

I-TA CHUNG

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Kaohsiung City, Taiwan (ROC)

EDUCATION

National Tsing Hua University, Hsinchu, Taiwan **June 2024**
BS in Biomedical Engineering and Environmental Science
Overall GPA: 3.68/4.3

WORK EXPERIENCE

Research Assistant, Intelligent Structures Lab, Department of Engineering Science, National Cheng Kung University (NCKU) **Jan. 2025–present**

- Implemented deep learning framework models for aircraft health monitoring research.
- Integrated accelerometers and force sensors with a composite impact tester, developing control programs using LabVIEW and Python.

Intern, Startup SoundJet Medical Inc. **July 2022–Jan. 2024**

- Developed and optimized manufacturing procedures for vortex ultrasound-assisted catheters.
- Contributed to the development of a porcine pulmonary embolism model; conducted five in vivo experiments to induce deep vein thrombosis.

PROJECTS

“Binocular Multi-Object Tracking on Drone using Deep Learning”, Intelligent Structures Lab, NCKU **Jan. 2025–present**

- Training a two-stage deep learning model for accurate 3D drone tracking from a self-collected dataset of over 60,000 RGB-D binocular vision frames

“Mini Vortex-Ultrasound Transducer Thrombolysis” for *Research on Special Topics (I)(II)* **July 2022–Jan. 2024**

- Packaged and soldered 4-channel mini vortex ultrasound transducers, achieving 38% power improvement.

“Arduino ECG system” for *Electronics II* **Feb. 2023–June 2023**

- Designed and soldered circuits; developed a ECG system with wireless data transmission and a GUI using Arduino and MATLAB.

SKILLS & CERTIFICATES

Software & Tools

FEA: Ansys
3D Modeling: Fusion360, AutoCAD
Programming Language: Python, MATLAB, SQL, C++, Arduino

Certificates

Coursera: Deep Learning Specialization, Machine Learning Specialization
IBM: Data Science Professional Certificate

Language Proficiency

Mandarin (native), English (fluent)

LEADERSHIP

President, Traditional Chinese Medicine Club **Sep. 2021–June 2023**

- Organized several medical charity missions, offering healthcare services and Chinese medicine knowledge to local communities.