl Gojani, **Dr. Xhevahir Bajrami.** (2019). *Dinamika e makinave*. Libër Universitar., Universiteti i Prishtinës "Hasan Prishtina" Fakulteti i Inxhinierisë Mekanike, Shtëpi botuese: Dukagjini, Prishtinë 2019
- 2) Pajaziti A., Bajrami X., Shala A., Likaj R. (2020) Analysis of the Stability, Control and Implementation of Real Parameters of the Robot Walking. *Intelligent Systems and Applications. IntelliSys 2020. Advances in Intelligent Systems and Computing*, vol 1038. Springer, Cham DOI: https://doi.org/10.1007/978-3-030-29513-4_68 Publisher Name: Springer, Cham Print ISBN 978-3-030-29512-7 Online ISBN 978-3-030-29513-4 https://link.springer.com/chapter/10.1007/978-3-030-29513-4_68
- 3) Pajaziti A., Bajrami X., Shala A., Likaj R. (2019) Dynamic Walking Experiments for Humanoid Robot. *Intelligent Systems and Applications. IntelliSys 2018. Advances in Intelligent Systems and Computing*, vol 868. Springer, Cham First Online 09 November 2018 DOI: https://doi.org/10.1007/978-3-030-01054-6_60 Publisher Name: Springer, Cham Print ISBN 978-3-030-01053-9 Online ISBN 978-3-030-01054-6 http://link.springer-com-443.webvpn.jxutcm.edu.cn/chapter/10.1007%2F978-3-030-01054-6_60
- 4) Shehu, A., Hulaj, A., & **Bajrami, X.** (2017, September). An algorithm for edge detection of the image for application in WSN. In *International Conference on Applied Physics, System Science and Computers* (pp. 207-213). Springer, Cham. *DOCUMENT TYPE: Book Chapter* https://link.springer.com/chapter/10.1007/978-3-319-53934-8_25
 Book Title: Applied Physics, System Science and Computers
 Book Subtitle: Proceedings of the 1st International Conference on Applied Physics, System Science and Computers (APSAC2016), September 28-30, Dubrovnik, Croatia
 Series Title: Lecture Notes in Electrical Engineering
 Series Volume: 428, Copyright: 2017
 Publisher: Springer International Publishing, Copyright Holder: Springer International Publishing AG
 eBook ISBN: 978-3-319-53934-8, Hardcover ISBN: 978-3-319-53933-1 Series ISSN: 1876-1100
- 5) Hulaj, A., Shehu, A., & **Bajrami, X.** (2016). Application of wireless multimedia sensor networks for

green borderline surveillance. Annals of DAAAM & Proceedings, 27. http://www.daaam.info/Downloads/Pdfs/proceedings/proceedings_2016/122.pdf

6) Likaj, R., Bruqi, M., Shala, A., & **Bajrami, X.** (2016). Optimal design and analysis of quarter vehicle suspension system by using matlab. Annals of DAAAM & Proceedings, 27. http://www.daaam.info/Downloads/Pdfs/proceedings/proceedings_2016/012.pdf

7) Likaj, R., Shala, A., Bruqi, M., & **Bajrami, X.** (2014). Optimal design and analysis of vehicle suspension system. *DAAAM International Scientific Book*.
Linku:http://www.daaam.info/Downloads/Pdfs/science_books_pdfs/2014/Sc_Book_2014-007.pdf

8) **Bajrami, X.**, & Likaj, R. (2017). *Dynamic Modeling and Simulation of Humanoid Robot*. LAP LAMBERT Academic Publishing. ISBN-13: 978-620-2-06393-7, ISBN-10: 6202063939, EAN: 9786202063937, Book language: English, Publishing house: LAP LAMBERT Academic Publishing Germany 2017, Price: € 64,90
<https://www.lap-publishing.com/catalog/details/store/ru/book/978-620-2-06393-7/dynamic-modeling-and-simulation-of-humanoid-robot?search=Bajrami>

9) Dr. Ramë Likaj., **Dr. Xhevahir Bajrami.**, & MSc. Mehmet Qelaj. (2018). *Modelimi, Simulimi dhe Optimalizimi i sistemeve mekanike*. Monografi. ISBN: 978-9951-00-219-6, Shtëpi botuese: Printing press, Prishtinë 2018

13. Additional information:

Reviewer	[1] Robotica (Impact Factor: 1.184) [https://www.cambridge.org/core/journals/robotica] [2] MPDI/Sensors (Impact Factor:3.031) [3] IEEE Transactions on Very Large Scale Integration (VLSI) Systems (Impact Factor:1.744) [4] Journal of Intelligent & Robotic Systems (Impact Factor: 2.020) [5] Engineering Reports [6] The International Journal of Electrical Engineering & Education (Impact Factor:0.941) [7] Robotics and Autonomous Systems (Impact Factor:2.928) [8] Indonesian Journal of Electrical Engineering and Computer Science [9] Mediterranean Conference on Embedded Computing, IEEE [10] IFAC Proceedings Volumes – Elsevier [11] International Journal of Systems, Control and Communications (IJSCC)		
International Projects:	Project of analysis and design of 5Dof robot for use on non-gravity space. Propulsion Effect Analysis of 5DOF Robot under gravity and non-gravity. TU Vienna. 2012.		
Computer skills and competences::	- Software Programming: Matlab, Python, C++, C#, SQL, MySQL - Technical Software: AutoCad, CATIA R19/20, SolidWorks, Maya, Working Model, Nastran 4D.		
<i>Language skills: (1 to 5: 1 lowest – 5 fluent)</i>			
Language	Understanding	Speaking	Writing
English	4	3	4
German	5	5	5