JIACHENG WU

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GF No.130, Tai Po Tsai Village, Clear Water Bay Road, Sai Kung, New Territories, Hong Kong

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. ZHANG, Xin
- · 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. ZHU, Jian
- · 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. Sun, Zhenglong
- · 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. CHEN, Junting
- · 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. Sun Zhenglong

· 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