DUONG SI BINH

PERSONAL DETAILS

Name	**DUONG SI BINH**
Designation	Automation and Controlling Engineer
Gender	Male
Date of birth	June 25 2000
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EDUCATIONAL BACKGROUND

- Major: Automation and Control Engineering Technology - HCMUTE. GPA: 7.77/10
- Embedded Software Tester at Bosch Global Software Technologies Viet Nam for 11 months.

HONORS AND AWARDS

2019: Participated in the Robocon contest.

2020: Won the third prize of smart home applied in the field of IoT.

2022: Won the first prize on DoubleQ Cup Competition

PROFESSIONAL SUMMARY

- Developer with 0.5 years of experience: Unit testing ,Python script ,Bat script ,Trace32 ,Debugger, QAC Static Analysis, Cantata, Coco, Conan.
- +0.5 year experience in qualification testing (earned ISTQB qualification).
- Advanced C++ in programming .
- Experience in software development lifecycle and automation.
- Have knowledge about automotive communication protocols(CAN, ETHERNET)
- Design ,develop and test product-specific software of automotive body electronic module and system.
- Test cases design techniques: Equivalent Partitioning, Boundary Analysis, Constraint Analysis and Requirement Based.
- Build Python script for QAC to check quality code in project.
- Good understanding in Micro-Controller and Embedded System(SPI, I2C).
- Good at PLC ladder programing (Mitsubishi, Siemens, Rockwell,…)

- ☐ Defect tracking systems: Jira, Bitbucket, git , Source tree.
- ☐ Others tool: Microsoft Office, Coco, Google Test, Tool Management
- ☐ Have experience about automation testing: C/C++, Python
- ☐ Programming Languages: C/C++, Python
- ☐ Operating Systems: Windows
- ☐ Having knowledge about autonomous car.
- ☐ Have consistently contributed to company's growth and profitability by combining strong technical, management knowledge and with a dedicated proactive approach.
- ☐ Cooperative and able to perform within a team-oriented atmosphere
- ☐ Good English communication

TECHNICAL EXPERTISE & SKILLS

- **Proficiency Description**

1- **Basic knowledge:** Basic knowledge, needs much guidance and support in using the competence
2- **Limited experience:** Able to work in the area, needs some guidance in using the competence
3- **Practical application:** Good knowledge and skills, works independently, has sound experience in using the competence
4- **Applied theory:** Advanced knowledge and skills, provides guidance and direction to others
5- **Recognized authority:** Exceptional knowledge and skills, perceived as an authority in this competence area, is innovative in using the competence

- **Technology skill**

Skill	Proficiency	Experience	Last used	Notes
Programming Language				
C++, Python	3- Practical application	+0.5y	2023	
Tracking tool				
Jira	4-Applied theory	+0.5y	2023	
BitBucket	4-Applied theory	+0.5y	2023	
Jenkins	4-Applied theory	+0.5y	2023	
Git	4-Applied theory	+0.5y	2023	
Splunk	4-Applied theory	+0.5y	2023	

LANGUAGE SKILL

- Native in **Vietnamese**
- Intermediate in **English**

PROFESSIONAL EXPERIENCE

From 2019 to 2020: IoT based Home Automation:

Project	**Course Project 1**
Description	-With the desire to bring a smart and modern living space at the most reasonable cost to Vietnamese people. IoT based Home Automation is our solution for research and implementation. Refer to the ever-growing network of physical objects that feature an IP address for internet connectivity, and the communication that occurs between these objects and other Internet-enable devices system. The machines of the system which send different information like moisture, pressure, speed, temperature, gases, state light, etc. That information is stored in the database and in advance IoT. The data are fetched from the database and based on that to control the system.
Duration	• 2020 – 2021
Position	• Student
Programming language and microcontroller	• AT-Mega Microcontroller, ESP8266/ESP-01 Wifi ModuleMicrocontroller: PIC16f887A • Arduino Platform • C programming

Project	**Embedded Programming of DC motor control using PID and Fuzzy**
Description	-Designed a DC motor model with the control board Arduino Mega 2560. The PID and Fuzzy controllers are programmed on MATLAB Simulink and then loaded directly into the Arduino board to control the speed and the position of DC motor.
Duration	• 2020 – 2021
Position	• Tester
Programming language and microcontroller	• Programming language: Matlab-Simulink • Microcontroller : Arduino Mega

Project	**Robot Arm 3 DOF**
Description	- 3 DoF Robotic Arm (Kit) was designed to be aninexpensive yet highly versatile robotic arm using the fully configurable Lynxmotion Smart Servo (LSS) actuators. The four-bar mechanical design ensures the end effectorremains parallel to the surface, and offloads much of the weight of the joints onto the base.
Duration	• 2020-2021
Position	• Student
Programming language and microcontroller	• Programming language: C language • Micro controller: Arduino

Project	**Pneumatic control system using EX-600 Field Bus System (**final project**)**
Description	-To excute the remote industrial management system. We had applied a monitoring integrated control device which was sponsored by SMC. With this module, we can program and monitor system parameters like air pressure, speed, warning, etc.. though LAN such as IP address. Beside that, we also designed an user inteface that allows users to control and collect database on mobile devices.
Duration	• 2022
Position	• Member
Responsibility	• Research and design model for the system • Write code • Testing code and debuging
Technologies used	• PLC Rockwell, Arduino Uno • SMC Webserver, RSLogix5000, Arduino Platform • PLC programming, C programming

From 10/2022 to Now: At BOSCH Global Software Technologies Viet Nam.

Project	Unit testing for Mitsubishi, Wave3 and Audi project
Description	• Testing unit test with Cantata for Misubishi project. • Build environment and test framework for Wave3 and Audi project. • Tracking test script and analyzing source code • Set up environment for simulation and target test
Duration	• 2022 – NOW
Position	• Software Engineer
Responsibility	• Create and update test case • Update US document • Execute test cases • Solve problems, issues • Analyze bug and defect in source code

Project	Audi
Description	-As QAC is a static analysis tool, it is supported with a compiler wrapper and a result scanner like splint (which is also a static analysis tool). QAC allows to analyze the source code without execution of this code. Hence it can be applied in the early stage of development.
Duration	• 2023 – NOW
Position	• Task Coordinator
Responsibility	• Tracking and report for testing status per week and month direct to Engineering Manager. • Meeting to exchage solve the problem when having issue • Build short bat script for easier tracking task. • Assign task for teste team and calculate effort for tester • Update project document.