Tran Quoc Trung

Date of birth	13/07/1991
Gender	Male
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EDUCATION

Sep 2009 - May 2014

University of Information Technology, Ho Chi Minh City
Engineering Degree in Computer Engineering Faculty
Gpa: 7.37/10

WORK EXPERIENCE

June 2016 - Present

Seldat Inc
Embedded Software Developer
Main responsibilities:
- Developer for project "*RFID UHF reader for warehouse system*."
- Developer for project *"Mannequin Robot for fashion design".*
- Write *GUI application for "Mannequin Robot".*

Mar 2014 - June 2016

ICDREC Center of Viet Nam National University
Embedded Software Developer
Main responsibilities:
- Design specification and write firmware for project: *“Access Controller for small and medium office”* .
- Design schematic and write firmware for project: “*XM200 sub-board supported to XM200 Black Box Car”.*
- Design schematic and write firmware for project: *"Electric reader using for reading electric meter value from long distance."*
- Design schematic and write firmware for project: " *Stand Alone Access Control project".*
- Test and apply RFID chip that made by ICDREC used for *Name Display* project.
- Test bugs and write peripheral library for SG8V1 MCU compiler made by ICDREC.

Mar 2013 - Mar 2014

Intern in ICDREC Center of Viet Nam National University
Trainee
- Project: *"TTS - Vietnamese Text To Speech"*
- Designed and write software in the project: *“Applying RFID technology intoName Display device used for conference room”.*

PROJECTS

RFID Tower

(Feb 2018 - May 2018)

Customer	Seldat Warehouse Deparment
Description	- Design an RFID Tower that collected all RFID tags item on 6 floors rack.
Team size	5
My position	Developer.
My responsibilities	- Research about virtual antenna for using multiplex technology that can extend to 12 antennas in one reader. - Modified new firmware base on gateway reader. - Support WMS team to control the reader. - Bug Fixing.
Technologies used	- Linux embedded environment. - Write firmware with C/C++ OOP languages. - RFID technology.

Mannequin Robot

(Apr 2017 - Jul 2017)

Customer	Seldat Fashion Deparment
Description	- This robot can changes body size that input by the tailor. Robot helps tailor could check and verify clothing of a customer.
Team size	6
My position	Developer.
My responsibilities	- Write specification and software architecture. - Define protocol communication between the robot and GUI software. - Developed software on the controller board. - Optimize code. - Bug Fixing. - Support write GUI control.
Technologies used	- Linux embedded environment. - Write firmware with C/C++ OOP languages. - Write service controller board with ShellScript. - Write GUI control with Java language.

RFID UHF Reader For Warehouse System

(2016 - 2017)

Customer	Seldat Warehouses System
Description	- This is the reader using RFID UHF technology for reading tags in cartons to help decrease time and human resources in warehouse system. - The reader could use for many application like: • Conveyor reader. • Gateway reader. • Forklift reader.
Team size	6
My position	Main Developer
My responsibilities	- Support write specification and design software architecture. - Define protocol communication between Host and Reader. - Developed embedded software. - Build linux distro for reader board from Debian distro. - Write service run-time controller for reader.

	- Optimize code - Bug fixing - Support Warehouse Manager on operates tests in the US.
Technologies used	- Linux embedded environment. - C/C++ OOP languages. - ShellScript. - RFID, Wifi, Zigbee, Ethernet.

Access Controller

(2015 - 2016)

Customer	ICDREC
Description	- Access Controller could control staff access for small and medium business by RFID technology. - Each controller could control up to 4 rooms and many controllers are works unique under server software.
Team size	4
My position	Developer
My responsibilities	- Write specification and define protocol communication. - Development firmware. - Review code. - Optimize code - Bug Fixing. - Training for customer.
Technologies used	- MCU 8-bit. - C language. - Microsoft Visual Studio C# for testing software. - RFID HF. - Ethernet for embedded system.

HHU Reader

(Jan - 2015)

Customer	EVN Ho Chi Minh City
Description	- This device could read electric meter without near by the meter from 100 meters.
Team size	3
My position	Developer and Tester
My responsibilities	- Analysis and design software architecture. - Development firmware. - Optimize code. - Bug Fixing. - Training customer.
Technologies used	- MCU 8-bit. - RF wireless transceiver. - Android 4.0. - C language.

SKILLS

Programming Languages	C/C++, C#, Java, Python, Shell Script.
Language	English: Intermediate. Japanese: Basic.
Data Analysis	Microsoft Excel, Word, Visio, Project, Dia.

Technologies	Be familiar with: RFID HF - UHF in Warehouse, Zigbee, Bluetooth, RF Wireless, Wifi, TCP/IP, Ethernet for Embedded System. Be familiar with 8/16 bit microprocessor: SG8V1, PIC: 24F, 16F, Arduino development board... Experience in working with communication hardware such as: ADC, UART, SPI, I2C. Experience in developing under Linux enviroment: - Experience with Cross Toolchain, BootLoaders, Linux kernel, Filesystem on embedded board. - Experience with board level development and debug: network-programing, Linux system call, POSIX, pthread, GDB tool. - Knowing with Buildroot and Yocto. Be familiar with version control software like: Github, Bitbucket. Has knowledge to check and review schematic hardware.
Soft Skill	• Read and work with English document. • Have a responsibility in job. • Good team player. • Problem solving skill. • Acquisition of new things. • Solving problems with flexible work hours • Good communication skills • Time management and working scientifically • Be able to work under high pressure.

HONORS & AWARDS

Jan 2017	Best Employee of the Month.

ACTIVITIES

Jan 2014 - Feb 2014	**Volunteer of Green summer campaign.** Take part in Teaching computing for students in disadvantaged areas campaign. Exam Season Support for national examination. Attend extracurricular activities held in university such as: take care of childrenwith disabilities, cleaning a cemetery, etc.