Yi Chen
Hock

engineering & design

CONTACT.

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EDUCATION.

○ **University of Cambridge**
Queens' College
MEng Engineering
2019-2023

Relevant Modules:
• Mechanics & Structures
• Materials
• Thermofluid mechanics
• Analysis of circuits & devices
• Linear systems & control

○ **Priestley College**
2016-2018
A level: **5A*s, A B** in Maths,
Further Maths, Physics,
Electronics, Extended
Project, Music & Chinese

○ **Bridgewater High School**
2011-2016
GCSE: **9 A*s, 3 As**

ACHIEVEMENTS.

**Hack Cambridge 101 |
Microsoft 1st Place** • 2020

**EDT Contribution to the
Business Award** • 2019

**Electronics Weekly
BrightSparks Winner** • 2018

**British Physics Olympiad Gold
Award (Top 100)** • 2018

**Engineering Education
Scheme Regional Winner** •
2017

ABRSM Grade 8 Piano • 2017

**Organ Scholarship (St Wilfrid's
Church)** • 2017-2019

Viola Beach Scholarship • 2016

PROJECTS.

○ **Don't Hang Up**   Jul 2020–Present
• Vertical story-based game with horror/mystery elements and branching
  events. Currently in development.
• Technologies: Godot, yED Graph Editor, C++, Aseprite, Ableton

○ **Flip Cam for Artists**   June 2020–Present
• An app for traditional artists to flip their canvas by flipping their camera in
  real time. Currently in development for Android.
• Technologies: React Native, JavaScript, Android Studio

○ **Engi-Bot** • https://github.com/yichenhock/EngineeringBot Summer 2020
• A discord bot which helps Cambridge engineers to revise by asking exam
  related trivia questions. Has a shop, inventory and levelling system.
• Technologies: Python, AWS DynamoDB, Discord API

○ **Chendustry** • https://instagram.com/chendustry   Jan 2019–Present
• Self-initiated business for my handmade Cambridge college scarves, hats
  and gloves.

○ **DIY Organ Pedalboard** • https://youtu.be/HGT1bRfzNQA   Summer 2018
• Musical pedalboard created with aluminium foil and cardboard,
  capacitive sensing, PWM sound and two-note polyphony.
• Technologies: Arduino

EXPERIENCE.

○ **SP Energy Networks YINI Intern** • Liverpool, UK   Sep 2018–Aug 2019
• Performed data analysis on overhead line vegetation intrusion.
• Went beyond spec to self-initiate implementing a database system to
  manage innovation projects.
• Forecasted heat pump performance with Dark Sky API weather data.
• Technologies: Python, Microsoft Access/Excel, VBA programming

○ **DSO National Laboratories Attachment** • Singapore   Summer 2016
• Modelled and simulated a railgun and built and tested a small model in
  the laboratory.
• Technologies: MATLAB, SolidWorks, Arduino, Python

○ **Freelance Illustrator** • https://artstation.com/chen_dll   2012–Present
• Commissioned by musicians like MoonlanderMusic for their album covers
• Technologies: Photoshop, Clip Studio Paint, Blender, Aseprite

EXTRA–CURRICULAR.

○ **JCR International Officer** • Cambridge, UK   2020–2021
• Help international freshers settle in, organise international events &
  storage and represent international views at Queens' College.

○ **Decorations: Queens' May Ball 2020 Committee**   2020–2021
• In charge of planning what the ball will look like and giving it a visual
  identity.

○ **Cambridge University Symphony Orchestra & MagSoc**   2020–Present
• Play 2nd violin in both CUSO and Queens' College orchestra.