

# Sean CHOK

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(852) 6734 8135 | [sanchok@connect.hku.hk](mailto:sanchok@connect.hku.hk) | [linkedin.com/in/sean-chok-9035b2144/](https://www.linkedin.com/in/sean-chok-9035b2144/) | [sanchok.com](http://sanchok.com)

## Education

### THE UNIVERSITY OF HONG KONG (SEPT 2018 – JUN 2023) – MECHANICAL ENGINEERING

- Bachelor of Engineering in Mechanical Engineering (Year 3, but currently on a gap year)

## Student Projects and Experience

### HKU RACING TEAM (OCT 2019 – PRESENT) – AERODYNAMICS ENGINEER

[innowing.hk/hkur](http://innowing.hk/hkur)

- Perform computational fluid dynamics analysis to optimize wings and undertray design
- Design CAD models of the aerodynamics package of the car

### HKU ROBOMASTER 2018/19 TEAM HERKULES (SEPT 2018 – DEC 2019) – MECHANICAL ENGINEER

[innowing.hk/robomaster2019](http://innowing.hk/robomaster2019)

- Designed, built, and tested a drone
- Coordinated with other groups to achieve the proposed performance criteria for the drone
- Communicated with the drone operator, and implemented his / her suggested features

### RC TECH CLUB (OCT 2018 – PRESENT) – CO-FOUNDER

[rctech.club](http://rctech.club) | [sls.rctech.club](https://www.sls.rctech.club) | [owl.rctech.club](https://www.owl.rctech.club)

- Develop any tech-related projects – worked on a smart laundry system (sls), and a hall booking system (owl)
- Organize workshops – teach skills such as basic programming, photoshopping, etc.
- Publish articles about technology – personally wrote about Hong Kong's Faster Payment System

### THE VAYU PROJECT (SUMMER 2019) – SHORT TERM ASSISTANT

- Conducted tests of a robotic fish in hope of breaking the world record of 1.5m/s
- Designed and installed lateral fins that act as stabilizers

### FINTech WEEK HACKATHON – 1<sup>ST</sup> RUNNER UP

- Developed Navis, an API solution coupled with a user platform as an escalation service for Hong Kong Export Credit Insurance Corporation

### GLOBAL LEGAL HACKATHON - LEGAL REG TECH HACK HONG KONG 2019 – 1<sup>ST</sup> RUNNER UP

- Developed CLAIMate, an app for petty claims featuring the court of public opinion

## Skills and Abilities

### COMMUNICATION

- Model United Nations – attended 4 conferences (1 Outstanding Delegate Award)

### ENGINEERING AND PROGRAMMING

- Solidworks, Ansys, AutoCAD, 3D printing, simple workbench techniques
- python, java, c / c++, React and React Native, , MongoDB, Postgresql, Express, GraphQL

## Working Experience

### **THE HONG KONG AND CHINA GAS COMPANY LIMITED (SEPT 2020 – MAY 2021) – INTERN**

- Undertaking a gap year to join the technical Development Team at the Distribution Operation Department
- Employ various solutions involving mechanical design, electrical and electronic circuits, etc. to build robots and tools to be used in the field for pipe infrastructure construction and maintenance

### **CARBONBASE (APR – AUG 2020) – TECHNOLOGY INTERN (PART-TIME)**

[carbonbase.co](https://carbonbase.co)

- Built a prototype website using ReactJS, a Postgres database, and a rest API structure
- Solved issues related to the site's deployment using docker, and AWS ECS / ECR

### **HKU HEALTHY CITIES LAB (SUMMER 2020) – RESEARCH ASSISTANT**

[sjyurbanlab.github.io](https://sjyurbanlab.github.io)

- Designed a public website to introduce the laboratory and its members
- Assisted with lab experiments to understand synergistic effects of facial masks and respirators on human thermal, dermal, and respiratory regulations

### **OPEN-FINTECH (NOV 2019 – FEBRUARY 2020) – INTERN (PART-TIME)**

- Built a backend infrastructure using google firebase for authentication and database capabilities
- Enabled offline usage of mobile application by better handling local storage on device
- Developed an early prototype of an admin website to be marketed to customers (banks and lenders)

### **IDTECH CAMPS (SUMMER 2019) – SUMMER CAMP INSTRUCTOR**

- Taught children in STEM education during week-long summer camps
- Ensured that campers enjoy making friends, and having fun in a safe environment

### **BRAINBUILDER (NOV 2016 – AUG 2018) – TEACHER & CURRICULUM WRITER**

- Instructed students following a set of materials and books prepared by the BrainBuilder company patron, Dr Fong
- Customized teaching syllabus according to individual students' needs
- Communicated with parents regarding their children's progress