

EXPERIENCE

Research and teaching assistant

West Pomeranian University of Technology

📅 10.2017 – present

📍 Szczecin

Research projects/papers:

- Event camera-based control of mobile robots.
- Detection and controlling drone Parrot ANAFI with **depth camera** ZED 2i and 3D Sparse Convolutional Neural Network implemented in **PyTorch** and **SpConv**.
- Vision-based mobile robots control using the **YOLO** detector, **OpenCV** and **MQTT** server.
- Robotic arm pose estimation using **depth camera** Intel RealSense and 3D CNN in **PyTorch** and **SpConv**, data preprocessing in **Scikit-learn**, **Open3d**, **Pandas**.

Teaching subjects such as Python programming language, discrete mathematics, numerical analysis, artificial intelligence, data processing and analysis; taught Erasmus students stochastic optimization.

Machine Learning Engineer

BTC Sp. z o. o.

📅 04.2021 – 07.2023

📍 Szczecin

Work as part of the Artificial intelligence in IT management and security project.

- Preparation of face detection and recognition functionality and server implementation using **PyTorch**, **OpenCV**, **FastAPI**. Containerization in **Docker**. Creation of NoSQL database **MongoDB**.
- Working on the Named-entity recognition task for text documents – data preparation and training models in the **HuggingFace** library.
- Working on the computer process classifier, using **Scikit-learn**, **NumPy** and **Pandas** libraries – data preprocessing and training machine learning models.

Junior Developer

Profi-Data

📅 07.2017 – 01.2018

📍 Szczecin

- Scope of development: creating web applications in Java EE technology using **PostgreSQL** and Hibernate framework. Participating in project work in the **Scrum** methodology.

EDUCATION

PhD Studies in Computer Science and Information Technology

West Pomeranian University of Technology in Szczecin

📅 10.2017 – present

Sparse convolutional networks in control system with visual feedback

Bachelor of Science in Mathematics (Major: Coding theory)

University of Szczecin

📅 10.2017 – 07.2021

Master of Science in Computer Science and Information Technology

West Pomeranian University of Technology in Szczecin

📅 02.2016 – 06.2017

Bachelor of Science in Computer Science and Information Technology

West Pomeranian University of Technology in Szczecin

📅 10.2012 – 02.2016

ADDITIONAL INFORMATION

Git Scrum

Python PyCharm

Matplotlib

C++ (Libtorch)

Linux (basics)

LANGUAGES

Polish ●●●●●

English ●●●●●

German ●●●●●