BORONG XU

BEng in Computer Engineering

+852 8491 8005

borongxu@outlook.com

boring180.github.io/

borong-xu-52829a293

boring180

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) *HKUST*

STABLE DIFFUSION IMAGE GENERATION MODEL FINE TUNING *2024.2 - 2024.5*

- Fine tune a Stable Diffusion image generation model with LoRA to compare the results, and further enhance with ControlNet.

Undergraduate Research Opportunity(UROP) *HKUST*

LARGE LANGUAGE MODEL ON BOARD GAMES *2024.6 - Present*

- Implement a Large Language Model Agent to play board games, and evaluate the performance of the agent

Course Project *HKUST*

MOBILE ROBOTICS ASSIGNMENT IMPLEMENTATION *2024.9 - 2024.12*

- Implement ICP Odometry, EKF SLAM and A* in C++ in a simulation environment

Research Practicum *UNSW*

LEGGED ROBOTS *2025.2 - 2025.8*

- Program a Unitree GO2 robot to perform tasks. The robot will interface with the environment through a depth camera and a lidar sensor

Final Year Project *HKUST*

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	**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