**BUI XUAN TRUONG**

Hanoi, Vietnam  
buixuantruong.tb@gmail.com

|  |  |
| --- | --- |
| **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**   * 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**   * 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**   * 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**   * 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**   * 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 FLATFORM DEVELOPMENT PROJECT**   * 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**   * 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**   * 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**   * 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** | * **Ha Noi University of Science and Technology, Vietnam** |