Truong Pham
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OBJECTIVE

Specialist embedded system.

EDUCATION

Phan Boi Chau Specialized High School, Nghe An - Viet Nam *09/2001 - 06/2004*
2rd prize Vietnam National Physics Contest for high school - 2004
Bronze medal 5th Asian Physics Olympiad - 2004

Hanoi University of Science and Technology *09/2004 - 06/2009*
B.S. in Automatic Control/Electrical Engineering department
Graduation thesis: 48V DC - 220V AC, 500W Converter
3rd prize research student of Electrical Engineering department - 2009
Overall GPA: 8.15/10

TECHNICAL STRENGTHS

Programming Language: C/C++.
Multimedia processing: MPEG2-Video/H.262, AVC/H.264, HEVC/H.265, MPEG2-TS.
OSS: FFmpeg, GStreamer, Linux Kernel, HEVC Model(HM), AVC Joint Model(JM).
Hardware: Microcontroller 8/16/32bit, SOC base on ARM, MISP.

FOREIGN LANGUAGE

Vietnamese: Native
English: Intermediate, Communicate fluently
Japanese: nearly N2

EMPLOYMENT & EXPERIENCE

VTI Co Limited 08/2018 - Present
Embedded Sofware Engineer *Tokyo, Japan*

· **3D TOF sensor**: Develop framework and driver of 3D TOF sensor on Android. (08/2018 - Present)
Responsibility: Implement image filter using arm NEON instruction. Investigate improve performance.

FPT Japan 07/2013 - 07/2018
Embedded Software Engineer, Bridge System Engineer *Tokyo, Japan*

· **Linux Kernel BSP**: Investigate to port the property device driver part on SOC of the customer to upgrade Linux kernel 3.18.24 to 3.18.82. (5/2018 - 7/2018)
Responsibility: Investigate USB module.
· **eT-Kenel BSP**: Porting HD-DMAC, HS-SPI, I2S, ENC/DEC driver on eTKernel to new SOC. (10/2017 - 04/2018)
Responsibility: Offshore manager. General support technical & management.
· **CAN-USB tool**: Develop tool which instead of ECUs in CAN network to test Automotive Head Unit. (04/2017 - 10/2017)
Responsibility: Offshore manager. General support technical & management.
· **4K Camera Recorder**: Develop firmware of security & 4K professional camera, the most popular 4K recorder camera product in Japan. (08/2015 - 04/2017)
Responsibility: Member of video encoder team, support H.264, H.265.

· **4K Digital Television**: Develop firmware of 4K digital television, the most popular 4K television product in Japan. (07/2013 - 07/2015)
Responsibility: Member of demuxer team, handle input multimedia data, support MPEG2-TS, MP4 file format.

FPT Software 07/2009 - 07/2013
Embedded Software Developer, Team leader *Hanoi, Vietnam*

· **TIVI-Driver**: Evaluate GPIO, Timer, SPI, I2C driver on linux kernel. (02/2013 - 06/2013)
Responsibility: Develop test program, test & investigate problem.
· **G-BOOK**: Develop telematics subscription service in-car system. (09/2012 - 02/2013)
Responsibility: Develop feature display received message from call center.
· **Android4.0 BSP BugFixing**: Resolve problem of linux driver, media framework when upgrading from Android 2.3 to 4.0. (04/2012 - 09/2012)
Responsibility: Investigate and support problem of SPI, I2C, GPIO driver and media framework.
· **Audio Video Decoder 2**: Develop core multimedia processing firmware following to API of OpenMax-IL to integrate with Stagefright on Android Media Framework. (11/2011 - 04/2012)
Responsibility: Develop video decoder component, support H.264 video coding format.
· **Audio Video Decoder 1**: Develop firmware of digital television support DVB-T. Support trick play (slow, fast) with MP4, MKV, ASF, AVI file format. (08/2009 - 11/2011)
Responsibility: AVC/H.264 decoder, Video display.

Binh Anh Electronics 11/2007 - 02/2009
Embedded Sofware Developer *Hanoi, Vietnam*

· Using PIC16F/33F serial, RF module, LED 7 Segment to develop some utility solution.

OTHER ACTIVITY

Side project:
- Video watermarking: Using motion vector to insert specific data, the implementation uses H.264 video format.
- Video transcoder: Proof Of Concept transcode from MPEG2 to H.264 to reduce bitrate by using Raspberry PI .
Blogger: https://gravieb.wordpress.com
Sefl study: Fundamentals of Digital Image and Video Processing, Machine Learning, further study compiler & RTOS.
Book reading: Technical, Physics, Politics, Soft skill.