

MICHAEL KROKER






Profile

Ph.D. student at Masaryk University, Brno (Czech Republic)
Creative and problem-solving researcher
Highly experienced in result reporting
Ability to communicate with industrial partners and other associates

Education

- 2018 – present **Plasma Physics, Masaryk University, Brno**
Doctoral degree program
Thesis: *Magnetron sputtered hard ternary coatings with enhanced fracture toughness*
- 2016 – 2018 **Plasma Physics, Masaryk University, Brno**
Masters' degree program (Graduating with Honors)
Thesis: *Deposition and Characterization of Nanolaminates*
- 2013 – 2016 **Nanotechnology, Masaryk University, Brno**
Bachelor's degree program (Graduating with Honors)
Thesis: *Development of Industrial Technology for deposition of DLC Thin Films*

Contact

-  on request
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Highlighted skills

- ✓ Experiment data processing
- ✓ Industry collaboration
- ✓ Results reporting
- ✓ SEM imaging
- ✓ Python programming

Technical skills

- ✓ High-Vacuum systems
- ✓ SEM / EDS / WDS
- ✓ Raman spectroscopy
- ✓ XRD
- ✓ 3D profilometry
- ✓ Confocal microscopy

Hobbies

- Electronics
- Cycling
- Running
- Hiking

Work Experience

- 2019 – present **Researcher, Masaryk University, Brno**
Research management, Developer
Developing of industrial process to deposit nanolaminate ternary metal-boron-carbide thin films.
- 2015 – 2019 **Part-time cooperation, Masaryk University, Brno**
Member of a research group that focuses on the magnetron sputtering. Specialization in thin film deposition, analysis of thin films and simulation of the sputtering process.
- 2013 – present **Network manager, IT support, ETOURS, Uherské Hradiště**
Management of computer network and technical support at a small company

Skills

Experiment data processing, analysis and results reporting

Confident in the use of graphing software like OriginLab as well as open-source QtiPlot, Plotly

Software development using Python and MATLAB

Simulation of magnetron sputtering process (SIMTRA, SRIM/TRIM, SDtrimSP)

Experienced in IT support and company networking

Highly skilled in SEM imaging and EDX chemical analysis

MS Office (Word, Excel, PowerPoint, Access), LATEX, Web Design

Publications

List of all publications available at www.kroker.cz