

# I-TA CHUNG

Tel: +886 975531021 Email: [Joe.chungita@gmail.com](mailto:Joe.chungita@gmail.com)  
Personal Website: [chungita.com](http://chungita.com)  
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.