



# Embedded Linux Systems Training (Intermediate)

## 5-Day Session

Title	Embedded Linux Systems Training
<b>Overview</b>	C library and cross-compiling toolchains Bootloaders Kernel (cross) compiling and booting Custom Distributions Filesystems – Block and Flash Lightweight building blocks for embedded systems Embedded system development tools Embedded Development and Debugging Tools Device Drivers Practical labs with Raspberry Pi
<b>Duration</b>	5 Full-Day Session – 40 hours/8 hours a day 50% Theory, 50% Practical
<b>Language</b>	C, Scripting Languages
<b>Audience</b>	People wanting to move to embedded domain
<b>Pre-requisites</b>	<ul style="list-style-type: none"> <li>• Basic knowledge of C programming in Linux environment</li> <li>• Linux command line and Linux Architecture</li> <li>• Bring your own Laptops so as to be able to have the development environment always</li> </ul>
<b>Pre-Work</b>	<ul style="list-style-type: none"> <li>• Install any flavour of Linux on your laptops e.g. Ubuntu, Fedora, Suse</li> <li>• For those who do not want Linux natively on their laptops can install VirtualBox with Ubuntu guests</li> <li>• Tutorials for Linux Installation, VirtualBox, and Programming in the Linux environment will be uploaded on the site in due course of time</li> </ul>
<b>Materials Provided</b>	Printed and Soft copy of the presentation material and labs exercises with solutions
<b>Hardware Lab Equipment</b>	The Raspberry Pi 3 Model B <ul style="list-style-type: none"> <li>• Quad Core 1.2GHz Broadcom BCM2837 64bit CPU</li> <li>• 1GB RAM</li> <li>• BCM43438 wireless LAN and Bluetooth Low Energy (BLE) on board</li> <li>• 4 USB 2 ports</li> </ul> <p>The RPi 3 is only provided for Lab exercises. Students wanting to purchase one for their reference can buy during the training.</p>

