Tan. Le Minh

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Education

- **University of Science, Vietnam National University** HCMC
  B.A.Sc., Electronics and Telecommunication (GPA: 7.9) *Sep. 2009 - Sep. 2013*
  - Relevant courses: Computer Structure, Matlab and DSP Lab, Microcontroller and Lab, Data structure and Algorithms, Computer Interfacing and DAQ, OOP, Mobile Device Application Programming, Embedded Systems

Work Experience

- **Robert Bosch Engineering and Business Solutions Vietnam** HCMC
  Senior Software Engineer - Product Development *Nov. 2015 - 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.
  - Working closely with hardware team while bringup and testing hardware.
  - Bring up the Broadcom WiFi driver on Linux.
  - Understanding the schematic for customizing the device tree in the Linux kernel and using the oscilloscope to measure the bus.
  - 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.
- **Robert Bosch Engineering and Business Solutions Vietnam** HCMC
  Senior Software Engineer - COC HMI *May. 2016 - Aug. 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°)

- **Robert Bosch Engineering and Business Solutions Vietnam** HCMC
  Embedded Software Engineer *Sep. 2015 - Nov. 2015*
  - On-site working on India to support the lazer distance measuring project.
  - Setup the eclipse debugging for the project and modified the Makefile to support gdb debugging.
  - Research 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 using in the system.
- **Global Cybersoft Vietnam** HCMC
  Embedded Software Engineer *Sep. 2013 - Sep. 2015*
  - Maintained and developed the set-top box software for DIRECTV(AT&T).
  - Study and research the embedded Linux architecture.
  - Develop the multithread programming , gdb debugging.
  - Understanding how to design the embedded software completely from component design, class diagram, sequence diagram.
  - Develop IPC programing for component communications.
  - Design for test and design for debugging.
  - Improving the Java, C++, C, bash coding skill.
- **Renesas Design Vietnam** HCMC
  Internship - Embedded Software Engineer *Jun. 2012 - Aug. 2012*
  - Study the 8-bit MCU designed by Renesas, compiler, IDE, debugging.
  - Study and implement the diagrams such as: flowchart, function,...
  - Was responsible for all lab testing routines involving all peripherals.
  - Design and implement the digital watch with Lunar calendar feature.
  - Besides, improve the soft skills such as: presentation, team work, English.

Home Projects

- **Porting Clutter project on Beaglebone Black** HCMC
  Sep. 2016 - Oct. 2016
  - Repository: `https://github.com/lmtan91/meta-lmtan91/tree/master/clutter`
  - Using Yocto to port Clutter into Beaglebone Black in case of creating nice GUI.
- **Porting LWIP and FreeRTOS into STM32F4 Discovery kit**
  Engineering Physics Project Lab, APSC 459 *Jan. 2017 - Feb. 2017*
  - 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.

Awards

Sunflower Mission Engineering and Technology Scholarship Program 2012

Skills

Languages: C/C++(4 years), LaTeX, Java(1 year), bash script

Operating Systems: Linux (Fedora, Ubuntu, CentOS), Windows

IDE: vim, Eclipse

Lab Skils: Digital Scopes

Source Control Tool: Mecurial, SVN, Git

Miscellaneous: excellent troubleshooting and debugging skills, problem solving skills, bug killers

Interests

Academic: Embedded Control & Robotics, AI, Machine Learning,

Sports: Chen Taiji, trekking

Computers: enjoy using and learning Linux systems, Building electronics projects at home, and learning AI and Machine Learning at home

Musical: Playing guitar

Other: Reading books