

# Tan. Le Minh

Senior Software Engineer



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lmtan91.github.io



lmtan91@gmail.com



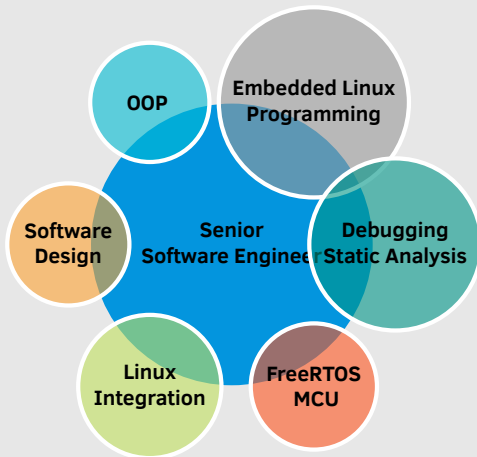
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lmtan91

## Skills

### Overview



### Programming

0 LOC —————> 5000 LOC

bash • Python

Java •  $\LaTeX$

C • C++

## Projects

**ZCam** - A streaming module will be integrated into the vacuum cleaner robot to enable the surveillance

**Set-top box software** - Maintain and develop the set-top box software as embedded Linux systems

## 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

Nov 2015 - **Senior Software Engineer - Product Development** Robert Bosch Engineering and Business Solutions

Present

- Project that developed the streaming system that mounted on the vacuum cleaning robot as surveillance with motion detection.
- Study customer's requirement and implement new specification then do the POC in evaluation kit.
- Research how to bring up i.MX6 custom board running Linux and first time bring up the Linux board successfully.
- Working closely with hardware team while bringup and testing hardware.
- Able to understand schematic and using Oscilloscope to measure the signal.
- System integration on Yocto and customize for the specific project.
- Customize the rootfs, device tree, Linux kernel and 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 2016 - **Senior Software Engineer - COC HMI** Robert Bosch Engineering and Business Solutions

Nov 2016

- 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° )


Sep 2015 - **Embedded Software Engineer** Robert Bosch Engineering and Business Solutions


Nov 2015


- Worked onsite in India to support the laser distance measuring project.
- Setup the eclipse debugging for the project and modified the Makefile to support gdb debugging.
- Researched open source static analyzer tools: cppcheck, clang,... and apply to the project.
- Report the FOSS checking in Yocto for the project.
- Measure the memory footprint in the system using Python.


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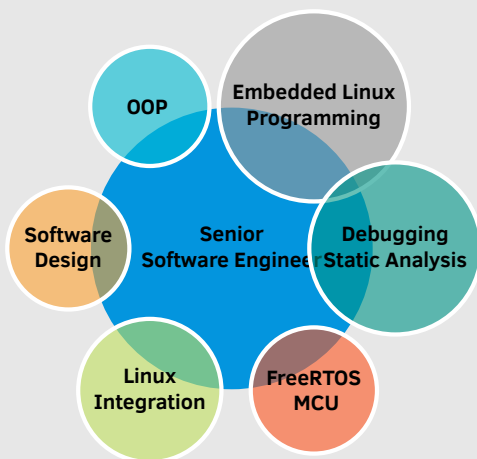
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## Experience

Sep 2013 - Sep 2015 **Embedded Software Engineer**

Global Cybersoft Vietnam

- Maintained and developed the set-top box software for DI-RECTV(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.

## Home 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**

- Repository: [https://github.com/lmtan91/STM32\\_ETH\\_LWIP](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