

LUCKY TYAGI
(Time's Person of the Year 2006)

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OBJECTIVE

To be part of an organization which is equally or more passionate about LINUX than I am. Where I am presented with new challenges and encouraged to contribute my passion and skills, while learning from others and self, in order to achieve the goals of the organization.

Employment History

E-CON Systems India Pvt. Ltd.

Designation : Project Engineer
Duration : June 2014 to Till date

Job Profile

- Integration of Device Driver for peripherals(ADC, DAC, HDMI screen, LVDS panel) on 32 bit cortex A9 processors.
- Development and integration of embedded Linux OS for ARM cortex A9 processor i.MX6 based SOM.
- In charge of BSP development using Yocto Project (Poky- Dora, Dizzy, Fido and Jethro) both using GUI and CUI.
- Software Development for Embedded Device using C and Shell Scripting.
- Board bring-up, minimal boot-loader, boot-loader (U-Boot), 3.x Linux Kernel and user-space development.
- Continuous integration of tools, scripts, software and test applications for interfaces like USB OTG, Camera, Bluetooth, Wi-Fi, Ethernet etc.

Technical Expertise

Languages	C, Shell Scripting, Yocto Recipes
Operating Systems	Linux
Linux Tools	Makefile, GNU GCC, GDB, KGDB, Yocto Project
Microprocessors	Cortex A9 Processor (i.MX6)
Tools	Git repo
Protocols	I2C, SPI, RS-232, RS-485

Projects

1. Developing a Yocto Build Setup for custom BSP for eSOMiMX6.

Developing a Yocto Build Setup includes creating our own BSP Layer, adding machine support and adding custom recipes.

2. BSP development for i.MX6 SOM :

BSP development contains porting Linux Kernel, U-boot and Root file-system for the custom board.

- Porting U-boot (2013.04 and 2014.04).

- Porting Linux Kernel (3.10.17 and 3.14.28).
- Porting Ubuntu (12.04, 14.04 and 14.10) for eSOMiMX6.

3. Diagnostics code development for eSOMiMX6 :

Diagnostics code requires minimum or no human input to test the peripherals of the eSOMiMX6 while maintaining minimum time of execution and completion.

- C code application to test and diagnose some peripherals in boot-loader like eMMC, SD card, RAM and GPIO Pins.
- Shell Scripts and C code for testing some peripherals in Kernel level like USB OTG Client, USB OTG Host, Ethernet, Wifi, Bluetooth, SATA, RS-232, RS-485 etc.

4. BSP development for i.MX6 based custom base board (NGPP) :

- Porting boot-loader for new configurations.
- Porting device tree file for changed and added peripherals.
- Preparing user test scripts, C applications and diagnostics code for testing peripherals.
- Modifying boot-loader for higher temperature functioning.
- Writing a set of fully automated testing scripts for chamber test of the NGPP custom board.

5. BSP development for Ubuntu OS based eSOMiMX6

- Porting Ubuntu 12.04 for eSOMiMX6 Dual Lite.
- Porting GUI in the Ubuntu 12.04 for eSOMiMX6.

6. Developing device drivers for eSOMiMX6.

- Driver development for 8 Channel ADC chip.
- Driver development for 12-bit, 4 Channel DAC chip.
- Driver development for Power Key Shutdown implementation.

7. Implementing custom ISRs and System Calls in Linux Kernel.

Education Qualification

EXAMINATION	INSTITUTE	% / CGPA	YEAR
B. Tech. (E.E.E)	Amrita Vishwa Vidyapeetham	7.88	2010 – 2014
CBSE 12 th	Kendriya Vidyalaya	81.8	2008 – 2009
CBSE 10 th	Kendriya Vidyalaya	88.8	2006 – 2007

Personal Skills

- Exploring Linux, learning Linux and living Linux.
- Ability to deliver on or before time limit on continuous basis.
- Ability to work in Multi-Cultural and Multi-Functional Team environment.
- Excellent Communication Skills (Written and Verbal).
- Extremely detail-oriented and organized.

Hobbies

- Fitness
- Know-Why's
- Physics
- Listening to instrumental music
- Drawing simple cartoons

Personal Details

Permanent Address	Tyagi Niwas, 1 st Street, Sai Baba Colony, Modinagar, U.P
Date of Birth	2 nd March 1992
Current Location	Chennai, Tamil Nadu
Nationality	Indian
Languages	English and Hindi

Declaration

I am confident to my best ability to work in a team facing challenges and showing excellence on a constant basis.

I hereby declare that the information furnished above is true to the best of my knowledge.

PLACE :

(LUCKY TYAGI)