

EN

Prepnúť na Slovenskú verziu ↓

<https://ivanmahdik.sk/cvsk>

Ivan MAHDÍK

Curriculum Vitae



june /1988



Brno, Czech Republic

+421 917 623 425
+420 720 635 426ivanmahdik@ivanmahdik.sk<https://www.linkedin.com/in/ivanmahdik/><https://www.facebook.com/ivan.mahdik.7><https://ivanmahdik.sk><https://eueslab.eu><https://spaceproton.com>

Design by Ivan Mahdík, rev. 20032025

WORK EXPERIENCES

08/2024 - Present

R&D electrical engineer

Britec s.r.o., Brno CZ
Customer R&D of electronic, PCB design, revival, testings, production support. Leading the team across projects and designing the concept of entire projects.

01/2024
08/2021

Senior R&D electrical engineer

NenoVision s.r.o., Brno CZ
R&D of electronics for an atomic force microscopy. Development of electrical circuits, PCB design, revival, testings, production supports and maintaining products throughout products life.

08/2021
06/2014

Electronic Engineer

Rockwell Automation s.r.o., Brno CZ.
Reverse engineering and repairs of industrial electronic equipments, repress of electronics, revival, programming and tests.

05/2014
12/2013

Supervisor SMT division

Neways Slovakia a.s., Nová Dubnica.
SMT team management, SMT technology programming, production planning, quality monitoring.

12/2011
12/2009

Repair technician at European repair centre

Delta Electronics Slovakia s.r.o., Dubnica nad Váhom.
Reverse engineering and repairs of industrial sources, UPS and distribution and network systems of Delta Electronics products in the European service center for the Switzerland Bern division.

EDUCATION, TRAINING AND CERTIFICATES

2022

Decree 50 §6 (CZ)

Electrical competence.

2007 - 2008

Electronic equipment mechanic

SOU S a E, Dubnica nad Váhom

2003 - 2007

Electromechanic of CNC machines

SOU S a E, Dubnica nad Váhom

2019

Driving license B (passive)

LANGUAGES

| | |
|----|------|
| SK | born |
| EN | A2 |
| CZ | B2 |

PROGRAMMING LANGUAGES

| |
|----------------|
| C/C++ |
| Assembler |
| XHTML 1.0, CSS |

SOFTWARE

| | | |
|---------------------------------|-------------------------------|---|
| Autodesk Eagle, Altium, LTspice | Autodesk Fusion 360, Inventor | Microchip studio, Visualstudio, Eclipse |
| Windows, Linux | Wordpress, Elementor | Adobe premiere, Davinci Resolve |
| Ableton Live | Adobe Photoshop, Inkscape | MS Office |

R&D ELECTRONICS

- AVR
- PCB design
- Schematic design
- Semiconductors
- Analog, Digital
- Reverse engineering
- Repairing SMD/THT PCB

OTHERS

- SMT
- Kaizen
- 5S
- 3D mechanical design
- Graphic design
- Professional photography
- Film production
- Sound design
- Web design

PROJECTS

2023 - 2024

Piezoelectric positioner

High-speed, high-voltage pezoelectric positioner driver to atomic force microscope. <https://eueslab.eu/piezocontroller>

2020 - Present

INCUS

The INCUS project is a precise high-end audio amplifier operating in the Quasi-AB class. The design solution is focused on precise control circuits, control of ground loops, selective high-quality filtering of power supply circuits and precise terminal blocks of the amplifier itself made of first-class components and materials. <https://eueslab.eu/incus>

2022

NenoBox 2.0

NenoBox 2.0 is the new LiteScope™ 2.5 control unit. My task was a complete redesign and tuning of the electronics and project management.

2021

LiteScope™ GANIL

LiteScope™ is an atomic force microscope (AFM) designed for easy integration into a variety of scanning electron microscopes (SEMs), enabling in-situ correlative nanoscale sample characterization. My task was to redesign the LiteScope™ electronics, PCB design and ultra high vacuum (UHV) cabling, customize the control unit and develop other features. <https://eueslab.eu/uhvelectronics/>

2019 - 2021

TriloBITE 2560 PRO

A programming module inspired by the ARDUINO platform, but offering freer access to all ports of the ATmega2560 microcontroller. <https://eueslab.eu/trilobite2560pro>

2012 - Present

EUES LAB (Experimentally Unconventional Electronics Systems Laboratory)

Research and Development of experimental unconventional systems. <https://eueslab.eu>

Before more projects

