

NGUYEN ANH BINH

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SUMMARY

As an Embedded System Engineer, I specialize in the intricate fusion of software and hardware, sculpting the silent yet vital core of modern technology. With a meticulous eye for detail and a passion for crafting efficient, reliable code, I thrive in unraveling complex challenges within resource-constrained environments. Collaborative by nature, I seamlessly integrate my work with diverse teams, embracing continuous learning to stay at the forefront of innovation. Committed to ethical and responsible engineering, I approach each project with adaptability, resilience, and a deep sense of purpose, knowing that the solutions I create power the devices that shape our world.

WORK EXPERIENCE

Research, design and manufacture the durian classification system for export, Jan 2024 - Jul 2024 **The HCMUTE University**

- Research and design a durian classification system based on weight, color and object the durian
 - Responsibility :
Research and design hardware systems .
Image processing programming to identify contours and defects on durian fruits.
Programming to operate the system using the Ladder, and C programming language.

Embedded Software Automotive Internship, Bosch Global Software Viet Nam Aug 2023 - Jan 2024

- Embedded System Engineers (HIL Testing) : The EPS (Electronics Power Steering System)
 - Responsibility :
Analyze requirements from customer in DOORS and using tools from dSPACE to design environments testing. Next, testing and releasing the SW to implement in the EPS (Electronics Power Steering System)
 - Role : HIL Tester
 - Team size : HIL team and the project in charge : Honda

Design the Mechatronics project "Mobile Robot 3 DoF " ,The HCMUTE University Sep 2023 - Jan 2024

- Design and Simulation HW of Robot by SOLIDWORKS and MATLAB Simulink tools.
- Calculation and Design the PID controller to implement SW and control the Robot.

Embedded Academy Training Course By BOSCH Global Software Viet Nam Mar 2023 - May 2023

- Basic knowledge about Embedded Automotive
 - CAN protocol, Automotive Hardware basics, Testing,
 - SW Development Life Cycle, Safety and Cyber Security

Design And Train Model Artificial Intelligence Application to Machine Vision Field

- Processing Data and Training Model Artificial Intelligence
 - Diagnostic and detect COVID-19 in Lung by using X-ray image.
 - Identify defective workpiece surfaces

Design Hardware Components Industrial Robotic in HCMUTE

Aug 2022 - Dec 2022

- Calculation kinetics and design HW components "Robot Scara 3DoF" by AutoCAD, SOLIDWORKS.
- Design and customize for electronic boards (PCB) with purpose application for controlling the Robot

EDUCATION

Sep 2020 - Dec 2024

Ho Chi Minh University Technology and Education, Bachelor of Mechatronic Engineering

GPA : 3.22 /4.0

SKILL

- Technical Skills:
 - Strong Programming C/C++ and Python
 - Basic knowledge Linux with Embedded Devices, RTOS such as Raspberry Pi, PIC, and ARM
 - Basic knowledge of Circuit Design, PCB design and HW components.
- Soft skill
 - Visual Studio, Visual Studio Code, Matlab Simulink, Protues, Eagle, AutoCAD and SOLIDWORKS
 - Git, Trello, DOORS, JIRA (Scrum/Agile).
 - Microsoft Office Excel.
 - Being self-driven and Independent
 - Organizational and Time management
 - Adaptability and Patience
 - Teamwork and Collaborative abilities.
- Languages: Intermediate English
- Certifications:
 - Modelling and simulation of mechanical systems, Cybersecurity for Everyone