

Embedded Linux Porting Training



Training Highlights:

- Learn through Practical's
- Work on Latest ARM Core like Cortex A5/A8/A9
- Real World Examples and Projects
- Assured Post Training Support
- Unlimited Access to the Hardware Boards for Practical's
- Training Tutorials & data available online

Embedded Linux Porting

Duration: 2 Days

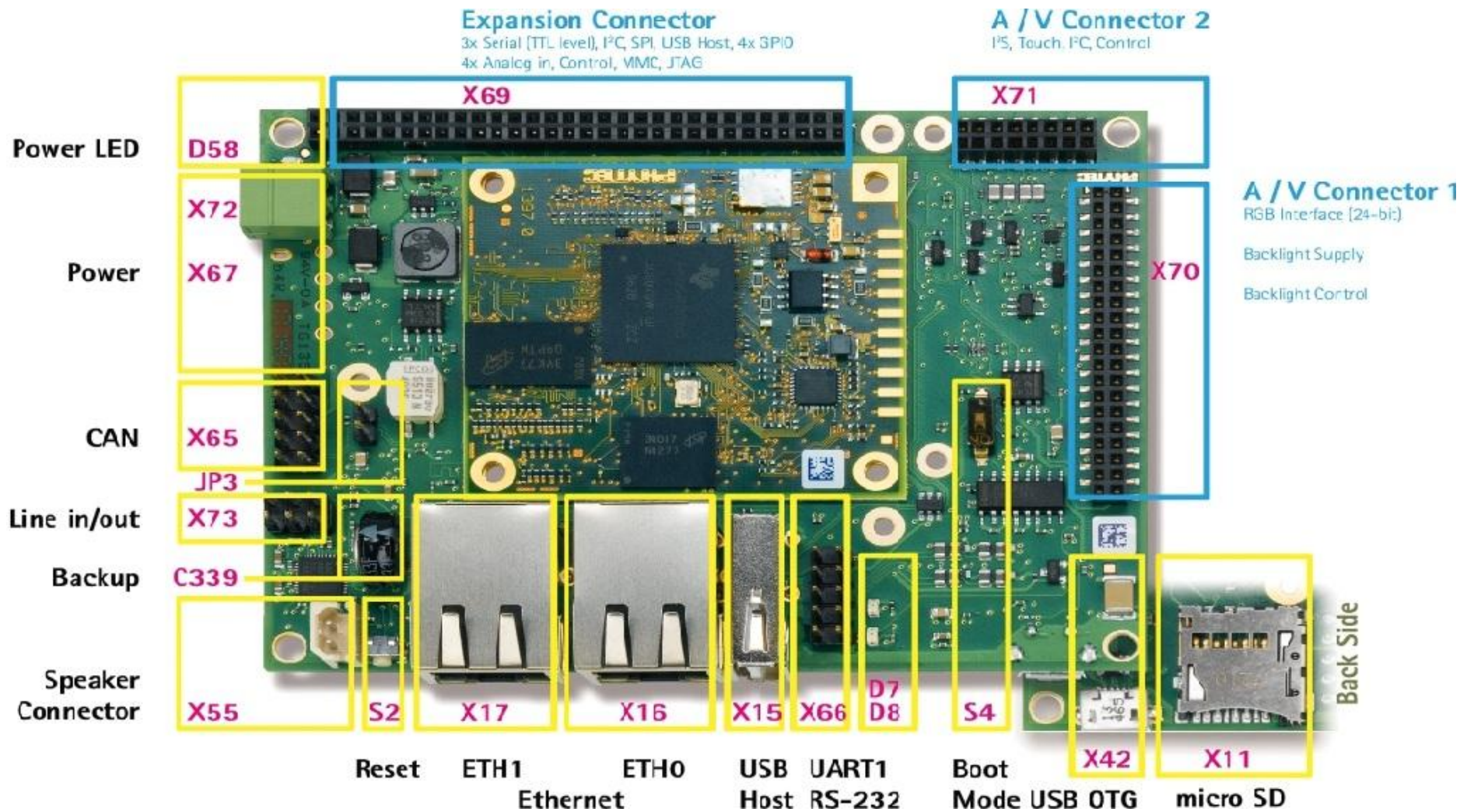
Timings: 9:30 AM to 5:30 PM

Day-1[Embedded Linux Intro & Board Bring-up]

Time	Topic	Activities
09:30 - 11:00	Introduction, Setup & Hardware	<ul style="list-style-type: none">➤ Introduction to Embedded Linux➤ ARM Processor Basics & Families➤ ARM Board Details and Schematic Overview➤ Boot Process➤ Host PC Setup for eLinux Development
Tea Break		
11:15-12:45	Toolchain & Hardware Practical's	<ul style="list-style-type: none">➤ Board Boot Options➤ Flashing Bootloader & Linux Kernel on Board➤ Setting up TFT and Running Application on Board➤ Toolchain & its components➤ How to build toolchain
Lunch Break		
13:30-14:30	Bootloader U-Boot	<ul style="list-style-type: none">➤ Introduction to Bootloader➤ Primary Bootloader (TI X-Loader)➤ Bootloader Commands and their usage
14:30-15:30	U-Boot Porting	<ul style="list-style-type: none">➤ Bootloader Source Code Structure➤ Compiling Bootloader➤ How to port Bootloader on ARM Based Hardware➤ Patching Bootloader
Tea Break		
15:45-17:30	Customizing Bootloader	<ul style="list-style-type: none">➤ Modifying Bootloader for new feature➤ Modifying Bootloader to support new device➤ Command Line Arguments & ATAG➤ Booting with SD Card➤ Setting up NFS Server➤ Booting with NFS Server➤ Linux Kernel Compilation

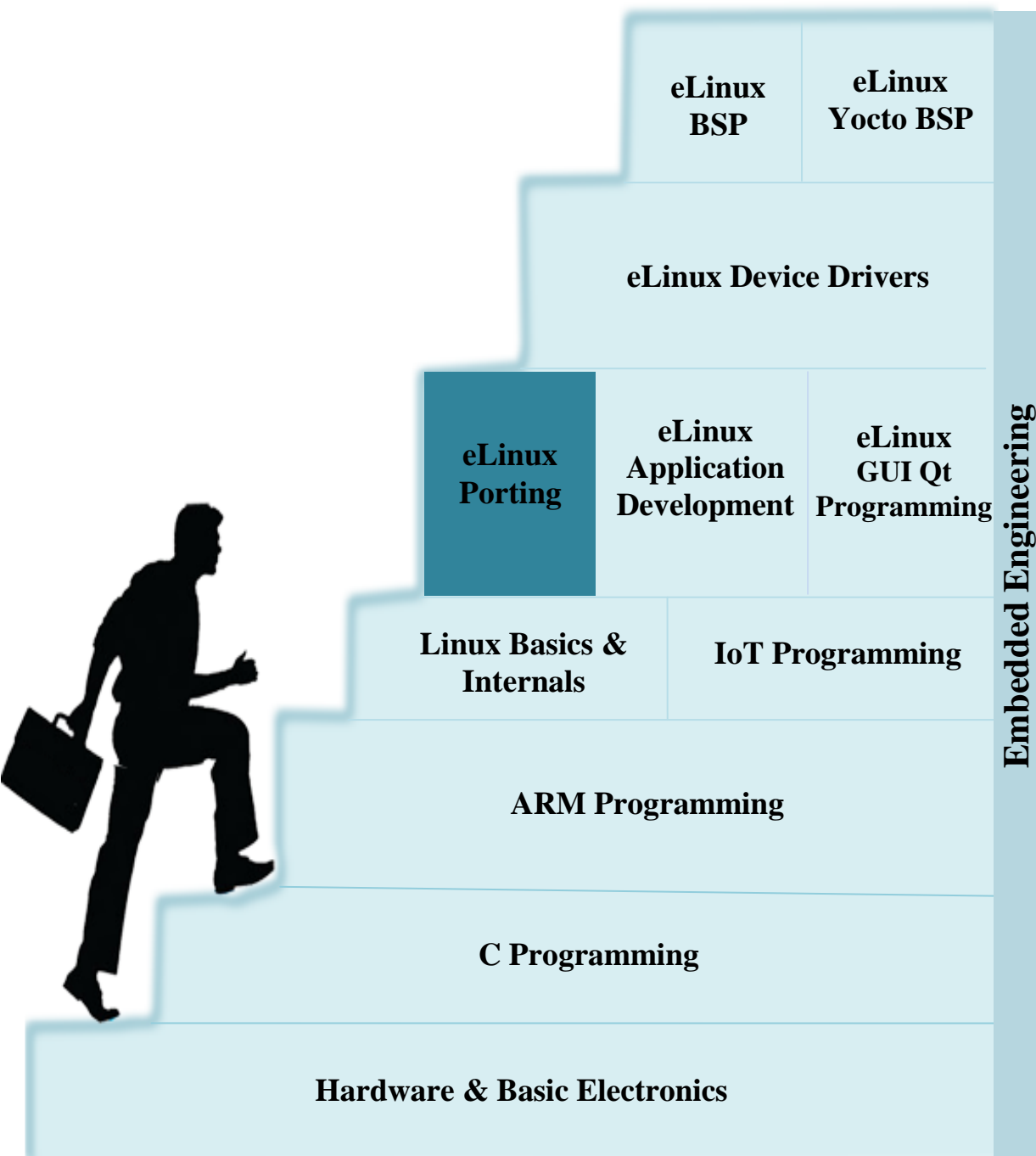
Day-2

Time	Topic	Activities
09:30 - 11:00	Linux Kernel	<ul style="list-style-type: none">➤ Introduction to Linux Kernel Arch➤ Kernel Dir Structure➤ Kernel Layers H/W dependent and independent (BSP)➤ Kernel Build System (KConfig)
Tea Break		
11:15-12:45	Kernel Porting & Compilation	<ul style="list-style-type: none">➤ How to configure and compile for ARM Hardware➤ Type of kernel images (vmlinux, zImage, uImage)➤ Kernel initialization process➤ How to port Kernel on New ARM Hardware
Lunch Break		
13:30-14:30	Kernel Modification	<ul style="list-style-type: none">➤ How to modify the Kernel code➤ How to integrate new driver / module in kernel image➤ Building static and dynamic kernel modules
14:30-15:30	Root File System	<ul style="list-style-type: none">➤ Components of RootFS➤ Types of RootFS➤ Different types of Flash Device (NOR / NAND)➤ Building RootFS from scratch and using Build System (Buildroot)
Tea Break		
15:45-17:30	Embedded Application Development	<ul style="list-style-type: none">➤ How to develop embedded applications➤ Debugging application on target using GDB➤ Running sample Web-Server Application➤ Using Eclipse for embedded application development



Embedded Engineering Steps

Locations / Fees / Duration



Locations

- Pune | Bangalore | Hyderabad | Chennai | Kochi | Delhi

Duration:

- 2 Days

Fees:

- 6000.00 INR || Europe: 500 Euro || USA: 500 USD
- [Register Now](#)

After development workshop:

- When you return to work, you are entitled to schedule a technical discussion with the course instructor for help and guidance as you apply your new skills to your projects.

Address:

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