

BUI XUAN TRUONG

Hanoi, Vietnam

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PROFESSIONAL SUMMARY

- **Embedded Software Engineer with 4+ years** of professional working experience in Embedded Software Development with several industries including Automotive and Internet of Things
- Experienced in creating **unit & integration tests, executing tests** and **reporting** on Embedded Linux
- Experienced in various software development stages: Planning, Analysis, Design, Development and Testing
- Strong hands on working experience in Embedded Linux applications development.
- Extensive experience in different software development frameworks (**Qt, Xamarin**)
- Knowledge of vehicle communication protocols (**UART, RS232, I2C, SPI, TCP/IP**)
- Working experience with embedded C compilers
- Extensive experience working with **ARM processors, PIC processors, AVR, Arduino**
- Experience with software design tools (**Enterprise Architect, StarUML, Microsoft Visio**)
- Working experience with source control management tools including **GIT, SVN**
- Working experience with change management tools including **Jira, Redmine**
- Proficiency in programming languages: **Assembly, C/C++/C#, Java, Python** and **Bash Script, Kotlin,**
- Working experience in **Windows** and **Linux (Ubuntu, Debian)** and **Embedded Linux** operating systems
- Highly adaptable to new working environments with problem-solving, advanced programming and fast learning skills.

TECHNICAL EXPERTISE

Programming/Scripting languages	Assembly, C++, Java, Python, GNU Make, Bash Script, Kotlin
Compilers	GCC, MSVC, Qmake
Communication protocols	RS232, UART, I2C, SPI, TCP/IP
Microcontrollers	Arm Cortex, AVR, Pic, Arduino
Debuggers	GDB
Operating Systems	Windows, Linux (Ubuntu, Debian), Embedded Linux
Real-Time Operating Systems	FreeRTOS
Frameworks	Qt (QtQuick), Xamarin
Databases	SQLite, SQL, My SQL
Integrated Development Environments	Qt Creator, Microsoft Visual Studio, Arduino, MLABX, AVR studio
Software Design Tools	Enterprise Architect, StarUML
Source Code Management Tools	GIT, SVN
Change Management Tools	JIRA, Redmine

PROFESSIONAL EXPERIENCE

03/2019 – Present	SOFTWARE ENGINEER, VTI Corporation – Hanoi, Vietnam TRANSLATE DEVELOPMENT PROJECT <ul style="list-style-type: none">• Develop Translate Application using provided translate service include document translate, text translate, using python language and AI• Responsible for analyzing software requirements and designing software architecture for maximum system throughput.• Responsible for creating user manual, and technical documentation.
2/2019 – 03/2019	EMBEDDED SOFTWARE ENGINEER, VTI Corporation – Hanoi, Vietnam HARMONIC CONTROL DEVELOPMENT PROJECT <ul style="list-style-type: none">• Research and design schematic PCB control Daikin remote control of VRV harmonic system in building• Develop custom Android and IOS applications control harmonic for user using xamarin framework.• Responsible for analyzing software requirements and designing software architecture.• Responsible for creating user manual, and technical documentation..
12/2018 – 02/2019	EMBEDDED SOFTWARE ENGINEER, VTI Corporation – Hanoi, Vietnam VTI SAYHI DEVELOPMENT PROJECT <ul style="list-style-type: none">• Develop a receptionist Application using in living room to recommend structure and execute projects for customer using QT framework on linux system• Responsible for analyzing software requirements and designing software architecture.
07/2018 – 12/2018	EMBEDDED SOFTWARE ENGINEER, VTI Corporation – Hanoi, Vietnam RS RECEIVER DEVELOPMENT PROJECT <ul style="list-style-type: none">• Developed QR code scanner application to filter data scan from scan device using C#• Responsible for analyzing software requirements and designing software architecture• Responsible for performing Unit Tests and Integration Tests, executing tests
05/2018– 07/2018	EMBEDDED SOFTWARE ENGINEER, VTI Corporation – Hanoi, Vietnam NSTEX DEVELOPMENT PROJECT <ul style="list-style-type: none">• Develop a custom report processing system for industrial factory using C++/CLI.• Responsible for analyzing software requirements and designing software architecture• Responsible for performing Unit Tests and Integration Tests, executing tests and creating reports for own developed features.
02/2018 – 05/2018	EMBEDDED SOFTWARE ENGINEER, FPT Software – Hanoi, Vietnam A1 FLATFOM DEVELOPMENT PROJECT <ul style="list-style-type: none">• The project aims to maintain most automotive application and HMI module developed by other and partner using C language• Responsible for Design, control HMI and fix Bug, support team.
08/2017 – 02/2018	EMBEDDED SOFTWARE ENGINEER, FPT Software – Hanoi, Vietnam MIB3 DEVELOPMENT PROJECT <ul style="list-style-type: none">• The project aims to maintain most automotive application and meidia module developed by us and partner using c/c++, java languages• Refactoring and Maintenance applications and HMI for a Camera Control System in Automobile of Panasonic

11/2016 – 06/2017	EMBEDDED SOFTWARE ENGINEER, Ha Noi University of Science and Technology, Vietnam HF DIGITAL COMMUNICATION DEVELOPMENT PROJECT <ul style="list-style-type: none"> • The project aims to design and develop system HF communication service of the sea developed by us using C/C++ on Qt framework and Verilog for FPGA • Design and Development for HF Digital Communication System of ‘Ministry of Industry and Trade’. • Responsible for optimizing virtual keyboard handwriting system performance. • Responsible for software integration and delivery.
03/2016 – 10/2016	EMBEDDED SOFTWARE ENGINEER, Ha Noi University of Science and Technology, Vietnam FIRE WARINING DEVELOPMENT PROJECT <ul style="list-style-type: none"> • The project aims to maintain system developed by us using C,C#, Java android, Html languages • Refactoring and Development for a Fire Warning System in Building System of Fire Department.
EDUCATION	
2012 – 2017	<ul style="list-style-type: none"> • Ha Noi University of Science and Technology, Vietnam