

Perception Engineer Intern [IDA:00001]

工作职责

As a team member of the Innovation team, you will be involved in the software development of innovative system solutions. This role offers hands-on experience in developing algorithms and systems that enable intelligent visual understanding for real-world applications, along with opportunities to contribute to research and innovation.

Intern would be working together with the R&D innovation team in the following tasks:

- a) Assist in designing, implementing, and optimizing computer vision and perception algorithms.
- b) Develop and test object detection, tracking, and recognition models using state-of-the-art techniques.
- c) Conduct research on emerging computer vision methods, including literature reviews and benchmarking new algorithms.
- d) Experiment novel approaches for object detection and perception.
- e) Work with large datasets to train and evaluate models.
- f) Collaborate with senior engineers and researchers to integrate vision algorithms into production systems.

职位要求

- a) Familiar with programming languages such as, Python, C/C++ etc
- b) Understanding of computer vision concepts such as image processing, feature extraction and perception systems
- c) Experience with object detection algorithms (e.g. YOLO, Faster R-CNN, SSD)
- d) Exposure to SLAM, sensor fusion, or 3D perception will be an advantage
- e) Experience with OpenCV and GPU acceleration (CUDA) will be an advantage
- f) Basic understandings on deep learning frameworks (e.g. TensorFlow, PyTorch) will be an advantage
- g) Basic understandings on deep neural networks, hyperparameter tuning, agentic AI will be an advantage
- h) Good communication and problem-solving skills, and ability to work independently.

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AUMOVIO Singapore Pte. Ltd.

Since its spin-off in September 2025 AUMOVIO continues the business of the former Continental group sector Automotive as an independent company. The technology and electronics company offers a wide-ranging portfolio that makes mobility safe, exciting, connected, and autonomous. This includes sensor solutions, displays, braking and comfort systems as well as comprehensive expertise in software, architecture platforms, and assistance systems for software-defined vehicles. In the fiscal year 2024 the business areas, which now belong to AUMOVIO, generated sales of 19.6 billion Euro. The company is headquartered in Frankfurt, Germany and has about 87.000 employees in more than 100 locations worldwide.