Aston Li 李柏穎

boyingli14@gmail.com gist.github.com/asli18 github.com/asli18 0928-745-035



Experience

Igis Technology, Hsinchu County, Taiwan

May 2019 - Present

Senior Engineer

- Optical Fingerprint Sensor Driver & HAL Development
- System Firmware Architecture Design and Development
 - ◆ BootROM, BSP, Security Update, ISR, IRQ APIs
 - ◆ Performance Optimization, Cache, Makefile, Linker Script
- Implement Command Line Interface(UART) and Porting FreeRTOS
- FPGA/SoC Verification(Digital/Analog)
 - ◆ UART, GPIO, Interrupt, Timer, TCON, SPI slave
 - ◆ DSP, DMA, System Bus, PMU, ADC, WFI, Power Saving mode
- Tools & Technologies
 - ◆ Andes N25f/AE250, ICE, Logic Analyzer, Scope, Arduino, Encryption, Hash, Git

Phison Electronics, Miaoli County, Taiwan

Sep 2017 - Apr 2019

Firmware Engineer

- NAND Flash Controller IC HAL Development
- FPGA/SoC Verification(Digital)
 - ◆ NAND Flash IP
 - ◆ Error Handling(Raid)
 - ◆ Coprocessor Communication(ARM R5 + Andes N8)
- Tools & Technologies
 - ♦ ICE, Logic Analyzer, Synopsys HAPS, Cadence Palladium, Verdi, SVN

Montage Technology, Taipei, Taiwan

Mar 2015 - Aug 2017

Software Engineer

- Montage Employee of the Year 2016 (the only winner in Taiwan)
- Implement IoT Applications(SDK) using FreeRTOS and Performance tuning
 - ◆ UART software Flow Control, AT CMD parser, Transparent Mode(Wifi-to-serial)
 - ◆ OTA update FW, Power Saving Mode, software I²C Master
 - ◆ Porting libraries: MQTT, wolfSSL, axTLS, cJSON
 - ◆ AWS IoT Server Connect Applications
- FPGA/SoC Verification(Digital/Analog) and HAL Development
 - ◆ GPIO, PWM, UART, I²C Salve, USB(UDC, CDC)
 - ◆ Timer, PMU, Interrupt, OTP, ADC, DAC
- Implement IC FT ATE and WiFi Module Mass Production Test Firmware
- Implement CI(Jenkins) and White-box Test Flow
- Tools & Technologies
 - ◆ C-SKY, ICE, Logic Analyzer, Scope, Digital Control Power Supply
 - ◆ FreeRTOS, Linux, eCOS, ROM, Bootloader, SVN

Delta Electronics, Taoyuan County, Taiwan

Jul 2014 - Feb 2015

Firmware Engineer

- Implement Semiconductor Fab Equipment Power Supply
- Implement High-Voltage DC Power Supply
- Tools & Technologies
 - ◆ DSP, MCU, ICE, PWM, ADC, DAC, Scope

Education

National Taiwan University of Science and Technology

Sep 2012 - Jun 2014

Master's degree, Electrical and Electronics Engineering
National Taiwan University of Science and Technology

Sep 2008 - Jun 2012

Bachelor's degree, Electrical and Electronics Engineering

Languages & Tools

C, Assembly, ISA, Bash Script, Python, Markdown; Vim, Meld, Ubuntu, Sourcetree

Certification

TOEIC Grade: 660

GEPT Degree: Intermediate