Embedded Linux System

OutLine

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CH1 Introduction to Embedded System

- 嵌入式系統 定義
- 嵌入式系統 相關知識
  - SOC：ARM, MIPS, PowerPC ...
  - 週邊設備 ：Flash, eMMC, I2C, I2S, ...
- 嵌入式作業系統 基本原理
- 開發版 NanoPi-M4 介紹
- 外掛模組介紹 ：
  - 溫溼度模組 , 亮度模組 ..
- 學習建立 嵌入系統開發環境

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CH2 Embedded Linux Arch

To know Embedded Linux System

CH3 Basic Software And Tool

▷ GPL

▷ Tool

→ Develop Tool

→ Video and Audio Tool

→ WiFi and Ethernet

→ Build Code Tool

CH4 Cross-compile Toolchain

How to Cross-compile with Toolchain

Create a Linux library to use

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CH5 Introduction to Bootloader

- To know Bootloader

- How to U-boot

- Detail into U-boot

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CH6 Embedded Linux Kernel

- How to build Linux kernel

- How to scale Linux kernel

- To know Linux kernel something

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CH7 RootFS

- To know RootFS in embedded system
- How to create a RootFS with Buildroot

CH8 Linux User Land

- To know Linux user land

- To know user land application

- How to control device on the Linux user land

CH9 Linux Device Driver

- To know Linux device driver

- How to build a Linux device driver

- How to install/remove a device driver

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