Lanxuan HONG justlanxuan@gmail.com | (+852) 8403 1169

FDUCATION

THE HONG KONG UNIVERSITY OF SCIENCE AND TECHNOLOGY

BSC. IN COMPUTER SCIENCE ADDITIONAL MAJOR IN ELECTRONIC ENGINEERING | GPA: 3.8/4.3 2023 - Present | HKSAR, China

XIAMEN NO.1 HIGH SCHOOL

Grad. June 2023 | Xiamen, China

SKILLS

PROGRAMMING LANGUAGES

Python • C++ • JavaScript • HTML • CSS • React • Matlab • VHDL

DEVELOPER TOOLS

Linux • Git • LaTeX • Numpy • Pytorch • Tableau • 3ds Max • Isaac Sim • Arduino Xilinx (FPGA)

LANGUAGES

Chinese • English

COURSEWORK

- Data Structure (C++)
- Algorithm
- Computer Organization
- Signal and System (Matlab)
- Digital System Design (VHDL)
- Data Visualization (React)
- Artificial Intelligence
- Advanced Deep Learning Architecture (Pytorch)
- Math: Calculus, Linear Algebra, **Probability**

LINKS

My Web: justlanxuan

PROJECTS

TACTILE SENSOR DESIGN 2024.06 - 2025.03 | HKUST MIRS Lab

- Develop a tactile sensor for the precise fabric contact detection.
- Soft sensor design and fabrication.
- Design the real-time data processing algorithm
- Robustness experiment.
- The corresponding paper: A Highly Robust Contact Sensor for Precise Contact Detection of Fabric (as co-first authors) is published at ICRA 2025.

SOFT MATERIAL SIMULATION 2024.09 - 2025.01 | HKUST MIRS Lab

- Soft material simulation on Isaac Sim.
- Deploying the reinforcement learning model trained in simulated environment on real robotic arms.

INTERACTIVE VISUALIZATION DESIGN 2024.11 | Course Priect

- Develop an interactive visualization website for university caffeine consumption and healthcare.
- User studies and feedback evaluation to improve usability.

WEARABLE DEVICE FOR HEALTHCARE 2025.02 - Present | **HKUST**

- Leading a research project about wearable devices and cameras for Autism disease.
- Background research on the disease and current solutions.
- Develop a system for an end-to-end digital solution for Autism disease, including data collection, edge computation, and disease recognition.

ACTIVITIES

HKUST CKSRI | STUDENT HELPER 2025.02 - Present | HKUST

- Present and demo the latest robotics developments to visitors.
- Experienced in debugging multiple robotics related problems(hardware, software, and machinery).

CSE PROGRAMMING COMMONS | STUDENT HELPER 2025.02 -Present | HKUST

• Provided guidance for multiple fundamental CS courses.

AWARDS

DEAN'S LIST Fall 2023, Fall & Spring 2024, Fall 2025 | HKUST

AEON CREDIT SERVICE (ASIA) SCHOLARSHIPS 2024 | HKUST