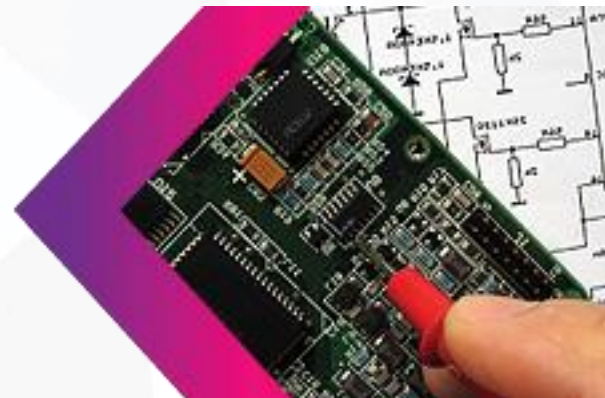
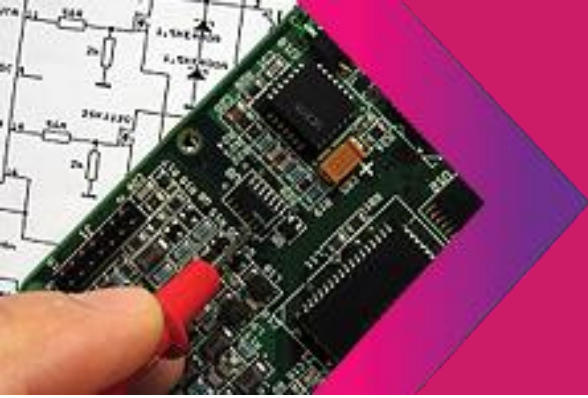




QT Application development for Embedded Systems Workshop





NOW FOR SIMPLIFIED SOLUTIONS

QT Application development for Embedded Systems Workshop

- **Objectives:**

- ✓ Develop good understanding about Qt for Embedded Linux
- ✓ Learn how to setup Qt for Embedded Linux
- ✓ Gain knowledge about Qt for Embedded for different versions of Qt
- ✓ Learn to develop, build, deploy and debug Embedded Application using Qt

- **Duration:**

- ✓ 2 days (One weekend)
- ✓ 4 session (Duration of each session: 3 to 3.5 hours)

- **Platform:**

Any Linux Platform supporting QT (Preferably Ubuntu)

- **Delivery method:**

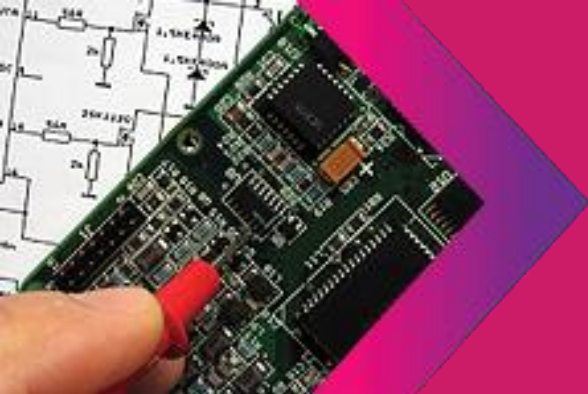
Workshop based approach with demo and hands-on exposure

- **Pre-requisites:**

Knowledge about Qt programming using C++

- **Detailed course contents:**

- ✓ **Overview and Architecture**
 - Introduction
 - Architecture - Qt for Embedded Linux
 - Qt versions
- ✓ **Qt Toolchain Generation and Installation**
 - Qt Toolchain Generation
 - Qt SDK Installation
 - Qt Creator Installation and Setup
 - Configure Target Connection and Toolchain
 - Create New Device Configuration
 - Setup New Build & Run Configuration
- ✓ **Create Qt Project and Application for target**
 - Create New Qt Project
 - Selecting the target option



NOW FOR SIMPLIFIED SOLUTIONS

- ✓ **Build Your Project and Deploy Application**
 - Build Your Application.
 - Deploy Application Binary to Target

- ✓ **Run and Debug Your Application on the Target**
 - Run Your Application
 - Debug Your Application

- ✓ **Qt for Embedded Linux Classes**
 - Important Qt classes for Embedded Linux

- ✓ **Qt Platform Abstraction**
 - Platform Plugins for Embedded Linux Devices
 - Input handling
 - Fonts
 - Platform Plugins for Windowing Systems
 - XCB
 - Wayland

- ✓ **Boot to Qt and Emulator**
 - Setting up Boot to Qt
 - Setting up Emulator
 - Using the Emulator

- ✓ **Developing an embedded application using sensors**
 - Creating Charts/Graphs in QT
 - Plotting charts with static data
 - Zooming
 - Placing widgets on charts
 - Reading sensor data
 - QT sensor classes
 - Plotting charts with real time data from sensors



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