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Tampere, Pirkanmaa, Finland

https://github.com/zek213

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DIGITAL SKILLS

- Programming: C/C++, Python, C#
- GIT Hub
- Firebase Realtime Database
- Internet of Things
- Microsoft Office
- Linux

LANGUAGES

- Mother tongue: Vietnamese
- Other: English

NGUYEN TRI THONG

EMBEDDED SYSTEM SOFTWARE DEVELOPMENT

INTRODUCTION

I am a student that is interested in and has experience with embedded systems and software/automation development. As an identity, independent person, I am eager to learn and explore new aspects that will assist design and delivering solutions to real-world problems and make lives easier.
Now, I am looking for a job that relates to embedded systems to enhance my skills as well as contribute to the company.

EDUCATION

MASTER'S DEGREE: EMBEDDED SYSTEM

Tampere University - Finland
15/08/2020 - CURRENT

BACHELOR'S DEGREE: MECHATRONICS ENGINEERING

Ho Chi Minh University of Technology - Vietnam
04/09/2015 – 29/06/2019

WORK EXPERIENCE

BOSCH VIETNAM | AOOB TESTER
EMBEDDED SYSTEM ENGINEER
01/12/2019 - 29/07/2020

- Checking array out-of-bounds and invalid pointers in automotive projects.
- Develop C# tools to speed up the working process.

ABB VIETNAM | ROBOTICS ENGINEER
INTERSHIP
01/01/2019 – 30/03/2019

- Programming and controlling ABB robot via Robotstudio program.
- Simulating the workspace of the robot.
- Develop C# tool for welding robot.

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PROJECT

Master thesis project: Driver Distraction Estimator

31/10/2021 – 18/10/2022
This thesis presents an end-to-end system that is a combination of two types of models - the Coral AI model and the Decision Tree - to certainly assist tackle this challenge. The outcomes of this system are the driver's status, and an external module is in charge of advising the driver to drive carefully.
+ Language: Python.
+ Board: NVIDIA Jetson board and Raspberry Pi 3B+.

Master project: Protecting Bus - The last bus

31/10/2021 – 18/10/2022
This project is a part of the Programming 3 course. Create a bus stop program in Qt Creator. The main story is about delivering travelers to a safe place without being hit by aliens.
+ Language: C++.

At Bosch:

Tool: Fletching data to automotive program frame.
+ Language: C#.
+ Describe: Each car from each brand has its own standard, hence, the setting as well as the requirements such as the amount of gas released to the environment, ... are different. Before testing, the tester must fletch the data into an automotive frame. This tool also provides an option to reduce the time of this process from 3 hours to only 30 minutes.

Tool: Auto-generate report mail.
+ Language: C#.
+ Describe: Before the tool rolls out, the testers have to write manually the report which is very time-consuming. The tool gets the information of the sender and receiver from the assigned task mail of the manager and fletch all the faults of the automotive project from a template file. Time reduces from 30 minutes to 5 minutes.

At ABB:

Tool: Self-gathering data for welding robot.
+ Language: C#.
+ Describe: The tool gathers the shape data of a T beam or U beam and simulates the trajectory.