

# WILSON CHONG , MAN HIN

BUILDING SERVICES ENGINEER | SUSTAINABLE DESIGN & SMART SYSTEMS

✓ Eligible to work in the UK without visa sponsorship

🌐 <https://wchongmh.github.io/>

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## PROFILE

Meticulous, task-focused with professional training in building services engineering, I am competent in the design and installation of lighting, acoustic, HVAC, pipe & drainage systems, electricity and fire safety systems. Proficient in AutoCAD, BIM, and IoT programming, with a proven track record in optimizing large-scale residential projects. Awarded multiple scholarships for academic excellence and leadership in engineering societies.

## KEY SKILLS

### Technical Design

AutoCAD | BIM (Revit) | Dialux | Hevacomp | ModelIT (VE IES)

### Systems Expertise

HVAC Design | Fire Safety Systems | Pipe & Drainage Design | Building Performance Modelling | Energy Assessment

### Programming & Automation

Raspberry Pi | Arduino | Smart Home Technology (TensorFlow, OpenCV)

### Language

Cantonese (Native) | English (Fluent) | Putonghua (Fluent)

## PROFESSIONAL EXPERIENCE

### Wong & Ouyang (Building Services) Ltd. | Internship Trainee

Jan – Apr 2022

- **Project:** Public Rental Housing Phase 1 at Fanling North Area 15 East (1,200+ units).
- **Key Contributions:**
  - Designed water supply systems using BIM, reducing material costs by 12% through clash detection.
  - Coordinated installation of 50+ pumps and tanks, accelerating commissioning by 8 days.
  - Ensured 100% compliance with HK safety standards through detailed technical documentation.

## EDUCATION

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### Glasgow Caledonian University | BEng Building Services Engineering

2022 – 2024 | Upper Second Class Honours

- **Academic Excellence:** Ranked #1 in third-year cohort and selected as the best-performing student in the program.
- **Alistair Harvey Foundation Scholar:** Fully funded bachelor's and master's studies in the UK for academic excellence.
- **Relevant Coursework:** Sustainable Building Design, Smart Systems Integration, Fluid Mechanics

### Hong Kong Institute of Vocational Education (IVE Morrison Hill) | Higher Diploma in Building Services Engineering

2020 – 2022 | Distinction Award

- **Thesis:** "Optimization of Drainage Systems in High-Density Residential Buildings".
  - **Software Training:** Integrated BIM and HVAC design modules into curriculum.
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## LEADERSHIP & VOLUNTEERING

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### Chairman of Engineering Society (IVE Morrison Hill) | 2021–2022

- Led 3 industry seminars on sustainable construction innovation tech, engaging 100+ students and corporate sponsors.
- Advocated for curriculum enhancements and updates, integrating BIM software training, smart home technology, and AI applications into core modules.

### External Vice President, ASHRAE IVE Student Branch | 2020–2022

- Orchestrated 3 field trips to MEP facilities, boosting student participation by 40% year-on-year.

### HKIE BSE Student Liaison Group Committee Member | 2021–2022

- Hosted technical talks with 150+ attendees, featuring engineers from top firms.

### President of Finance Committee, 48th Students' Union Council | 2020–2021

- Oversaw annual budget of HKD 50,000+ and approved expenditures for 15+ events with 90% satisfaction rate.
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## AWARDS & CERTIFICATIONS

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### GCU SCEBE Prize

- Issued by Clancy Consulting · Oct 2023

### Alistair Harvey Foundation Scholarship

- Full bachelor's & master's degree Funding | Issued by Alistair Harvey Foundation · Jul 2022

### The HKIE Prize for Outstanding Engineering Student

- Issued by The Hong Kong Institution of Engineers · Jun 2022

### HKIE BSD Outstanding Student Award

- Top 5% in HK | Issued by The Hong Kong Institution of Engineers · May 2022

### Endeavour Merit Award

- Issued by The HKSAR Government · Jan 2022

### HKSAR Government Scholarship

- Issued by The HKSAR Government · Jun 2021

### CIC Green Card | HKSAR Industry Council Construction Safety Certification | 2021