

Contact

Top Skills

Embedded Systems

Microsoft Office

Engineering

Certifications

Google Project Management
Certificate

Thanh Diem Dang

Embedded System Engineer at Thundersoft Korea
Seongnam, Gyeonggi, South Korea

Summary

Five years of professional experience in designing and writing Linux-based embedded firmware. In-depth technical knowledge and consistent track record in display technologies, including LCD and OLED. Highly-skilled in digital communication interfaces such as Bluetooth, Zigbee, RS-485, SPI, UART, I2C, and high speed display interfaces (MiPi). Hands-on expertise in C/C++ programming languages. Passion for technology and new gadgets. Extraordinary leadership and excellence in establishing good relationships with all parties involved.

Experience

ThunderSoft

Embedded Software Engineer
May 2022 - Present (11 months)
Pangyo, South Korea

LG Electronics Vehicle component Solutions

Senior C/C++ Software Engineer
August 2021 - May 2022 (10 months)
Vietnam

- Join the Automotive domain (ASPICE standard, LGE Product lifecycle).
- Perform Unit tests to improve framework system quality and stability.
- Cowork with other teams to provide solution according to customer requirement.

Projects in detail

- Volkswagen
 - Development of framework layer and debugging for Power Manager Module
 - Development of framework layer and debugging for Core Service Manager Module
- General Motors
 - Development of framework layer and debugging for Power Manager Module

Công ty CP Nghiên cứu và Sản xuất Vinsmart
Embedded Software Engineer
February 2019 - June 2021 (2 years 5 months)
Hanoi, Hanoi, Vietnam

- Perform as a single point of contact to put forward feature concepts and study the implementation feasibility with UI-UX, release device control workflow with Application and Framework Software, create testing standards and measurement methods with Hardware, QA-Hardware and QA-Function teams.
- Troubleshoot firmware issues on Mediatek & Qualcomm platforms.
- Fulfill software evaluation, system optimization, quality improvement and cost down;
- Program and implement embedded software solutions,
- Port Display modules for specialized devices and hardware, such as Smartphone and hand-held WiFi hotspot

Achievements:

- Successfully implemented the Display features of over ten Vsmart smartphone models, including:
Vsmart Bee Lite (Snapdragon 215),
Vsmart Aris & Vsmart Aris Pro (Snapdragon 730),
Vsmart Live 4 (Snapdragon 675),
Vsmart Star 4 (Mediatek Helio), etc.
- Provided solutions and/or executed new features, including:
High brightness mode - maximum brightness level increased by 40%
Always on Display - power optimization: power consumption decreased by 8 times from 400 mAh to 50 mAh
Built-in Debug tool for Display module - speed of issue fixing and new features implementation accelerated from 2 hours to 1~2 minutes
Vsmart Original Screen Identification - revenue from maintenance significantly grew and debugging time reduced

Samsung Vietnam Mobile R&D Center
Embedded System Engineer
September 2017 - February 2019 (1 year 6 months)
Hanoi, Hanoi, Vietnam

- Work with internal and external Hardware and Software engineering teams to port display modules on Samsung smartphones

- Conduct power optimization, display driver IC register settings and debugging/ optimizing all Electronic Engineering (EE)-related display module issues.
- Test, characterize and debug display driver modules on hardware in the lab.
- Review, analyze and write documentation required for Display driver module, e.g. porting sequence, feature specifications, etc. to assure that all related documentation is complete at each phase of release of an engineering project.
- Manage a team of 3 members, guide, filter issues, perform technical evaluation according to the requests from the Hardware team and check-up the result on a daily basis.

Achievements:

- Ported 3 Display modules for low- and mid-range smartphone models in two months:

A7 2018 (Exynos 7 Octa 7885),

M30 and A30 (Exynos 7 Octa 7904).

- Adopted continual process improvement to ensure smooth workflow and collaboration between Project Management, Hardware and Software team, thereby reducing the time required for model bring-up by 25% and helping management to make important decisions faster.

Ha Thanh Electronic Production JSC

Manufacturing Operator

January 2016 - December 2016 (1 year)

Hanoi, Hanoi, Vietnam

- Execute component Packaging with efficiency and effectiveness according to the company's regulatory requirements
- Mount assembled components, such as transformers, resistors, transistors, capacitors, integrated circuits and sockets, on printed circuit boards or chassis panel
- Troubleshoot, repair and modify special testing equipment and electronic components
- Assemble PCB boards with components as per set-up sheets

Education

Hanoi University of Industry

Bachelor's degree, Electrical, Electronics and Communications
Engineering · (2013 - 2017)