

# BORONG XU

BEng in Computer  
Engineering

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boring180

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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 various board games. Conducted comprehensive evaluations of agent strategies and performance.

### Course Project

Supervised by Prof. Shaojie Shen

MOBILE ROBOTICS ASSIGNMENT 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 autonomous 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 Micro Autonomous Underwater Vehicles (AUVs).

## HONORS

2022-2024	<b>Dean's List</b> , 4 out of 5 semesters	HKUST
2023-2025	<b>Continuing Undergraduate Students Scholarship</b> , 10,000 HKD per year	HKUST
2023	<b>Bronze Medal</b> , The Innovation Competition: Our Livable City, We Engineer	HKIE
2022	<b>Entry Scholarship</b> , 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