

# BORONG XU

BEng in Computer  
Engineering

+852 8491 8005

boring180-github-io.vercel.app/

boring180

borongxu@outlook.com

borong-xu-52829a293

## 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

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