

Kai-Ting Tung



Personal details

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-  Male
-  Taiwan
-  Unmarried

Skills

- Mechanical Design ●●●●●
- CAD Modeling ●●●●●
- Equipment Development ●●●●●
- Software Development and Embedded Systems ●●●●●
- Office and Reporting Software ●●●●●
- Finite Element Analysis of Structures and Materials ●●●●●

Languages

- Mandarin Chinese ●●●●●
- English ●●●●●

Education

Department of Mechanical Engineering,
Design Division
National Taiwan University, Taipei
Master's Degree

Sep 2022 - Present

Department of Mechanical Engineering
National Chung Hsing University, Taichung
Bachelor's Degree

Sep 2018 - Jun 2022

Employment

Private Tutor

Jun 2019 - Present

- Senior high school physics (college entrance exam prep)
- Junior high school science and math
- Elementary school math

Profile

About Me

My name is Kai-Ting Tung. I am currently a third-year master's student in Mechanical Engineering at National Taiwan University and expect to graduate in July 2025. Raised in a middle-class family, I developed a strong interest in science, math, and hands-on engineering during junior and senior high school, thanks to the mentorship of inspiring teachers. Throughout high school, I consistently ranked in the top 1% in physics and earned first place nationally and second place internationally in **the Intelligent Ironman Creativity Contest**. My peers often describe me as outgoing, meticulous, and highly driven.

Academic Background

I earned my undergraduate degree from National Chung Hsing University. I spent my first year in the Department of Electrical Engineering and the remaining three years in Mechanical Engineering. This provided me with a solid foundation in mechanical design, along with experience in programming and logical problem-solving. Currently, I am pursuing my master's degree at NTU's Institute of Mechanical Engineering, conducting research in the *Advanced Product Realization and Interaction Laboratory* under Professor Hsiang-Feng Chen. My work focuses on human factors, mechanism design, sensor integration, and automatic control.

To broaden my capabilities, I have actively taken interdisciplinary courses in statistics, game design, finite element analysis, and cyber-physical manufacturing. I also obtained a TOEIC score of 780. My master's thesis is titled **"Development of a Traditional Chinese Medicine Three-Finger Pulse Diagnosis System Using PVDF and Pneumatic Control"**. It integrates sensor signal acquisition, pneumatic regulation, automation algorithms, and user interface design, enhancing my skills in precision measurement and cross-domain system integration.

I consent to the processing of my personal data for the purpose of recruitment for the position to which I am applying.

Hobbies

- Singing
- Guitar

Achievements

- 3rd Place, University Division, *Chen Tai Precision Machine Tool and Smart Technology Innovation Contest*, 2021
- Finalist, *Tokyo Electron RoboSteel Battle National Championship*, 2020
- Co-inventor of the following patents:• *Seating device with simulated force feedback and method for simulating driving force perception*• *Driving simulation device with force feedback mechanism*

Technical Skills

Programming & Embedded Systems: C#, C/C++, Python, MATLAB, CNC G-code, 8051 Assembly, Unity Hub, Raspberry Pi, Arduino

CAD & Circuit Design: AutoCAD, SolidWorks, Inventor, Multisim, LTspice

Documentation & Reporting Tools: Word, Excel, PowerPoint, Canva

Statistical Analysis: SPSS

Structural & Material Simulation: Abaqus, Ansys

Driven and Proactive Mindset

In the fast-changing world of technology and globalization, I believe modern engineers must be continuous learners capable of integrating knowledge across domains. During my graduate studies, I proactively picked up new skills to meet research challenges:

- Learned **Unity Hub** and **C#** to develop human-machine interfaces
- Mastered **Multisim** and **EAGLE** for custom PCB design
- Applied **Abaqus** for finite element analysis in mechanical modeling
- Self-studied **C++** and **Python** to implement microcontroller control and machine learning algorithms

I look forward to working with a wide range of products and users, using my hands-on experience in sensing, control, structural design, and system integration to solve real-world problems, improve equipment performance, and deliver innovative, user-oriented solutions.

Thank you for taking the time to review my resume. I sincerely hope for the opportunity to contribute to your team.

Certificates

Toeic Blue Certificate

Toeic Score: 780

Jun 2024