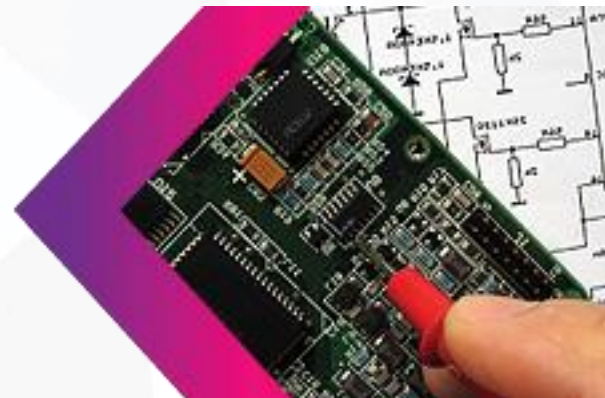


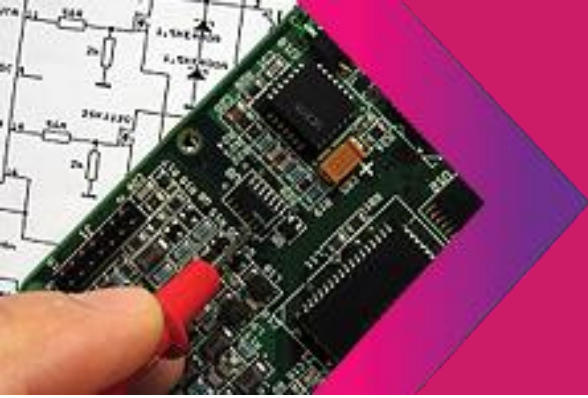


"Here to take you beyond"



Yocto Project Building Embedded Linux Workshop





NOW FOR SIMPLIFIED SOLUTIONS

Yocto project - Building Embedded Linux - Workshop

- **Objectives:**

- ✓ Understand the Yocto Project and its organization
- ✓ Build and customize image using Yocto and run it on target
- ✓ Gain knowledge about writing recipes and adding layers
- ✓ Add custom application and its recipe to the build system.
- ✓ Development workflow using Bitbake
- ✓ Understand BSP layers and distro layers in Yocto Project

- **Duration:**

- ✓ 3 days (One and half weekend)
- ✓ 6 session (Duration of each session: 3 to 3.5 hours)

- **Platform:**

- ✓ Any Linux Platform supporting QT (Preferably Ubuntu)
- ✓ Beagle Bone Black

- **Delivery method:**

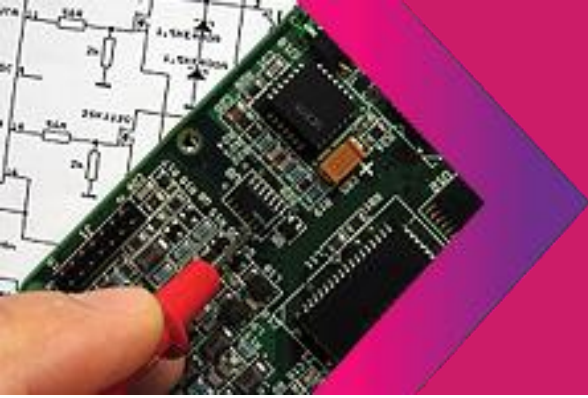
Workshop based approach with demo and hands-on exposure

- **Pre-requisites:**

Basic Linux usage

- **Detailed course contents:**

- ✓ **Introduction to embedded Linux build systems**
 - What is a build system
 - List of build systems
 - Benefits of build system
- ✓ **Yocto Project and Poky Overview**
 - Yocto Project Overview
 - The Yocto Project lexicon
 - The Poky reference system overview
 - Poky source tree
- ✓ **Yocto project basic setup and build**
 - Environment setup
 - Configuring the build
 - Building an image



NOW FOR SIMPLIFIED SOLUTIONS

- ✓ **Yocto project advanced usage**
 - Advanced configuration
 - Packages variants
 - Packages
 - The power of BitBake

- ✓ **Writing recipes - Basics**
 - Recipes - Overview
 - Organization of a recipe
 - Applying patches
 - Examples of recipes

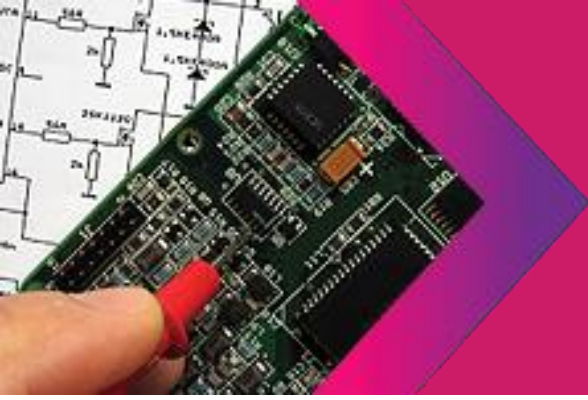
- ✓ **Writing recipes - Advanced**
 - Extending a recipe
 - Append file example
 - Advanced recipe configuration
 - Classes
 - Binary packages
 - BitBake file inclusions

- ✓ **Layers**
 - Introduction to layers
 - Creating layers

- ✓ **BSP Layers**
 - Introduction
 - Generating a new BSP layer
 - Hardware configuration files
 - Formfactor
 - Bootloader
 - Kernel

- ✓ **Distro Layers**
 - Overview
 - Creating a distro layer
 - Distribute the distribution

- ✓ **Images**
 - Introduction to images
 - Image types
 - Package groups



NOW FOR SIMPLIFIED SOLUTIONS

✓ Application development workflow

- Recommended workflows
- The Yocto Project SDK
- Devtool
- Quilt



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