Keng-Yu (Edward) Lin

Full-stack & Embedded Software Engineer

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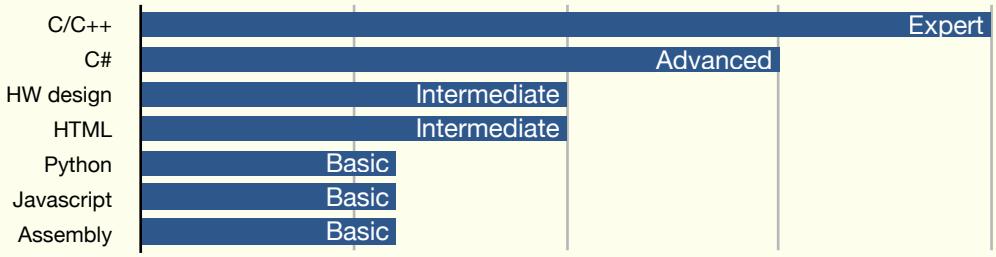
SUMMARY

A cross-platform app developer with 9+ years of experience, proficient in C/C++ programming. Very knowledgeable in creating product prototypes, including apps development (Linux/Windows and micro-controller), digital communication protocols implementation, hardware schematic design, 2-layer PCB design, and system bring up. Past experience includes creating 3 product prototypes for optical measuring equipment and a wearable device prototype for a hand gesture recognition system. Not only focus on developing prototypes but also developed 7 windows apps, including a device management platform, to show sensor data and user-specific features. Interested in creating sensor applications, especially firmware and apps development.

Skills



Language

Mandarin (Chinese)	Native
English	Intermediate

EDUCATION

- **Master of Computer Science** — Sep. 2014 - Aug. 2016
  National Chiao Tung University — Hsinchu, Taiwan
  - Thesis focus on the signal processing and machine learning studies.
  - Built a wearable device prototype to collect ultrasound for recognizing hand gestures, including daughter board schematic design, PCB layout, and app development.
  - Thesis: UWGesture: An Ultrasound-based Wearable System for Hand Gesture Recognition

EXPERIENCE

- **Senior Software Engineer** — Sep. 2018 - Present
  Dell — Taipei, Taiwan
  - Focus on the Chrome OS application development, implemented many features of the Chrome DDV, developed a demonstration app for the DDV, as well as contributed code into the Chromium OS.
- **Senior Engineer** — Nov. 2016 - June 2018
  Innodisk Corp. — New Taipei, Taiwan
  - Developed a cloud device management platform which helped sales to discover 15+ potential customers, and led the team to add 5+ features to improve the platform performance.
- **Senior Engineer** — Apr. 2014 - Mar.2015
  Shinewave International Inc. — Taipei, Taiwan
  - Implemented a Linux app to collect the temperature sensors data from the target platform, and report to the server via MQTT.
- **Firmware Engineer** — Apr. 2011 - Mar.2014
  Optimum Optoelectronics Corp. — Hsinchu, Taiwan
  - Developed and created a handheld spectrometer, including schematic design, porting system, and software development, it can measure spectral in a few seconds and support 8 parameters.

COMMISSIONED WORK

- **Flicker Measurement System** — Mar. 2015 - May 2016
  - Developed a device to measure LED flickers with microcontroller, ADC, and photodiode, which can capture LED flickering frequency in 1.5 sec.
- **Lens Transmittance Meter** — Oct. 2013 - Mar. 2015
  - Developed an ARM-based device to measure glasses transmittance, can calculate 7 types of light wavelength-transmittance in 3% error tolerance.