Senior Computer Vision Engineer

LMO SARL is a company based in Luxembourg developing innovative technologies for Vision-Based Space Situational Awareness (SSA) Systems to support future missions for In-Orbit servicing and dual-use applications (civil and defence). LMO SARL is involved in the design, development, verification, build, test, and operation of its space-borne systems and does so through collaboration with major research and industrial players in the field of Computer Vision including AI solutions.

Position Summary

The senior Computer Vision (CV) Engineer will be involved in the specification, selection, development, and implementation of computer vision algorithms to be applied in LMO's projects, ensuring the algorithms outcome satisfy system requirements. They will be responsible for all stages of the algorithm lifecycle: building, training, tuning, analysing, and testing CV models and they will support the adaptation of these algorithms for the embedding computer running inference in vision-based products developed by LMO. The role will involve in-depth participation in analysis and testing of system performance, the preparation of procedures and reports, participation in reviews with partners and customers, etc. LMO currently collaborates with researchers from the SnT CVI^2 group (University of Luxembourg) for the development of novel ML technique.

They will also interact closely with the engineering team (System engineer, CV engineers, SW developers, FPGA engineer, etc.) supporting the maturation of the system.

Location

Technoport – Belval, Luxembourg

9, Avenue des Hauts-Fourneaux, L-4362, Esch-sur-Alzette

Capabilities we are looking for

- Hands-on experience developing, architecting, and running ML or deep learning applications: training, data augmentation, performance tracking, evaluation metrics, etc.
- Understanding of the fundamentals of machine learning and deep learning, from their mathematical concept to the interpretation of their output,
- Experience with handling and processing image data, including labelling data on experimental and synthetic environments,
- Experience with ML and deep learning frameworks like PyTorch and TensorFlow/Keras,
- Collaboration and documentation/reporting skills

LMO Space
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Things that are a bonus, but not a must

- Ability to interpret raw sensor data and make sense of its electro-optical properties like noise, responsivity, spectral distribution, spatial distribution, etc.,
- Familiar with basic design of optical systems (first order) but ideally also familiar with higher-order optics like distortion effect,
- Experience running experimental setups for generating/collecting data to be used for algorithms training,
- Exposure to feedback control applications using optical sensors,
- Experience in space applications.

What we offer

- Work autonomy (low management overhead)
- International environment
- Flexible hours, hybrid work
- Fast career evolution
- Engagement with the Space and Machine Learning communities (Academia, Space Agencies, conferences, etc.)

Salary Information

For this role the base salary expectation, depending on experience, is between 85,000 and 105,000 EUR per annum for a 40-hour work week. This includes 26 days annual leave.

Contact Information

Email: info@lmo.space

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