



## Senior Motion Planning Engineer (f/m/d)

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 Motion Planning Engineer** to design and deploy advanced motion planning algorithms for our robotic systems, working across navigation, manipulation and optimization. You will develop production-ready software in close collaboration with cross-functional teams, helping bring our robotic platforms from prototype to production.

### Your Mission

- Develop and deploy motion planning algorithms for mobile robots and manipulators
- Design optimization-based planners, including cost functions and constraints for embedded systems
- Implement production-quality software in C++ and Python, including testing and validation

### Your Skillset

- Strong experience in robot motion planning (navigation, obstacle avoidance, manipulation)
- Solid background in numerical optimization for motion planning
- Proven expertise in C++ and Python with production deployment experience
- Experience with NumPy, PyTorch or JAX

- Develop and debug ROS2 nodes and system integrations
- Define and own technical objectives aligned with the squad roadmap
- Troubleshoot and resolve issues in complex robotic software and hardware systems

- Ability to work independently and drive topics end to end
- Hands-on experience with ROS2

#### **Bonus Skillset**

- GPU development on NVIDIA Jetson platforms
- Experience with generative models (e.g. flow models)
- Experience with humanoid robots
- Familiarity with NVIDIA Omniverse

## **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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