

# I-TA CHUNG

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Kaohsiung City, Taiwan (ROC)

## EDUCATION

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

## WORK EXPERIENCE

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**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

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**“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

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**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

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

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