## Curriculum Vitae Kosta Jovanović, Ph.D. El.Eng.

## Personal

Name: Kosta M. Jovanović

Born: 17<sup>th</sup> of July 1986, Cacak, Serbia

Citizenship: Serbian

Industry: Robotics and Mechatronics

**Research interest:** human-like robot actuators, robot modeling, simulation and control.

**Current position:** Assistant Professor, ETF Robotics laboratory (<u>link</u>), Department of Signals & Systems (<u>link</u>), School of Electrical Engineering (<u>link</u>), University of Belgrade (<u>link</u>)

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## Education

| <b>PhD degree</b><br>(2010–2016)                    | School of Electrical Engineering, University of Belgrade / DLR Institute of<br>Robotics and Mechatronics, Oberpfaffenhofen, Germany<br>PhD thesis: Modeling and control of the anthropomimetic robot with<br>antagonistic joints in contact and non-contact tasks<br><i>Supervisor:</i> Prof. Veljko Potkonjak; <i>Committee members:</i> Prof Mirjana<br>Popović; Prof. Aleksandar Rodić; Prof. Alin Albu-Schäffer; Prof. Željko<br>Đurović |  |
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| <b>Masters degree</b> (2009–2010)                   | School of Electrical Engineering, University of Belgrade<br>Department: Signals & Systems / Field: Control systems & Robotics<br>GPA: 10.00 (out of 10.00)   |  |
| <b>Dipl. Ing. degree</b> (2005–2009)                | School of Electrical Engineering, University of Belgrade<br><i>Department</i> : Signals & Systems / <i>Field</i> : Control systems & Mechatronics<br><i>GPA</i> : 9.96 (out of 10.00) - award for the best graduated student on department   |  |
| Experience – Professional engagements               |  |  |
| <b>Assistant Professor</b><br>9/2016 - present      | Laboratory for Robotics – ETF Robotics, School of Electrical Engineering,<br>University of Belgrade (courses: Hydraulics & Pneumatics Systems, CNC<br>machines, Robotics & Automation, Theory of Robotic Systems, Sensors in<br>Robotics, Robotics Systems). ( <u>www.etf.rs</u> )   |  |
| Teaching & Research<br>Assistant<br>3/2010 – 9/2016 | Laboratory for Robotics – ETF Robotics, School of Electrical Engineering,<br>University of Belgrade (courses: Hydraulics & Pneumatics Systems, CNC<br>machines, Robotics & Automation, Theory of Robotic Systems, Sensors in<br>Robotics, Robotics Systems). (www.etf.rs)  |  |
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| <b>Guest Researcher</b><br>7/2010 – 8/2010  | TUM (Technical University of Munich). Department for Robotics & Embedded Systems, Munich, Germany. ( <u>www6.in.tum.de</u> )   |
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| <b>Intern</b><br>6/2009 – 9/2009  | SMS Siemag A.G., Hilchenbach, Germany. Department of Electronic & Automation. ( <u>www.sms-siemag.com</u> )  |
| Professional trainings  | Saphari NMMI Winter School on Robotics: Variable Stiffness Actuators, Sapienza University of Rome, Rome, Italy. ( <i>February 2015</i> )   |
|   | Proposal Writing and International Project Management for Young Researchers (by Iris Löhrmann & Stephan Heilmann, TU Berlin, October 2014)   |
|   | Flatness based control of nonlinear systems (by prof. DrIng. J. Rudolph, Saarland University, October 2013)  |
|   | Summer School on Soft Robotics, Swiss Federal Institute for Technology ETH Zurich, Switzerland. ( <i>June 2012</i> )   |
|   | Experience – Projects  |
| <b>FS4SMIH</b> (coordinator)<br>9/2016 - present  | Feasibility Study for Serbian Manufacturing Innovation Hub. Funded by H2020 call I4MS.   |
| <b>Cooperative robots</b><br>educational cell<br>( <i>coordinator</i> )<br>6/2016 - present | Integration of two industrial robots within the flexible industrial cell equipped<br>with conveyors, diverse sensor systems, an advanced safety system as a<br>platform for education of robotics and engineering. Local project sponsored by<br>companies: ABB, Denso, Siemens, Servoteh, Tipteh, Gimatic, UnoLux<br>Processing, etc. |
| <b>Robotization of Serbia</b><br>(coordinator)<br>10/2014 - present                         | Robotization of Serbia - educational and science promotion project. Funded by<br>Serbian Center for the Promotion of Science, Erste Bank, and Comtrade.  |
| <b>Anth. Serv. Robot</b><br>1/2011 - present  | Ambient intelligent service robot of anthropomorphic characteristics. Funded by Serbian Ministry of Education, Science and Tech. Development, no. TR35003.   |
| <b>ECCEROBOT</b><br>10/2009 – 2/2012  | Embodied Cognition in a Compliantly Engineered Robot – <i>ECCEROBOT</i> .<br>Funded by EU FP7, Challenge 2- Cognitive Systems, Interaction,<br>Robotics - under grant agreement no. 231864 ( <u>www.eccerobot.org</u> )  |
| Days of future:<br>Robotics<br>5/2012 – 10/2012   | Science popular manifestation "Days of Future: Robotics" (24th of Sept. – 15th of Oct. 2012), main responsible for robot exhibition and science popular lectures session. In cooperation with Serbian Center for the Promotion of Science. (http://danibuducnosti.rs/)   |
|   | Awards   |
| 2018  | AmCham Leader in Change HERO Award – Award of American Chamber of Commerce in Serbia for Excellence in Serbian Society   |
| 2017  | Best Paper Award – Section: Robotics and Flexible Automation, 4 <sup>th</sup> International Conference on Electrical, Electronic and Computing Engineering (ICETRAN 2017)  |
| 2016  | Best Paper Award – Section: Robotics and Flexible Automation, 3 <sup>rd</sup> International Conference on Electrical, Electronic and Computing Engineering (ICETRAN 2016)  |
| 2016  | Youth Heroes: 1 <sup>st</sup> Price in Category Education and Science. Issuer: Exit Foundation and NIS Gasprom Neft.   |

| 2015                               | Winner of Saphari NMMI Winter School on Robotics: Variable Stiffness<br>Actuators, Sapienza University of Rome, Rome, Italy.   |
|------------------------------------|--|
| 2014                               | Best Young Researcher Award – Section: Robotics and Flexible Automation, 1 <sup>st</sup><br>International Conference on Electrical, Electronic and Computing Engineering<br>(IcETRAN 2014)   |
| 2013                               | SUPERSTE award for the best Serbian young scientist (up to 27 age) in the field of natural and technical sciences  |
| 2013                               | Belgrade award (event of the year 2012 in Belgrade) – Days of Future: Robotics (organization team: Aleksandra Drecun, <i>Serbian Center for the Promotion of Science</i> ; prof. Veljko Potkonjak, Kosta Jovanovic, <i>School of Electrical Engineering, University of Belgrade</i> )  |
| 2013                               | DAAD grant for research stay at DLR Institute on Robotics and Mechatronics,<br>Munich, Germany   |
| 2012                               | Nikola Tesla Junior Achievement Award for the outstanding achievements of young people in the field of technology in 2011  |
| 2011                               | The 1 <sup>st</sup> prize at the 17 <sup>th</sup> International Students Competition in Engineering – ICAMES 2011 – Istanbul; role – team adviser  |
| 2011                               | Belgrade University Award for the best student scientific work in the field of technical &technological sciences at Belgrade University in 2010/2011.  |
| 2009                               | Award for the best graduated student in 2009 at the Department for Signals & Systems, Faculty of Electrical Engineering, University of Belgrade  |
| 2009                               | "Zoran Djindjic Internship Programme of German Business" scholarship for professional education in Germany   |
|                                    | Publications   |
|                                    | Citations – 176; h-index – 8 (source: Scopus)  |
|                                    | Citations – 326; h-index – 9 (source: Google Scholar)  |
| Book chapter:<br>(1)               | 1. V. Potkonjak, <b>K. Jovanovic</b> , P. Milosavljevic. Springer Series on Mechanisms and Machine Science – New trends in Medical and Service Robotics, Vol 20, (2014). Chapter 20: "How to Control Anthropomimetic Robot: Engineering and Cognitive Approach" (ISBN 978-3-319-05431-5, DOI: 10.1007/978-3-319-05431-5)   |
| International<br>Journals:<br>(10) | <ol> <li>M. Tomic, C. Chevallereau, K. Jovanovic, V. Potkonjak, A. Rodic<sup>´</sup>, "Human to<br/>humanoid motion conversion for dual arm manipulation tasks", <i>Robotica</i>, accepted.</li> <li>M. Tomic, K. Jovanovic, C. Chevallereau, V. Potkonjak, A. Rodic<sup>´</sup>, "Towards<br/>optimal mapping of human dual arms motion to humanoid motion for tasks involving<br/>contact with the environment", <i>International Journal of Advanced Robotic Systems</i>, Vol<br/>15(1), 2018, pp 1-19.</li> <li>K. Jovanovic, B. Lukic, V. Potkonjak, "Feedback linearization for decoupled<br/>position/stiffness control of bidirectional antagonistic drives", <i>Facta Universitatis –<br/>Series: Electronics and Energetics</i>, Vol 31(1), 2018, pp 51-61.</li> <li>V. Potkonjak, M. Gardner, V. Callaghan, P. Mattila, C. Guetl, V. Petrović, K.<br/>Jovanovic, "Virtual Laboratories for Education in Science, Technology, and<br/>Engineering: a Review", <i>Computers &amp; Education (Elsevier)</i>, Vol 95, 2016, pp 309-327.</li> <li>K. Jovanovic, V. Potkonjak, O. Holland, "Dynamic Modelling of an<br/>Anthropomimetic Robot in Contact Tasks", <i>Advanced Robotics: The International<br/>Journal of the Robotics Society of Japan (Taylor &amp; Frencis)</i>, Vol 28(11), 2014, pp 793-<br/>806.</li> <li>V. Antoska, K. Jovanovic, V. Petrovic, N. Bascarevic, M. Stankoviski, "Balance<br/>Analysis of the Mobile Anthropomimetic Robot Under Disturbances – 7MP Approach"</li> </ol> |

|                               | <ul> <li>International Journal of Advanced Robotic Systems, Vol 10(paper 206), 2013, pp 1-10.</li> <li>7. S. Wittmeier, C. Alessandro, N. Bascarevic, K. Dalamagkidis, A. Diamond, M. Jantsch, K. Jovanovic, R. Knight, H. G. Marques, P. Milosavljevic, B. Svetozarevic, V. Potkonjak, R. Pfeifer, A. Knoll, O. Holland, "Towards Anthropomimetic Robotics", Artificial Life, (M I T press), Vol 19(1), 2013, pp 171-193.</li> <li>8. V. Potkonjak, K. Jovanovic, O. Holland, J. Uhomoibhi, "Distance learning and skill acquisition in engineering sciences – present state and prospects", Multicultural Education and Technology Journal (Emerald), Vol 7(1), 2013, pp 64-88.</li> <li>9. V. Potkonjak, B. Svetozarevic, K. Jovanovic, O. Holland, "The puller-follower control of compliant and noncompliant antagonistic tendon drives in robotic system", International Journal of Advanced Robotic Systems (InTech), Vol 8, 2012, pp 143-155.</li> <li>10. V. Potkonjak, M. Vukobratovic, K. Jovanovic, M. Medenica, "Virtual Mechatronic/Robotic laboratory - A step further in distance learning", Computers &amp; Education (Elsevier), Vol 55, 2010, pp 465-475.</li> </ul>  |
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| Domestic journals: (3)        | 1. V. Petrovic, <b>K. Jovanovic</b> , V. Potkonjak, "Dynamics Based Modeling of Wheeled Platform for Humanoid Robot Torso", <i>Serbian Journal of Electrical Engineering</i> , Vol 13(3), (2016) pp 335-345 ( <i>ISSN 1451-4869</i> )  |
|                               | 2. <b>K. Jovanović</b> , J. Vranić, N. Miljković, "Hill's and Huxley's Muscle Models – Tools for Simulations in Biomechanics", <i>Serbian Journal of Electrical Engineering</i> , Vol 12(1) (2015) pp 53-67 ( <i>ISSN 1451-4869</i> )  |
|                               | 3. B. Svetozarevic, <b>K. Jovanovic</b> , "Control of Compliant Anthropomimetic Robot Joint", <i>Serbian Journal of Electrical Engineering</i> , Vol 8(1), (2011) pp 85-93 ( <i>ISSN 1451-4869</i> )   |
| International<br>Conferences: | 1. Z. Gordic, <b>K. Jovanovic</b> , "Fully Integrated Torque-Based Collision Detection in<br>Periodic Tasks for Industrial Robots with Closed Control Architecture", Advances in<br>Intelligent Systems and Computing (Proc. 27th IFTOMM International Conference on   |
| (16)                          | <ul> <li>Incrigent systems and computing (FIOC. 27th IFTOMM International Conference on<br/>Robotics in Alpe-Adria-Danube Region – RAAD 2018), accepted.</li> <li>B. Lukic, K. Jovanovic, T. Sekara, "Dual Loop Gain Scheduling Controller of<br/>Antagonistic Actuators Based on System Identification", Advances in Intelligent<br/>Systems and Computing (Proc. 27th IFTOMM International Conference on Robotics in<br/>Alpe-Adria-Danube Region – RAAD 2018), accepted.</li> <li>B. Lukic, K. Jovanovic, "Minimal Energy Cartesian Impedance Control of Robot<br/>with Bidirectional Antagonistic Drives", Advances in Intelligent Systems and Computing<br/>(Proc. 25th IFTOMM/IEEE International Conference on Robotics in Alpe-Adria-Danube<br/>Region – RAAD 2016), January 2017, pp. 56-64.</li> <li>V. Petrovic, B. Nikolic, K. Jovanovic, V. Potkonjak "Development of Virtual<br/>Laboratory for Mechatronic Systems", Advances in Intelligent Systems and Computing<br/>(Proc. 25th IFTOMM/IEEE International Conference on Robotics in Alpe-Adria-Danube<br/>Region – RAAD 2016), January 2017, pp. 622-630.</li> <li>B. Lukic, K. Jovanovic, G. Kvascev, "Feedforward Neural Network for Controlling<br/>Qbmove Maker Pro Variable Stiffness Actuator", <i>The 13<sup>th</sup> Symposium on Neural<br/>Networks Applications in Electrical Engineering (NEUREL 2016)</i>, Belgrade, Serbia,<br/>September, 2016, p 67-70.</li> <li>V. Potkonjak, V. Petrovic, K. Jovanovic, D. Kostic, "Human-Robot Analogy – How<br/>Physiology Shapes Human and Robot Motion", Proc. European Conference on Artificial<br/>Life (ECAL 2013, MIT Press), Taormina, Italy, September 2013, pp. 136-143.</li> <li>V. Potkonjak, N. Bascarevic, P. Milosavljevic, K. Jovanovic, O. Holland, J. Uhomoibhi, "Virtual<br/>Ambient for E-Learning in Engineering Sciences", Proc. Conference of the International<br/>Journal of Arts and Sciences, Valletta, Malta, March 2013, Vol. 6(1), pp. 7-14.</li> <li>V. Potkonjak, N. Bascarevic, P. Milosavljevic, K. Jovanovic, O. Holland,<br/>"Experience-Based Fuzzy Control of an Anthropomimetic Robot", Proc. 1012,<br/>pp 389-394</li>     &lt;</ul> |

|                       | Machine-Learning Approach to the Control of an Anthropomimetic Robot Arm", Proc. 10th IFAC Symposium on Robot Control (SYROCO 2012), Dubrovnik, Croatia, September 2012., pp 301-306  |
|-----------------------|---|
|                       | Puller-Follower Control Concept For The Multi-Joint Robot With Antagonistically Coupled Compliant Drives", <i>The 2nd IASTED International Conference on Robotics</i> ( <i>Robo 2011</i> ), Pittsburgh, USA, November 2011. pp 375-381  |
|                       | 13. V. Potkonjak, <b>K. Jovanovic</b> , B. Svetozarevic, O. Holland, D. Mikicic, "Modeling<br>and Control of a Compliantly Engineered Anthropomimetic Robot in Contact<br>Tasks", <i>The 35th ASME Mechanisms and Robotics Conference</i> , Washington, DC, USA,<br>August 2011, pp 23-32(presenting author)  |
|                       | <ul> <li>14. V. Potkonjak, B. Svetozarevic, K. Jovanovic, O. Holland, "Anthropomimetic Robot with Passive Compliance – Contact Dynamics and Control", <i>The 19th Mediterranean Conference on Control and Automation</i>, Corfu, Greece, Jun 2011. pp 1059 – 1064</li> <li>15. V. Potkonjak, B. Svetozarevic, K. Jovanovic, O. Holland, "Biologically-inspired control of a compliant anthropomimetic robot", <i>The 15th IASTED International Conference on Robotics and Applications</i>, Cambridge, Massachusetts, USA, November 2010. pp 182-189 (presenting author)</li> <li>16. V. Potkonjak, B. Svetozarevic, K. Jovanovic, O. Holland, "Control of Compliant Anthropomimetic Robot Joint", <i>International Conference of Numerical Analysis and Applied Mathematics</i>, Rhodes, September 2010. pp 1271-1274</li> </ul> |
| Domestic conferences: | 1. Z. Gordić, <b>K. Jovanović</b> , V. Potkonjak, M. Majstorović, "Partial Pose Measurements<br>for Identification of Denavit-Hartenberg Parameters of an Industrial Robot". The 4 <sup>th</sup>  |
| (16)                  | IcETRAN Conference, Kladovo, Serbia, Jun, 2017. pp ROI1.6- 1-4.   |
|                       | 2. N. Knezevic, K. Jovanovic, Z. Gordić, V. Potkonjak, M. Majstorović, Hažard Identification, Risk Assessment and Safety Integration for Flexible Robotic Cell", The 4 <sup>th</sup> IcETRAN Conference, Kladovo, Serbia, Jun, 2017. pp ROI1.3- 1-4.  |
|                       | 3. <b>K. Jovanovic</b> , B. Lukic, V. Potkonjak, "Enhanced Puller-Follower Approach for Stiffness Control of Antagonistic Drives", <i>The</i> 3 <sup>rd</sup> <i>IcETRAN Conference</i> , Zlatibor, Serbia, June, 2016. pp ROI1.2- 1-6.   |
|                       | 4. B. Lukic, <b>K. Jovanovic</b> , A. Rakic, "Realization and Comparative Analysis of Coupled and Decoupled Control Methods for Bidirectional Antagonistic Drives: QBmove Maker Pro", <i>The 3<sup>rd</sup> IcETRAN Conference</i> , Zlatibor, Serbia, June, 2016. pp ROI1.1- 1-6.  |
|                       | 5. <b>K. Jovanovic</b> , P. Milosavljevic, V. Potkonjak, "Control Design for Pick-and-Place Task Using Robot with Intrinsic Compliance - QB Robot", <i>The 2<sup>nd</sup> IcETRAN Conference</i> , Srebrno jezero, Serbia, June, 2015. pp ROI1.1-1-6.   |
|                       | 6. B. Lukic, <b>K. Jovanovic</b> , "Influence of Mechanical Characteristics of a Compliant<br>Robot on Cartesian Impedance Control Design", <i>The 2<sup>nd</sup> IcETRAN Conference</i> , Srebrno<br>izzero, Serbia, June 2015, pp ROI2 5-1-6.   |
|                       | <ol> <li>D. Zivkovic, A. Bukvic, V. Obradovic, K. Jovanovic, "Implementation of Extended<br/>Kalman Filter in Localization of Mobile Robots", <i>The 2<sup>nd</sup> IcETRAN Conference</i>, Srebrno<br/>jezero, Serbia, June, 2015, pp ROI1.3- 1-6.</li> </ol>  |
|                       | 8. <b>K. Jovanovic</b> , J. Vranic, "Muscle Models for Accurate Simulation of Human Movements", <i>The 1<sup>st</sup> IcETRAN Conference</i> , Vrnjacka Banja, Serbia, June, 2014. pp ROI2.4-1-5.   |
|                       | 9. Z. Gordic, <b>K. Jovanovic</b> , "Modeling and Control of Car Handling Box System", <i>The I</i> <sup>st</sup> <i>IcETRAN Conference</i> , Vrnjacka Banja, Serbia, June, 2014. pp ROI3.4- 1-6. 10 V. Petrovic, <b>K. Jovanovic</b> , V. Potkoniak. "ZMP approach to the critical design of a   |
|                       | mobile platform for the semi-anthropomimetic robot", <i>The 57<sup>th</sup> ETRAN Conference</i> , Zlatibor, Serbia, June, 2013. pp RO1.1- 1-6  |
|                       | disciplines – Virtual laboratory for robotics and mechatronics", <i>The 56<sup>th</sup> ETRAN Conference</i> , Zlatibor, Serbia, June, 2012. pp RO1.1- 1-4  |
|                       | 12. N. Bascarevic, <b>K. Jovanovic</b> , V. Potkonjak, "A tip-over stability analysis of an anthropomimetic wheeled robot based on zmp", <i>The 56<sup>th</sup> ETRAN Conference</i> , Zlatibor, Serbia, June, 2012, pp RO2.9 - 1-4   |
|                       | 13. <b>K. Jovanovic</b> , N. Bascarevic, "Modeling Contact Dynamics of the Anthropomimetic Robot – ECCEROBOT", <i>The 55<sup>th</sup> ETRAN Conference</i> , Teslic, Bosnia and Herzegovina, June, 2011. pp RO1.8- 1-4  |
|                       | 14. P. Milosavljevic, <b>K. Jovanovic</b> , V. Potkonjak, "The Puller-Follower Control Concept in the Multi-Jointed Antropomimetic Robot Body", <i>The 55<sup>th</sup> ETRAN Conference</i> , Teslic,   |

|                              | <ul> <li>Bosnia and Herzegovina, June, 2011. pp RO1.7- 1-4</li> <li>15. K. Jovanovic, B. Svetozarevic, "Humanoid Robot Model with Antagonistic Drives", <i>The 54<sup>th</sup> ETRAN Conference</i>, DonjiMilanovac, Serbia, June, 2010. pp RO1.3 - 1-4</li> <li>16. B. Svetozarevic, K. Jovanovic, "Control of Compliant Anthropomimetic Robot Joint", <i>The 54<sup>th</sup> ETRAN Conference</i>, Donji Milanovac, Serbia, June, 2010. pp RO1.4 - 1-4</li> </ul> |
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|                              | Reviewer activities   |
| Books:                       | Roboti, Serbian Center for the Promotion of Science, September 2012.  |
| Magazines:                   | Elementi ( <u>http://www.cpn.rs/elementi/</u> ), quarterly published by Serbian Center for the Promotion of Science, since July 2015, ISSN 2406-3002  |
| Iournals:                    | IEEE Robotics and Automation Letters, ISSN 2377-3766  |
| Jour mais:                   | IEEE Transactions on Control Systems Technology, ISSN 1063-6536   |
|                              | IEEE Transactions on Neural Systems & Rehabilitation Engineering, ISSN: 1534-4320   |
|                              | International Journal of Humanoid Robotics, World Scientific, ISSN: 0219-8436   |
|                              | International Journal of Intelligent & Robotics Systems, Springer-Verlag Dordrecht, ISSN: 0921-0296   |
|                              | Robotica, Cambridge University Press, ISSN: 1469-8668   |
|                              | Computer Application In Engineering Education, John Wiley and Sons, ISSN: 1061-<br>3773   |
| Conferences:                 | IEEE International Conference on Robotics and Automation  |
|                              | Mediterranean conference on control and automation (MED) - IEEE CSS   |
|                              | World Congress of the International Federation of Automatic Control - IFAC  |
|                              | IFToMM/IEEE 25th International Conference on Robotics in Alpe-Adria-Danube Region (RAAD 2016)   |
| Other:                       | Member of National Organizing Committee – IFToMM/IEEE 25th International<br>Conference on Robotics in Alpe-Adria-Danube Region (RAAD 2016),<br>( <u>http://raad2016.org/</u> )  |
|                              | Activities  |
| 10/2011 - present            | Zoran Djindjic internship programme of German business scholarship holders -<br>alumni club; Belgrade alumni club coordinator<br>(http://www.stipendienprogramm.org/)   |
| 10/2009 - present            | Member of ETF Robotics research group ( <u>http://robot.etf.rs</u> )  |
| 2/2014 - present             | Member of DAAD Belgrade Alumni club   |
| 11/2007 - present            | Member of MENSA – Serbia & Montenegro   |
| 12/2007 - 10/2010            | EESTEC – Electrical Engineering Students' European Association <u>http://eestec.etf.rs/</u>   |
|                              | Other skills  |
| Professional<br>memberships: | IEEE Robotics & Automation Society,<br>DAAD alumni club   |
| Languages:                   | English (advanced)<br>German (basic)  |
| Computer skills:             | MS Office / Internet<br>Tools - Matlab & Simulink, C/C++, LogiCAD, Step7  |
| Personality:                 | well organized, responsible, ambitious, communicative, team player, hardworking.  |