

# Wong Ka Chun, JOE

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in <https://www.linkedin.com/in/kcwongjoe>

🐙 <https://github.com/kcwongjoe>

## 👤 Profile

- **Currently living in UK**
- Professional in software development; electronic circuit design; MCU programming; algorithm implementation; etc.

## 🧪 Skills

- **Programming:** C, C++, C#, Java, Python, Android (Java, C++)
- **GUI Design:** QT5, JavaFx, WPF
- **Back-end development:** Spring, Django, php
- **Front-end development:** HTML5, CSS, JavaScript
- **Database:** MySQL
- Electronic circuit design
- **MCU Programming:** FreeRTOS in STM32, SPI, I2C, RS232, FatFs.
- **Math:** Statistics, Image processing, Geometry
- **Mathematics Programming:** R, MATLAB
- **Operating systems:** Windows, Linux
- **Management Tools:** CMake, Doxygen, PlantUML

## 📜 Certification

- International Software Testing Qualifications Board (ISTQB) Certification - Foundation Level

## 👜 Work experiences

### Software Engineer

9/2021 – present

Canon Medical Research Europe (CMRE)

- Majorly maintenance software in the medical ultrasound machine in a software development life cycle.
- Mostly working on software testing, defect fixing and feature development in c++

### Lead Engineer

3/2020 – 7/2021

Hong Kong Applied Science and Technology Research Institute Company Limited (ASTRI)

Worked in a Diamond Classification project which:

- Developed an Android app (Java, C++, OpenCV).
- Software development for hardware control and GUI (Image processing skills, MCU, C++, QT5).

## Senior Engineer

10/2019 – 3/2020

Hong Kong Applied Science and Technology Research Institute Company Limited (ASTRI)

As the sole software and hardware engineer in my team, I have worked on a 3D scanning system project which:

- designed a Stereo UV camera system.
- designed a circuit for the system components controlling
- developed GUI (C#, WPF).
- implemented 3D reconstruction algorithms and designed the calibration (C++, Geometry).

## Software Engineer

4/2019 – 9/2019

Sapiens Environmental Technology Co Limited

- Full-stack development for controlling air pollution sensors and data visualisation (Java Spring Boot, JavaScript, HTML5, CSS and MYSQL).
- Programmed framework to control pollutant sensors. (MCU, STM32, RTOS)
- Developed software to communicate with the sensor. (Python)

## Research Assistant

10/2018 – 12/2018

Division of Environment and Sustainability, Hong Kong University of Science and Technology

- Developed data visualisation system for the IoT sensing project (Java Spring Boot and MYSQL, HTML5, CSS, JavaScript, Bootstrap, jQuery and d3.js).

## PhD research project

10/2013 – 8/2018

School of Energy and Environment, City University of Hong Kong

Participated in several air pollution measurement projects such as:

- Systems design in PC and android. (Java)
- Circuits design that involve sensor communication, device control, and power conversion. (Electronic, MCU, STM32)
- Data analysis (Statistics)

## Education

### Doctor of Philosophy in Energy and Environment

9/2013– 7/2019

School of Energy and Environment, City University of Hong Kong

### Bachelor of Engineering (Honours) in Electronic and Communication Minor: Atmospheric and Climate Science

9/2009– 7/2012

Department of Electronic Engineering, City University of Hong Kong