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

The Chinese University of Hong Kong, Shenzhen   *Sept. 2018 - May 2022*
B.ENG. in Electronic Information Engineering, School of Science and Engineering   *Shenzhen*
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 (Independent Project)   *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.

Develop Humanoid Robot Project   May - July 2021
Research Assistant (Face part)   *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 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 it to a certain place.

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

· **Instructor: Prof. CHEN, Junting**
· Integrated 10 papers to get the 'Heatmap' method to solve the localization problem.
· Generated 10000 heatmap samples 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   *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	Python(Pytorch), Python(Sklearn)
Integrating and Writing	LaTeX
Circuit Design and MCU Programming	STM32F103, ARDUINO UNO, FPGA