ChaoWei Liao

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Experience

Microsoft   Remote, USA

Senior Software Engineer   Jan. 2021 - Present

- Develope and maintain intergraded test suite for Microsoft Azure Datacenter clusters.
- Triage and debug issues on Azure Software Stacks.

Microsoft   Pittsburgh, USA

Senior Hardware Test Engineer   Sep. 2020 - Dec. 2021

- Developed and maintained intergraded test suite for Microsoft Azure Hardware.
- Organized and implemented test plan for hardware components
- Triaged and debugged issues on both HW and FW of BMC, IPMI, BIOS, CPU, GPU, DIMM and NVMe.
- Worked with OEM/ODM global wide.

Seagate Technology   Minneapolis, USA

Senior Firmware Engineer   Feb. 2016 - Sep. 2020

- Developed hard drive firmware in RTOS environment on ARM Cortex Microcontroller.
- Primary contributor for developing logging and SMART feature in embedded multi-CPU system.
- Experience with SAS, SATA, I2C, SPI, UART and JTAG interfaces.
- Worked in Agile/Scrum Environment, and GIT as version control.
- Applied Failure Modes and Effects Analysis (FMEA) across projects.

Bayer Healthcare   New York, USA

Device R&D Firmware Engineer Internship   May. 2015 - Aug. 2015

- Developed an automatic testing APP on Android for testing glucose meter via Bluetooth Low Energy(BLE).
- Reduced over 94% of testing time from 64 hours/week to 4 hours/week.

Intel   Taipei, Taiwan

Firmware Validation Engineer   Mar. 2013 - Jun. 2014

- Debugged firmware issues over 12 different Intel tablet device platforms.
- Tested and certificated device on both Microsoft WHCK and Google CTS over 15 products.
- Narrowed down, Triage and root-cause the firmware/Software issues.

Ambarella   Hsinchu, Taiwan

DSP Firmware Developer   Oct. 2011 - Jan. 2013

- Developed DSP firmware on ARM11 Dual Cortex platform on RTOS microITRON and ThreadX.
- Improved Face-Object Tracking success rate 40%, reduced power usage 4.2% on Samsung DV.
- Designed a real-time speed alert for CarDV by using Hough transform.
- Supported OEM, ODM on site to improve manufactory process.

Freelance Programmer   Taipei, Taiwan

Software and Firmware Developer   Mar. 2009 - Sep. 2010

- Constructed an Interaction Installation Art Device for Taipei City Government, which use C# connect to webcam for gesture detect and Arduino chip AVR168 for signal control.

Education

The University of Texas at Dallas   Dallas, USA

  Master of Science, Major in Computer Science, Data Science track. GPA: 3.72   Dec. 2015

National Taipei University of Education   Taipei, Taiwan

  Master of Science, Major in Computer Science, Embedded System track. GPA: 3.86   Jun. 2010

  Bachelor of Science, Major in Computer Science. GPA: 3.51   Jun. 2009

Honors & Awards

1st Prize, National Intelligent Robots Contest, Taiwan Ministry of Education   Taipei, Taiwan

- Constructed a housekeeper robot from very beginning, control the robot by used cell phone Nokia 3310.

- Analyze user command by Dual Tone Multi Frequency (DTMF) receivers chip HT9170.

- News interview [YouTube] http://youtu.be/sW_bO8OxeQI?t=34s

Skills & Additional

- C, Embedded System, Azure, ARM, RTOS, Android, BLE, OpenCV, Image Processing.

- Traditional and Simplified Chinese.

- Does not require a visa sponsorship.