# Image 1Mario Klobučarić

Artificial Intelligence Engineer

Image 2 **Profile**

I am an Artificial Intelligence Engineer with 5 years of experience in software development, teaching coding, and automation. My expertise lies in building AI applications, software development, and data engineering.

With prior 10 years of experience, I possess a comprehensive perspective on problem-solving and solution-finding. This is complemented by my effective business communication skills and project management experience, gained from leading and contributing to various projects.

## Employment History

### Artificial Intelligence Engineer at techXflow d.o.o. (self-employed)

November 2023

* + **AI Product Management:** Assessing technical feasibility of AI products, leading iterative development, implementing

data-centric approaches, managing ambiguity, and fostering continuous learning.

#### AI Product Development:

Large Language Models (LLM):ChatGPT, Claude, Gemini, Open-source models

Retrieval Augmented Generation (RAG), AI agents

* + **Software Development:** Python, SQL, JavaScript (React)
  + **Data Engineering:** ETL (Extract, Transform, Load) pipelines
  + **Cloud Platforms:** GCP and AWS

### Teacher & Head of Regional Compeatence Center at Technical School Čakovec, Čakovec

September 2018 — November 2023

* + **Led Comprehensive Lectures and Workshops:** Covered subjects, including coding (Python, Flutter), automation, and business communication.
  + **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.
  + **Played a prominent role in the implementation of two EU projects** valued at €7.5 million

### Head of International Projects and Sales Network at ENERGY PLUS d.o.o., Ludbreg

January 2016 — July 2018

* + Supported top-tier international clients and presented the company at fairs
  + Worked on LED lighting projects documentation and investment projects, emphasizing Energy Performance Contracting.

### Details

Croatia 00385992656398

[mario.klobucaric@gmail.com](mailto:mario.klobucaric@gmail.com)

**Links** [Personal Page](https://mklobucaric.github.io/) [Company Page](https://www.techxflow.xyz/) [LinkedIn](https://www.linkedin.com/in/mklobucaric/) [GitHub](https://github.com/mklobucaric)

### Skills

Python JavaScript/React SQL

LLMs (ChatGPT, Claude, Gemini)

RAG & Vectorbases REST APIs

Data Science & ML Flutter

VS Code/ Cursor Jupyter Notebook Git/GitHub

GCP / AWS

Firebase fastAPI Docker

Langchain/LangGraph crewAI

LangSmith

### Languages

Croatian English German

### Agency Director at Međimurska energetska agencija d.o.o., Čakovec

January 2013 — January 2016

* + Directed agency operations, resource management, growth strategies and successfully transformed the agency's financial standing toward complete self-sustainability.
  + Managed multiple energy-focused projects and campaigns, promoting, and implementing energy efficiency and renewable energy adoption.

### Licensed Designer at DORS PROJEKT d.o.o., Čakovec

August 2010 — December 2012

* + Designed electrical installations for various sectors, including “smart home” and photovoltaic plants.
  + Consulted on renewable energy regulations and privileged producer status.

### Designer at ZG-PROJEKT d.o.o. , Zagreb

November 2007 — July 2010

* + Designed electrical installations for highways, tunnels, and road lighting
  + Estimated savings for lighting fixture replacements

### Development Engineer at V-elin d.o.o., Čakovec

June 2006 — September 2007

* + Assisted in digital/analog system development and contributed to water monitoring projects.
  + Prepared technical documentation and supported related software.

### Hobbies

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

Others: Running, Playing Guitar

## Image 12 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)

Image 13 **Courses & Certifications**

### Generative AI Leader, Google Cloud Certification

July 2025

### DeepLearning.AI: Data Engineering (AWS) - Professional Specialization, Coursera

October 2024 — December 2024

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

2019 — 2024

## Projects

* + AI-Powered Web-based Platform for Energy-Efficient Renovations and Renewable Energy Consulting
  + Agentic workflows + RAG
  + MCP server + Claude Desktop
  + Text to SQL agentic app with open-source models
  + 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
  + Raspberry PI web server for environmental data visualization
  + Webpages