

# Chenghong Ren

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## Education

- 2020-2024 **MENG Electrical and Information Engineering**, *Imperial College London*, London, Third Year undergraduate student
- 2018-2020 **A-levels**, *Churchill Academy and sixth-form*, Mathematics - A\*, Further Mathematics - A\*, Physics - A

## Experience

- July 2019 **Work experience**, *Edwards Vacuum*  
Worked with a team of 3 others students to learn more about the engineering work environment and completing team exercises
- July - September 2018 **Part-time**, *McDonald's*  
Worked in all stations and was awarded a rating of 4, which was the highest rating after the initial probation period

## Skills

- Languages C++, SystemVerilog, LaTeX, Unix, CSS, Reactjs, python
- Skills CPU design and architecture, MIPS ISA
- Software Intel Quartus

## Projects

- 2023 Completed an IoT project for a health monitor that takes air data to give health advice and information
- 2022 Built a decision tree using python and used pytorch to build a neural network to predict housing prices
- 2022 Built a simple game using the Intel DE10-lite accelerometer as an input device and interacted with a server using Amazon AWS
- 2021 Built a CPU with a subset of the MIPS ISA using SystemVerilog
- 2021 Built a fully functioning Dual-Core CPU with UART and Floating point support using ISSIE

## Awards

- 2021 Awarded with the EE department prize for best 1st year end of year at Imperial College London

2015-2020 Won several Gold and silver awards in challenges organized by the UK Mathematical Trust and advanced onto to the next stage two times.