



Embedded Technosolutions

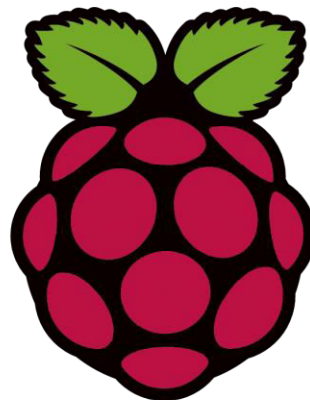
Venture of IIT Bombay & VJTI Alumni

3 Times IIT Bombay Robo Competition Winner

Industrial Certified

Raspberry IOT Developer

**All India Council For Technical Skill
Development (AICTSD)
In Association with
IITians Embedded Technosolution**

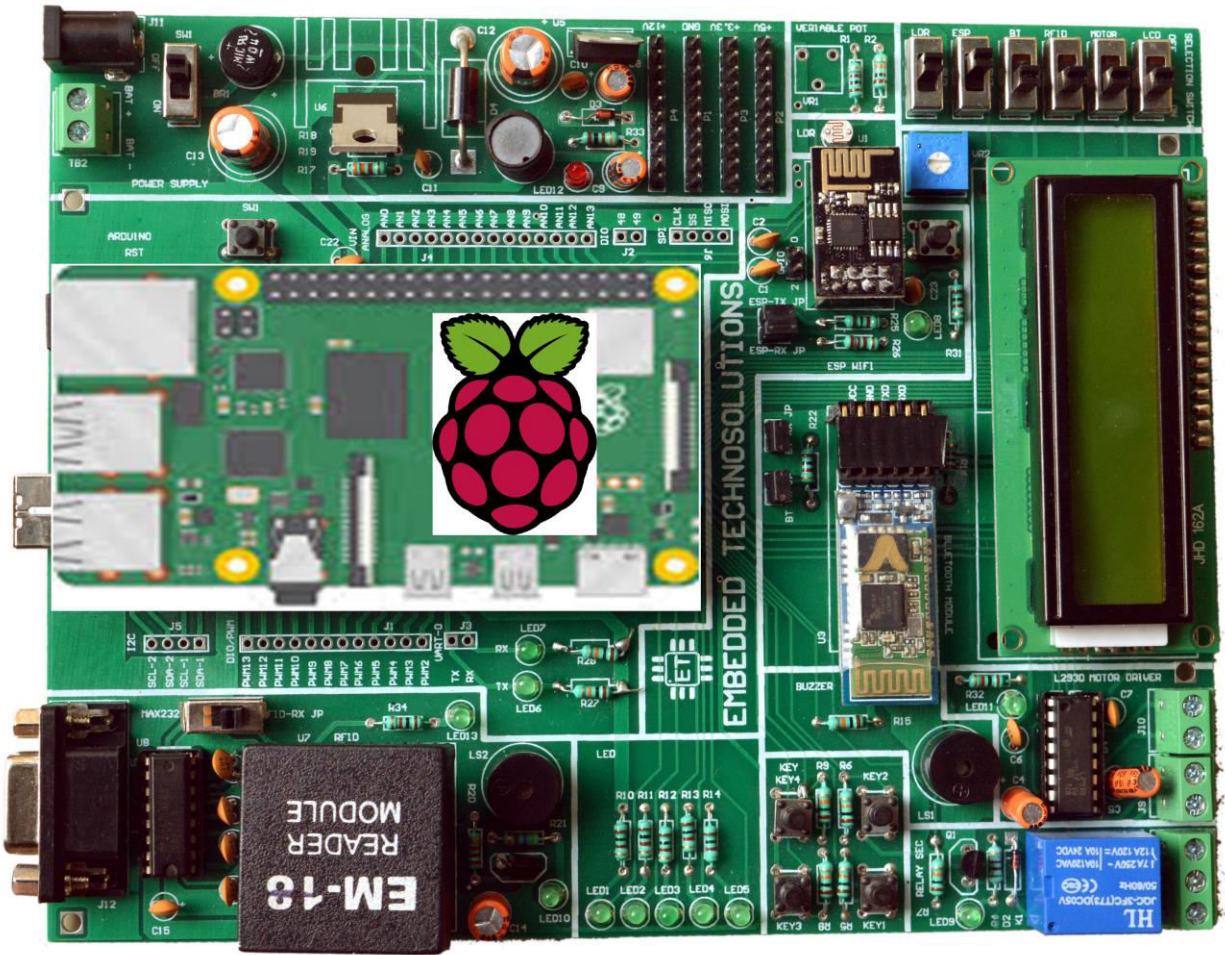




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B R A N D

PROMISE

We Guarantee You that, You Can Develop Your Projects by
Your Own After This Training Program



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Raspberry Pi IOT

Module 1 : Raspberry Pi Set up & Configurations

- Program Raspberry Pi : a credit-card sized computer
- Python programming for Raspberry Pi
- Interacting and configuring the RPi OS
- ARM 11 architecture
- Porting of Linux Kernel and booting RPi

Module 2 : Linux Command for Application Execution

- Linux Programming Basics

Module 3 : Raspberry Pi GPIOs

- Programming the GPIO and interfacing peripherals With Raspberry Pi



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Module 4 : PWM Generation

- Generating PWM signals through the Pi for Various applications

Module 5 : UART Protocol & Interfacing

- Programming and work with UART protocol ,example Bluetooth

Module 6 : I2C Protocol Interfacing & Applications

- Work with I2C protocol

Module 7 : Camera Interfacing & Applications Designing

- Camera Libraries & Driver Installations
- Camera based applications designing

Module 8 : Raspberry Pi Webserver

- Remote Login methods: HyperTerminal, Ethernet
- LED Operation Using IOT
- Embedded Webserver

Module 9 : Computer App Designing

- Developing GUI with TKinter



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Live Projects :

Raspberry Pi IOT Based

1	Traffic Light System
2	Environmental Parameters Measurement
3	Voice Control Home Automation
4	BlueSys using Bluetooth
5	Wireless Mobile Smart System
6	PWM Based Variable System
7	Camera based Surveillance System
8	GUI Based Home Automation using TKinter