PHAM ANH QUAN

Developer

25/08/1999

Email: quan.pa2508@gmail.com

0338110464

PROFESSIONAL SUMMARY

- Having knowledge about embedded system including Software and Hardware development
- Ability to work independently as well as coordinate with a team
- Willing to learn and having a sense of responsibility
- Can read English document and communicate basically

TECHNICAL EXPERTISE

Programming languages	C/C++, Javascript, Nodejs Express, SQL, Python
Microcontrollers	Arduino, ESP, STM, Raspberry
Hardware design	Altium Design, Solidwork, AutoCad
Peripherals and protocols	UART, I2C, SPI, RS485; WIFI, MQTT, HTTP

PROFESSIONAL EXPERIENCE

- **Company:** Phenikaa – X Joint Stock company, Hanoi, Vietnam. **03/2022 – present**

Position: Electrical and control engineer

Responsibility:

- Research, select suitable hardware equipment for robot AGV, AMR.
- Design drawings of electrical systems and assembly.
- Programming the interface of the robot's peripherals
- Research and build robot call stations using WiFi and server communication via RESTful api.

- **Company:** FPT Software Company – Hanoi, Vietnam. **08/2021 – 02/2022**

Position: Developer (Onboarding)

Projects:

1. Build a quiz website using NodeJS, Express.
2. Build Mock Project C++ – Game caro that allows 2 players to play against each other over TCP/IP connection.

Acquired knowledge:

- Build Nodejs Webserver using ExpressJS framework.
- Build user interface based on template engine: Handlebars.
- Authenticate and authorize users using JWT, including accessToken and refreshToken.
- Build database using MySQL Server

- **Club:** ADC – A Robot and Digital factory HUST **03/2020 – 07/2021**

Science and technology contests:

1. Technical Design Content 2020
2. Canon Chie-Tech Intellectual Technology 2020

Responsibility:

- Leading and coordinating work for the team.
- Analyze problems, provide solutions, deploy and optimize the system .
- Design hardware and program the operation of multiple devices together.

PERSONAL PROJECT

Description:

Build an IOT Webserver that collects data from air quality measurement stations and controls actuators remotely via a dashboard interface.

Techniques:

- Program the Esp32 chip to read sensor data and send/receive messages to the web server via MQTT protocol.
- Build a MySQL database to save user information and integrate device information to the server.
- Deploy your website to an AWS EC2 server, add a domain name and SSL certificate for HTTPS access.
- Link website: https://iot-nodejs-webserver.tk/home

EDUCATION	
2017- 2021	**Hanoi University of Science and Technology, Vietnam** *Mechatronics Engineering* *CPA: 3.42/4* *Toeic IIG: 630*
HONORS && AWARDS	
2020 – 2021	- Earn study encouraging sholarship in the term of 2021
07/2021	- Earn the prize of "top 6 best engineering design products " in the Technical Design Content 2020
11/2020	- Earn the second prize of Canon Chie-Tech 2020
04/2019	- Earn the second prize of Canon Chie-Tech 2020

HOBBIES

- Always actively explore and discover new technologies in the field of IoT.
- Always interested in new things, love reading.
- Willing to participate in sports and cultural activities.