MATOUŠ MELECKÝ

Postgraduate Computer Vision Student

@ melecky.matous@gmail.com   📍 Prague, CZECH REPUBLIC   🌐 melecmat.github.io
🐙 melecmat   in LinkedIn

EDUCATION

High School
Gymnázium Josefa Kainara

📅 2012 – 2018   📍 Hlučín, CZECH REPUBLIC

Graduated with full marks, subjects: English, Mathematics, Czech.
Completed facultative exam from Advanced Mathematics (Matematika+).

Undergraduate
Faculty of Electrical Engineeering, Czech Technical University in Prague

📅 2018 – 2021   📍 Prague, CZECH REPUBLIC

Open Informatics programme, specialization in Artificial Intelligence and Computer Science.
Graduated with honours.

Master's
Faculty of Electrical Engineeering, Czech Technical University in Prague

📅 2021 – ongoing   📍 Prague, CZECH REPUBLIC

Computer Vision and Image Processing

prg.ai minor
Czech Technical University in Prague, Charles University

📅 2019 – 2021   📍 Prague, CZECH REPUBLIC

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

Erasmus
Technical University in Munich

📅 2021 – 2022   📍 Munich, GERMANY

PROJECTS

Student Researcher
Multi-Robot Systems, FEE CTU, Department of Cybernetics

📅 2019 – Ongoing   📍 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 work on creation of 3D models from data collected by drones and on **3D model viewer and annotation framework**.

EXPERIENCE

Rotary Youth Exchange

📅 2016 – 2017   📍 Dubbo, AUSTRALIA

A selective exchange programme funded by Rotary clubs – only one student from the Czech Republic is selected for Australia.
I studied at **St Johns College** in Dubbo, lived with local families and 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 advanced algorithms and data structures.

TECHNICAL SKILLS

Programming languages

C/C++   Python   Java   Haskell   Scheme   Bash   Matlab   SQL   HTML   CSS   JavaScript   PHP

Libraries and frameworks

OpenCV   ROS   Numpy   SciPy   Pandas   Tensorflow   scikit-learn   Node.js   Electron   Three.js   A-Frame   Handlebars
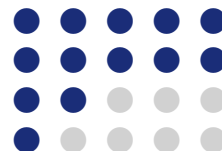
LANGUAGES

Czech ●●●●●
English ●●●●●
German ●●●○○
Spanish ●●○○○

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 will be employed on a UAV equipped with monocular camera and IMU.