

CHARLENE CHAO-RONG CHEN

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SKILLS

Languages: English (native), Chinese (native)

Programming Languages: Java, Python, C, C++, Matlab, VBA, Arduino, HTML, CSS, Bash, Git

Tools: Solidworks, Fusion 360, Cura, Figma, Tableau, Microsoft Office Suite, Google Office Suite, Adobe Creative Suite

WORK EXPERIENCE

AcoustoFab

London, United Kingdom

Software Engineering Research Intern

June 2024 - Present

- Conduct acoustic manipulation for specialized tasks on phased arrays of transducers using C++ and machine vision

UCL Artificial Intelligence Society

London, United Kingdom

Head of Operations

June 2024 - Present

- Cross-functional management of leadership team and society initiatives: AI Foundry, Nexus Labs, Machine Learning Tutorials
- Facilitated interdisciplinary student-led research for over 150 students as research branch administrator

Siemens

Taipei, Taiwan

Assistant Data Analysis Engineer

June 2022 - July 2022

- Performed systems testing on integrating Siemens building management system with third-party systems
- Generated energy usage forecast based on Siemens and government data through Excel VBA, Python NumPy and Matplotlib

RESEARCH/PROJECT EXPERIENCE

UCL AI Society Nexus Labs

London, United Kingdom

Undergraduate Neuroscience Pillar Researcher

October 2023 - March 2024

- Conducted neuroscience-focused (EEG database) deep learning research on biomarkers for neurodegenerative diseases

Tendon-Driven Continuum Robot

London, United Kingdom

First Year Term Project

October 2023 - March 2024

- Modelled robot movement in MATLAB and manufactured modularized components with Fusion 360 and Cura
- Programmed STM-32 microcontroller in C as extrinsic actuation unit for 6 degrees-of-freedom robot prototype

LEADERSHIP EXPERIENCE

FIRST Robotics Competition

Taipei, Taiwan

Head of Statistics/Strategy and Outreach

August 2019 - June 2023

- Compiled comprehensive data-driven strategy through team liaison and scouting
- Led initiatives to promote STEM education: organizing team visits, developing the robotics department's website, curating open-source database of technical documents, and hosting events encouraging female and younger students' participation
- Qualified for World Championship in 2023 Hawaii Regional, 2023 Canadian-Pacific Regional, 2021 New Taipei City Regional

NOVA Entrepreneurship Competition

Taipei, Taiwan

Vice President

August 2020 - June 2023

- Engaged with industry professionals and alumni, developed event branding and promotion through website and social media

EDUCATION

University College London

London, United Kingdom

Master of Engineering Robotics and Artificial Intelligence

September 2023 - Present

Relevant Coursework: Linear Algebra, Multivariable Calculus, Discrete Math, Probability and Statistics, Optimization, Differential Equations, Data Structures and Algorithms, Mechatronics and Making, Electronics, Control Systems

Taipei American School

Taipei, Taiwan

Advanced Placement Scholar with Distinction, High School Diploma

August 2014 - June 2023

Received 4.49 GPA and 4-year honour roll

Relevant Coursework: Vector Calculus, Artificial Intelligence, Machine Learning, Computer Vision, Web Application Development