

Marco Siu-Ho TAM

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Education

The Hong Kong University of Science and Technology

Bachelor of Engineering in Electronic Engineering, Minor in Information Technology

Hong Kong

Sep 2022 - Jun 2026 (Expected)

Delft University of Technology

Exchange in Electrical Engineering

Netherlands

Sep 2024 - Jan 2025

Experience

Software Developer (Internship)

Intelligent Design Technology

Hong Kong

Jul 2024 - Aug 2024

- Develop an api for controlling the health monitoring robot with ExpressJS and Flask.
- Develop a user-friendly Android application using Kotlin and Jetpack Compose to manage and interact with the robot.
- Design the frame for the robot with Fusion 360 and 3D print the frame.
- **Technical Skills:** Kotlin, Jetpack Compose, ExpressJS, Flask, Git, Fusion 360, 3D Printing.

Undergraduate Research Opportunities Program (UROP)

HKUST SPARK Lab

Hong Kong

Jan 2024 - Aug 2024

- Modified a classless qdisc linux kernel module improving the performance of the network.
- Perform experiments on OpenWrt and monitoring the network performance with Wireshark.
- **Technical Skills:** OpenWrt, Linux Kernel Programming, C, Wireshark.

Internship Software Developer

Wistkey Limited

Hong Kong

Jun 2023 - Aug 2023

- Integrate the frontend and backend system with VueJS.
- Develop a report system by using VueJS and BootstrapVue.
- **Technical Skills:** VueJS, NodeJS, Git, JavaScript, BootstrapVue.
- **Soft Skills:** Jira, Teamwork in a remote team, Self-learning.

Electronic Engineer and Technical Coordinator

HKUST Robotics Team (Remotely operated underwater vehicle)

Hong Kong

Feb 2023 - Jul 2024

- Design, develop, deploy and maintain the team websites on a DigitalOcean droplet.
- Design and solder the PCB board for the remotely operated underwater vehicle (ROV).
- **Technical Skills:** Docker, NextJS, GitHub Action, Soldering, Design PCB, Altium Designer, Hardware debug.
- **Soft Skills:** Server Maintenance, Web Development, Presentation, Project Management.

Project

Linux Classless Queuing Disciplines (qdiscs)

HKUST SPARK Lab

Hong Kong

2024 (Ongoing)

- A qdisc linux kernel module improving the performance of the network, based on the Fair Queueing algorithm.
- Source code: https://github.com/mad-hin/marco_fq
- **Technical Skills:** C Programming, Linux Kernel Development, Computer Network.

Team Website

HKUST Robotics Team

Hong Kong

2024

- Team website build with NextJS, NextUI, Strapi and Tailwind CSS.
- Dockerized the website and deploy it with GitHub Action.
- Website: <https://epoxsea.marcotsh.com/>
- **Technical Skills:** NextJs, NextUI, Tailwind CSS, Docker, GitHub Action, Strapi.

Self-Project

2023

- Show the differences between the files with git diff style.
- Website: <https://file-diff.marcotsh.com>
- Source code: <https://github.com/mad-hin/file-diff-comparer>
- **Technical Skills:** NextJs, Tailwind CSS.

Skills

Programming Python, C, C++, HTML/CSS, JavaScript, Matlab, Octave, Typescript, Java, Kotlin.

Related Skills OOP, Google Colab, GitHub, WSL, Altium Designer, NextJS, Tailwind CSS, Jetpack Compose.

Miscellaneous Shell (Bash/Zsh), \LaTeX (Overleaf), Git, Fusion 360.

Operating System Windows, macOS, Linux (Current main OS).

Achievements

2024	Marketing Display Award , MATE International ROV Competition 2024	<i>United States</i>
2024	Champion , The 19th IET/MATE Hong Kong Regional of the ROV Competition	<i>Hong Kong</i>
2024	Merit Award , Hong Kong Techathon+ 2024	<i>Hong Kong</i>
2023	1-st Runner Up , VRX Competition 2023	<i>Online</i>
2023	Champion , The 18th IET/MATE Hong Kong Regional of the ROV Competition	<i>Hong Kong</i>

Languages

Cantonese Native proficiency

English Professional proficiency

Mandarin Chinese Fluent