



CURRICULUM VITAE MSc Igor Lopušina

Affiliation: University assistant (PhD student)

University of Innsbruck, Institute of Mechatronics,

Innsbruck Power Electronics Lab. (i-PEL)

Street Address: Technikerstrasse 13
City: 6020, Innsbruck, Austria
Phone: +43 (0)676 6028 996
e-mail: igor.lopusina@uibk.ac.at



PERSONAL DATA

Date of birth: 16th, October, 1994.

Place of birth: Belgrade, Republik of Serbia

EDUCATION

- Ph.D (October 2019–present)
 - Dissertation expose: "Advanced Topics on Partial Power Rated Converter Topologies with Utilization of the Wide Band-Gap Semiconductor Devices", Innsbruck Power Electronics Laboratory (i-PEL), the University of Innsbruck, Austria.
- MSc. E.E. (2 years program, July 2019.)
 - Master thesis: "Modeling of the Modular Multilevel Converter in Hardware in the Loop Environment," École Polytechnique Fédérale de Lausanne, Electrical and Electronic Section, Power Electronics Laboratory, Switzerland.
- B. Sc. E.E. (4 years program, July 2017.)
 - Diploma thesis: "Open-Loop High Precision Sensing of DC Bias in 0.4 kV AC Grids," The School of Electrical Engineering, the University of Belgrade, Serbia.

EMPLOYMENT & PROFESIONAL ACTIVITES

October 2019 - Present

University assistant

Innsbruck Power Electronics Laboratory (i-PEL), Institute od Mechatronics, University of Innsbruck, Innsbruck, Austria

September 2018 - March 2019

Intern

European Organization for Nuclear Research (CERN), Genève, Switzerland

© *i-PEL* Page 1 of 2





February 2018 - Jun 2018

Student member

EPFLoop team for hyperloop pod competition, École Polytechnique Fédérale de Lausanne, Switzerland.

February 2017 - Jun 2017

Student member

Road arrow Belgrade: Formula student team, University of Belgrade, Serbia.

September 2016 - October 2016

Intern

Company Elektrovat, Čačak, Serbia.

ON-GOING R&D PROJECTS

[PR 1] Partial Power Rated Battery Interface Power Converter for Three-phase Grid Applications

 Battery interface dc/dc converter, rated power 30kW, Efficiency more than 99.5% (expected), power density 50[kW/dm³] (expected).

RESEARCH INTEREST

- DC to DC conversion networks, specifically DC to DC partial power rated converter
- Application, control and driving techniques for advanced power semiconductor devices (specifically GaN HEMTs)
- Electromagnetic compatibility

Academic and Teaching Activities

- [L 1] Power Semiconductors, 3rd semester, Curriculum Electrical Engineering
- [L 2] Power Electronics & Electric Drives, 5th semester, Curriculum Electrical Engineering
- [L 3] Electrical Power Engineering & Electric Drives, 5th semester, Curriculum Mechatronics

LANGUAGES

Serbian-Native, English-Fluent, Russian-Intermediate, German-Basic.

© i-PEL Page 2 of 2