NGUYEN THANH TOAN

Embedded Software Engineer, Developper

Gender

Male

Date of birth:

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Objective

I have finished my Bachelor Enginnering at Faculty of Electrical & Electronics Engineering, University of Technology, HCMUT. I am looking for a job related to simulation, robotics and embedded system programming.
Short-term goals: become proficient with the job within 1-2 months, complete on schedule the targets assigned by the company.
Long-term goal: to be a project manager

Education

Ho Chi Minh University of Technology, HCMUT , Major: Control and Automation Engineering

Sep 2017 - Aug 2021

- GPA: 8.32/10.0

Skills

Language: Vietnamese (native)
English:
Japanese:

Computer: Word, Excel,
Powerpoint: Proficient

Certifications

2018: TOEIC Certificate with score 640

2019: JLPT N3

Work experience

VIAM Lab, Ho Chi Minh University of Technology, HCMUT ,

Research Assistant

Jan 2020 - Present

Main responsibilities:
- Realize data interchange with STM32F407 microcontroller and function module through CAN, RS232, I2C, etc...

- Develop Graphical User Interface to find optimal path, customize

Interests

I like chess, music, programming, ...

PUBLICATIONS

2021 International Conference on Advanced Technologies for Communications: Path Planning for Unmanned Surface Vehicle (USV) in obstacle-filled environments

2021 International Symposium on Electrical and Electronics Engineering (ISEE): Online Robust Sliding-Windowed LiDAR SLAM in Natural Environments

Additional information

For more infomation, visit https://toan280199.github.io/Toan280199/

the controller 's parameter for 2D autonomous vehicles based on QGroundControl.

- Develop and apply path planning, guidance & control algorithm to create optimal paths and avoid obstacles for Unmanned Ships to follow (based on ROS).

- Control speed and position of DC motor by PID, STR and LQR Controller using GUI C# and STM32 microcontroller

Activities

Giải thưởng SVNCKH Euréka lần 22 năm 2020, Semi Final

Aug 2020 - Oct2020

Nghiên cứu, thiết kế hệ thống tích hợp USV-ROV phục vụ công tác giám sát, quản lí môi trường nước và biển đảo.