






MERSAD KARIMI

Embedded Linux Developer

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 Kermanshah, Iran

EDUCATION

Software Engineering
Associate Degree
2023 - 2025

Software Engineering
Bachelor Degree
2025 - 2027

SKILLS

- Embedded Linux System Integration (Both from scratch and build systems)
- Yocto-Project
- Embedded Software Programming
- IoT

LANGUAGE

English

Persian

About Me

I'm an embedded linux system integrator who has several practice/project in different concept of embedded linux such as tool chain,boot loader,kernel,rootfs and beyond

PROJECTS

BusyPy

I a lightweight filesystem written in Python that ships coreutils and system programs without requiring compilation on target devices

U-Boot on Web

a web-based interface to configure U-Boot remotely (no serial connection required) with real-time AJAX updates.

Implemented support for WiFi-enabled boards and documented serial pinout and static IP deployment.

Embedded Linux Practice

step-by-step exercises and solutions for Embedded Linux development (bootloader, rootfs, kernel, toolchain) with real-world integration examples.

Cross-Compiler From Scratch

automated scripts to produce a complete aarch64 (glibc) cross-toolchain (binutils, GCC stages, Linux headers, glibc) for compiling C/C++ on x86_64 hosts.

MINI PROJECTS

- Automatic Adjustment of Device Tree Address in U-Boot
- Dynamic Searching for MMC in U-Boot (Resolving the MMC numbering changes.)
- Playing a game via MPU-6050 (Implementing a new device in Embedded Linux)