

Senior Software Engineer - Embedded (f/m/d)

80 -100% Zürich

Hexagon Robotics is a division of Hexagon – a global leader in precision measurement. Established in 2025, Hexagon Robotics develops humanoid robots for industrial sectors to address labor shortages and enable the transition from automation to autonomy. The first humanoid product, AEON, was launched in June 2025 and combines agility, awareness, spatial intelligence and versatility to provide a market-leading solution for automotive, transportation, aerospace, manufacturing, and logistics customers.

We are looking for a **Senior Software Engineer** with deep expertise in embedded systems and modern C++ to help take our robotic platforms from prototype to series production.

Your Mission

- Design, develop, test, and maintain embedded software for all actuators and sensors used in our robot, covering the entire stack from microcontroller firmware to embedded Linux.
- Define and document internal architectures and interfaces and ensure they are clearly communicated and usable by other engineers.

Your Skillset

- BSc/MSc in computer science, electrical engineering, or a related field, with at least 5 years of professional experience in embedded software development.
- Minimum 3 years of professional experience with modern C++ in production environments.
- Experience in driver development on (embedded) Linux platforms and in C/C++

- Product-oriented involvement in system integration and testing on real hardware working closely with robotic algorithms experts and electrical engineers.
- Being part of an R&D division with startup spirit in a globally active company: we work in an iterative fashion to solve complex real-world problems at the frontier of robotics.

firmware development for MCUs (e.g., STM32).
- Familiar with industrial networking protocols, particularly EtherCAT and CAN/CANopen.
- Knowledge of low-level serial interfaces such as SPI, UART, and I²C.
- Experience with camera modules and image processing pipelines on embedded Linux (MIPI, V4L2 and GStreamer).
- Experienced in designing software and system architectures for embedded systems integrated into highly complex, distributed environments.
- Passionate about modern embedded software development, including integration into CI/CD pipelines with a DevOps mindset.
- Familiar with automated testing across both pure software (unit, integration) and hardware-in-the-loop (HiL) environments.
- Proficiency in English required, basic German skills advantageous.

Experience in following topics areas is a plus:

- NVIDIA camera frameworks
- Python
- ROS2
- Zephyr
- Able to read schematics and debug hardware hands-on with oscilloscopes and logic analyzers

What You'll Get

- Flexible working hours and a hybrid model for real work-life balance
- Generous vacation: 25–30 days depending on age
- CHF 500 mobility credit for sustainable commuting
- Bonus system & strong pension contributions
- Tailored training & development opportunities
- Relocation support for a smooth start
- Discounts on health, mobility & entertainment
- Team events and a flat hierarchy where your voice counts

- A warm, international culture built on respect and collaboration

Great robots need great people.

Apply Now

Contact

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