PO-CHUN YU

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Solid Field Experience in Smart Manufacturing and Cloud IoT | C# & React Developer

WORK & LEADERSHIP EXPERIENCE

HID GLOBAL (Multinational company provides identity devices) **Taipei, Taiwan**
Senior Software Engineer 2020/11 – Now

- Built Real-Time WebUI to show manufacturing statistics, e.g., UPH and yield rate. The system has processed 120k units in the mass-production stage
- Built Production Server which parses logs from test stations in production lines. Reduced data latency from 1 day to 3 minutes.
- Built scalable services by Docker, Actor Framework, Blazor, and EF Core.
- Built the tunning and data collection tool with intuitive UI for capacitive fingerprint devices using WPF with MVVM pattern.

SMASOFT TECHNOLOGIES (Startup focuses on Smart Manufacturing) **Taipei, Taiwan**
Software Development Lead 2019/08-2020/11

- Built manufacturing process control system (about 30 machines) and records data to database(MSSQL) by ASP .Net Core and Blazor. The system has also integrated with 3rd party's MES.
- Built CI/CD system on GitLab and establish issue-driven development flow which enhances 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 of leading a team of 3.

Senior Software Application Engineer 2017/8-2019/8

- 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 (IC design house) **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 **Tainan, Taiwan**
National Cheng Kung University 2011/9 – 2016/1

- **GPA:** 3.37/4.0 (Overall) 3.8/4.0 (Final 60)
- **Relevant Coursework:** Computer Program Design, C++ Programming Language Design, Microcomputer Control, Robotics Analysis & Control, Computer Control of Feedback Systems
- **Leadership Program for the Future Elites:** Entrepreneur Perspectives, Leadership and Governance

Student Exchange Program **Brisbane, Australia**
Queensland University Of Technology 2015/7 – 2015/11

- **Relevant Coursework:** PLC Mechatronics System Design, Industrial Noise, and Vibration
- **Teamwork:** Collaborated in developing Festo PLC pneumatic control system in a team of 3 students

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SIDE PROJECTS

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

SKILLS & INTERESTS

Technical Skills:

- Programming Languages
  C#(expert) · Python(intermediate) · Javascript(advanced) · LabVIEW(expert) · SQL(advanced)
- Frameworks
  React(advanced) · Entity Framework(advanced) · Docker(advanced) · Actor Framework(expert) · Microservice(advanced) · ASP.NET Core(advanced) · ROS2(advanced)
- Tools
  CI/CD(expert) · Jenkins(expert) · RabbitMQ(advanced) · Azure(advanced)

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