

Guan-Wei Su

Software System Engineer
– Industrial Automation

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Personal summary

Year of birth: 1994

Nationality:

- Taiwan (R.O.C.)

Languages:

- Chinese– Mother tongue
- English – Good
- German – Basic

Qualifications:

- Master of Mechanical Engineering, NTUST, Taiwan
- TOEIC 830
- Certified LabVIEW Associate Developer
- Class C of Machining, Technician Certificate

Key Skills:

- Programming in C, C++, C#, WPF, ASP.NET, MATLAB
- System Control
- Mechatronics
- EtherCAT protocol
- MCU Control
- Good communication skill in English and Chinese

Summary/Career Objective

Software System Engineer specialising in Industrial Automation projects with 3 years of experience in software system development, software UI design, mechatronics, system control, EtherCAT communication protocol, research studies. Professional communication skills in English and Chinese.

Seeking to utilize academic background and professional skills, knowledge, and project experiences in the developing Industrial software market and continue to grow in the digital manufacturing technology department through continued development of professional skills and technical capabilities.

Education

- **National Taiwan University of Science and Technology, Taiwan**
–Master of Mechanical Engineering, System Control Group (2016 - 2018)
Major Thesis – ‘*Adaptive Control of Delta Robot*’
- **Hochschule Esslingen, Germany**
–Exchange Student Program (2016 March – 2016 Aug.)
- **National Taiwan University of Science and Technology, Taiwan**
–Bachelor of Mechanical Engineering (2012 - 2016)
Avg. Grade: 82.50 (**3 times Academic Excellence Award**)

Work Experience

- **Software System Engineer – Industrial Technology Research Institute, Digital Manufacturing Technology Department (2018 Nov. – Present)**
Software System Engineer in charge of Industrial Technology development for companies and government. Key responsibilities include software development, UI design, database building, mechatronics, Industrial communication protocol – EtherCAT development, planning works, team capability building, client communication and management.

Key projects

- **Smart Manufacturing Factory Development Project for Bureau of Vocational Training (2021 June – Ongoing), Software System/Planning Engineer –**
In charge of WMS and MCS development including software UI design, Database structure design, Function implement, Data capture through TCP/IP and MQTT, Factory operation logic design. Other key responsibilities include customer needs understanding and supporting with building technical capability.
Main Skills: WPF, C#, SQL, .NET Core WebAPI
- **FENG HSIN STEEL Stirrup system Development Project (2020 Nov. – Ongoing), Software System/Planning Engineer –**
In charge of Stirrup System software development including software UI design, Database structure design, Function implement, Data capture through TCP/IP and OPC-UA, Worksheet's Scheduler Logic design. Other key responsibilities include customer needs understanding and supporting with building technical capability.
Main Skills: WPF, C#, SQL, .NET Core WebAPI

- **AIDC Automated Electrode Length Measurement System Development Project (2020 June – 2020 Dec.), Project Leader/ Software System Engineer –**

In charge of system development and resource allocation including Making inquiry, Making business proposal, Fund allocation, software logic planning. Other key responsibilities include customer needs understanding and supporting with building technical capability.

Main Skills: WPF, Project Management

- **AIDC Automated storage and retrieval system Development Project (2019 May – 2020 Dec.), Software System Engineer –**

In charge of EDM Automated storage and retrieval system (ASRS) development including software UI design, Machine/ Robot utilization development, combining MSsql database, monitoring I/O and Machine/Robot status, etc. Other key responsibilities include supporting with building ASRS technical capability, supporting team members to develop their skill sets.

Main Skills: WPF, C#, SQL, Robot (Fanuc), PLC(Delta)

- **Iroda Manufacturing Execution System Development Project (2019 Aug. – 2020 Nov.), Software System/Planning Engineer –**

In charge of Manufacturing Execution System (MES) planning and development including software UI design, workers/workstation utilization development, dispatch list for workers, basic PLC logic design. Other key responsibilities include discussing with Iroda's supervisor and cooperating with hardware engineer.

Main Skills: ASP.NET, C#, SQL, PLC(Delta), Vuejs

- **Stanley Black & Becker Electronic Torque Wrench MCU Development Project, Taiwan (2019 Nov. – 2020 March), Firmware Engineer –**

In charge of BLDC motor control by using ST MCU. Support works in making inquiry about MCUs and Motors and discussing with Stanley's hardware engineer.

Main Skills: C, DC Motor Control

- **CFRP Drilling Platform Development Project, Government Project, Taiwan (2019), System Engineer –**

In charge of building a CFRP drilling system with impedance control including mechatronic part, software platform development, software system design, close loop control logic design. Other key responsibilities include drilling verification, CFRP delamination inspection, patent searching, research studies.

Main Skills: C++, C#, Linear Motor Control, PC-base Control, MATLAB

Certification

- TOEIC 830 (L: 435/R: 395) (23/04/2017)
- Certified LabVIEW Associate Developer (CLAD) (03/19/2015)
- Class C of Machining, Technician Certificate, ROC. (14/07/2011)

Patent

- I704434 - DRILLING SYSTEM AND METHOD THEREOF (11/09/2020)
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