

Training Content Highlights.

: - Getting Started with Embedded Linux Development: -

\$ OVERVIEW OF LINUX & EMBEDDED:

(3Hrs)

- Overview of Linux.
- Overview of Embedded Linux.
 - Reason choosing the Linux for embedded.
- Understanding of the Embedded Resources.
- Discussion on the current understanding of embedded and Linux.

\$ EMBEDDED LINUX HARDWARE/DEVELOPMENT BOARD:

(6Hrs)

- Overview of the embedded Linux illustration board. (Beagle bone).
- Understanding of the CPU and hardware peripherals of the board.
- Technical Reference Manual.
- Schematics.

\$ BOOTING PROCESS OF EMBEDDED LINUX:

(3Hrs)

- How device boot from power on reset to login prompt.
- Building block of the embedded Linux.
- Embedded Linux Components – Bootloader, Kernel and File system.
- Illustration with source code and console on the board.
- Basic understanding on GIT- Control Version System.

\$ BOOTLOADER:

(6Hrs)

- Importance of the bootloader (U-BOOT).
- Functions of the bootloader.
- Source code overview of u-boot.
- Support of the 500+ boards on uboot.
- Boot Media.
and many more stuffs...!!
- **Live Demonstration on the embedded Linux board**

\$ KERNEL (HEART OF EMBEDDED LINUX):

(6Hrs)

- Overview of kernel.
- Source code repository of the Linux/Embedded devices.
- Kernel Configuration.
- Kernel Compilation.
- Device driver component
- Kernel Modules.
- Device Tree Structure.
- **Live Demonstration on the embedded Linux board.**

\$ File System. (HEART OF EMBEDDED LINUX):

(6Hrs)

- Overview on different File System.
- Kernel Space Vs User Space.
- Directory Structure overview.
- Home of the embedded Linux.
- Packages and its installation.
- Busy Box Tools.
- Processes in the embedded Linux.
- How file system is created.
Many more....!!
- **Live Demonstration on the embedded Linux board.**

\$ Overview of open embedded build environment.

(6 Hrs)

- Overview of build environment of embedded Linux.
- Cross Development Environment.

Embedded Linux Board: Beagle Bone Black –Rev C



GETTING STARTED WITH EMBEDDED LINUX!!!

TRAINING DETAILS:

- **DURATION OF TRAINING: 3 Months** (Total: 36-42 Hrs)
- **TIME:** Every Saturday & Sunday – Weekend Batch only. (Flexible Timing)
- **You will get/learn**
 - # Hands-on training on embedded board.
 - # Per Batch Max 5 Students only.
 - # Guaranteed Learning of the Embedded Linux.
- **Who Should Attend Linux Training**
 - # Working Professionals, who are looking to start career as Linux Developer.
 - # Working Professionals, looking to enhanced the embedded Linux skill.
 - # A Student/Person, who feared with embedded Linux.
 - # Enthusiast who will start learn embedded Linux.
 - # A student/Person, passionate about open source system.
- **About Trainer:**

A Trainer is highly qualified, having 9+ years of experience in the IT/Electronics field. He worked in the embedded Linux domain more than 7 years in the MNC's like Infosys, UTC and Intel. He has experienced in the embedded Linux based products. He had completed Bachelor of Engineering degree with first class with distinction from Pune University.