

ID CANDIDATE	ROLE	AVAILABILITY
16733	Computer Vision Engineer	30 days

PROFILE RESUME

Machine Learning and Computer Vision Engineer with extensive experience in designing and implementing advanced systems for industrial applications. Proficient in various programming languages including C/C++, Python, and specialized in machine learning techniques such as support vector machines and neural networks. Demonstrated expertise in developing computer vision solutions for quality inspection, anomaly detection, and audio event recognition. Fluent in English and German, with a strong background in embedded systems and microservices architecture.

TECHNICAL SKILLS

C/C++, C#, Python, Tensorflow, Keras, OpenCV, Scikit-learn, Mflow, Pandas, Microsoft Azure, Hugging Face, VGG Image Annotator ,Docker, Microservices, Assembler, SIMD/SSE optimization, LabView, Matlab

EXPERIENCE

Technology

Senior Computer Vision Engineer

- Design and implementation of a machine learning system for identification of industrial items using a Siamese neural network. The system identifies about 15,000 items and can add a new item to the database within a few seconds. The architecture is based on microservices and deployed using Docker.
- Design and implementation of a computer vision system for anomaly/defect detection on industrial elements. The system uses various types of classifiers (SVM, Neural Networks) to achieve fast results and enable the addition of new assemblies with several verification regions within minutes. The architecture is based on microservices and deployed using Docker.

Siamese neural network | Microservices | Docker | SVM | Neural Networks

Technology

Computer Vision Engineer

- Built image segmentation algorithms for medical imaging applications.
- Developed augmented reality (AR) features using OpenCV and deep learning.
- Implemented gesture recognition and human pose estimation models.
- Optimized video analytics pipelines for performance improvements.
- Conducted research on semi-supervised learning to improve data efficiency.

Python, OpenCV, TensorFlow, Keras, Kubernetes, Azure

02/2016 - 01/2019

02/2019 – present

01/2013 - 01/2016

Embedded Software and Machine Learning Engineer

Leadership of a group of firmware developers. Design and implementation of a system used for particle characterization:

- embedded programming for Cortex M based microcontrollers (ARM)
- machine learning algorithms for particle classification

Cortex M | ARM

Engineering

Machine Learning Engineer

Design, implementation and managing of various computer vision projects and systems in C/C++, mainly used in smart cameras, code managed parallel on Windows and Linux:

- pedestrian and car tracking on a pedestrian crossing, smart cameras in a network
- automatic number plate recognition (ANPR) system
- long distance car tracker and car speed monitoring for level of service statistics
- optical character recognition (OCR) of stamps on steel blocks in steel plant
- design and implementation of smart cameras (monitoring camera and embedded
- PC in single housing without moving elements)

C/C++ | Windows | Linux

Research and Development

Machine Learning Engineer

Design and implementation of various computer vision systems for international projects. Working environment: C/C++, LabView, Matlab:

- pedestrian detector
- pedestrian detection and tracking on an airport field, using thermal cameras
- OCR implementation for a smart camera with fixed-point processor
- detection of various video broadcast problems (black frame, signal loss)

C/C++ | LabView | Matlab

International Trade

Computer Vision Engineer

Design and implementation of visual quality inspection systems in LabView and C/C++

- inspection of various characteristics of diamonds (size, shape, color, cracks)
- inspection of ink drying time for very fast drying inks

LabView | C/C++

03/2005 - 06/2005

07/2005 - 09/2009

10/2009 - 07/2012

07/2003 - 10/2003

Research and Development

Internship

- Design and implementation of a system that is able to track object while both object and camera is moving
- Implementation of simple compressing algorithms

LabView | C

LANGUAGES

English: C1

German: C1

EDUCATION

AGH University of Science Automatic and Technology

Automatics and Robotics

Master Degree

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