Jaehyek Choi

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Experience Summary

Embedded/Firmware Driver Developing :

2D/3D Display driver for Windows, Camera, USB, LCD, Serial I/O, irDA stack,

I2C, SPI, Bluetooth Profile, JPEG, MPEG4, Flash Device (NOR,NAND) in Realtime OS,

eMMC/UFS in android, WDM in Windows OS

**Programming Language and Development Platform**:

C/C++, Java, Python, Qt, MSSQL, Sqlite3, Assembly(MASM) On Intel and ARM

MS Visual Studio VC++, Git, Eclipse, Android Studio, Tensorflow, Theano, Caffe,

**Project Leader/Manager**:

Function Leader : Bluetooth

Project Leader: Mobile Phone( Racetac, PCC, Verizon Wireless )

Manager : Validation of Quality, and Improvement of Field Defect

**Statistics and SW Quality & Reliability**:

Six Sigma Master Black Belt with ANOVA, Linear/Multiple Regression Analysis,

multivariate analysis, FMEA, Gauge R&R, 5-Why, SPC , Minitab ( statistic tool )

**Image Processing:**

Realtime image detection using Faster-RCNN and YOLO based on tensorflow

( just started 1.5 year ago )

**Certificate**:

Six Sigma MBB(Master Black Belt) from LG Electronics

Work Experience

LG Electronics ( Mar 2004–present )

**Position Title : Software Project Leader/Manager**

**Role1: Developing Linux Kernel Driver and Component Reliability.**

* Developing: eMMC Kernel Device Driver for Android Phone
* Setup eMMC/UFS FTL(flash translation layer) Validation Equipment & processing

- Target vendor: Samsung, Toshiba, SK Hynix, SanDisk, Micron

* Automation : Android Phone UI & Screen Touch
* Analyzing : Field Failure Mode from Service Center DataBase.
* Monitoring the trend of FFR ( Field Fail Rate )

**Role2 : Feature Phone Software Project Leader**

* Project Leader: Verizon Wireless Phone (VX9800, VX9900).

Motorola Korea (June 2002–Dec 2003)

**Position Title : Embedded Software Engineer & Function Leader**

**Role : Writing Device Driver for Mobile Phone and**

**Function Leader of Bluetooth Profile**

* Writing Device Driver : LCD, NOR Flash Memory, Power management
* Project : RaceTac, T720,
* Function Leader : Bluetooth stack(Headset, Hands-free, DUN )

Synertek Korea inc. (April 2000–June 2002)

**Position Title : Embedded Software Engineer**

**Role : Writing device driver for PDA-one Chip Design.**

* Writing driver : USB image, USB Storage, USB Camera for Realtime OS.
* Porting Protocol : IrDa Stack, TCP/UDP/IP
* Guiding a H/W design Structure : JPEG, MPEG4

SAMSUNG (Feb 1990–Mar 2000)

**Position Title : Firmware Software Engineer**

**Role : Writing Display device driver for Graphic Accelerator One Chips**

* Guiding a H/W design Structure for Graphic Chip
* Writing the 2D, 3D Display Accelerator Device Driver for the Windows
* Writing the Video Bios for graphic Chip
* Supporting all of windows products.