

Nguyễn Hoàng Phú An

ELECTRICAL ENGINEER · ELECTRONIC ENGINEER · LEANER

Thu Duc District, Ho Chi Minh City, Viet Nam

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“Hi. I’m just leaner.”

Education

HCMUTE(Ho Chi Minh University of Technology and Education)

Ho Chi Minh, Viet Nam

B.S. IN ELECTRICAL AND ELECTRONIC ENGINEERING

Aug. 2015 - Exp. Nov. 2023

- Win 3rd prize in contest “IoT Startup 2019: AQI System” organized by SHTP
- Work at 3D-Vision laboratory in Institute of Technical Education (embedded and hardware design)
- Teaching assistant in Supervisory Control and Data Acquisition (SCADA)

Programming Languages Skills

Top Languages	C, C++
Quite Proficient	Rust, Java (Swing, FX)
Flub through	JavaScript, Python, SQL
Languages	English, Vietnamese
Others	LaTex, Git, Dotfile, Markdown, HTML/CSS

Technical Experience

Bare Metal Embedded SDK	ESP-IDF, STM-HAL, Renesas-CCRL , Renesas-GCC-RX
Embedded Linux	Yocto Project , Qt5, Kernel module
PCB Design	Autodesk Eagle, Altium Designer
PLC	Siemens , Omron, Delta

Working Experience

Chienowa Co., Ltd.

Ho Chi Minh, Viet Nam;

Hamamatsu and Kofu, Japan

Apr. 2021 - Present

SR R&D ELECTRONIC ENGINEER

- Design schematic and layout PCB
- Low-level embedded program on Renesas MCU
- Embedded Linux kernel driver
- Java software development

IoTVision Ltd.

Ho Chi Minh, Viet Nam

Jun. 2018 - Apr. 2021

R&D ELECTRONIC ENGINEER

- Design schematic and layout PCB, mass production supervision, update and maintain product.
- Low-level embedded program for STM32, ESP, Renesas
- Design and make program PLC, HDMI
- Program Delta PLC and design HDMI for AHU system (DESKER Viet Nam JSC.)
- Add feature and maintain Siemens PLC and SCADA; upgrade server and backup database (NET Detergent JSC.)

3D Vision Laboratory (HCMUTE)

Ho Chi Minh, Viet Nam

May. 2018 - Present

FORMAL RESEARCH

- Researched and Developed IoT product meet requirements.
- IoT hardware design
- Low-level embedded programing

Team Logic Bit (IoT's solution freelance team)

Viet Nam

Sep. 2019 - Present

HARDWARE DESIGN

- Smart house solution, real time with MQTT and Socketio.
- Air Quality Index measurement system with LoRa gateway.

Projects, Publications & Courses

Air Handling Unit (AHU) and Heat Recovery System (HRS) - Desker JSC.

Ho Chi Minh, Viet Nam

SOFTWARE ENGINEER

. 2018

- Design and coding PLC program and HDM

Control and monitor humidity inside Salangane's nest house device - Bird's nest AIE.,JSC

Ho Chi Minh, Viet Nam

R&D IoT ENGINEER

Oct. 2019

- Design schematic and layout the circuit base on ESP8266 MCU
- Developing firmware the device
- Add feature to smart phone application (Apache Cordova)

PLC and SCADA system for washing power factory - ET Detergent JSC.

Dong Nai, Viet Nam

SOFTWARE ENGINEER

Apr. 2021

- Add new hardware to the system
- Add new feature to PLC program and SCADA

Electrolytic water hand washing machine - NIPRO CORP.

Kofu, Japan

Ho Chi Minh, Viet Nam

SOFTWARE ENGINEER

Apr. 2021 - Present

- Design schematic and layout main controller board
- Developing firmware base on Renesas MCU
- Migrate sensor driver to Linux distribution running on aSMARC-RZG2E SoM
- Developing UI on touchscreen with JavaFX, Qt

Additional Information

Travelling Passport, motorcycle driving license. I have been working in Japan total about 6 months