

## CURRICULUM VITAE

|   |   |  |
|---|---|--|
| <b>1. Mbiemri:</b>  | <b>BAJRAMI</b>  |  |
| <b>2. Emri:</b>   | <b>XHEVAHIR</b>   |  |
| <b>3. Nacionaliteti:</b>  | Shqiptar  |  |
| <b>4. Shtetësia:</b>  | Kosovar   |  |
| <b>5. Data e Lindjes:</b>   | 11.03.1982  |  |
| <b>6. Detajet kontaktuese:</b>  | UPHP/FIM: Kabineti -725 <a href="mailto:xhevahir.bajrami@uni-pr.edu">xhevahir.bajrami@uni-pr.edu</a>  |  |
| <b>7. Niveli Arsimor:</b>   | <b>Doktor i shkencave teknike</b>   |  |
| Institucioni:   | Universiteti i Prishtinës “Hasan Prishtina”, Fakultetit i Inxhinierisë Mekanike, Rr. " Bregu i Diellit ", p.n., 10 000 Prishtinë, Republika e Kosovës                                 |  |
| Viti i diplomimit:  | 2006  |  |
| Grada / Punimi i diplomës:  | <b>Bachelor i inxhinieris Mekanike / Lëvizjet e robotit me dy këmbë (Biped)</b>   |  |
| Institucioni:   | Universiteti i Prishtinës “Hasan Prishtina”, Fakultetit i Inxhinierisë Mekanike, Rr. " Bregu i Diellit ", p.n., 10 000 Prishtinë, Republika e Kosovës                                 |  |
| Viti i diplomimit:  | 2010  |  |
| Grada / Punimi i diplomës:  | <b>Master i inxhinieris Mekanike / Modelimi dhe rregullimi i drejtimit të automjetit me përdorim të rregullatorëve fuzzy logic</b>  |  |
| Institucioni:   | Vienna University of Technology, Faculty of Mechanical and Industrial Engineering, Institute of Mechanics and Mechatronics E325, Karlsplatz 13, 1040 Wien, Österreich (AT - Austria). |  |
| Viti i diplomimit:  | 2013  |  |
| Grada / Punimi i diplomës:  | <b>Doktor i shkencave teknike / Dynamic modeling and Simulation of a Humanoid robot.</b>  |  |
| <b>8. Titulli akademik:</b>   | <b>Profesor asistent</b>  |  |
| Institucioni:   | Universiteti i Prishtinës “Hasan Prishtina”, Fakultetit i Inxhinierisë Mekanike, Rr. " Bregu i Diellit ", p.n., 10 000 Prishtinë, Republika e Kosovës                                 |  |
| Data e zgjedhjes:   | 2018  |  |
| <b>9. Kariera profesionale dhe akademike në Universitetin e Prishtinës (asistent, ligjerues, profesor, etj)</b>   |   |  |
| [1]. 01.10.2013 – 15.02.2014,- Ligjerues - angazhim , Universiteti i Prishtinës “Hasan Prishtina”, Rr. "Zija Shemsiu", p.n.60 000 Gjilan, Republika e Kosovës                       |   |  |
| [2]. 01.10.2017-30.06.2018,- Asistent, Fakultetit i Inxhinierisë Mekanike, Prishtinë  |   |  |
| [3]. 21.09.2018, - vazhdon,- Profesor Asistent, Fakultetit i Inxhinierisë Mekanike, Prishtinë   |   |  |
| Lëndët që mbaj në <b>FIM:</b>   | Bachelor:<br>1. Statika (O),<br>2. Dizajnimi i Qarqeve (O)<br>3. Simulimi i sistemeve makinerike(Z).  | Master:<br>4. Bazat e të dhënave inxhinierike (O),<br>5. Modelimi dhe simulimi i sistemeve mekatronike (O),<br>6. Menaxhimi i biznesit, cilësisë dhe shpenzimeve (O),<br>7. Mekatronika në industrinë ushqimore (Z), |
| <b>10. Kariera profesionale dhe akademike – tjera (asistent, ligjerues, profesor, etj)</b>  |   |  |
| - 1.01.02.2014 – 20.04.2018,-Profesor Asistent, Universiteti i Prizrenit, Fakulteti i Shkencave Kompjuterike, Rruga e Shkronjave, nr.1 20000 Prizren, Republika e Kosovës.          |   |  |
| - 20.04.2018 – 21.08.2018,-Profesor i Asocuar, Universiteti i Prizrenit, Fakulteti i Shkencave Kompjuterike, Rruga e Shkronjave, nr.1 20000 Prizren, Republika e Kosovës.           |   |  |
| - 15.02.2014 – 30.06.2017,- Profesor Asistent -angazhim, Universiteti “Kadri Zeka”, Fakulteti i shkencave kompjuterike, Rr. "Zija Shemsiu", p.n.60 000 Gjilan, Republika e Kosovës. |   |  |
| - 01.03.2013 – 30.06.2014,- Profesor Asistent, Kolegji AAB, Fakulteti i Shkencave Kompjuterike Prishtinë Zona Industriale - Fushë Kosovë, Republika e Kosovës.                      |   |  |
| <b>10.1. Anëtar i senatit</b>   |   |  |

- **Koordinator për Zhvillim Akademik –ECTS**, nga 01.10.2019 Universiteti i Prishtinës “Hasan Prishtina”, Fakulteti i Inxhinierisë Mekanike, Prishtinë.

## 10.2. Anëtar i senatit

- 01.10.2013 – 01.02.2015, Universiteti “Kadri Zeka”, Rr. "Zija Shemsiu", p.n.60 000 Gjilan, Republika e Kosovës.

## 11. Publikimet

### 11.1. Punimet shkencore - Journal Article

- [1]. Pajaziti, A., **Bajrami, X.**, Beqa, F., & Gashi, B. (2019). Development of a Vehicle for Driving with Convolutional Neural Network. *International Journal of Advanced Computer Science and Applications (IJACSA), Development, 10(9)*. 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>

### 11.2. Punimet shkencore - 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.**, Dermaku, 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/>

### 11.3. Punimet shkencore : Elsevier

- [1]. Pajaziti, A., **Bajrami, X.**, & Paliqi, A. (2018). Path Control of Quadraped 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>.

#### 11.4. Punimet shkencore –vendore dhe rajonale

- [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](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 2011.* <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](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>

#### 11.2. Publikime universitare (Libra, dispensa, monografi, kapitull libri, etj)

- [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](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](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](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](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](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. 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](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](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](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

## 12. Arsimimi, trajnimet dhe mobiliteti (në 5 vitet e fundit):

|                                 |  |
|---------------------------------|--|
| Data:                           | <b>2008-2010</b>                           |
| Programi:                       | SPRACHENZENTRUM UNIVERSITÄT WIEN           |
| Lëndët/Aftësitë e mbuluara:     | Kursi i gjuhës gjermane 4 semestra (C2)    |
| Emri dhe lloji i institucionit: | University of Vienna” – VWU, Austria –Wien |
| Data:                           | <b>15.06-15.09.2015</b>                    |
| Programi:                       | Vizit studimore                            |
| Lëndët/Aftësitë e mbuluara:     | <b>3D printer, manipulator robot</b>       |
| Emri dhe lloji i institucionit: | Fachhochschule Technikum Wien              |

## 13. Informata shitesë:

|   |   |
|---|---|
| <i>Mentorim i kandidatëve</i>                 | <ul style="list-style-type: none"> <li>- Dhjetëra kandidatë në Bachelor/Master - Universiteti i Prizrenit, Fakulteti i Shkencave Kompjuterike.</li> <li>- Disa kandidatë në Bachelor-Kolegji AAB, Fakulteti i Shkencave Kompjuterike.</li> <li>- Disa kandidatë në Bachelor - Universiteti “Kadri Zeka”, Fakulteti i shkencave kompjuterike.</li> <li>- Disa kandidatë në Bachelor dhe Master , Universiteti i Prishtinës “Hasan Prishtina”, Fakulteti i Inxhinieris Mekanike.</li> </ul>   |
| <i>Recensues i dhjetëra publikimeve:</i>      | <ul style="list-style-type: none"> <li>[1] Robotica (Impact Factor: 1.184) [<a href="https://www.cambridge.org/core/journals/robotica">https://www.cambridge.org/core/journals/robotica</a>]</li> <li>[2] MPDI/Sensors (Impact Factor:3.031)</li> <li>[3] IEEE Transactions on Very Large Scale Integration (VLSI) Systems (Impact Factor:1.744)</li> <li>[4] Journal of Intelligent &amp; Robotic Systems (Impact Factor: 2.020)</li> <li>[5] Engineering Reports</li> <li>[6] The International Journal of Electrical Engineering &amp; Education (Impact Factor:0.941)</li> <li>[7] Robotics and Autonomous Systems (Impact Factor:2.928)</li> <li>[8] Indonesian Journal of Electrical Engineering and Computer Science</li> <li>[9] Mediterranean Conference on Embedded Computing, IEEE</li> <li>[10] IFAC Proceedings Volumes – Elsevier</li> <li>[11] International Journal of Systems, Control and Communications (IJSCC)</li> </ul> |
| <i>Shkathtësi kompjuteri dhe kompetencat:</i> | <ul style="list-style-type: none"> <li>- Software Programming : Matlab, Python, C++, C#, SQL, MySQL, Python-IoT.</li> <li>- Technical Software: AutoCad, CATIA R19/20, SolidWorks, Maya, Working Model, Nastran 4D.</li> </ul>  |

Shkathtësitë të gjuhës: (1 deri 5: 1-vlerësimi më i ulët ; 5 fluent)

| Gjuha          | Konverzimi | Shkrimi | Leximi |
|----------------|------------|---------|--------|
| Gjuha angleze  | 3          | 4       | 4      |
| Gjuha gjermane | 5          | 5       | 5      |