



## SUMMARY

Highly motivated postgraduate student in Robotics at UNSW Sydney with 3 years of experience in firmware, software, and robotics research. Expertise in machine learning and computer vision, with a track record of successful research and application. Possess excellent communication skills, an agile mindset, strong problem-solving abilities, and a well-organized approach to tackling challenges.



## PROFESSIONAL EXPERIENCE

### Research Associate

Institute of Information Science, Academia Sinica  
Taipei, Taiwan | Feb. 2022–June 2022

- Topic: AI-Automated Training System for Figure Skating
- Developed an AI-automated training system for figure skating that performed pose tracking on learners' practice videos.
- Trained a frame embedding space model that aligned two similar video sequences temporally.

### Research Associate

Center for Artificial Intelligence and Advanced Robotics  
Taipei, Taiwan | May 2021–Feb. 2022

- Topic: AI Companion Healthcare Aid Robot
- Developed a behaviour recognition warning system for the elderly using human skeleton data and object detection to train a random forest classifier.
- Upgraded a chatting function using NLP techniques and AI-based image understanding to proactively drive the reminiscence process with elderly users.
- Collaborated with professors and external stakeholders to collect and monitor vital signs on the robot system via wearable devices.

### Firmware Engineer

Pegatron Corporation  
Taipei, Taiwan | Aug. 2019–Jul. 2020

- Improved runtime performance by installing, configuring, and maintaining UEFI.
- Developed and maintained testing scripts that reduced testing time by 70%.
- Provided technical support and troubleshooting to internal stakeholders and external suppliers.



## CONTACT

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## EDUCATION

**University of New South  
Wales,  
Sydney, NSW | Expected in  
Aug 2024**

*Master of Engineering Science,  
Robotics*

**National Tsing Hua University,  
Hsinchu, Taiwan | June 2019**

*Bachelor of Science,  
Power Mechanical Engineering  
(Accredited under the  
Washington Accord)*



## RELEVANT SKILLS

### Programming

C, C++, C#, Python, Java,  
Pytorch, OpenCV, PowerShell,  
Batch script, Git

### Software and Tools

Jupyter Notebook, TensorFlow,  
Visual Studio, Android Studio



## REFERENCES

Available upon request