Ing. Lukáš Děkanovský, PhD

PhD in nanotechnology of semiconductors
&
Python developer junior
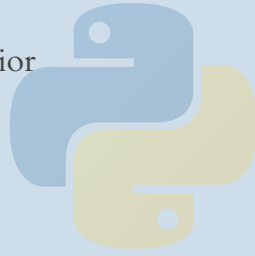
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ABOUT ME

During my master's and Ph.D. studies, I worked on multidisciplinary scientific projects focused on nanomaterial technology for biomedical and energy applications.

I am excited in analytical and problem solving tasks, analytical thinking, focused on process improvement and smart solutions, resulting in increased efficiency and cost savings.

Last year I am intensively participating in many courses, bootcamps and self-educating activities in the area of Python programming. Last but not least I am actively developing basic tools using Machine learning concepts for image recognition and data evaluation.

CAREER GOAL

I would like to use my analytical and logical skills, fondness for solving puzzles and complicated challenges in area of IT WebApp or MobileApp development.

From this reason I am intensively improving my programming skills and absorbing new concepts and technologies in this area. Making new smart software solutions is my biggest career wish for the future.

SPECIALIZATION

Programming tools:
Python (OOP)
Machine learning
SQL
VS Code
GitHub

Basics of:
C#

Graphical tools:
Unity
Blender
Origin

CERTIFICATION

BeeIT - Python and Machine learning 2022-2023

Work Experiences

Scientific researcher
UCT Prague
2015 - 2024

- Material engineering and data analysis/evaluation
- Design and optimalization of energy storage/conversion devices with the using of the 3D printing techniques
- Design and preparation of 2D semiconductors and devices
- Design and testing of semiconductive coatings
- Electron microscopy
- 50 + publications with more than 500 + citations

Education

Education		Topic	
PhD -	**Nanotechnology**	Smart semiconductors	2019/23
MSc. -	**Material enginering**	Antibacterial coatings	2017/19
BSc. -	**Material enginering**	Laser litography	2014/17

Key Skills

Broad **application and theoretical** expertise in nanotechnology
- **Biomedicine** – antibacterial materials, anticancer therapy and tissue engineering
- **Semiconductors**
  Preparation and chemical modification of inorganic 2D semiconductors
  Mechanical, electrochemical and chemical exfoliation of the bulk materials
  CVD and CVT techniques of monocrystal growth
- **Smart materials** – multifunctional organic coating with response to light, pH, temperature or electric voltage

Data analysis and theoretical calculations, statistical evaluation
- Python + Machine learning

Laboratory device/product development and prototyping
- Design of the experimental device and implementation of customer needs
- 3D printing

Scientific **project management**
- Both Czech and EU founding

Soft Skills

- Analytical thinking
- Organization and problem–solving abilities
- Adaptibility
- Teamwork
- Creativity
- Identification of areas for improvement and implement effective solutions resulting in increased efficiency and cost savings
- Leadership and work ethic
- Excellent communication and collaboration skills in a multicultural environment

Portfolio
github.com/lukasdekanovsky