Jun Meng

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Max-Bill-Str. 67, 80807 München (DE)
Chinese | German | English
Born on 20.09.1997, in China
Homepage | LinkedIn | Github

Skills: CANape, Linux, Python, C/C++, ROS2, MATLAB/Simulink, Git, Docker, CATIA

Roles: I'm looking for a challenging role as **Software Developer** / **Test Engineer** / **Application Engineer** / **Homologation Engineer** in the field of ADAS.

Education

M.Sc. in Automotive Engineering | **Technical University of Munich** — Munich, DE | 10/2020 – 06/2024
Curricula: DL, CV, SW Development of ADAS, E/E in Automotive (CAN, LIN, FlexRay) — *Grade: 2,3*

B.Eng. in Vehicle Engineering | **South China University of Technology** — Guangzhou, CN | 09/2015 – 06/2019
Curricula: Mechanical Engineering, Control Theory, Vehicle Dynamics — *Grade: 3.78/4.0 (best 5%)*

Work Experiences

iMotion Automotive GmbH — Konstanz, DE
ADAS Test Engineer - full time — *11/2024 – present*

- Tasks: AEB 100,000 km test in EU countries; P8 phase acceptance road test; Development of data anonymization tools for GDPR.
- KPI validation of unintended AEB activations. Route in total of 18,000 km covered Belgium, the Netherlands, Norway and Spain.
- P8-phase acceptance test of L2 ADAS functions. Performed local adaptations in regard of road conditions, driving style, and traffic signs to fine-tune ADAS functions in European countries. Related functions: ISA, ACC, LDP/LDW, ELK, LSS, APA etc.
- Daily tasks include software flashing, CANape logging and issue analysis. Knowledge about ENCAP, GSR II incl. R79, R158 etc.

Porsche Engineering Group GmbH — Mönsheim, DE
Intern ADAS — *03/2023 – 08/2023*

- Task: Pre-development of ML-based target selection for L2+ Highway-Pilot (HWP) function. (*Report*)
- Process sensor data (LRR and camera), determine sovereign zone, develop labeling tool with 2ooX logic, establish dataset.
- Develop and train a model to classify surrounding vehicles as safe / unsafe based on their history behaviors in Frenet coordnate.
- Test through various scenarios, evaluate safety vote and reliability in collision prediction using KPI metrics.

SCUT-Racing (Formula Student China) — Guangzhou, CN
Leader Aerodynamics — *11/2017 – 06/2019*

- Technical tasks: CAD design and CFD simulation for Aero-Kits; Manufacturing of CFK-parts; Track testing and data analysis.
- Team management; CAD inspection; BOM-list inspection; Financial management for the subteam Aerodynamics.

Projects

GraphRelate3D: Context-Dependent 3D Object Detection (arxiv) — 12/2023 – 06/2024
IEEE ITSC 2024 — *Python, PyTorch, GNN, 3D Object Detection*

- Topic: Introduce a GNN-based object relation module to learn the spatial context explicitly to improve 3D object detection.
- My contributions: Software setup in Docker container; Programming of graph constructor and GNN-module; Code cleaning.
- Improves upon the baseline PV-RCNN on the KITTI_Val set for the car class by 0.82% (easy), 0.74% (moderate), and 0.58% (hard).

Autonomous Driving Simulator and Benchmark with ROS2 (GitHub) 06/2022 – 12/2022

Semester thesis, School of CIT, TUM *Python, C#, ROS2, OpenCV, Depth Estimation*

- Develop autonomous driving simulator on *Neuro-Robotics Platform* , developed with ROS2, results visualized in Rviz.
- Implement YOLOv5 for 2D object detection and SGBM for stereo depth estimation, distance errors limited in cm-level.

Skills & Hobbies

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

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

Languages: Chinese (Native) | English (Business-fluent) | German (Business-fluent)

Hobbies: Car model handworking, Photography, Hiking, Driving

Driver's License: Klasse B (DE)

Munich, June 18, 2025

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