Reinaldo Yang 楊英豪

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EDUCATION

National Taiwan University of Science and Technology   **Taipei,Taiwan**
B.S in Mechanical Engineering   *July 2019 – June 2023*

- Joined Prof Chyi Yeu Lin Robotics lab, focusing on robotics, computer vision, and AI
- 111-1 Academic Excellence Award
- Relevant Courses: Computer Vision and applications, Deep learning architectures and application, Python data analysis and machine learning, Machine learning principles and application, Engineering practices with modern programming skills

WORK EXPERIENCE

HTC VIVE Corporation   **Taipei, Taiwan**
Mechanical R&D Engineer   *July 2023 – Now*

- VR related product design based on human ergonomics (plastic, sheetmetal, etc), waterproof design IPX7
- Tolerance analysis, DFM Review, FAE design analysis
- Oversee mechanical engineering department 3D Printer, fixed and documented printing issues
- Engineering document preparation (3D, 2D, BOM, etc)

Young Optics Co., LTD   **Hsinchu, Taiwan**
Mechanical Engineer (Summer Intern)   *July 2022 – August 2022*

- Contributed in parts & tool design in industrial 3d printing machine, assisted in machine troubleshooting

Jia-yi CNC Technology Co., LTD   **Tainan, Taiwan**
Mechanical Engineer (Summer Intern)   *July 2021 – August 2021*

- Contributed fixture design for CNC machine, 2 & 3 axis CNC machine operation
- Created CAD/CAM software learning video for commercial use

SKILLS

Programming Language	Python| C++	HTML l CSS l React-Native
Mechanical Design	PTC Creo	Meshfree FAE

PROJECTS

Independent Study Project NTUST l Computer Vision Intelligent System

- Gathered image, performed data augmentation, and trained dataset with YoloV5 Model
- Robot arm operation with python socket TCP/IP
- 3D Pose estimation algorithm to estimate cube position

Honorable Mention Award on GarudaHack 3.0 Hackathon 2022

- Created an app in 72 hours using React-Native. This app was created to introduce people in underdeveloped areas in Indonesia **|** Devpost Link

Movie Genre Prediction based on Movie Poster NTU

- Created a system to predict movie genre using Densenet-121

Robot NTUST| Final Project of Mechanical System Design and Practice

- Programmed an Arduino-based robot vehicle that could read input from IR sensors and follow track lines, switch vacuum on/off to pick objects, control a servo motor and DC motor
- Developed a mobile app for manual control using MIT App Inventor for Android devices
- Designed the wiring diagram, selected electrical components, and was responsible for the wiring of the electrical components, including specifying the required voltage, current, number of I/Os, torque, and rotation speed.

AWARDS & CERTIFICATES

- Siliconware Precision Industry special topic 2nd winner
- GarudaHack 3.0 Honorable Mention Award