

Alan, CHUNG Ho Lun

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PROFILE

Highly motivated and driven by a passion for **robotics**, **AI**, and **automation** R&D. Adept at self-learning and quickly mastering new technologies and skills.

WORK EXPERIENCE

Mechanical Engineer Aug 2022 — Present
Inovo Robotics *Hong Kong*

- Design and integrate **industrial automation solutions**, using robot arms, various sensors, and actuators.
- Conduct experiments and interpret data for quality control, with scientific computing skills.

Research Intern Apr 2021 — Aug 2021
CUHK Engineering Faculty & HKCLR *Hong Kong*

- Read academic papers on cutting edge Machine Learning Methods e.g., Deep Reinforcement Learning and graph Neural Networks.
- Aided research team in construction solution for industrial palletizing, using PyTorch

PROJECTS

Architect, Engineer, Robotic Bar (youtube.com/watch?v=mWT8CetyHb8) Aug 2023 — May 2024

- Developed a robotic bartending system ("**Robo-Mixologist**") for a Hong Kong Airport installation, featuring automated cocktail mixing and a touchscreen ordering interface.
- Designed and implemented advanced algorithms for precise ingredient measurement, drink mixing, and stylish presentation within a futuristic bar setting.

Architect, Engineer, TSS Process Automation (youtube.com/watch?v=SwUt4mq-EXE) Aug 2022 — Aug 2023

- Developed robotic solutions to automate repetitive lab processes like Total Suspended Solids wastewater tests, integrating data capture into business systems.
- Streamlined environmental testing workflows by implementing robotics for increased efficiency and reduced manual data entry.

EDUCATION

The Chinese University of Hong Kong Hong Kong
Bachelor's of Engineering, Mechanical and Automation Engineering Aug 2018 — Jul 2022

Minor

- **Computer Science**

Honors

- Cumulative GPA: **3.371/4.000**
- Second-up honors
- Dean's List of 2020-2021
- Relevant Coursework: Advanced Robotics, Modern Control, Artificial Intelligent, Software Engineering.

EXTRACURRICULAR

Contributor, Library `scipor-rs` (<https://github.com/ChristianBelloni/scipor-rs>) Aug 2023 — Present

- Contribute library scipor-rs (a pure Rust implementation of SciPy), implement to numerical method for scientific computing.

SKILLS AND AWARDS

- **Programming Languages:** Rust, Python, C/C++, C#, JavaScript, Dart, Prolog, Zig, PLC programming.
- **Engineering Software:** MATLAB, SOLIDWORKS, Solid Edge, AutoCAD, TwinCAT, Embedded, RISC-V assembly,
- **Software Framework:** OpenCV, Yew.rs, PyTorch/TF, React.js, Vue.js, node.js, flutter