

# Curriculum Vitae - Kosta Jovanovic, M.Sc.E.E

## Personal

**Name:** Kosta M. Jovanovic

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

**Citizenship:** Serbia

**Current role:** Teaching Assistant, Department for Signals & Systems,  
Faculty of Electrical Engineering, University of Belgrade

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## Education

- Masters degree** (2009 – 2010) Faculty of Electrical Engineering, University of Belgrade  
*Department:* Signals & Systems  
*Field:* Control systems & Robotics  
*GPA:* 10.00  
*Master thesis:* Simulation model development of the humanoid robot with antagonistic drives in contact tasks, *mentor:* Prof. Veljko Potkonjak.
- Dipl. Ing. degree** (2005 – 2009) Faculty of Electrical Engineering, University of Belgrade  
*Department:* Signals & Systems  
*Field:* Control systems & Mechatronics  
*GPA:* 9.96 (award for the best graduated on department)  
*Diploma thesis:* Two-handed robot balance due to external disturbances, *mentor:* Prof. Veljko Potkonjak.

## Experience/Career

- Mar 2010 - present** Teaching Assistant at Faculty of Electrical Engineering (courses: Hydraulics & Pneumatics Systems, CNC machines, Robotics & Automation, Theory of Robotic Systems, Sensors in Robotics, Robotics Systems). ([www.etf.rs](http://www.etf.rs))
- Okt 2009 - present** Research assistant at European FP7 project - ECCEROBOT (Embodied Cognition in a Compliantly Engineered Robot). Part regarding engineering analysis and control theory. ([www.eccerobot.org](http://www.eccerobot.org))
- Jully-August 2010** Research internship at TUM (Technical University of Munich). Department for Robotics & Embedded Systems.
- Jun-September 2009** Internship in company SMS Siemag A.G., Germany ([www.sms-siemag.com](http://www.sms-siemag.com)). Department of Electronic & Automation, Hot rolling mill plant, project - "KOMPAS".

Research Interests	
<b>Robot dynamics</b>	Development of the dynamics model for different type of robots
<b>Robot simulation</b>	Simulation tools for robot & machine dynamics, contacts with environment & control
<b>Control systems</b>	Control systems applied to electrical & hidraulics drives
Awards	
<b>2009</b>	Award for the best graduated student in 2009 at the Department for Signals & Systems, Faculty of Electrical Engineering, University of Belgrade
<b>2009</b>	“Zoran Djindjic Internship Programme of German Business” scholarship for professional education in Germany
<b>2008</b>	Prof. Mirka Milića award for the best student in class at the Faculty of Electrical Engineering, University of Belgrade
Projects	
<b>Robotics</b>	Virtual Robotics/Mechatronics Laboratory - Development (coordination, dynamics model development for several industrial robots)
<b>Industrial Process Control</b>	Water Distribution System, Drying system, AC motor – programming PLCs and SCADA application
<b>Digital control of the electric drives</b>	AC motor control based on IFOC (Indirect Field Oriented Control)
<b>Embeded Systems</b>	Data acquisition and system control using DSP (Texas Instruments)
Publications	
<b>Journals:</b>	<p>V. Potkonjak, M. Vukobratovic, K. Jovanovic, M. Medenica, “Virtual Mechatronic/Robotic laboratory - A step further in distance learning”, <i>Computers &amp; Education</i> 55 (2010) pp 465-475</p> <p>V. Potkonjak, B. Svetozarevic, K. Jovanovic, O. Holland, “Control of Noncompliant and Compliant Antagonistic Tendon Drives in Robotic Systems”, Submitted to: <i>The International Journal of Humanoid Robotics</i>.</p> <p>V. Potkonjak, B. Svetozarevic, K. Jovanovic, O. Holland, “Dynamics and Control of a Compliant Anthropomimetic Robot”, Submitted to: <i>Robotica</i>.</p>
<b>Conferences:</b>	<p>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, November 2010. pp 182-189</p> <p>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</p>
<b>Domestic conferences:</b>	<p>K. Jovanovic, B. Svetozarevic, “Humanoid Robot Model with Antagonistic Drives”, <i>The 54<sup>th</sup> ETRAN Conference</i>, Donji Milanovac, Serbia, June, 2010. pp RO1.3 - 1-4</p> <p>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</p>