

Chia-Yu (Gina) Chung

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EDUCATION

M.S., Electrical and Computer Engineering, Texas A&M University, USA

Aug. 2021 – May. 2023

B.S., Bio-Industrial Mechatronic Engineering, National Chung Hsing University, Taiwan

Sep. 2016 – Jan. 2021

EXPERIENCE

SCADA Engineer, MAC Automation Inc., The Woodlands, Texas

Jan. 2025 – Present

- Developed and configured HMI applications using Ignition, integrating with PLCs for seamless automation control.
- Utilized Python scripting and SQL queries in Ignition to enhance performance.

Software Engineer, Inteplast Group, Lolita, Texas

Sep. 2023 – Jan. 2025

- Created user interface for AS400 data visualization, enhancing data accessibility.
- Developed and modified a data upload interface for the Quality Control department.
- Implemented a WH Management System in Python, streamlining inventory processes.
- Maintained and optimized a system built in VB.NET with Azure MySQL, ensuring reliable performance and data management.

Intern, Bizlink technology Inc., New Taipei, Taiwan

Mar. 2021 – Jul. 2021

- Responsible for the program of docks and dongles to ensure they were suitable for attaching to different computers.
- Supported the IT department for the verification of the wire.
- Developed an application of the borrow and return system.

Intern, Bag Filter Enterprise Company Limited, Taoyuan, Taiwan

Jul. 2020 – Sep. 2020

- Responsible for the program of testing chips to ensure they were suitable for attaching to machines.
- Improved the project of bag filter process into automation system with GUI.
- Supported the part drawing by using SolidWorks.

Research Assistant, National Chung Hsing University, Taichung, Taiwan

Feb. 2017 – Jan. 2021

- Research Assistant, National Chung Hsing University, Taichung, Taiwan Feb. 2017 – Jan. 2021 • Developed and engineered a Segway to analyze balancing properties through the use of Arduino, G-sensors, and PID control strategy.
- Adapted genetic algorithms to establish microenvironment control using Raspberry pi and Python, resulting in an increase score evaluation of 5 percent.
- Awarded Honorable Mention in the project competition held by the Bio-Industrial Mechatronics Engineering Department.

Field Robot Competition, National Chung Hsing University, Taichung, Taiwan

Nov. 2018 – Nov. 2019

- Lead a robotic team consisting of two members.
- Structured a field robot using programming languages such as Python from scratch.
- Designed a mechanical structure for accomplishing the missions.
- Applied OpenCV to construct image processing.

SUMMARY OF SKILLS

IT: OpenCV, git, markdown, LaTeX, Raspberry Pi, Arduino, Programming Logic Controller (PLC), Tina, Azure

Programming Language: C/C++, Python, java, MATLAB, LabView, Visual Basic, SQL

Computer Aided Design: SolidWorks, AutoCAD, CREO

Certificate: Top-Level Pneumatic Technician (Certified by the Skill Evaluation Center of the Workforce Development Agency, Taiwan), SolidWorks Associate Certification

Language: English (fluent), Mandarin Chinese (native), Korean (Intermediate)