

Curriculum Vitae

Maja Trumić, MSc El.Eng.

Personal

Name: Maja B. Trumić

Born: 18th of September 1993, Bor, Serbia

Citizenship: Serbian

Industry: Robotics and Automation

Research interest: adaptive & robust control, robotics, system modeling and simulation

Current position: Ph.D. student, ETF Robotics laboratory ([link](#)), Department of Signals & Systems ([link](#)), School of Electrical Engineering ([link](#)), University of Belgrade ([link](#)), University of Palermo([link](#))

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Education

PhD degree
(2017-present) Bilateral PhD program – University of Palermo, Italy and School of Electrical Engineering, University of Belgrade

Masters degree
(2016–2017) School of Electrical Engineering, University of Belgrade
Department: Signals & Systems / *Field:* Control systems & Signal processing
GPA: 10.00 (out of 10.00)
Master thesis: “Analysis of low power DC motors vibration signals using wavelet analysis”
Supervisor: Željko Đurović

Dipl. Ing. degree
(2012–2016) School of Electrical Engineering, University of Belgrade
Department: Signals & Systems / *Field:* Control systems & Signal processing
GPA: 9.76 (out of 10.00)
Diploma thesis: “Autopilot design for the self-guided short-range air-to-surface missile”
Supervisor: Stevica Graovac

Experience – Professional engagements

Master student
4/2017 – 10/2017 Robert Bosch GmbH, Buehl, Germany, Department: Electrical drives, Manufacturing technology. (www.bosch.de)

Intern
7/2016 – 10/2016 Robert Bosch GmbH, Renningen, Germany, Department: Corporate research, Production automation. (www.bosch.de)

Intern
4/2016-5/2016 Military Technical Institute, Belgrade, Serbia, Task: Autopilot design and guidance law simulation for short-range missiles. (www.vti.mod.gov.rs)

Intern
8/2015-9/2015 Military Technical Institute, Belgrade, Serbia, Task: Missile sensor signal processing. (www.vti.mod.gov.rs)

Student projects

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| 2016-2017 | <ul style="list-style-type: none"> • Wavelet analysis of acoustic signals from good and defected internal combustion engines • Robust and nonlinear control of Triple inverse pendulum using H_{∞} mixed sensitivity, H_{∞} loop-shaping control and μ optimal control • Designed and simulated modified robust Kalman filter for target tracking |
| 2012-2016 | <ul style="list-style-type: none"> • Analysis and simulation of nonlinear systems: Non-inverting buck-boost converter, Isothermal continuous stirred reactor (CSTR) and Heliocran • Applied control: PID regulator, feedback linearization, sliding mode control and fuzzy logic control • PID controller using a microcontroller is implemented for real-time control of aerodynamic levitation of the ball and thermo regulation of the drier. • Solved three practical problems in speech recognition field: estimated pitch frequency and segmented speech, modeled and evaluated several quantizers and designed a Hidden Markov chain. • Examined methodically nonlinear and multivariable Three tank system, designed conventional multivariable control laws, in detail obtained closed-loop performance and stability in time and frequency domain • Designed and implemented “Smart home” in LabVIEW Software • Worked on designing Bayes classifier and sequential test, design of linear and quadratic classifier and clustering data • Designed and implemented: a direct digital control system on ASM motor, a sequential process control using PLC and a system for control and monitoring processes (SCADA) in Totally Integrated Automation Portal |

Awards

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|-------------|---|
| 2017 | Scholarship of University of Palermo for bilateral doctoral studies |
| 2016 | Foundation for Young talents – Dositeja (Ministry of Youth and Sport) scholarship for 400 best final year Master students |
| 2016 | “Zoran Djindjic Internship Programme of German Business” scholarship for professional education in Germany |
| 2015 | Foundation for Young talents – Dositeja (Ministry of Youth and Sport) scholarship for 800 best final year Bachelor students |

Activities

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|--------------------------|---|
| 10/2016 - present | Zoran Djindjic internship programme of German business scholarship holders - alumni club
(http://www.stipendienprogramm.org/) |
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Other skills

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|-------------------------|---|
| Languages: | English (advanced)
German (basic)
French (basic) |
| Computer skills: | MS Office / Internet
Tools - Matlab & Simulink, Mathematica, LabVIEW, FAMOS, C/C++ |
| Course: | TIA Micro1, Siemens, 2016. |

Certificate: Certified LabVIEW Associate Developer

Personality: enthusiastic, independent, ambitious, hardworking, problem solving, positive, team player, creative