Chi Lin Chang

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EXPERIENCE

Mentor Graphics, LINK, Taiwan/Hsinchu— *Senior Software Engineer*

June 2019 - PRESENT (AMS BU)

➢ Model extractor QT Tool development and common model interface with simulator.

Mediatek, LINK, Taiwan/Hsinchu— *Manager/ Technical Manager*

1. **June 2012 - January 2019 (CTO BU)** *(more than 3 years' team management experience)*

➢ Camera team for smart phone project

- Manage the team for camera 3A & ISP flow and support image quality tuning flows on our camera C++ modules. Familiar to android camera interface, camera ISP/3A on android C++ native framework and our bit-True flow with CModel by python scripts.

- Involved in the CV algorithm survey for ADAS based OpenCL + OpenVX or OpenCL + openCV or Halide. (ex: canny edge, pedestrian/face detection) and survey DNN – Caffe for the possibility of ADAS application. Caffe, OpenCV, Halide are all based on C++.

- Hands on IQ tuning tool development. Use Python .NET to integrate with C# and python work together seamlessly in tool. Familiar to C# and Python.

➢ GPU team for smart phone project

- Hands on to develop the GPU driver (based on mesa 9.0) in the multiple environments, (ex: windows, Linux, android emulator, FPGA with Linux console, FPGA with android K, Tablet with android L) and be charge of the IP bring up in the first IC.

- Develop GPU mandatory parts in android, like ION, gralloc, fence, dequeue & enqueue flow and lead to pass GLES conformance & benchmark (ex: Antutu, GFXBench)

- Develop for GPU two IP generation - Ruby, Sapphire and lead to land this in-house GPU IP on MT8127S tablet project and internal MP success on the same date with its sibling IC MT8127M (GPU = Mali)

- Join the ADAS platform survey, study MISRA-C, ISO26262, automotive SPICE

2. **January 2007 - May 2012 (TV BU)** *(more than 4 years' team management experience)*

➢ Multimedia team for digital TV project (i.e. MT53xx)

- Manage to support multiple video container format and codec development

- Manage to support multimedia (from USB/SD card) and streaming playback (from network) in digital and android TV based on android C++ native framework.

- Manage to support the project for SONY, LG, Sharp, Panasonic related project support and manage to support GStreamer in LG project.

➢ Multimedia team for analog TV project (i.e. MT82xx)

SKILLS

C and C++

Java, C# and Python

Android framework in java/native/kernel layers

Linux Kernel and FPGA emulation

8032 and ARM RISC

OpenCL, OpenVX, OpenCV

OpenGLES, GPU

DNN - Caffe

ASP, JSP, CSS and HTML

CERTIFICATION

ISO 26262 Basic Training Course (Tuv Nord)

LANGUAGES

Chinese, English

- Hands on the integrate DVD multimedia features to analog TV project

- Manage to support more file system features, ex: NTFS, Chinese file name support, unlimited file number and folder number support

- Manage the customer project for Samsung, TCL, Hisense related project support.

3. **February 2003 - December 2006 (DVD BU)**

➢ DVD team for alternative application based on DVD player

- DVB-T setup box embedded system on MT8205 for transport stream demux, feature development, (ex: channel scan/selection, EPG display, channel digest).

- The major RD for automotive infotainment platform (ex: Liteon) as the companion ship

➢ DVD team for DVD player project

- Hands on the DVD player features (ex: CDDA, CDG, mixed CD, SACD), file system and MP3 related. Familiar to 8032/ARM boot up flow.

- Hands on the SONY/LG related project (desktop/portable) on MT1379/1389 and be the windows to handle all kinds of issues in these project (UI, Panel, VFD...).

StarkTech, LINK, Taiwan/Hsinchu— *Project Supervisor*
October 2001 - January 2003

➢ E-Commerce team for enterprise applications

- Responsible for web development in application server, EJB and web programming (ASP/JSP/CSS/HTML ...) for enterprise application

- Involved to use Jboss, IBM Websphere and Oracle Weblogic J2EE to develop for powerchip project to audit the status of FAB platforms.

Acer, LINK, Taiwan/Taipei—*Technical Leader*
June 1998 – September 2001

➢ Application development team for PC bundled applications

- Responsible for video email and video conference client application development. Familiar to Virtual Studio MFC framework based on C++.

- VOIP C++ application integration with NetMeeting, familiar to SQL, ActiveX, H.323, SNMP, AAA, Radius.

EDUCATION

National Taiwan University, Taiwan/Taipei — *Master*
September 1994 - June 1996

The major is NTU Computer Science and Information Engineering Department, Multimedia Lab - The title of paper is "Discrete Cosine Transform Program Generator and its Related Research ".

National Taiwan University, Taiwan/Taipei —*Bachelor*
September 1990 - June 1994

The major is NTU Computer Science and Information Engineering Department