

MATOUŠ MELECKÝ

Postgraduate Informatics Student

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Munich, GERMANY

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EDUCATION

High School

Gymnázium Josefa Kainara

2012 - 2018

Hlučín, CZECH REPUBLIC

Graduated with full marks.

Undergraduate

Faculty of Electrical Engineering, Czech Technical University in Prague

2018 - 2021

Prague, CZECH REPUBLIC

Open Informatics program, specialization in Artificial Intelligence and Computer Science.

Graduated with honours.

prg.ai minor

Czech Technical University in Prague, Charles University

2019 - 2021

Prague, CZECH REPUBLIC

Selective minor bachelor program encompassing artificial intelligence courses from the best universities in the Czech Republic.

Erasmus

Technical University in Munich

2021 - 2022

Munich, GERMANY

I studied a various subjects related to machine learning and computer vision.

Master's

School of Computation, Information and Technology, Technical University in Munich

2023 - ongoing

Munich, Germany

Informatics program, specialized in computer vision and machine intelligence.

WORK

Robot Software Engineer

Magazino

2021 - ongoing

Munich, GERMANY

I am working in the Perception team on various computer vision problems and data analysis, enabling the robots to efficiently perceive the environment and function reliably at real-life customer operations.

EXPERIENCE

Rotary Youth Exchange

2016 - 2017

Dubbo, AUSTRALIA

A selective high school exchange programme funded by Rotary.

I participated in fundraising events for rural communities in Australia.

TED translator

2015 - 2017

Volunteer translator of TED conference videos from English to Czech.

Summer School of Algorithms

FEE CTU

2019

Intensive summer course on algorithms and data structures.

TECHNICAL SKILLS

Programming languages

Python

C/C++

Java

Haskell

Scheme

Bash

Matlab

SQL

HTML

CSS

JavaScript

BigQuery

Libraries and frameworks

OpenCV

ROS

Open3D

Isaac Sim

Numpy

SciPy

Pandas

PyTorch

Tensorflow

scikit-learn

Node.js

Electron

Three.js

Organization tools

git

Jira

Others

Looker Studio

LANGUAGES

Czech



English



German



PROJECTS

Student Researcher

Multi-Robot Systems, FEE CTU, Department of Cybernetics

📅 2019 – 2021

📍 Prague, CZECH REPUBLIC

Since the first year of bachelor studies I have participated in research with the MRS group on the **historical monument documentation project** undertaken in cooperation with the Czech National Heritage Institute.

I worked on creation of 3D models from data collected by drones and on **3D model viewer and annotation framework**.

Bachelor Thesis

Multi-Robot Systems, FEE CTU, Department of Cybernetics

📅 2020 – 2021

Topic: designing a real-time version of **Structure From Motion** algorithm for creation of dense map of environment built on top of openVINS visual-inertial estimator, which is employed on a UAV equipped with monocular camera and IMU.

Group project: Movements Make the Human

Technical University of Munich

📅 2022

I was leading a group of students tackling a practical project as part of a subject Clinical Applications of Computational Medicine.

Topic: use of accelerometry data from a belt to aid the identification of the user during a clinical trial.