Jun Meng

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Passionate AI/CV engineer with a strong background in ADAS/AD. Skilled in Python, TensorFLow, PyTorch, and various ML libraries. Excellent problem-solving, research, and collaboration abilities. **# OPENTOWORK** Seeking for a challenging role as Junior Software Developer in general Automotive Engineering area.

Education

Technical University of Munich   Munich, DE
M.Sc. in Automotive Engineering, Grade 2.3   *10/2020 − 06/2024*

South China University of Technology   Guangzhou, CN
B.Eng. in Vehicle Engineering, Grade 3.78/4.0 (best 5%)   *09/2015 − 06/2019*

Projects

MA: Mamba-based 3D Object Detection with Object Relation   12/2023 − 06/2024
School of CIT, TUM   *Python, PyTorch, GNN, 3D Object Detection*
  · A context-dependent 3D object detector with GNN-based object relation module;
  · Lower FLOPs achieved with Mamba-based feature encoder in 2D backbone;
  · Experiments conducted on KITTI and Waymo datasets.

Intern Driver Assistance System   03/2023 − 08/2023
Porsche Engineering Group GmbH   *Python, C++, TensorFLow, FlexRay*
  · Software development of the planning module of the highway pilot function;
  · Process sensor data (FlexRay format); Re-localize actor vehicles in Frenet coordination system;
  · Build dataset labeling the collision-potential vehicles; use ML methods to train the classifier and visualize the results.

SA: Autonomous Driving Simulator and Benchmark on NRP   06/2022 − 12/2022
School of CIT, TUM   *Python, ROS2, OpenCV, Stereo Depth Estimation*
  · Develop the AD simulator basing on Neuro-Robotics Platform;
  · Implement YOLOv5 for 2D object detection and SGBM for stereo depth estimation in a pipeline developed with ROS2 galactic.

Experiences

HiWi: ROS Developer   10/2022 − 06/2024
ENSNARE TUM   *Munich, DE*
  · UAV localization for automated construction project;
  · AprilTag detection and tracking with BASLER camera, pose acquisition via ROS noetic.

Formula Student China: Leader Aerodynamics   11/2017 − 06/2019
SCUT-Racing   *Guangzhou, CN*
  · Aero-Kits design, simulation and manufacturing with CFK; Track test and data analysis;
  · Team management, Financial management for subteam.

Skills

Programming: Python, C/C++, ROS/ROS2, MATLAB/Simulink, CUDA, Git, Docker, Linux OS

CAD & CAE: CATIA, SolidWorks, Blender, ANSYS, StarCCM+

Languages: English, German, Chinese (Native)

Driver's License: Klasse B (DE)