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Raspberry Pi IOT with 5 Live Projects Designing

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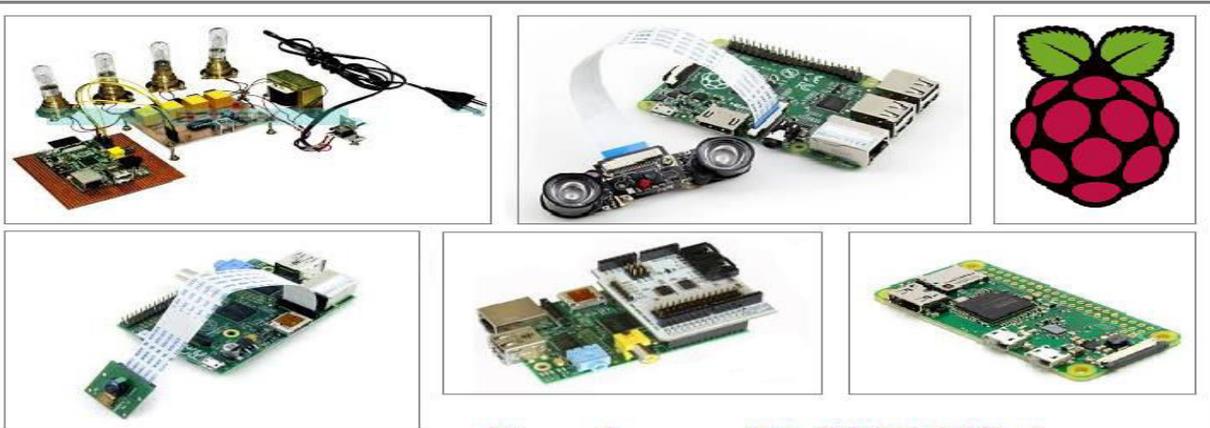
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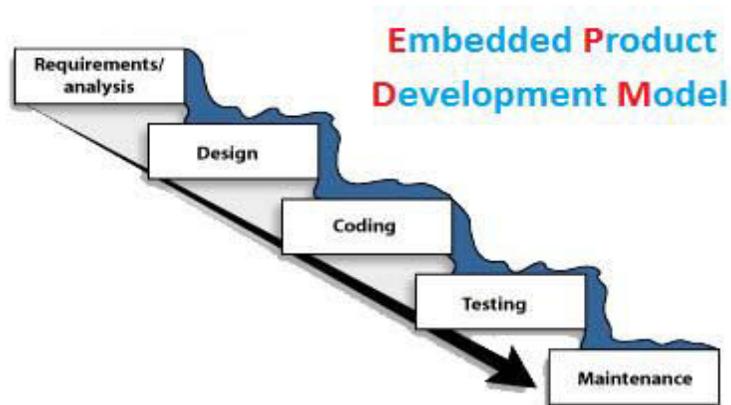Embedded Systems | Software | Mechanical | Automation

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Raspberry Pi IOT With **5** Project Designing

Embedded Product Development Model

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Embedded **T**echnosolutions is a Professional Training Institute & a Company which Working for Indian MNCs & Medium/Small Scale Industries in Product R&D, Development, Manufacturing & Customization.

Our training sessions are purely practical, based on industrial standard.

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Course Objectives

1. To provide professional and industrial standard training which will help the students to get job in the core industries

2. To learn practical orientation of actual industrial product design

3. To learn Python Programing which is the important part of Embedded Product Development

4. To learn Programming of Internal Peripherals in Python

5. To learn Raspberry Pi IOT Architecture in detail

6. To learn Hardware Requirements for Raspberry Pi Developments

7. Learn wireless communication , wireless modules & their interfacing

8. To learn the designing of Real World Projects

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Course Syllabus

Practical & Professional Training on Raspberry Pi IOT

Module 1 : Raspberry Pi Set up & Configurations

1.1 Program Raspberry Pi : a credit-card sized computer

1.2 Python programming for Raspberry Pi

1.3 Interacting and configuring the RPi OS

1.4 ARM 11 architecture

1.5 Porting of Linux Kernel and booting RPi

Module 2 : Linux Command for Application Execution

2.1 Linux programming basics

Module 3 : Raspberry Pi GPIOs

3.1 Programming the GPIO and interfacing peripherals With Raspberry Pi

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Module 4 : PWM Generation

4.1 Generating PWM signals through the Pi for Various applications

Module 5 : UART Protocol & Interfacing

5.1 Programming and work with UART protocol ,example Bluetooth

Module 6 : I2C Protocol Interfacing & Applications

6.1 Work with I2C protocol

Module 7 : Camera Interfacing & Applications Designing

7.1 Camera Libraries & Driver Installations

7.2 Camera based applications designing

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Module 8 : Raspberry Pi With IOT

8.1 Remote Login methods: HyperTerminal, Ethernet

8.2 LED Operation Using IOT

8.3 Embedded Webserver

Module 9 : Computer App Designing

9.1 Developing GUI with TKinter

5 Projects Designing using Raspberry Pi IOT

1. Traffic Light System

2. Environmental Parameters Measurement

3. Voice Control Home Automation

4. BlueSys using Bluetooth

5. GUI Based Home Automation using TKinter

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Contact Us

Contact Number

- 9224301650 (Whats App)

- 022- 62390060

Email Id

info@embeddedtechnosolutions.com

embeddedtechnosolutions@gmail.com

Website

www.embeddedtechnosolutions.com

Our Other Ventures

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