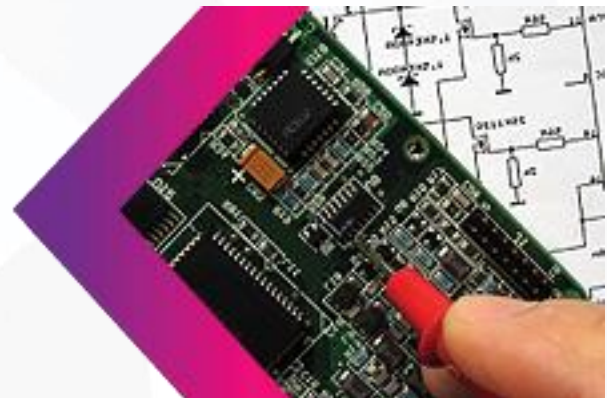
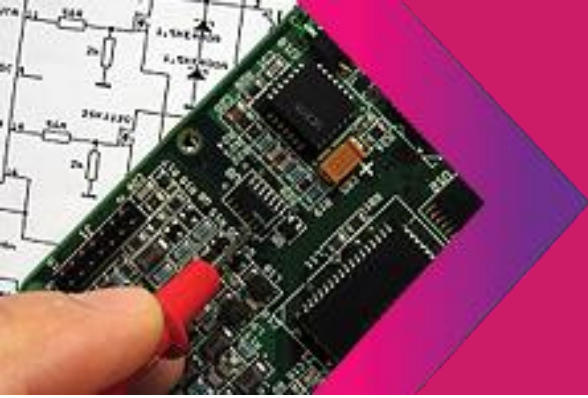




PROGRAMMING WITH QT Workshop





NOW FOR SIMPLIFIED SOLUTIONS

Programming with QT on desktop - Workshop

- **Objectives:**

- ✓ To understand the QT framework from the perspective of an application programmer
- ✓ Get familiar with QT specific design and programming to build GUI based applications.
- ✓ Learn to use classes and modules supported by QT and debug applications.
- ✓ Workshop based wherein you build the application with many DIYS
- ✓ Should be able to build concrete applications using QT framework
- ✓ Develop multi-threaded applications
- ✓ Learn to build applications using painting (2D graphics)
- ✓ Build Multimedia applications using QT

- **Duration:**

- ✓ 4 days (Two weekends)
- ✓ 8 session (Duration of each session: 3 to 3.5 hours)

- **Platform:**

Any Linux Platform supporting QT (Preferably Ubuntu)

- **Delivery method:**

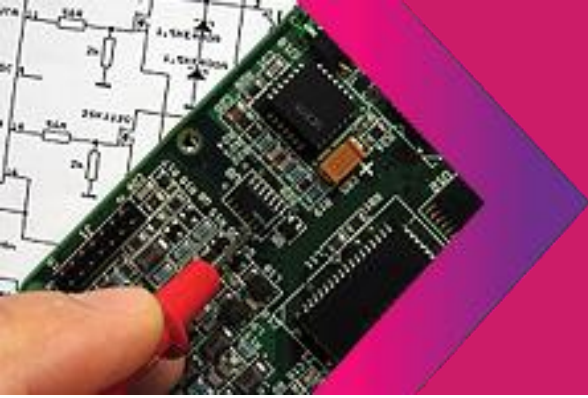
Workshop based approach with demo and hands-on exposure

- **Pre-requisites:**

Good programming and proficient in C++ language

- **Detailed course contents:**

- ✓ **Introduction to Qt**
 - Features supported by QT
 - Getting started
 - *Illustration: Hello World*
- ✓ **Development Environment**
 - Using QtCreator IDE
 - Installing the necessary packages and QT modules
- ✓ **QT Framework Core Concepts**
 - Objects in QT
 - Signals and Slots
 - *Illustration: Name Length*



NOW FOR SIMPLIFIED SOLUTIONS

- Event Handling and Event Loop
- MOC
- Automatic memory management

- ✓ **QT Core and Utility Classes**
 - Logging messages
 - QString
 - QTextStream
 - QList
 - Directory and File access
 - Date and Time
 - File handling

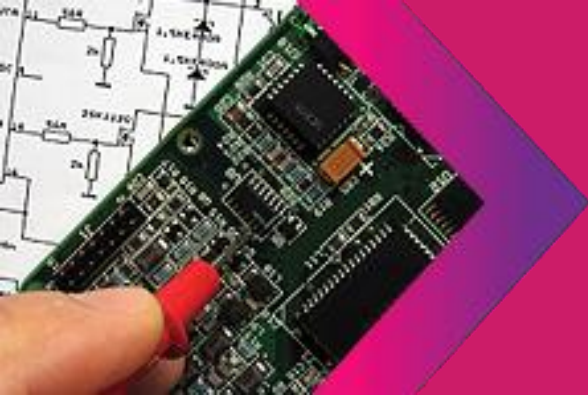
- ✓ **Developing UI using Widgets and Designer**
 - Creating UI using QT Designer
 - DIY: Calculator App
 - Layout management
 - VBox, HBox, Grid Layout
 - *Illustration: Different Layout Options*
 - Dialogs and Windows
 - Message Dialogs
 - Main Window
 - Other dialogs
 - *Illustration: Creating and Displaying dialogs*
 - Important Widgets
 - DIY: Create App 2
 - Handling UI events

- ✓ **Design Pattern**
 - Model View Architecture
 - Delegates
 - Drag and drop

- ✓ **Painting**
 - Painting fundamentals
 - Creating objects
 - Transforming objects
 - Color handling
 - Handling keyboard events

- ✓ **Multi-threading in QT**
 - Concepts
 - Thread classes
 - Thread Synchronization

- ✓ **Understanding the build system**



NOW FOR SIMPLIFIED SOLUTIONS

- ✓ Applying Styles
- ✓ QT resource system
- ✓ Debugging applications
- ✓ Creating custom signals
- ✓ Multimedia using QT
- ✓ QT container classes
- ✓ Preview of QML



Emertxe Information Technologies Private Ltd
#83, 1st Floor,
Farah Towers,
MG road,
Bangalore - 560001

T: +91 809 555 7 333 (M), +91 80 4128 9576 (L)

E: training@emertxe.com

www.emertxe.com