

CHIYAN CHUI

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EDUCATION

Imperial College London | MEng Civil Engineering

Oct 2021 – June 2026

Modules:

Professional Engineering Practice, Civil Engineering Design 1, Mathematics 1, Computational Methods 1, Mechanics, Structural Mechanics 1, Materials, Fluid Mechanics 1, Geotechnics, Energy and Environmental Engineering

- Enjoyed doing parametric design with CAD application (Rhino & Grasshopper 3D), such as roof mathematical patterns and structural trusses making
- Developed critical thinking of social topics on the scope of civil engineering, essential writing skills from a 3000 word essay, and research skills under the frame of Harvard referencing
- Went for a site visit as a team of 8 during design projects and excelled in the role of an initiator by contributing creative ideas
- Gained confidence in the preparation and delivery of presentation to public through classwork
- Offered chances to attend lectures held by external civil engineers
- Adapted to learning online during Covid-19 and managing own time

Saint Toosie Rogers International School, Hong Kong

Sep 2019 – June 2021

(Highest Attainable Grade :5)

- Advanced Placements (AP) – USA
 - AP Physics C : Mechanics - 5
 - AP Physics C: Electricity & Magnetism - 5
 - AP Calculus BC - 5
 - AP Chemistry - 4
 - AP Microeconomics - 5
 - AP Psychology - 5
 - AP Chinese Language & Culture - 5

- SAT Subject Test – USA
 - SAT Physics – 800
 - SAT Mathematics Level 2 – 800
 - SAT Chemistry – 780

(Highest Attainable Grade: 800)

- IELTS
 - Overall 7.5 : Listening(7), Reading(8), Writing(7), Speaking(7)

(Highest Attainable Grade: 9)

RELEVANT EXPERIENCE

Institution of Civil Engineers (ICE), London, U.K. | Regional Diversity Ambassador

Oct 2022 - Oct 2023

- Elected to become the diversity ambassador of the ICE early careers network committee
- Aim to promote diversity and inclusion within both the committee and the civil engineering industry and wider in London
- Attended monthly meetings with other members in the committee

Integral Engineering Design, Bath, U.K. | Structural Engineering Work Shadowing

Aug 2022

- Conducted an arranged 1-to-1 conversation with a senior structural engineer to learn about their variety of projects and the standard steps from planning to actual construction works
- Discussed about the mutual relationship between building infrastructures and carbon emission
- Was informed about their pursue in the innovation of future sustainable construction material to mitigate the impacts from using concrete to the environment

Hong Kong Polytechnic University | Civil and Environmental Engineering Summer Programme Aug 2020

- Participated in undergraduate programme talks, thematic lectures, student sharing sessions and virtual lab tours to gain a more in-depth understanding of civil engineering

SKILLS

Rhinoceros 3D & Grasshopper 3D

- Utilized intrinsic algorithms to create parametric designs

MATLAB

- Applied coding concepts to solve mathematical problems and generate graphical data

LaTeX

- Typesetting a piece of essay with a customised structure using programming language

Microsoft Word, PowerPoint ,Excel and OneNote

- Proficient

SketchUp

- Self-learning 3D modelling for objects like roads and playgrounds

Languages

- English (Advanced), Chinese: Cantonese & Mandarin (Advanced), Spanish (Elementary)

Provisional UK Driving License

- Passed theory test and expect to obtain full license by March 2023

ACTIVITIES & ACHIEVEMENTS

Member of Civil and Environmental Departmental Club (CivSoc) and Cheerleading Club, Imperial College London

Oct 2021 – June 2022

- Attended networking events and industry talk by external speakers and alumni from various engineering sectors
- Practiced weekly as a role of base in the cheerleading level 1 competition team
- Involved in some gymnastics movements such as tumbling as part of the training

AP Scholar with Distinction, College Board

Jul 2021

- For achieving an average score of at least 3.5 on all AP Exams taken, and scores of 3 or higher on five or more exams

ORGANISATIONS

Institution of Civil Engineers (ICE)

Sep 2022 – PRESENT

- Regional early career network committee member (2022 - 2023)
- Student member

The Institution of Structural Engineers (IStructE)

Oct 2022 – PRESENT

- Student member

American Society of Civil Engineers (ASCE)

Oct 2022 - PRESENT

- Student member