

PO-CHUN YU

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SUMMARY

C# senior software engineer with 6+ years of experience specializing in the Smart Manufacturing industry. With solid experience in building both backend systems and testing desktop applications. Proficient with DevOps CI/CD, such as Docker, Jenkins, and Gitlab. Has extensive field experience working with customers directly.

WORK & LEADERSHIP EXPERIENCE

HID GLOBAL

Taipei, Taiwan

Senior Software Engineer

2020/11 - Now

- Manufacturing Server Development:
 - Integrated ASP.NET Core + EF Core + MySQL to provide RESTful API for other services.
 - Built Real-Time WebUI using Blazor to show manufacturing statistics, e.g., UPH and yield rate.
 - Recorded and traced product manufacturing history. The system has processed 120k units in the mass-production stage.
 - Used Actor Framework to build concurrent services that parse production logs from 10+ stations. Reduced data latency from 1 day to 3 minutes.
 - Utilized microservice patterns and containerized services using Docker. Integrated RabbitMQ as a message queue.
- Desktop Testing Tools:
 - Standardized testing procedures by developing modularized low-code testing applications with plugin UI and steps, which increased developing speed by 75%.

SMASOFT TECHNOLOGIES

Taipei, Taiwan

Software Development Lead

2019/08-2020/11

- Built manufacturing process control system (30+ stations) and records data to database(MSSQL) by ASP .Net Core and Blazor. The system has also integrated with 3rd party MES.
- Built CI/CD system on GitLab and established issue-driven development flow, enhancing the software team's development speed.
- Improved software delivery by migrating from Windows Installer to Microsoft Azure Blob Service, which allows users to upgrade or downgrade software smoothly.
- Mentored junior developers in OKR practices. Having experience in leading a team of 3.

Senior Software Application Engineer

2017/8-2019/8

- Low-Code Automation Platform:
 - Developed robotic arm auto-recovery feature that reduced downtime by 80%.
 - Led robotic arm control software development, which integrated machine vision with multiple robotic arms (ABB, Epson, Denso, TM...)
 - Completed 3/9 stands in a production line automation project by robotic arm control and machine vision at USI Kunshan, China

HIMAX TECHNOLOGIES

Tainan, Taiwan

Software Engineer

2016/2 - 2017/7

- Conducted C# software development which integrates previous software for internal debugging and factory end testing. It allows the firmware team and FAE to observe and tune IC performance.

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EDUCATION

BSc in Mechatronics

National Cheng Kung University

Tainan, Taiwan

2011/9 - 2016/1

Student Exchange Program

Queensland University Of Technology

Brisbane, Australia

2015/7 - 2015/11

SIDE PROJECTS

- Personal Website (<https://about.pochun.cloud>)
- Smart Factory Dashboard (<https://about.pochun.cloud/projects/smart-factory.html>)
- Factory AGV Control System using ROS2/NAV2 (<https://about.pochun.cloud/projects/agv-ros2.html>)

SKILLS & INTERESTS

Technical Skills:

- Programming Languages
C# · Python · LabVIEW · JavaScript · SQL
- Frameworks
React · Blazor · Entity Framework · Docker · Microservice · ASP.NET Core · ROS2 · OAuth2
- Tools
CI/CD · Jenkins · RabbitMQ · Azure

Languages:

Native in Mandarin · Advanced in English (TOEFL 106, GRE 318 V:153 Q:165)

Certifications:

- Azure IoT Developer Specialty from Microsoft
- Certificate LabVIEW Architect from National Instruments