

Yang Wen (Joseph) Chen


Passionate and detailed-oriented software engineer. Productive in both team-based and self-managed projects. Quick learner, able to rapidly adapt to changes in requirements and priorities.

Proficiency in Linux, Yocto, C / C++, Qt / QML, Python

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Employment

[CIMON, Inc](#) - Senior Software Engineer / Consultant

Henderson, NV, USA / Taichung City, TW

Mar 2020 - Sep 2021 (Full-time) / Sep 2021 - present (Remote Contract)

Yocto, Bitbake, Docker, GitLab CI, siemens/kas, Linux Device Tree, C/C++, Qt/QML, D-Bus, Python

- Led the platform teams to establish and optimize in-house Yocto Linux build environments, applied docker as well as GitLab CI to improve the speed of development and build/release system images by more than 200% faster.
- Collaborated with overseas teams on BSP porting and system integration for NXP iMX6 Yocto Linux platforms.
- Designed and developed CIMON Xpanel system software using Qt/QML and D-Bus.
- Provided platform support across various teams globally. Mentored junior engineers, performed code reviews, and ensured the quality of the end products.

[Alpine Electronics of America](#) - Senior Software Engineer

Torrance, CA, USA

Apr 2017 - Mar 2019 (Full-time)

Alexa Device / Google Assistant SDK, Raspberry Pi, GStreamer, Android NDK, Qt/QML, RabbitMQ, Scrum

- Assisted in managing the software development process, product/sprint backlog, and dev meetings in compliance with Agile/Scrum methodology.
- Designed and developed next-generation Smart IoT concepts with AWS/GCP for complete voice-activated solutions on automotive aftermarket products. Implemented several key features, including auto garage door control, seamless music/radio transfer, and customizable home/away mode support.
- Collaborated with vendors to develop Qt/QML as well as Android demo applications for the concepts of connected radio and dynamic EQ. Successfully demonstrated PoCs at CES shows.

[Alpine Electronics Research of America](#) - Software Engineer

Torrance, CA, USA

Feb 2012 - Mar 2017 (Full-time)

C/C++, Qt/QML, OpenCV, Linux, Yocto, GStreamer, TI Vision SDK, TI TDAx

- Designed and developed a variety of automotive research PoC projects based on Linux and Android platforms.
- Worked closely with algorithm developers to port and optimize computer vision algorithms on TI TDAx boards using visionSDK, for camera projects, e.g. fisheye correction, ground detection, dynamic stitching and mapping.
- Brought up new devices, perform software porting, debugging, and performance tuning exercises that span multiple software, firmware, and hardware teams. Experience in TI OMAP family, NXP Freescale iMX series, Nvidia TK1/TX1, and Raspberry Pi. Proficiency in cross-compiling toolchains, Makefile, CMake, qmake.
- Collaborated with customers and suppliers on various new proof of concept projects, such as Android auto, and successfully demonstrated PoCs at Google I/O, CES, ITS, and other tech shows.

Education

University of Southern California

Los Angeles, CA, USA

May 2011, Computer Science, MSc

National Sun Yat-Sen University

Kaohsiung, TW

June 2006, Communications Engineering, MSc