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
  - Deep Learning
  - Algorithms
  - Computer Vision
  - Mobile Robotics
  - 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*

LLM Agent Development   *Jun 2024 - 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 Robot Algorithm Implementation   *Sep 2024 - Dec 2024*

- Developed mobile robot algorithms from scratch, including ICP Odometry, EKF SLAM, and A* path planning within a simulation environment, enabling robust localization, mapping, and navigation.

Research Practicum   *Supervised by Prof. Maurice Pagnucco and Prof. Yang Song*

Quadruped Robot Control   *Feb 2025 - Aug 2025*

- Built and programmed a Unitree GO2 quadruped robot to perform complex tasks, integrating depth camera for object localization and LiDAR for SLAM.

Final Year Project   *Supervised by Prof. Huan Yin*

Underwater Multi-Camera Localization System   *Jun 2025 - Present*

- Developed 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