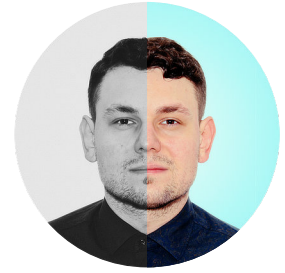


LUBOMÍR ŠKVARENINA



PERSONAL

12th June, 1989 · Partizánske
Slovak nationality

CONTACT

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EXPERIENCE

Oct. 2020 — Present

Postdoctoral Researcher · Complex Photonics · Microphotonics · Institute of Scientific Instruments · Development of Imaging Methods for Multimode Fiber Endoscopes for Minimally Invasive Deep Tissue Imaging
The Czech Academy of Sciences

Jan. 2016 — Sep. 2020

Research Assistant · Department of Physics · Faculty of Electrical Engineering and Communication · Identification and Analysis of Failure-Inducing Microstructural Defects in Thin-Film Chalcopyrite-Based Solar Cells
Brno University of Technology

Jan 2015 — Dec. 2015

Research Technician · Advanced Nano and Microtechnologies · Materials Characterization and Advanced Coatings · Samples Preparation · Setup of Laboratory Instruments · Specific Sample Characteristics Measurements · Data Analysis
Central European Institute of Technology

PROJECTS

Oct. 2020 — Present

SuperPixels · Redefining Sensor Technology · Integrated Photonics Device Based on Mesh of Mach-Zehner Interferometers · Dynamic Phase and Polarization Mapping · Full Transformation of Incident Optical Field · Fiber Calibarion · Particle Tracking
The Czech Academy of Sciences

Jan. 2018 — Dec. 2019

SIX Research Centre · Automated System for Removing Unwanted Metal Particles
Technology Agency of the Czech Republic

Jan. 2014 — Dec. 2018

Internal Grant Agency · Innovative Methods for Diagnostics of Optical and Electrical Properties of Organic and Inorganic Materials and Structures · Development of Advanced Methods for Diagnostics of Electrotechnical Materials and Components
Brno University of Technology

EDUCATION

Sept. 2014 — July 2021

Doctor's degree · Physical Electronics and Nanotechnology · Electrical Engineering and Communication · Doctoral Dissertation: *Thin-film Solar Cells Characterization and Microstructure Defect Analysis*
Brno University of Technology

Sept. 2012 — June 2014

Master's degree · Communications and Informatics · Electrical, Electronic, Communication and Control Technology · Master Thesis: *Signal Interpolation Using NURBS Curves*
Brno University of Technology

Sept. 2008 — Aug. 2012

Bachelor's degree · Teleinformatics · Electrical, Electronic, Communication and Control Technology · Bachelor Thesis: *Image Dithering Methods*
Brno University of Technology

Sept. 2004 — June 2008

Technical School · Electrical Engineering · Information and Telecommunication Systems
Secondary School · Piešťany

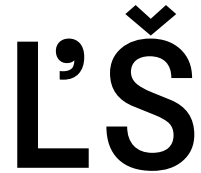
SOCIAL

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ENGINEER



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AWARDS

Apr. 2018

Brno University of Technology
Student EEICT · 24th Student Conference · 1st Place in Theoretical Electrical Engineering, Physics and Mathematics · Research Paper: *Dark J-V Characteristics Model of Chalcopyrite-Based Solar Cells*

Sept. 2015

Gdansk University of Technology
IOP Publishing · 39th International Microelectronics and Packaging IMAPS Poland Conference · Journal of Physics: Conference Series Prize · Research Paper: *Noise and Optical Spectroscopy of Single Junction Silicon Solar Cell*

Apr. 2008

Regional Committee · Trnava
Student's Professional Activities · 30th Regional Competition · Microprocessor, Computing and Telecommunication Technology · Designed Product: *Universal Interface for Windows via Serial Port*

COURSES

Sept. 2012 — Dec. 2012

Brno University of Technology
Theory of Communication · Optical Networks · Information and Communication Technologies Courses · Department of Telecommunications

Sept. 2011 — Dec. 2011

Brno University of Technology
CISCO Networking Academy · Cisco Certified Network Associate · Routing and Switching · Department of Telecommunications

WORKSHOP

12th — 17th June 2018

Nanometer Structures Division
Physics at Nanoscale · 16th IUVSTA International Summer School · Nanostructures, Surface and Thin Films · Nano-Optics and Photonics · Nanostructured Solar Cells · Nanoelectronics and Spintronics · Chemistry and Life Science Applications

LANGUAGES

Slovak · Native
Czech · Fluent
English · Intermediate
German · Beginner

EXPERTISE

Thin-Film Chalcopyrite-Based Solar Cells · Microscopy Analysis (SEM | FIB | EDX) · Digital Signal and Image Processing · Transport Characteristics Modeling · Spectrally-Filtered Electroluminescence and Lock-in IR Thermography Imaging · Low Frequency Noise Diagnostics · Metallographic Specimen Preparation

INTERESTS

3D Modeling · 3D Printing
Graphic Design · Animation
Indoor Rowing · Pilates
Mountain Biking · Running

SKILLS

MATLAB · Advanced
AutoCAD · Advanced
LabView · Intermediate
LaTeX · Intermediate

REFEREES

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