

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, Chinese Medicine Club** **Sep. 2021–June 2023**
- Organized several medical charity missions, offering healthcare services and Chinese medicine knowledge to local communities.