

Hailong Gong

ACT 2602, Australia

✉ hailong.gong@anu.edu.au

🏠 tommygong08.github.io

📧 tommygong08

🔗 Hailong Gong

📺 hailong-gong

Education

The Australian National University

ACT, Australia

MASTER OF COMPUTING

Feb. 2024 - Dec. 2025 (Expected)

- Specialization: Artificial Intelligence

Beijing Institute of Technology

Beijing, China

BACHELOR OF COMPUTER SCIENCE AND TECHNOLOGY

Sep. 2018 - Jun. 2022

- Courses: Computer Vision, Artificial intelligence, Discrete Mathematics, Combinatorics, Probability-and-Statistics, Object-oriented programming, Computer Networks, Relational Database, Compiler Principle, Software Engineering.

Work Experience

Shenzhen Image Technology Co., Ltd

Shenzhen, China

COMPUTER VISION ALGORITHM ENGINEER

Mar. 2023 - Dec. 2023

- Designed and optimized algorithms for Automatic Optical Inspection (AOI) System in order to detect defects in PCB boards.

Beijing Institute of Technology

Beijing, China

RESEARCH ASSISTANT

Jul. 2022 - Jan. 2023

- Researched on trajectory prediction of autonomous driving and decision-making for connected-and-automated vehicles.

ByteDance, Quality Lab

Beijing, China

ALGORITHM ENGINEER INTERN

Oct. 2021 - Feb. 2022

- Optimized reinforcement learning algorithms of client automation test tool, solving the pain points during software testing.
- Improved the efficiency and quality of automated testing tools, including test coverage, and problem interception rate.

Academic Projects

Multi-Source Sensor Fusion-based Trajectory Prediction

Beijing, China

INSTRUCTOR: PROFESSOR GONG JIANWEI, ASSOCIATE PROFESSOR CHAO LU

May. 2022 - Jan. 2023

- Worked as a research assistant and proposed an interactive scenarios trajectory prediction model based on multi-stream heterogeneous data fusion to improve accuracy.

Research on the Algorithm for the Safe Autonomy

Northeastern University, USA
(Remote)

INSTRUCTOR: ASSISTANT PROFESSOR LILI SU

Jul. 2021 - Sep. 2021

- Researched the efficient algorithm to accurately and quickly detect abnormal human driving mode switches with formal assurance and improved trajectory prediction by effectively fusing the run-time information shared by surrounding autonomous vehicles.

Design of Car Perception System for Formula Driverless Vehicle

Beijing, China

PROJECT LEADER; INSTRUCTOR: ASSOCIATE RESEARCHER, JIE CAO, BIT

Nov. 2020 - Jun. 2021

- Proposed a fast, accurate, and large-scale perception system of a formula student driverless car, including object detection, point cloud segmentation, and point cloud cluster.

Skills

Languages C++, Python, Java, Golang, R, HTML, CSS

Tools for AI Pytorch, OpenCV

Other technologies Linux, Git, ROS, QT, MFC

Honors

2020	Champion , Formula Student Autonomous China (FSAC), Nation Level	China
2021	1st Prize , ByteDance Summer Camp	Beijing, China
2021	1st Prize , "Century Cup" Extracurricular Academic Competition, School Level	Beijing, China
2022	Excellent Oral Presentation , 2022 6th International Conference on Robotics and Machine Vision	Xiamen, China
2012	2nd Class Scholarship , Beijing Institute of Technology	Beijing, China
2019	3rd Class Scholarship , Beijing Institute of Technology	Beijing, China
2020	3rd Prize , 17th "Century Cup" Competition, City Level	Beijing, China
2021	3rd Prize , "Century Cup" Extracurricular Academic Competition, School Level	Beijing, China