
SENIOR EMBEDDED SYSTEMS ENGINEER – CANDIDATE

EMB-A3



Profile

Edge AI engineer with 9 years developing embedded ML solutions for real-time industrial automation systems. Skilled in model quantization and deployment on resource-constrained hardware.

Experience

Edge AI Engineer, SmartLine AG; Stuttgart, Germany — 2017–Present
Deployed vision-based anomaly detection using TensorFlow Lite on NVIDIA Jetson. Reduced false positives by 42% in assembly line inspection.

Embedded ML Engineer, MechaSense GmbH; Ulm, Germany — 2014–2017
Converted CNN models to TFLite and optimized with ARM NN. Built real-time deployment flow for MCU inference.

Embedded Dev, SoftSignal UG; Heilbronn, Germany — 2012–2014
Built serial/UART-based interfaces for industrial sensors. Implemented basic DSP filters in C.

Education

University of Stuttgart, Stuttgart — M.Sc. Embedded AI Systems, 2012
University of Plovdiv, Plovdiv — B.Sc. Mechatronics, 2009

Skills

TensorFlow Lite, Jetson, ARM NN, Edge AI, DSP, CNN Quantization, C, UART, Real-Time ML, MCU Deployment

Awards

TensorFlow Lite Deployment Certificate | NVIDIA Jetson Edge AI Badge | ARM Cortex Optimization Workshop