Marko Putak

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EDUCATION

Zagreb University of Applied Sciences, Croatia
Bachelor of Engineering in Electrical Engineering
with specialization in Control and Computer Engineering in Automation — Sep 2017 – Jul 2022

- Final Thesis: Electrical Scheme Digitization Using Deep Learning Methods
- Commendation for outstanding success in studies

X. Gymnasium "Ivan Supek"
Bilingual science and mathematics gymnasium program — Sep 2013 – Jul 2017

WORK EXPERIENCE

ENEL ATM d.o.o., Croatia
Junior Automation Engineer — Feb 2022 – present

- Pfizer DS2 facility project – Signal processing, Automation, SCADA

Quizlet inc., Croatia
Content Contributor — Feb 2021 – Feb 2022

- Created comprehensive and detailed solutions for complex mathematical problems at an academic level

SKILLS

Technical skills	• **Python**, **C**, **MATLAB**, **Linux**, **Bash**, **GIT**, **HTML**, **CSS**, **LaTeX**
Languages	• Croatian (native), English (C1), German (basic)
Interests	• Computer Vision, Machine Learning, Computer Architecture, Algorithms, Mathematics

HIGHLIGHTED PROJECTS

Final Thesis
www.github.com/mputak/circuitrecognition

The goal of this project is to generate a fully functional LTspice electrical circuit that can be simulated. The user submits a hand-drawn electrical circuit, which is processed by a custom-trained Deep Learning model and undergoes data processing to reach the final state.

Tools & Technology: Algorithms, Deep Learning, PyTorch, Image processing, Dataset manipulation, Numpy

– *Note:* The Final Thesis is, at the time of writing, being published as a research paper.

Meeting Summarizer
www.github.com/mputak/MeetingSummarizer

The purpose of the project is to give the user ability to fully focus on the task at hand while recording spoken words in the background via a simple audio player. After the recording is stopped, the program outputs a summarized version of the recorded audio with great accuracy.

Tools & Technology: Algorithms, Deep Learning, Audio processing, Concurrency programming, Natural Language Processing

Image Depth
www.github.com/mputak/ImageDepth

The main usage of this project is to use a state-of-the-art diffusion-2-depth model to redesign the original input image per user-defined prompt.

Tools & Technology: Algorithms, Latent Diffusion, PyTorch, Image processing, Text encoder