Prepnúť na Slovenskú verziu

https://ivanmahdik.sk/cvsk

Ivan MAHDÍK

Curriculum Vitae

june /1988

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https://eueslab.eu
https://spaceproton.com

Design by Ivan Mahdík, rev. 02102025

WORK EXPERIENCES

08/2024 - present — **R&D manager**
Britec s.r.o., Brno CZ
Customer requirements gathering, feasibility study, proof-of-concept, project initiation. Supporting colleagues in developing electrical custom electronics. Design of critical key parts of the project.

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, repass 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