



Mario Klobučarić

Software Developer

👤 Profile

Electronics engineer with a diverse background that bridges coding, engineering, and leadership.

My enthusiasm for continuous learning and problem-solving, coupled with a multidisciplinary background, empowers me to thrive in diverse teams and navigate complex challenges with agility.

📁 Employment History

Software developer at techXflow d.o.o. (self-employed)

March 2024

- Software development
- AI/ML, LLM, AI Agents, RAG

Teacher & Head of Regional Competence Center at Technical School Čakovec, Čakovec

September 2018 — November 2023

- **Led Comprehensive Lectures and Workshops:** Covered a wide array of subjects, including coding, embedded systems, robotics, automation, and business communication, with a strong emphasis on the pivotal role of software in engineering
- **Promoted a Culture of Experimentation:** Fostered a learning environment that encouraged trying new things, practical application of theoretical knowledge, and viewing mistakes as essential learning steps.
- **Developed Project Skills and Implementation:** Guided students in acquiring project management and implementation skills, ensuring they could translate classroom learning into real-world solutions.
- **Innovated Teaching Methods:** Continually refreshed teaching strategies to incorporate new, practical approaches, focusing on hands-on experience and the development of practical skills essential for future challenges
- **Played a prominent role in the implementation of two EU projects** (EBRD - European Fund for Regional Development, ESF - European Social Fund) valued at €7.5 million
- **Spearheaded multiple project-based initiatives** such as drafting procurement specifications, organization of events, educational visits, partnerships

Previous Experience

June 2006 — July 2018

- Played key roles including Leadership in International Projects & Sales, Agency Director, Licensed Designer, Electrical Systems Designer, and Development Engineer, contributing to a broad range of projects.

Details

Croatia

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Links

[Personal Page](#)

[Self-employed Page](#)

[LinkedIn](#)

[GitHub](#)

Skills

Python

LLMs

RAG & Vectorbases

OpenAI API

REST APIs

Data Science & ML

Flutter

VS Code

Jupyter Notebook

Git/GitHub

GCP

Languages

Croatian

English

German

Hobbies

Reading: Technology & Future, People & Mindset, Personal Growth

Others: Running, Playing Guitar

🎓 Education

56 ECTS, Faculty of Organization and Informatics, Varaždin

2017 — 2018

- Specialization: Teachers Education
(Pedagogical/Psychological/Didactic/Methodical)
- GPA: 4.55/5

University Specialist of Strategic Entrepreneurship, 60 ECTS, Faculty of Economics, Zagreb

2008 — 2011

- Thesis: Leadership in Social Responsibility & Social Entrepreneurship
- GPA: 4.6/5

Graduate Electrical Engineer (Industrial Electronics), 274 ECTS, Faculty of Electrical Engineering and Computing, Zagreb

2000 — 2005

- Thesis: Multichannel Receiver for Surface Electromyography
- GPA: 4.15/5

Natural Science and Mathematics Gymnasium, Čakovec

1996 — 2000

Awards: 1st (3x) & 3rd (3x) in County Mathematics Competitions (13-18 years)

⚙️ Courses

Various online courses on topics: Python, LLMs, RAG, Vector Databases, Data Science, ML, Flutter, GCP and similar, - Udemy, DeepLearning.AI

2019 — 2024

★ Personal projects

2019 — 2024

- Educational Assistant App Study Buddy - Frontend (Flutter), Backend (Flask)
- Machine learning manual based on Kaggles Titanik dataset
- Robotic arm system with Python GUI on Raspberry PI.
- ComfortClick-based home automation with integrated security and adaptive heating (KNX & Modbus).
- Raspberry PI web server for environmental data visualization.
- 3D printed foldable drone with betafight.
- Personal and company webpage.