HENGXIANG CHEN

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hency-727.github.io

EDUCATION

The Hong Kong University of Science and Technology (Guangzhou) September 2026 (Expected)
M.Phil. / Ph.D. (Full Scholarship) in Robotics and Autonomous Systems (Offer Accepted)

Shenzhen Technology University *Shenzhen, China*
B.S. in Vehicle Engineering September 2021 - June 2025
Honor of Headmaster's Scholarship and Best Ten Graduated Student candidates
Member of X-Talent Program(Academic Training Program of SZTU)
Overall GPA: 3.55/4.5 with 10/112

Hochschule Coburg *Kronach, Germany*
Exchange intern of Autonomous Driving (Master-Level) September 2021 - June 2025

PUBLICATIONS

*Equal Contribution

Z. Guo*, **H. Chen***, Q. Li, *et al.*, "Octopi-X: Cross-Modal Robotic Perception with a Large Vision–Language Model for Physical Property Inference," in *IROS 2025 workshop*. (Oral&Poster Presentation) *[Openreview Paper]*

Z. Guo*, **H. Chen***, Q. Li, *et al.*, "Cross-Modal Robotic Perception with a Large Vision–Language Model for Physical Property Inference," in *CLAW 2025*. (Accepted) *[arXiv Paper:2506.19303]*

Z. Feng, **H. Chen**, L. Chen, X. Mou, "Path Planning Algorithm Comparison Analysis for Wireless AUVs Energy-Sharing System," in *IEEE Industrial Electronic Technology News (ITeN)*, 2023. (Accepted) *[IEEE Paper]*

EXPERIENCE

Arbeit Gruppe Dexterous Robotics Lab, SZTU September 2024 - Present
Research Assistant under Prof. Qiang Li and Dr. Nutan Chen *Shenzhen, China*

- Research on Robot Learning.

VALEO March 2024 - August 2024
R&D Trainee under the supervision of System Engineer Yongwei Yang *Kronach, Germany*

- Quantitatively analyzes the impact of latency and vehicle speed on remote urban driving control using statistical methods based on simulation and real-world vehicle data.

Intelligent Automotive Research Team, SZTU March 2024 - Aug 2024
Undergraduate Student under Prof. Heyan Li and Prof. Xiaolin Mou *Shenzhen, China*

- Research on Vehicle Control and Path Planning.
- Team Technology Leader of AutoBots(Smart Racing Car Team).

COMPETITIONS

Chinese Robotics and Artificial Intelligence Competition (Intelligent Driving) Hainan, China
Team Leader, ***5th Place (National First Prize)*** *June 2023*

- Participated in the development of ROS-based autonomous racing system, responsible for perception and planning modules.

Chinese Outdoor ROS Autonomous Racing Competition Shenzhen, China
Team Leader, ***3th Place (National First Prize)*** *December 2022*

- Developed intelligent driving algorithms for multi-sensor fusion and real-time decision-making.

TECHNICAL STRENGTHS

Programming Languages	Python, C/C++, MATLAB, Bash
Frameworks & Libraries	ROS/ROS2, PyTorch, OpenCV
Tools & Platforms	Linux (Ubuntu), Git, Docker, Conda, VSCode, Gazebo
Robotics & Sensors	Kinova Gen3, RealSense D435i/D455i, GelSight Mini