TRƯƠNG NHẬT TÂN

Embedded Software Engineer

Contact information

- Jan 11, 2000
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- https://www.youtube.com/playlist?list=PLCSDRGLR9b-aJj6NLD86Via0k4So7IHOr

Graduation Thesis

Restoring the Robot 6 DOF, using AC Servo to control Robot.
Using Motion control card PCI-N804, programing MFC interface to control Robot(C++).
Using HSV color space to detect objects.

Skills

Microcontroller

Strong knowledge with Renesas MCUs:

RH850/F1KM, RH850/U2B, RH850/U2C,...

Protocol: UART, CAN,...

Peripherals: OSTM, Port, ADC, PWM,...

C/C++ Programming

Strong knowledge of C/C++ programming.

Matlab/Simulink

Strong knowledge of Matlab/Simulink.

Objective

Aspiring to apply my accumulated knowledge combined with the ability to work independently as well as in a team, in order to contribute to the company's development.
Gaining more experience working andcommunication skill.

Education

Ho Chi Minh City University of Technology - HCMUT *Aug 2018-Apr 2023*

Major: Mechatronics

GPA: 7.2/10

Work experience

R&D Intern *Mar 2021-Oct 2022*

Ngo Ha Gia Limited Liability company

- Research on application of image processing in industrial production.
- Programming library, MFC to control Industrial Robot (C/C++ language).

Embedded Software Engineer *Nov 2022-Present*

BanVien Corporation

- Served as a sub-lead in an MBD (Model-Based Design) team using Matlab/Simulink.
- Proficient in understanding the V-Model and capable of setting milestones for various phases within the team.
- Capable of conducting work-related communication in English and providing direct progress reports to Japanese clients.
- Proficient in using various AI tools, including ChatGPT and Claude, for work support.
- Experienced in working with and comprehending Model in the Loop (MIL), Software in the Loop (SIL), and virtual Hardware in the Loop (vHIL) testing methodologies.
- Directly worked with various Renesas MCUs, including RH850/F1KM, U2B, and U2C.
- Extensive experience with various peripherals and protocols, including OSTM, Port, ADC, PWM, CAN, and UART.
- Worked through multiple development phases, including Analysis & Design (AD), Unit Design (UD), Component Design (CD), Unit Testing (UT), Integration Testing (IT), and Validation Testing (VT).
- Strong knowledge of compilers (specifically Renesas compilers) and debugging techniques.
- Proficient in using version control systems such as SVN and Git, as well as tools like Reqtify and Enterprise Architect.

Certifications

2021 : Certificate of participation in anual science technology conference of Mechanical science

2022 : Toeic: 580