

Curriculum Vitae – Branko Lukić, M.Sc.E.E.

Personal

Name: Branko Lukić

Born: 30th of March 1990, Loznica, Serbia

Citizenship: Serbian

Current position: PhD student, Department of Signals & Systems, Faculty of Electrical Engineering, University of Belgrade

Address: Bulevar kralja Aleksandra 73, 11000 Belgrade, Serbia

Phone: +381 64 2948261

E-mail: branko@etf.rs



Linkedin: <https://rs.linkedin.com/pub/branko-lukić/60/ba2/ba9>

Education

PhD degree (2013– present)	School of Electrical Engineering, University of Belgrade Department: Signals & Systems PhD field of research: Robotics Mentor: Prof. Veljko Potkonjak, PhD
Masters degree (2012– 2013)	School of Electrical Engineering, University of Belgrade Department: Signals and Systems Field: Control systems, Robotics and Signal Processing GPA: 10.00 (out of 10.00) Master thesis: The development of experimental platform for research in robots having compliant joints, Mentor: Prof. Veljko Potkonjak.
Dipl. Ing. degree (2008– 2012)	School of Electrical Engineering, University of Belgrade Department: Signals and Systems Field: Control systems, Robotics and Signal Processing GPA: 8.53 (out of 10.00) Diploma thesis: Comparative Analysis of Nonlinear Control Laws on Laboratory Setup Two-Tank System Mentor: Prof. Aleksandar Rakić.

Professional trainings

August 22-26, 2016	IS3 HRC 2016: ITALIAN-SERBIAN SUMMER SCHOOL ON HUMAN-ROBOT COWORKING - Master Classes on Human-Robot Coworking and Advanced Robotic Grasping
---------------------------	----------------------------------------------------------------------------------------------------------------------------------------------

Experience/Career/Projects	
January 2017 – present	Research Assistant at project funded by Serbian Ministry of Education, Science and Technological Development - Ambient Intelligent Service Robots of Anthropomorphic Characteristics.
November 2013 – December 2016	Research Associate at project funded by Serbian Ministry of Education, Science and Technological Development - Ambient Intelligent Service Robots of Anthropomorphic Characteristics.
September 2012	Internship in Eling DOO, Loznica, Serbia
September – October 2012	Serbian Center for the Promotion of Science, “Days of Future: Robotics” (24 th of Sept. – 15 th of Oct.), responsible for robot workshops, and for robot exhibition. (http://danibuducnosti.rs/)
Research Interests	
Robotics and Control systems	Modeling and control of a robotic systems.
Awards and Scholarships	
2016	Scholarships for students of doctoral academic studies funded by Ministry of Education, Science and Technological Development of Republic of Serbia.
2016	The city's annual awards for the best students in 2016 by city of Loznica.
2015	Scholarships for students of doctoral academic studies funded by Ministry of Education, Science and Technological Development of Republic of Serbia.
2015	The city's annual awards for the best students in 2015 by city of Loznica.
2014	Scholarships for students of doctoral academic studies funded by Ministry of Education, Science and Technological Development of Republic of Serbia.
2014	The city's annual awards for the best students in 2014 by city of Loznica.
2009	Dositeja - Fund for Young Talents of the Republic of Serbia: Award for high school students for the achievement in competitions in the country and abroad.
2008	Commendation from HRH Prince Aleksandar Karadjordjević II as the best student in High School.
2000-2008	Awards from competition in Math, Programming, Fundamental of Electrical Engineering and Electronics in Elementary and High School
Student’s projects	
Robotics	CNC machines - programming and product design, programming the movement of robotic manipulator on production line.
Industrial Process Control	Water Distribution System, Drying system, AC motor – programming PLCs and SCADA application.
Embedded Systems	DC motor control using MBED. DC motor control with <i>National Instruments</i> cRIO 9074.
Publications	
Conferences:	1. B. Lukic , K. Jovanovic, G. Kvascev, “Feedforward Neural Network for Controlling Qbmove Maker Pro Variable Stiffness Actuator”, The 13th Symposium on Neural Networks Applications in Electrical Engineering (NEUREL 2016), Belgrade, Serbia, September, 2016., pp 67-70.

	<ol style="list-style-type: none"> 2. Branko Lukić, Kosta Jovanović, „Minimal Energy Cartesian Impedance Control of Robot with Bidirectional Antagonistic Drives”, IFTOMM/IEEE/EUROBOTICS 25TH INTERNATIONAL CONFERENCE ON ROBOTICS IN ALPE-ADRIA-DANUBE REGION – RAAD 2016, Belgrade, June 30th - July 2nd 2016. 3. Branko Lukić, Kosta Jovanović, Aleksandar Rakić, “Realization and Comparative Analysis of Coupled and Decoupled Control Methods for Bidirectional Antagonistic Drives: QBmove maker pro”, 3rd International Conference on Electrical, Electronic and Computing Engineering (IcETRAN 2016), Zlatibor, Serbia, Jun 13-16, 2016. 4. Kosta Jovanović, Branko Lukić, “Enhanced Puller-Follower Approach for Stiffness Control of Antagonistic Drives”), 3rd International Conference on Electrical, Electronic and Computing Engineering (IcETRAN 2016), Zlatibor, Serbia, Jun 13-16, 2016. 5. Branko Lukić, Kosta Jovanović, “Influence of Mechanical Characteristics of a Compliant Robot on Cartesian Impedance Control Design”, 2nd International Conference on Electrical, Electronic and Computing Engineering (IcETRAN 2015), Srebrno Jezero, Serbia, Jun 8-11, 2015. 6. Veljko Potkonjak, Branko Lukić, Zaviša Gordić, Predrag Milosavljević, “Development of Experimental Platform for Research in Robots Having Compliant Joints”, 1st International Conference on Electrical, Electronic and Computing Engineering (IcETRAN 2014), Vrnjačka Banja, June 2014. 7. Z. Gordić, B. Lukić, M. Lazarević, “Primena modifikovanog relejnog eksperimenta na sistemu sa dva rezervoara u cilju njegove karakterizacije i projektovanje optimalnog PID regulatora”, INFOTEH-Jahorina, Vol 12, March 2013, pp 1187-1191. 8. M. Lazarević, Z. Gordić, B. Lukić, “ Primena numeričkih metoda inverzne Laplasove transformacije u rešavanju jedne klase parcijalnih diferencijalnih jednačina fizičkih procesa “, INFOTEH-Jahorina, Vol 12, March 2013, pp 1191-1195.
Journals:	<ol style="list-style-type: none"> 1. Jovanović, Kosta, Branko Lukić, and Veljko Potkonjak. "Feedback Linearization for Decoupled Position/Stiffness Control of Bidirectional Antagonistic Drives." Facta Universitatis, Series: Electronics and Energetics Vol. 31, No 1, (March 2018): 51-61.
Activities	
Oct 2013 - present	Member of the ETF Robotics research group (http://robot.etf.rs)
2004 - 2008	Member of Regional Center for Talents in Loznica, Serbia
Other skills	
Languages:	English
Computer and programming skills:	Matlab, Simulink, C/C++, LabVIEW