Jun Meng

📞 +49 152 2367 0686

✉ junmeng6025@outlook.com

📍 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

💼 *Intern Test Engineer*   *11/2024 − 05/2025*

- Tasks: AEB long journey test in EU countries; P8 phase acceptance road test; Development of data anonymization tool for GDPR.
- KPI validation of unintended AEB activations. Route in total of 18,000 km covered Belgium, the Netherlands, Norway and Spain.
- P8 road test of our L2 ADAS functions in collaboration with customer engineers. Performed local adaptations for road conditions, driving style, and traffic signs to fine-tune ADAS functions in European countries. Related functions: ISA, ACC, LDP, ICA, 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 (Praktikant Fahrerassistenzsysteme)*   *03/2023 − 08/2023*

- Task: Pre-development of ML-based collision prediction for Highway-Pilot (HWP) function. (🔖 *Certificate*)
- 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

Jun Meng

Jun Meng