***Chun Che, Hu (Smith, Hu)***

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***Senior Embedded Firmware Developer – MCU and RTOS***

***Technical Experience***

* *SRAM data corruption.*
* *Common connectivity: (I2C, RS-232/UART, SPI, ADC, I2S, etc.)*
* *Hardware debugging with Digital multimeters, Oscilloscope, Logic analyzer*
* *Design & schematic review*
* *Audio processing system software/hardware architecture*
* *Driver Porting and Debug (SPDIF to I2S, ADC, Digital AMP, HDMI repeater, sensor…etc)*
* *Audio CODEC Driver Porting and Debug (Cirrus Logic CS495314)*
* *MCU bootloader and application section firmware upgrade*
* *Operating Systems: Real-time OS(FreeRtos), Embedded Linux*
* *Firmware Develop Platform: STM32 Cortex-M serious/ AMTEL/ REALTEK CPU*

*96 Boards HIKEY android 7 AOSP*

* *Experience Specification: HDMI 1.4b HDCP/EDID/CEC/ HDCP 1.4b repeater CTS/ VESA/ CEA 861/ IEC61937/ IEC60958*
* *Coding tool: C, Linux shell script, dos batch.*
* *Project Control: GIT, SVN, Redmine, JIAR*
* *IDE: Linux VIM, Xtensa Xplorer, Eclipse, IAR, Keil C*

***Professional Experience***

***Staff Engineer, <08/2015> to Present <CyweeMotion, Taipei, Taiwan>***

* In charge of wearable product, design and port MEMS sensors driver in ARM cortex M4
* Integrated human activity recognition algorithm in particular platform.
* Porting sensor HAL and sensor driver in particular platform (w AOSP; w/o AOSP).
* Optimized firmware executed efficiency to reduce power consumption.
* Designed physical and virtual sensors streaming with SOC and sensor hub.

***Project Lead Engineer, <12/2009> to <07/2015> <AMTRAN, New Taipei, Taiwan>***

* In charge of audio system project (VIZIO SB4451 Sound Bar-CES Best Home Theater)
* Integrated ADC, SPIF, class D amplifiers and bluetooth A2DP ...etc in audio system
* In charge of HDMI 1.4b such as CEC protocol and HDCP repeater CTS.
* survey solution and review supervisor schematic design
* Coordinate cross departments that include HW, PM, QA, factory and customer for project schedule and specification.
* Design and develop sound bar audio system architecture with FreeRTOS on STM32.
* Customize embedded LINUX system (MTK platform) to enrich TV functionality ATSC/DVB-T

***Education***

TAMKANG University – New Taipei City, Taiwan

Bachelor of Science, Department of Electrical Engineering <Jan/2005>