

Jingtong Chen

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EDUCATION

- University of Cambridge** Cambridge, UK
MEng Information and Computer Engineering Oct 2021 - June 2025
Modules: Inference, Neuroscience, Statistical signal processing, Medical imaging and 3D computer graphics, Molecular bio-engineering, Information theory and coding, Mathematics, Signals and Systems
Coursework: Designing and building of a binary classifier, Coding in visual cortex, Python programming a flood warning system, Design of "CamZIP", Integrated design project for a robot, Design of COVID-19 test and vaccine

SKILLS SUMMARY

- Languages:** Mandarin (Native), English (Professional Proficiency)
- Technical Skills:** Python (Proficient), Microsoft Office Software (Proficient), ECAD (Fluent)
- Soft Skills:** Leadership, event management, collaboration, self-motivation, time management

PROFESSIONAL EXPERIENCE

- Asteroid Mining Corporation** London, UK
Robotics Engineer July 2023 - Sep 2023
 - Participated in product design:** Designed an autonomous mobile sledge that functions as a charging station for the Space Capable Asteroid Robotic Explorer (SCAR-E) in the Antarctic and a bus for transporting and storing the SCAR-E.
 - Leading the electrical group:** Assigned tasks to team members based on their interests and backgrounds, and collaborated with the mechanical team to help with prototyping.
 - Optimization of the solar panel:** Created an LTSpice simulation model to illustrate the performance of the solar panel at varying temperatures and light intensities.
 - Coding experience:** Designed a charge management system to monitor and control the charging state of the SCAR-E using Python algorithms.
- Yuanchen Microelectronic Technology Inc.** Changchun, China
Semiconductor Engineer Aug 2022 - Sep 2022
 - Practical operation on wafer bonding:** Worked on the whole process of wafer fusion bonding of BSI(back side illuminated) CIS(CMOS Image Sensors) using EVG GEMINI FB in the production department.
 - Joined the R&D department:** Helped with conducting experiments on finding out the height of micro lens that maximize the ratio of the light concentrated in the center area of the photo diode.
 - Understood semiconductor from industrial manufacture:** Gained great understanding on the line of production(trimming, bonding, grinding, etching and deposition) of BSI CIS from a microscopic perspective.

ADDITIONAL EXPERIENCE

- Cambridge University Chinese Undergraduate Society** Cambridge, UK
IT Officer March 2022 - March 2023
 - Improvement and maintenance of website:** Established online payment system and created links and QR codes directing to event sign-up forms.
 - Management of Instagram and WeChat account:** Posted photos and tweets with information of events and spread the influence of the society.
 - Events planning and organizing:** Booked the venue and planned for Chinese New Year Fair which attracted more than half Chinese Undergraduate in Cambridge to participate in.
- IB (International Baccalaureate) Private Teacher** Remote
Tutor (Part-time) Sep 2021 - Present
 - Self-improvement:** Developed the ability of time management and knowledge generalization and language skill.
 - Consolidation of basic knowledge:** Developed a better understanding of the fundamental knowledge of math and physics, which helps with college study.
 - Financial independence:** Made enough money from it to cover half of the living expenses in university.

HONORS AND AWARDS

- Fund:** Fitzwilliam Engineers' Fund in University of Cambridge - March, 2022