Vu Huu Bac

Fresher

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Lai Cach - Cam Giang - Hai Duong

SUMMARY

- I have a strong passion for technology and enjoy working on challenging projects.
- My goal is to find a job in a company where I can apply my skills and continue to learn and grow as a professional.

WORK HISTORY

CANON VIETNAM ELECTRICAL COMPANY

05/2022 - 07/2022

INTERN

Production line department

Learning valuable skills such as teamwork, problem-solving, and time management, while also gaining experience in accessing electronic devices and machines outside of real-worldenvironments

FPT SOFTWARE

5/2023 - 7/2023

INTERN

Learn about embedded skills specific KE16Z4 board and some soft skills.

EXPERIENCE

Research the information robotic system

01/2022 - 5/2022

Object: Robotic system

Members: 5

POSISTION : MEMBER

I'm the main coder on my team of five members.

TECHNICAL

Program language: Python, C/C++
MCU: embedded computers (Latte Panda) and Arduino Mega 2560Tools:
Arduino IDLE, Visual Studio Code, SQLite

- Our robotic system has three different parts: mechanical, electrical, and programming.
- My part is all about how to make the system recognize, the user who is asking and responding to the speaker.
- It also expresses motion and emotion through the arm and facial features, which include amatrix led.

APIs GPIO FOR STM32F407-DISC1

/2023 - /2023

Object: STM32F407-Disc1 board

Members: 1

POSISTION : MEMBER

I learn and build drivers for the STM32 board.

TECHNICAL

Program language: C/C++

MCU: STM32F407

Tools: Stm32CUBEx

- In this project, I use a bitwise operator to access the register to control the bus and clock.
- mostly, I use the "&" and "|" operators to shift the bit to enable to make register to work , Iwork with interrupt and GPIO.
- My source code is here: https://github.com/bacvu21/GPIO_API_Learn.git

Research Robotic arm 6 DOF with computer vison

1/2023 - 5/2023

Object: Robotic arm 6 dof

Members: 5

POSISTION : MEMBER

I'm main coder on this project , and I wiring some electric components like module step motor

TECHNICAL

Program language: Python, C/C++

MCU: Raspberry Pi and Arduino Mega 2560Tools:

Thony and Arduino IDLE

- In this project, I use OpenCV for computer vision control. To control the arm , I must classify objects in the box and send the signal via Arduino to make Arduino control thestep motor module.
- Using the Ski Learn module to train and graph theory to mark the position of the box .
- Here is a video to easily visualize: https://youtu.be/QWUPUYxQGJ0

EDUCATION

2019 – 2023

MECHATRONICS

Hung Yen University of Technology and Education

GPA : 2,97/4

SKILLS

C/C++, Python

- Understand advanced concepts in C/C++, Python,..

Embedded skills

- Has experiment on STM32F407Disc, KE16Z4,80C51,...
- Has knowledge about interrupt, GPIO, Sys tick, Core,...

3D design with Autodesk Inventor

- Design some basic mechanical object.

PLC

- Has basic knowledge PLC s7-1200 and a few sensor usually use inindustry field.

Office skills

- Has knowledge about word, excel, Powerpoint,..

English

- English B1 level
- Can understand almost document English paper

AWARDS

2022

Third prize in science in Hung Yen Province

2023

Third Prize for Scientific Research about Robotic Arm

CERTIFICATE

2022

Toiec 570

2023

C programming for beginners to master

2023

crash course with python

REFERENCES

TRINH THANH NGA

Teacher and Master - Hung yen University of Technology and Education

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ACTIVITY

5/2019 - 6/2022

GUITAR CLUB

member

expand and participate the event for school

HOBBY

Reading book:

- Passionate with everythings so that I always reading about Universe

• Swim and play music .