

BORONG XU

BEng in Computer
Engineering

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EDUCATION

The Hong Kong University of Science and Technology (HKUST)

Hong Kong SAR

BACHELOR OF ENGINEERING IN COMPUTER ENGINEERING

Expected Graduation: June 2026

- GPA 3.8/4.3 (Top 4% among 150 students)
- Activities:

- Student Representative
- Student Advisor
- Course highlights:
 - Probability and Statistics
 - Algorithms
 - Mobile Robotics
 - Deep Learning
 - Computer Vision
 - Machine Learning

High School Affiliated to Renmin University of China (RDFZ)

Beijing, China

HIGH SCHOOL DIPLOMA(GAOKAO)

Graduated June 2022

- Activities:
 - First Robotics Club, Chief Engineer (season 2021)
 - First Robotics Club, Alumni Mentor (season 2022-2024)

EXPERIENCE

Undergraduate Research Opportunity(UROP)

Supervised by Prof. Shenghui Song

LARGE LANGUAGE MODEL ON BOARD GAMES

2024.6 - Present

- Designed and implemented a Large Language Model (LLM) agent capable of playing board games. Conducted comprehensive evaluations of agent strategies and performance.

Course Project

Supervised by Prof. Shaojie Shen

MOBILE ROBOTICS ALGORITHMS IMPLEMENTATION

2024.9 - 2024.12

- Developed mobile robotics algorithms—including ICP Odometry, EKF SLAM, and A* path planning—in C++ within a simulation environment, enabling robust localization, mapping, and navigation.

Research Practicum

Supervised by Prof. Maurice Pagnucco and Prof. Yang Song

LEGGED ROBOTS

2025.2 - 2025.8

- Programmed a Unitree GO2 quadruped robot to perform complex tasks, integrating depth camera-based object localization and LiDAR-enabled SLAM.

Final Year Project

Supervised by Prof. Huan Yin

UNDERWATER MULTI-CAMERA LOCALIZATION SYSTEM

2025.6 - Present

- Development of a Multi-Camera Vision-Based Localization System for Tracking Multiple Autonomous Underwater Vehicles (AUVs).

HONORS

2022-2024 **Dean's List**, 4 out of 5 semesters

HKUST

2023-2025 **Continuing Undergraduate Students Scholarship**, 10,000 HKD per year

HKUST

2023 **Bronze Medal**, The Innovation Competition: Our Livable City, We Engineer

HKIE

2022 **Entry Scholarship**, 70,000 HKD

HKUST



ABOUT ME

Robotics and Machine Learning
Student, STEM Educator

SKILLS

- C/C++
- Python
- ROS Noetic/Foxy/Humble

LANGUAGES

English • Fluent (IELTS 7.5)
Mandarin • Mother tongue