

# CHENG HO MING

HKU BAsc(AppliedAI) • (+852) 9499 8184 • eric310@connect.hku.hk  
github.com/eric15342335 • linkedin.com/in/eric15342335

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## EDUCATION

**Bachelor of Arts and Science in Applied Artificial Intelligence** Sep 2023 - Aug 2027  
The University of Hong Kong

- CGPA: 3.42/4.30
- Relevant Course: Python (A+), C/C++ (A), Computer Organization (A)

**King's College, Hong Kong** Sep 2017 - Aug 2023  
Hong Kong Diploma of Secondary Education

- Level 5\* in Mathematics, Physics, Information and Communication Technology

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## WORK EXPERIENCE

**InspireLab Limited (STEM Education), Summer Internship** May 2024 - Aug 2024

- Used low cost RISC-V MCU (CH32V003F4P6) and open source libraries to prototype STEM related software, such as RISC-V compressed instructions programming via buttons.
- Utilized 4 hardware modules (USART, ADC, GPIO, I2C) for debug message output, button press detection, LED control, and OLED display (ssd1306) to create interactive software.
- Developed an emulator library to simulate embedded software functions, enabling comprehensive testing without relying on physical hardware.
- Worked together with hardware engineers to test and verify new board designs to achieve critical functionality.

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## PROJECT EXPERIENCE

**Stock Market Simulator, School Project** Apr 2024

- Accelerated code review by utilizing GitHub Actions.
- Delivered quality code by enforcing formatting style and documentation using clang-format and doxygen.

**PyInstaller, Open Source Development** July 2021 - Nov 2021

- Merged 16 pull requests. 14 on pyinstaller-hooks-contrib, 2 on pyinstaller.
- Documented change log, wrote test cases, and answered StackOverflow questions.

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## ADDITIONAL INFORMATION

### Programming Languages:

- Experienced: Python, C/C++, ...
- Attempted: Pascal, Bash, Excel VBA, ...

**Tools:** Makefile, Git, GitHub Actions, ...

**Languages:** Cantonese (Native), English (Fluent), Mandarin (Fluent)