Tan. Le Minh

Senior Software Engineer

(+65) 8248 4137

lmtan91.github.io

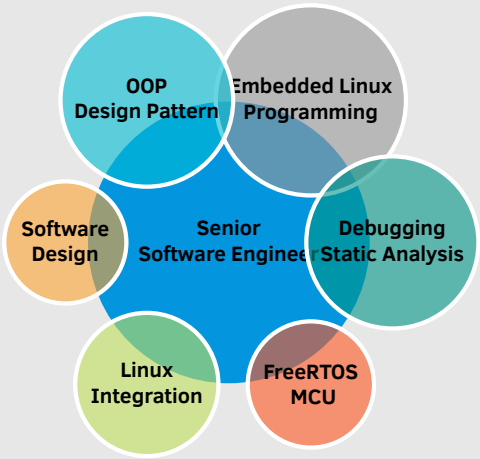
lmtan91@gmail.com

in/tan-le-1b41b567

lmtan91

Skills

Overview



Programming

$0\ LOC \longrightarrow 10000\ LOC$

bash • Python

Java • LaTeX

C • C++

OS

Fedora • Ubuntu • CentOS

IDE

Eclipse • QtCreator •

Debugging

gdb debugging

Education

2009 - 2013 **B.A.Sc., Electronics and Telecommunication** (GPA: 7.9) University of Science, Vietnam National University

- Computer Structure, Microcontroller and Lab
- Data structure and Algorithms, Computer Interfacing and DAQ
- OOP, Mobile Device Application Programming
- Embedded Systems, Matlab and DSP Lab

Experience

Mar 2018 - Present **Senior Software Engineer - Product Development** Continental Automotive - Singapore

- Project that developed the Emergency Call module for Renault and Nissan car lines based on Qualcomm(MDM) and Renesas chipset(Verhicle Microcontroller)
- Responsibility for design and implement the Audio Tuning feature using Python and C++.
- Familiar with IoT machinna framework.
- Able to use Jira, git, gerrit for the software development process.
- Able to work in the low level in the emdedded Linux.

Nov 2017 - Feb 2018 **Senior Software Engineer - Product Development** Robert Bosch Engineering and Business Solutions - HCM

- Project that developed the Smart Traffic Mornitoring Camera(STMC) based on **Amlogic S905X**.
- **Buildroot** integration.
- Implement OTA using **swupdate** with double copy strategy and using **hawkbit** as the updater server.
- Investigate **nginx** load balancing and try implementing the static route using Lua plugin.
- Implement **RTSP** client using C/C++ to forward **RTSP** streamning from a camera to the cloud.
- Implement an app in **bootloader(u-boot)** to read environment variables from user space.

Sep 2016 - Nov 2016 **Senior Software Engineer - COC HMI** Robert Bosch Engineering and Business Solutions - HCM

- Project that supported the German Bosch to integrate the Bosch protocol into the i.MX6 platform.
- Worked as the system integration engineer based on **Yocto** project.
- Integrated the packages support the web development such as: AngularJS, html5,...
- Designed and implemented the C++ application(**OOP**) as the json-rpc websocket server based on the libjson-rpc-cpp that will receive the json data from the front end (Ex: increase the oval cooking temperature to 40◦)
- Applied **design pattern** in software design.

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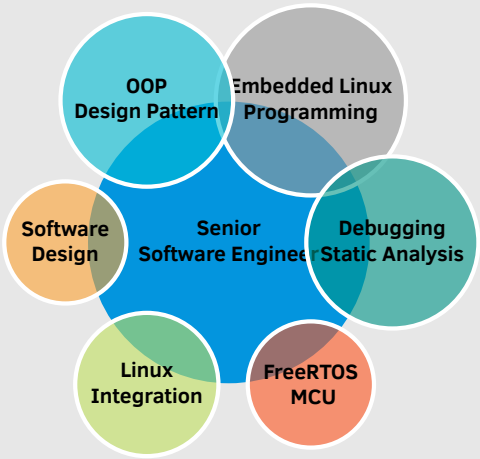

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Experience

Sep 2015 - Oct 2017

Senior Software Engineer - Product Development — Robert Bosch

Engineering and Business Solutions - HCM

- Project that developed the streaming system that mounted on the vacuum cleaning robot as surveillance with motion detection.https://www.youtube.com/watch?v=VIsczH4iZwM
- Study customer's requirement and implement new specification then do the POC in evaluation kit.
- Bring up **i.MX6** custom board running Linux.
- Able to understand schematic and using Oscilloscope to measure the signal.
- **Yocto** System integration and customize for the specific project.
- Customize the rootfs, device tree, Linux kernel and **bootloader(u-boot)**.
- Design and implement the **BIST(Built-in Self Test)** component that executes the hardware diagnostic when bootup.
- Do the **FOSS** (Free and Open Source Software) license checking for the product go to the market.
- Responsible for designing and implementing the streaming application based on **Gstreamer** platform and working closely with **Wowza** streaming team to integrate with Wowza service.
- Responsible for setting up the **PC-Lint** (Commercial Static Analysis Tool) on the GNU project and fix the error/warning/info reported by PC-Lint.

Sep 2013 - Sep 2015

Embedded Software Engineer — Global Cybersoft Vietnam

- Maintained and developed the set-top box software for **DIRECTV(AT&T)**.
- Studied and researched the embedded Linux architecture.
- Had the chance to study really the perfect embedded Linux product.
- Understood actual design concepts: design for test, design for debugging.
- Understood and design the software architecture from component design, class diagram, sequence diagram.

Jun 2012 - Aug 2012

Internship — Renesas Design Vietnam

- One of 16 students won the technical exam and interviews of the company to get the internship position at the company.
- Studied the 8-bit MCU designed by Renesas, compiler, IDE and hard debugging.
- Was responsible for all lab testing routines involving all peripherals in the specific MCU.
- Designed and implemented the digital watch project with Lunar calendar feature.
- Besides that, improved the soft skills such as: presentation, team work, English.

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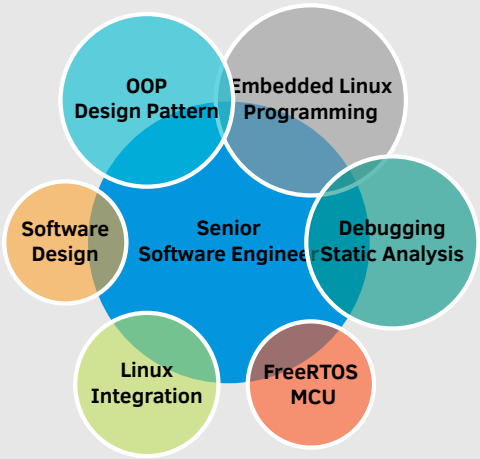

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Hobby Projects

2016 **Porting Clutter project on Beaglebone Black** Clutter Project

- Repository: https://github.com/lmtan91/meta-lmtan91/tree/master/clutter
- Using Yocto to port Clutter into Beaglebone Black in case of creating nice GUI.

2016 **Porting LWIP and FreeRTOS into STM32F4 Discovery kit** STM32_ETH_LWIP

- Repository: https://github.com/lmtan91/STM32_ETH_LWIP
- Porting to use GNU GCC compiler, OpenOCD for debugging, Eclipse as IDE for free without using Commercial Compiler and IDE.
- Research FreeRTOS and LWIP by implementing some applications as web server.

Scholarship

2012 **Sunflower Mission 2012 Engineering & Technology Scholarship for Excellence** Sunflower Mission