ChaoWei Liao

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Experience

Seagate Technology   Minneapolis, USA

Senior Firmware Engineer   Feb. 2016 - Present

- 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.
- Have experience working in Agile/Scrum Environment, and GIT as version control.

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).

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 ▶ http://youtu.be/sW_bO8OxeQI?t=34s

Skills & Additional

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