



# Embedded Technosolutions

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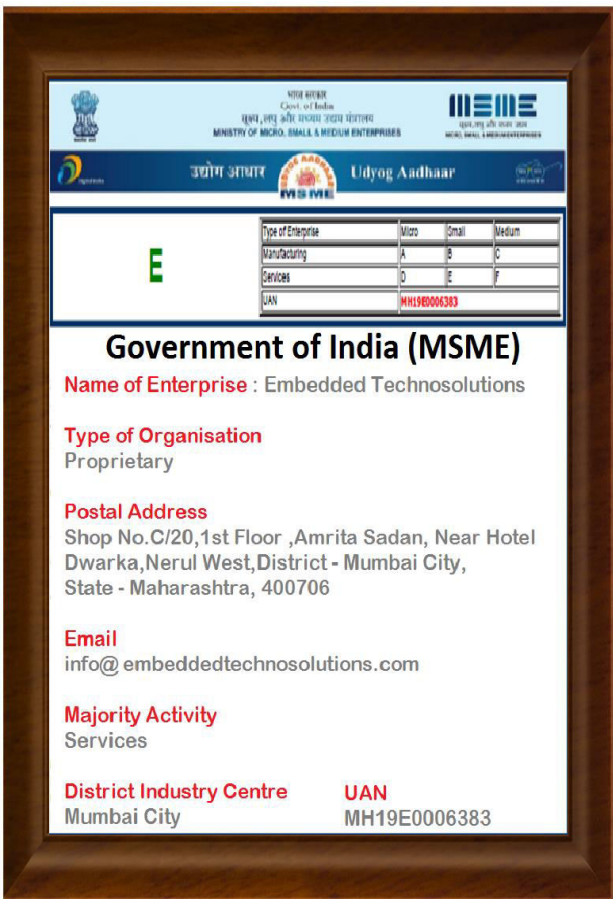
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**Government of India (MSME) & ISO 9001-2015**  
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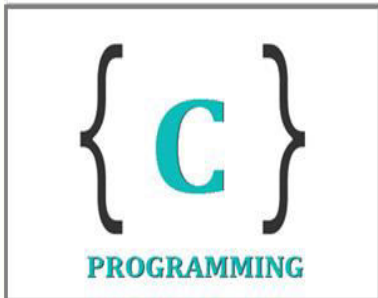
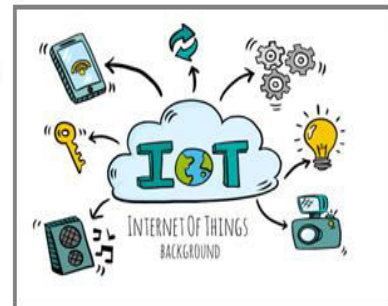
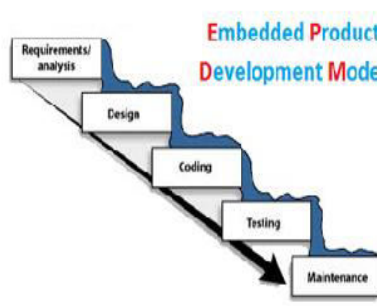
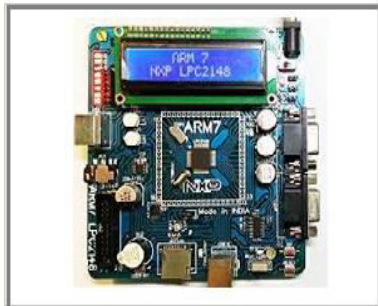
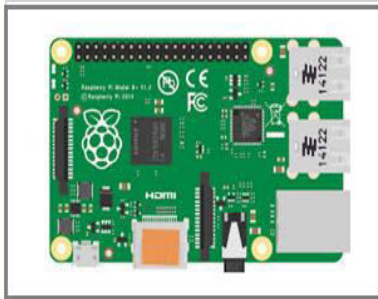
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## Who We Are ?

Embedded Technosolutions is a Professional & Corporate 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 standards







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## Till Now We Worked for the following Industries

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- Laboratory Corporation of America, LabCorp, Burlington, NC USA
- Netfinity, India
- Continental Grain Corporation
- Brook Furniture Rental, Chicago, IL
- ITA, Bangalore
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Tool Used : Beagle Bone Black Rev C by Texas Instruments

## Chapter 1

- 1.1 Introduction to Operating System —
- 1.2 Kernel – What is Kernel?
- 1.3 Kernel types and its structural implementations
- 1.4 Why OS is required in an Embedded Device?

## Chapter 2

- 2.1 Operating System Concepts –
- 2.2 File Systems and its importance
- 2.3 File Management
- 2.4 Memory Management
- 2.5 Scheduling and Priority of Multi-Processor's & Multi Programming Systems



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2.6 Kernel Data structures

## Chapter 3

3.1 System calls with examples using C Programming

3.2 File Management System calls

3.3 Inter Process Communication Concept and related system calls

3.4 Pipes

3.5 Sockets

## Chapter 4

4.1 Introduction to Linux Porting-

4.2 What is porting? & Flow of Porting

4.3 Requirements to do porting Linux in ARM Architecture

4.4 Toolchain

4.5 Bootloader

4.6 Boot loader

- Primary Bootloader
- Secondary Bootloader



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- U-boot

## 4.7 Partition & Rootfs

- Partition Schemes
- Rootfs Organization
- SD Card Layout
- Selected Rootfs of File system

## Chapter 5

5.1 Linux Porting on Beagle Bone Black(Angstrom OS) –

5.2 Using SPL or MLO image file to understand how primary and secondary boot loader works

5.3 ulmage Booting

5.4 Creating your own uEnv.txt from scratch

5.5 TFTP booting

5.6 Developing file system using buildroot and busybox





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## Chapter 6

- 6.1 Shell Scripting
- 6.2 Shell Introduction and Types of Shell
- 6.3 Shell Scripting with Examples
- 6.4 Shell code development



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- Also other companies in the market they also call us regarding recruitment process.

These entire JOB related notifications we exclusively provide to our students and they can apply in that companies directly. We upload the password protected job notifications on our website, students can access that job notifications from our website with password.