**TUNG NGUYEN**

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| **PROFESSIONAL SUMMARY** | | |
| * **Overall 6+ years of extensive experience** in software development. * Working experience with many compilers on different platforms. * Knowledge and experience of **MISRA C 2004/C++ 2008, 2012** coding standards. * Strong software architecture with extensive **design patterns** knowledge. * Experience with software development tools (**Visual studio, Visual studio code, Eclipse, Android studio, QNX Momentics)** * Working experience with source control management tools including **P4, GIT, SVN.** * Working experience in **Agile/Scrum** projects. * Proficiency in programming languages: **C/C++ (7+ years), Python (2+ year), Java(4+ year), JavaScript(2+ year)** * Working experience with both **Windows, Android** and **Linux (Ubuntu)** operating systems * **Strong algorithm, analytical**, **problem solving, troubleshooting** and **debugging** skills | | |
| **TECHNICAL EXPERTISE** | | |
| **Program languages** | | C/C++, Java, JavaScript, Python, Makefile, HTML |
| **Coding standards** | | MISRA C 2004/ C++ 2008/ C++ 2012 |
| **Design Tools** | | Star UML |
| **Methodologies** | | Waterfall, Agile/Scrum |
| **Source Control Tools** | | GIT,SVN,P4 |
| **Change Management Tools** | | Jira |
| **IDE/Utilities** | | Visual studio, Visual studio code, Eclipse, Android studio, QNX Momentics |
| **Operating Systems** | | Windows, Linux (Ubuntu), Android |
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| **PROFESSIONAL EXPERIENCE** | | |
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| 05/2018 – 02/2019 | **Company: LG Vietnam R&D Center – Hanoi, Vietnam**  **Project description: Develop C++ middleware applications for Info3.6L Infotainment system for Vehicle.**  **The Info3.6L system runs on QNX OS based on Info3.5L and supported Cluster.**  **Team size: 6 members.**  **Position: Developer.**  **Responsibility:**   * Maintain favorite middleware application. The application manage user favorites: audio, phone and navigation. Navigate and control when user recall favorite. * Implement cluster middleware application. The application synchronize screens between HMI and cluster by pass screen elements to cluster screen. * Maintain FSA middleware application. The application is a communication bridge between HMI and Cluster by use Google Protocol Buffers and TCP/IP. * Support multi-languages on Cluster screen. * Fix issues of MISRA C++ 2008, 2012 and Static Analysis (detected by Coverity tool) to meet safety standard. * Review source code using Git/Gerrit. * Implement and fix bugs using Jira, Codebeamer system. * Building application use GCC, Make compilers. * Using python to convert XML (screens and strings provided by customer) to C++ struct (deliver to Cluster) and C++ strings. * As Coding Expert rules, I supports to solve hard problems for all projects in center.   **Techniques: C/C++, Momentics IDE, Dbus, Shared memory, Protobuf, TCP/IP, Multi-threading, Sqlite, python.** | |
| 04/2017 – 04/2018 | **Company: LG Vietnam R&D Center – Hanoi, Vietnam**  **Project description: Develop C++ application layer for Info3.5L Infotainment system for Vehicle.**  **The Info3.5L system runs on QNX OS and supports Audio, Phone, Onstar services, RVC, Climate, Android Auto, Carplay, Carlife, Wifi.**  **Team size: 30 members.**  **Position: Developer.**  **Responsibility:**   * Create LLD (Low Level Design) using Doxyen and Star UML. * Develop keyboards and navigation features. * Improve application’s performance especially boot time. * Commit, review source code using Git/Gerrit. * Implement and fix bugs using Jira, Codebeamer system. * Fix issues of MISRA C++ 2008, 2012 and Static Analysis (detected by Coverity tool) to meet safety standard. * Create Unit Test for keyboards and navigation feature and measure code coverage by LCOV tool. * Using python to convert XML (screens,strings provided by customer) to QML and Qt resource.   **Techniques: C/C++, Qt Creator, Qt/Qml, JavaScript, Signal-Slot, python.** | |
| 02/2016 – 03/2017 | **Company: Personal company**  **Project description: Develop Telemedicine web application for manage all surgery data and remote navigate, stream videos in surgery room. The surgery data include: patient information, 2-D x-ray images, video.**  **Team size: 1 members.**  **Position: Developer.**  **Responsibility:**   * Analyze and advise customer base on requirements. * Design and implement UI using HTML5, CSS, JavaScript. * Build web application using Webpack. * Design and implement Server APIs using NodeJS. * Deploy product at E hospital – Hanoi, VietNam. * Implement communication between server and Monarch devices to stream, record videos. * Implement communication between server and Matrix Pro II devices to navigate camera sources. * Implement communication between server and Synology NAS to store, edit, get data. * Implement convert tool to convert x-ray file to images. * Implement backup mechanism to prevent exception events. * Commit source code using Git.   **Techniques: HTML5, CSS, Webpack, NodeJS, Restful, TCP/IP, Visual Studio code, Sqlite.** | |
| 02/2014 – 01/2016 | **Company: Samsung Vietnam R&D center – Hanoi, Vietnam**  **Project description: Develop Penup Android application. A social network for artists for publishing their artwork.**  **Team size: 8 members.**  **Position: Technical leader.**  **Responsibility:**   * Analyze and maintain architecture of project. * Implement and maintain list view and grid view. * Improve performance by using Caching, Singleton and Factory pattern. * Apply recycle view to application. * Commit and review source code using P4 system. * Support members to solve problems. * Communicate with headquarter, server members to meet feature deadline. * Create Unit Test using Android Unit test.   **Techniques: Java/Android, Restful, Design patterns.** | |
| 10/2012 – 01/2014 | **Company: Samsung Vietnam R&D center – Hanoi, Vietnam**  **Project description: Develop SmartSwitch window application. An application for converting other brands data to Samsung devices.**  **Team size: 6 members.**  **Position: Technical leader.**  **Responsibility:**   * Implement and maintain parsing contact, messages, media, photos, record, setting data to C++ data. * Implement and maintain converting contact, messages, media, photos, record, setting data to Samsung format data. * Implement and maintain transferring Samsung format data to Samsung devices. * Worked with various encryption types: BASE64, SHA, SERIAL. * Have good experience about SQLite, XML, ENCRYPTED DATA. * Worked with connection protocols: MTP,PPT,USB Mass Storage. * Commit and review source code using Svn. * Analyzed REGISTRYto store settings, data of application * Remote support for markets: US, EU, KOREA. * Analyzed and applied MULTITHREADING, THREAD POOLS to improve performance and user experience. * Debugged and troubleshoot software issues using Visual studio. * Prepared working and training plan for team.   **Techniques: C++, MFC, Encryption, Decryption, Sqlite, MultiThreading, MTP connections.** | |
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| **EDUCATION** | | |
|  | * **Bachelor’s degree in Automatic control, 2007 – 2012**   Thai Nguyen University of Technology, Thai Nguyen, Vietnam | |
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| **ACHIVEMENT** | | |
|  | * **2007: Third prize in national informatics exam.** * **2013: Expert level in Samsung software test.** * **2014: Samsung best employee Q1 2014.** * **2018: LG pioneer of automotive specialist by 2020.** * **2018: LG Electronics coding expert.** | |