JIACHENG WU

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EDUCATION

Hong Kong University of Science and Technology *Sept. 2022 - Now*
MSc in Electronic Engineering, School of Electronic and Computer Engineering
CGA: 3.8
TGA: 3.8

The Chinese University of Hong Kong, Shenzhen *Sept. 2018 - May 2022*
B.ENG. in Electronic Information Engineering, School of Science and Engineering
Major GPA: 3.2/4.0
Cumulative GPA: 3.2/4.0
Languages: English (Advanced), Mandarin Chinese (Native)
Honours: Bachelor of Engineering with Honour, Second Class Upper Division; Computer Association Scholarship; Third prize on World Drone Championship Campus Tour

RESEARCH EXPERIENCE

Develop An On-bike Posture Recognition Model for Road Cycling based on Computer Vision Sept. - Nov. 2022
Research Assistant *HKUST*

- **Instructor: Prof. Xin Zhang**
- Learned deep learning and other related knowledge from scratch.
- Independently investigated papers and codes to finalize the database and model used.
- Implemented different models to recognize cyclist posture in real-time by the depth camera and get the data of orthographic projection area.
- Realized the function of recognizing the athlete's gesture and feedback in real time.

Develop Humanoid Robot Project May - July 2021
Research Assistant *CUHKSZ*

- **Instructor: Prof. Jian Zhu**
- Helped implement and adjust the parameters of the eyes applied in the humanoid robot.
- Be Responsible for the code development of the eyes so that they can recognize and track faces automatically.

Robotic Mecanum Wheel Trolley Project Jan. - May 2021
Code Writer & Assembler, Student Robotic Association in RIM Lab *CUHKSZ*

- **Instructor: Prof. Zhenglong Sun**
- Assembled the trolley with teammates and wrote the code to make the trolley automatically recognize the specific color blocks and grab them to a particular place.

Deep Learning-Based Model-Free Source Localization Project Sept. 2020 - Mar. 2021
Research Assistant *CUHKSZ*

- **Instructor: Prof. Junting Chen**
- Integrated papers to get the Heatmap method to solve the localization problem.
- Generated heatmap samples to create the dataset to overcome the problem of the model-free outdoor sources.

· Applied the CNN model to the heatmap problem and successfully located the illegal radio stations in the urban environment with the received radio signal strength through machine learning.

HANDS-ON EXPERIENCE

Electronic Circuit Design Projects Sept. - Dec. 2019
Project Leader, Electronic Circuit Design Laboratory (A-) *CUHKSZ*

· **Instructor: Prof. Zhenglong Sun**
· Used software to design circuits and implement circuit on the board to solve the certain problems.
· Measured and verified the results to learn the knowledge learnt from the textbook.

TECHNICAL STRENGTHS

Coding	Python, MATLAB, C++, Julia, Java
Machine Learning	PyTorch, TensorFlow
Integrating and Writing	LaTeX
Circuit Design and MCU Programming	STM32F103, ARDUINO UNO, FPGA