

# Lin Chen

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## PROFILE

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A postgraduate student seeking a graduate vacancy to reinforce and cultivate existing practical, analytical, and technical skills within industrial settings. I am committed and willing to take on new challenges, whilst being a responsible, organised and fast learner who communicates positively with people of various backgrounds.

## EDUCATION

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**University of Birmingham, MSc Global Energy Technologies & Systems** **September 2020 – Present**  
Expected Grade: Merit

Modules include: Research Project (Techno-economic viability of Domestic Energy Storage in the UK), Advanced Energy Technology, Political Economy of Energy and Energy Security, Energy Systems Modelling, Energy Systems Design, Thermal Energy, Nuclear Energy, Fuel Cell and Hydrogen Technology, Business Strategy Development.

**Swansea University BEng Chemical Engineering w/Foundation Year** **September 2016 – July 2020**  
Degree Classification: 2.1 with Honours, Foundation Year Average: 68%

Modules include: Chemical Engineering Design Project (Production of 100,000tons LLDPE per annum), Engineering Management, Reactor Design, Chemical & Environmental Engineering Science, Pilot Plant Operation, Thermofluid Mechanics, Safety and Loss Prevention, Chemical Process Principles, Analysis and Design.

## WORK EXPERIENCE

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**Ethiqana, London** **Oct 2021 – Present**  
**Impact Research Associate Internship**

- Extracted and collected data to formulate an Impact Report.
- Work with a social impact analysis measurement tool to analyse, collect, measure and track the benefits created for the beneficiaries of the company.

**Oseyo, London** **Oct 2021 – Present**  
**Customer Assistant**

- Operated on tills, closed store and performed stock management
- Utilized Cantonese and Mandarin to converse for customers and parents when unable to express their queries.

**Bright Network, Remote** **Dec 2020 – Jan 2021**  
**On-Demand Consulting Internship Experience**

- Participated in workshop sessions with Accenture, Elixirr, Alpha FMC, PwC, Bain & Company, Capital One.
- Learnt problem solving, innovation in consulting, change management and strategic problem-solving techniques.
- Produced and designed an approach that covered core deliverables on increasing sales for a confectionary company.

**Class1Personnel, Various Locations** **Jul 2016 – Jun 2018**  
**Front of House**

- Sold out all stock at fish & chip stall at Newmarket Racecourse.
- Performed quick refunds and calculations via mental arithmetic whilst selling alcohol at BST Festival.
- Led teams of 5 – 10 during festivals at the alcohol stalls to ensure constant alcohol supplies and customer service.
- Applied Cantonese at the Ascot to guide a lost attendee.

**Vue Cinema, London/Swansea** **Aug 2017 – Dec 2017**  
**Customer Assistant**

- Oversaw teams of 8 and upheld conditions of facilities.
- Trained new members on various procedures and roles.
- Sales target met by upselling combo offers to minimum 70% of customers per day.

## VOLUNTARY EXPERIENCE

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### Personal Statement Support Programme, London

Sept 2020 – Present

- Mentored a university applicant from former sixth form college, emailed feedback and advice after receiving their personal statement drafts.

### Translator, Various Locations

Sept 2009 – Present

- Worked as student ambassador between secondary school and partnership school in China and interpreted for exchange students and teachers.
- Helped an international student at university for appeals and applications.

## TECHNICAL SKILLS

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**Software** - UNISIM, Aspen Plus/ASPEN Hyphen, Microsoft Visio. Used to verify different processes. Visio used to design all P&IDs and PFDs, including individual detailed P&ID and compiled group P&ID for Design Project. AutoCAD for perspective and cross-sectional design. MATLAB, Simulink and COMSOL for Energy Systems design, modelling and simulation. UNISIM and ASPEN for process design verification.

**Economic, Mathematical & Mechanical Analysis – Microsoft Excel:** Full mechanical design of cyclone separator and shell & tube heat exchanger, distillation, flash and pinch calculations, mass, molecular and energy balances for Design Project. Payback time analysis to reduce household energy consumption by 70%. Cost estimation and financial viability analysed for a fuel-cell system: solar-hydrogen energy storage for household electricity use. Market, economic and payback analyses for electric vehicles in Masters Thesis.

**Environment and Safety:** EMS and EIA researched and written for Environment and Sustainability section of Design Project. Research on ISO 14001. Conducted HAZIDs, HAZOP, F&EI Index, LOPA and Fault Tree Analysis for project.

**Pilot Plant Operation:** Distillation Column, Fluidised Bed, Gas Absorption Column, Wastewater Treatment Flocculation Unit, Air Duct, etc. Emergency Shutdown Procedures drawn, operation of instrumentation and equipment.

**Report Writing**– Lab reports, pilot plant reports, individual and group design project reports, research project. Received 86% on a report on Production of Hydrogen Energy via Nuclear Reactors. Achieved over 70% for Design project report in Final Year and 66% on Masters Thesis.

**Leadership** – Led teams at Vue and Design Project. Trained new members. Constant communication, discussion and feedback with team members leading to 75% overall module score. Guided students during partner school visits as Chinese Ambassador.

**Public Speaking** – Achieved over 70% for all presentations at university. Advocated importance of Body Image representation in media and presented this at a presentation fair. Presented in front of Deloitte company employees at secondary school. Developed ability to improvise when challenged with questions.

**Critical analysis and critical thinking** – Developed skills during constant research for reports writing. Examples include research on raw materials, catalysts and co-polymers, production methods and consumer markets for LLDPE. Research on reducing domestic energy consumption including Passivehaus, energy-efficient appliances and EPCs.

**Languages** – Native speaker in Cantonese and Mandarin. Basic fluency in Spanish due to GCSE (graded A).

## PERSONAL INTERESTS

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- Member of Institution of Chemical Engineers (4 years).
- Hiking – Hiked Arthur's Seat twice and Baiyun Mountain.
- Raising awareness of racial and inequality issues – Wrote an article in the first volume of University of Birmingham's Equality, Diversity and Inclusion newsletter based on previous experience, and volunteered for #HelpCalais to aid refugees.

## REFERENCES

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References available upon request.