

ChaoWei Liao

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Experience

Seagate Technology

Minneapolis, USA

Controller Firmware Engineer II

Feb. 2016 - Present

- Debugged Hard Drive firmware issues reported by customers or in-house testing over 12 different products.
- Working on various interface (SAS, SATA) and helped new feature developments.
- Triage and root-cause firmware issues.

Bayer Healthcare

New York, USA

Device R&D Firmware Engineer Internship

May. 2015 - Aug. 2015

- Developed an Android APP for automatic 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 1000 items.
- Narrowed down, Triage and root-cause the firmware/Software issues.

Ambarella

Hsinchu, Taiwan

DSP Firmware Developer

Oct. 2011 - Jan. 2013

- Improved Face-Object Tracking success rate 40%, reduced power usage 4.2% on Samsung DV.
- Ported system to different RTOS, from microITRON to ThreadX.
- Developed and maintained DSP firmware on ARM11 plus Dual Cortex platform.
- Designed a real-time speed alert for CarDV by using Hough transform.

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  http://youtu.be/sW_bO8OxeQI?t=34s

Skills & Additional

- C, Embedded System, ARM, RTOS, Android, BLE, OpenCV, Image Processing.
- Fluent in Mandarin and Traditional Chinese.