

Sherif Mousa

Embedded Linux SW Engineer; 6+ years of development, integration and support experience; participated in producing customized Linux systems for different hardware targets, for IoT, automotive and control systems.

github.com/shatrix

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Work Experience

January 2017 - Present

Böblingen, Germany

Harman Automotive Systems

PDK/SDK Integrator

Integrating all modules from suppliers and company domains using Yocto, to produce target Linux images & SDKs.

October 2016 - December 2016

Hildesheim, Germany

Robert Bosch Car Multimedia (T&S Consultant)

Embedded Linux Software Engineer

I worked with the team creating the base Bosch Linux platform.

July 2014 - September 2016

Cairo, Egypt

Valeo

Sr. Embedded Linux Software Engineer

I worked in creating an IVI system for **automotive**, using **ARM NXP i.MX6** & **TI Jacinto-6** based boards. Support other teams in different areas, bringing new boards up, initiating Yocto for them, creating and using **SDKs**, and also gave training when asked. **Yocto**, **Linux**, **U-Boot**, **Git**, **Agile**, **Systemd**, **Qt**, and **BSP**.

July 2013 - July 2014

Cairo, Egypt

IBM Egypt

Application Developer

I worked in **Android mobile development** using Java, C and PhoneGap framework.

December 2013 - 2016

Cairo, Egypt

ITI (Information Technology Institute)

Part-time Embedded Linux instructor

I was the official **Embedded Linux Trainer** at ITI.

Aug 2010 - Jan 2011 .. May 2012 Aug 2012

Mansoura, Egypt

PEP Arab

Embedded Linux systems developer

Created an Embedded Linux system for Diamond Computers.

Education

October 2012 - June 2013

Cairo, Egypt

ITI (Information Technology Institute)

Mobile Applications Developer

ITI is a 9-Month Diploma provided by the Ministry of Communications and Information Technology (MCIT).

October 2004 - June 2010

Menoufia University, Egypt

Faculty of Electronic Engineering

B.Sc. degree of Computer Science and Engineering

- Grade: Good, 2.8GPA

Projects

PDK/SDK continuous integration

Daimler MBUX @ Harman

- Part of the **PDK/SDK** integration team.
- Edit, integrate and build different system modules.
- Support other domains to build/integrate their apps.
- Introduced **app-sandboxing** support in Yocto (ACLs,...)
- Create & Maintain system Toolchain (SDK, Tooling, ...)
- **Yocto**, Bamboo, Jira, git, svn, stash, confluence, scripting.

Integration between AUTOSAR & Linux

IVI system for automotive @ Valeo

- Based on OpenSynergy **COQOS hypervisor**.
- Custom Linux distro with SDK using Yocto, for NXP i.MX6.
- **Optimize boot-time** for the whole system (**U-Boot**, Linux kernel, systemd, apps ...).
- **Secure Boot**, to secure the full system stack (**Bootloader**, Linux kernel, Modules, Filesystem)
- Developed Linux **desktop apps** using **Qt** Programming.

MANARA GPS Navigator

Faculty of Electronic Engineering & ITI

Version 01 - 2010 (Embedded Linux)

- Multi-feature car navigation Linux system with Qt GUI.

Version 02 - 2013 (Embedded Android)

- Navigation, Security, Location based Ads, mobile control.

Skills

Linux and Embedded Linux

- Integrating, configuring, building and porting Embedded Linux systems to different hardware targets.
- **Yocto**, BSPs, layers, images, SDKs.
- **CAN on Linux**.
- **Git**, **SVN**.
- **CI/CD** Bamboo, Stash, Jira, Confluence.
- **Scripting** (Shell, Python)
- **systemd**.
- **App-Sandboxing** (systemd, ACLs, CAPs, limits).

Programming

- C/C++
- **Qt**, Widgets and QML.
- Android programming using Java and PhoneGap.
- Web development, HTML, JavaScript, jQuery, AJAX.

Personal Skills

- Creative enough.
- Cooperative and team worker.
- Good communication and presentation skills.

Languages

Arabic: Native language.

English: fluent (speaking, reading, writing).

German: Basic (on-going).