SENIOR EMBEDDED SYSTEMS ENGINEER – CANDIDATE EMB-A1

Profile

Embedded systems engineer with 12 years in robotics and real-time control systems. Specialized in bare-metal programming, RTOS, and hardware/software co-design.

Experience

Lead Embedded Engineer, RoboCore GmbH; Munich, Germany — 2017–Present
Designed real-time motor control firmware on STM32 using FreeRTOS. Integrated CAN bus diagnostics and OTA updates.

Firmware Developer, AutoMech AG; Ingolstadt, Germany — 2013–2017
Developed embedded safety software for autonomous robot arms. Led firmware review and testing process.

Embedded Engineer, MechSoft UG; Augsburg, Germany — 2010–2013
Programmed sensor fusion algorithms on 8-bit and 32-bit microcontrollers for precision handling.

Education

TUM – Technical University of Munich, Munich — M.Sc. Embedded Systems, 2010
University of Belgrade, Belgrade — B.Sc. Electrical Engineering, 2007

Skills

C, C++, RTOS, STM32, CAN Bus, FreeRTOS, Firmware, Sensor Fusion, Embedded Linux, JTAG

Awards

Certified Embedded Systems Engineer | FreeRTOS Professional Developer | CAN Bus Diagnostics Certificate