

Engineering Manager - Perception (f/md)

100% Zürich

Hexagon Robotics is a division of Hexagon – a global leader in precision measurement. The division develops humanoid robots for industrial sectors to address labor shortages and accelerate the transition from automation to autonomy. Our first humanoid, AEON, was launched in June 2025 and is already in pilots with five customers.

We are looking for an Engineering Manager to lead our perception team and the perception stack of our state-of-the-art humanoid robot, from cameras and real-time pipelines to the computer vision and ML algorithms that help the robot understand its environment. You will manage and develop an established team of engineers, grow it as our needs expand, and own its roadmap while staying technically involved. You will turn cutting-edge research into production capabilities, own the full lifecycle of the models running on our robots, and drive the quality and reliability of perception at customer sites.

Your Mission

- Lead and develop the team: coach and mentor engineers, support their career growth, remove blockers, and hire as the team grows
- Own the roadmap and its prioritization: balance product needs, research bets and technical debt, and align priorities,

Your Skillset

- Proven line management experience (team lead / engineering manager with people responsibility), with the appetite to keep doing both people and technical work
- Experience working across teams and with stakeholders: building alignment on technical decisions and priorities, and

interfaces and timelines with stakeholders across teams
- Foster a culture of engineering excellence: keep the technical bar high through design and code reviews, testing and quality practices, while balancing research exploration with delivery commitments
- Guide the technical direction of the stack, from sensor selection and pipeline architecture to the computer vision and ML algorithms for object detection, segmentation, tracking, 6D pose estimation and mapping
- Bring cutting-edge research into production: identify promising methods and models together with the team and take them from prototype to production
- Own the ML lifecycle: data, training, evaluation, deployment, and continuous improvement based on field data
- Own the reliability and performance of perception as a product customers depend on, measured against clear quality metrics on real robots

keeping delivery on track while giving engineers ownership
- Deep, hands-on expertise in computer vision and ML for perception, such as object detection, segmentation, 6D pose estimation, or mapping
- Track record of taking cutting-edge computer vision or ML research into production systems that work reliably in real-world conditions
- Hands-on experience across the ML lifecycle: building datasets, training and evaluating models, deploying them, and monitoring and improving them based on field performance
- Experience with cameras and real-time sensor data pipelines
- Comfortable staying close to the code, with production experience in C++ on Linux
- MSc or PhD in Computer Science, Robotics or a related field

Nice to have:

- Experience deploying models on embedded GPU platforms such as NVIDIA Jetson
- Experience with vision foundation models or vision-language models
- Experience with perception for autonomous mobile robotic systems

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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