ANDERSON CHEN

Chemical Engineering & Business

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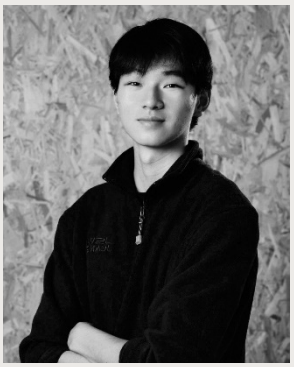

EDUCATION

Nanyang Technological University Singapore | 2022 – 2026 Singapore
Bachelor. Eng | Chemical and Biomolecular Engineering with Minor in Business
Relevant Coursework: Numerical Methods, Thermodynamics 1&2, Transport Phenomena, Unit Operations, Engineering Statistics,
Data Analysis.

Ecole Polytechnique Fédérale de Lausanne (EPFL) 2024 – 2025 | Lausanne, Switzerland
Master's Courseworks | Exchange | Chemical Engineering & Finance
Enrolled in the Master's courseworks during undergraduate studies and passed all courses with honours.
Relevant Coursework: Venture Capital & Private Equity, Chemical Product Design, Advanced Mass Diffusion, Process Control,
Pharmaceutical Biotech, Computational Biology, Chemical Process Safety.

PROFESSIONAL EXPERIENCES

Process & Operations Engineering Intern– SHL Medical Taiwan | January 2025 – Present
- Responsible for Tray manufacturing improvements in Auto-Injector assembly process.
- Rotationally interned in the Process & Operations department, engaged in Manufacturing, Automation, Packaging, Process Developments and Supply Chain teams.
- Coordinated with cross-functional teams to support the operations/process engineering team to conduct continuous improvement at fast pace in a highly regulated medical industry.

Co-Founder– {Clarity} Switzerland | Nov 2024 – Present
- claritynotes.co is a web-based scientific content editor that enables faster professional content writing process.
- Practiced strong cross functional communications working with both technical and non-technical people.
- Finalist at STARTLausanne, Public Vote award at EPFL Startup pitch competition, $10K SGD funding from NTUitive.

Engineering Startup Intern – Eigen Energy Singapore | May 2024 – Jul 2024
- Conducted Southeast Asia market research for expansion strategy and assisted the fund-raising pitch preparation for the CEO
- Designed solar PV systems using AutoCAD and optimized system layout.
- Assisted project engineers in planning project schedules, preparing risk assessments, and generating relevant documentation.
- Conducted site surveys to assess feasibility for solar installations and supervised installation teams to ensure quality standards.

OTHER EXPERIENCES

Co-Founder & Host – UpClose Career Podcast Switzerland | Sep 2024 – Present
- Career podcast dedicated to students interested in the world of tech & engineering startups
- Practiced pitching my podcast despite the minimal traction at early stages, gained experiences in asking better questions.
- Interviewed CEO of Ki-Hydrogen, Director of DA at MSD (Chemicals & Energy Sector)
- Interviewed CEO of Badger Cards, Founding Engineer of Stacksync (YC W24), Founder of Friends-In-Flats (Software & AI/ML)

Professional Billingual Host – Peking University Beijing, China | Dec 2023 – Jan 2024
- Attached bilingual host for Italian musician Gilda Butta and Luca Piccinni
- Demonstrated ability to maintain audience engagement and deliver clear messaging to over 2000+ attendees per show.

PROJECTS

Process Research & Markets Research– Methylcyclohexane-Toluene-Hydrogen System Research Singapore | Dec 2024 – Present
- Part of a long-term, multidisciplinary research initiative with four students, designing and evaluating sustainable MTH system processes for practical and commercial implementation.
- Financial Evaluation & Strategy: Led a detailed preliminary market analyses and investment evaluations across in APAC and EU regions identifying application opportunities for the MTH system in the hydrogen economy and developed optimization strategies to ensure investments achieved at least 30% ROI.

- Technical Leadership: Involved in the design and implementation of advanced process control strategies to optimize hydrogenation (toluene to MCH) and dehydrogenation (MCH to hydrogen) processes. This included developing control algorithms, enhancing system stability, and improving process efficiency.
- Integrated financial insights with technical designs to propose tailored, scalable solutions that aligned with regional energy demands and infrastructure capabilities, balancing sustainability and profitability

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Project Lead - Engineering Innovation Challenge 2024 Singapore | Feb 2024 – Jul 2024

- Led team of 5 to develop sustainable bone scaffold using extract from orange peels and PCL through subcritical water extraction method.
- Conceptualized and designed the pilot-scale subcritical water extraction method and applied thermodynamics, kinetic models in the process design.

AWARDS

- Athletics – Varsity Basketball Team
  - NTU Interschool Competition Most Valuable Player
  - SUNIG 2023 Champion
  - FIBA ASIA GRIT 3x3 Top 8 Team
- 1st Runner Up – EPFL Startup Competition 2024
- Semi-Finalist – START Lausanne (On-Going)
- Engineering Innovation Challenge 2024 – Top 10/200
- BESM 17th Scientific Bronze Prize

LANGUAGE

- English (Native), Mandarin (Native)

INTEREST

I love learning new things, for finance, I'm currently in the process of learning financial accounting, and exploring the commodities market as I'm immersed in the financial world. (researching hydrogen and catalysts & carriers specifically for my recent endeavors) For engineering, I'm self-learning advanced process control (non-linear), model predictive control and dynamic optimization following a really interesting course this semester. I hope my interdisciplinary background can bring sparks to any team I work with.