

Nguyễn Trần Anh Khoa

Thu Duc City, Vietnam

☎ 0942 370 597 ✉ anhkhoa.ngtr97@gmail.com 🌐 <https://www.linkedin.com/in/nguyen-khoa-2310611a0/>

OBJECTIVE

Have an opportunity to research and applied new technology and technique in electronics, automatic control, computer science, etc.

Work in the enthusiastic and collaborative environment.

Be able to learn the working experiences from the seniors and connect with the expert in the diversity expert of the another field.

As the fresher in embedded program, I have ambitious to show my own perspective and experience to contribute for the organization I worked for.

EDUCATION

❖ HCMC University of Technology And Education

Sep 2015 - Dec 2019

Major: Technology of Mechatronics

GPA: 7.52/10 (2.98/4.0)

TECHNICAL SKILLS

Program Language	C, C++. Bash script. Python (associate).
Framework/platform	Multi-task Application and interface with Linux OS. Base knowledge about types of microcontroller and peripheral. FreeRTOS.
Foreign Language	Ability to communicate fluently by English. TOEIC: 780/990
Other	Git/Github Make/CMake. Electronic knowledge. Robot kinematic.

WORKING EXPERIENCE

❖ Gremsy JSC

April 2021 - Now

Software Engineer

• **Project:** Pixy-SM

Description: Use an SoM board as a device to collect information, and command committed from the Aircraft system of DJI M300 RTK for controlling the Sony Camera and company's gimbal.

Technologies:

- Oclea SDK: provided for developer BSP, environment to build application on SoM
- Sony Camera Remote SDK: provides for developer interface with Sony Camera.
- DJI Payload SDK : provides for developer interface with DJI M300.
- Gstreamer : a library provides tools for constructing graphs of media.

Responsibilities:

- Handle control signal received from Drone and Remote.
- Upgrade the parameters and properties of the camera and gimbal to the drone system.
- Streaming the live-view image from the camera sensor to the remote monitor.

- Get GPS information from Drone to geotag the images captured from the camera.
- Writing documents for the QC department and customers.
- Maintain and upgrade the firmware based on the user's feedback.

❖ AN DUC THINH ELECTRIC

April 2020 - Now

Automation Engineer

- **Project:** 6 DOF Manipulator Maintenance and Update

Description: Function of the manipulator is pick ad place certain object from a conveyor and to another location next to it.Howerver, it have been operated improperly.

Responsibility:

Take in charge in finding the malfunction happened.

Revise the application of program used for interfacing with AC servo Pack and interpolation of the manipulator based on the FPGA framework.

Upgrade for target pattern recognition script writing by Python and applied with computer vision and deep learning.

- **Project:** Rice package counter

Description: Replace tradition inventory in the agricultural factories with a automatic solution. This method should have ability to count overlay packages and demonstrating effectively.

Responsibility:

Writing flowchart and main function of counter.

Design program used to count patterns, manage quantity of products and interface with customer based on ARV microcontroller.

- **Project:** Automatic solar panel cleaning machine

*Description:*Design a machine is able to clean the solar panels in solar farm located in Chau Duc - Ba Ria. It had to clean effectively each panel lane in the acceptable time and guarantee the situation of panel surface.

Responsibility:

Writing flowchart and main function of counter.

Design program to control the motivational motors and roller motors, process the sensor signal and input button, adjust the movement speed of the machine and show parameter on the displayer base on ARM microcontroller.

❖ AN DUC THINH ELECTRIC

April 2020 - Now

Automation Engineer

- **Project:** 6 DOF Manipulator Maintenance and Update

Description: Function of the manipulator is pick ad place certain object from a conveyor and to another location next to it.Howerver, it have been operated improperly.

Responsibility:

Take in charge in finding the malfunction happened.

Revise the application of program used for interfacing with AC servo Pack and interpolation of the manipulator based on the FPGA framework.

Upgrade for target pattern recognition script writing by Python and applied with computer vision and deep learning.

- **Project:** Rice package counter

Description: Replace tradition inventory in the agricultural factories with a automatic solution. This method should have ability to count overlay packages and demonstrating effectively.

Responsibility:

Writing flowchart and main function of counter.

Design program used to count patterns, manage quantity of products and interface with customer based on ARV microcontroller.

- **Project:** Automatic solar panel cleaning machine

Description: Design a machine is able to clean the solar panels in solar farm located in Chau Duc - Ba Ria. It had to clean effectively each panel lane in the acceptable time and guarantee the situation of panel surface.

Responsibility:

Writing flowchart and main function of counter.

Design program to control the motivational motors and roller motors, process the sensor signal and input button, adjust the movement speed of the machine and show parameter on the display base on ARM microcontroller.

❖ AN DUC THINH ELECTRIC

April 2020 - Now

Automation Engineer

- **Project:** 6 DOF Manipulator Maintenance and Update

Description: Function of the manipulator is pick ad place certain object from a conveyor and to another location next to it.Howerver, it have been operated improperly.

Responsibility:

Take in charge in finding the malfunction happened.

Revise the application of program used for interfacing with AC servo Pack and interpolation of the manipulator based on the FPGA framework.

Upgrade for target pattern recognition script writing by Python and applied with computer vision and deep learning.

- **Project:** Rice package counter

Description: Replace tradition inventory in the agricultural factories with a automatic solution. This method should have ability to count overlay packages and demonstrating effectively.

Responsibility:

Writing flowchart and main function of counter.

Design program used to count patterns, manage quantity of products and interface with customer based on ARV microcontroller.

- **Project:** Automatic solar panel cleaning machine

Description: Design a machine is able to clean the solar panels in solar farm located in Chau Duc - Ba Ria. It had to clean effectively each panel lane in the acceptable time and guarantee the situation of panel surface.

Responsibility:

Writing flowchart and main function of counter.

Design program to control the motivational motors and roller motors, process the sensor signal and input button, adjust the movement speed of the machine and show parameter on the display base on ARM microcontroller.

PASTIMES AND ACTIVITIES

I used my after-work time for upgrade keep my major knowledge stay-on-date, seeking the new idea and new technology from the foreigner site like medium or hackster.io.

I also research and implement more knowledge of the different field like web and mobile application, trends of IoT, new technology and use my snap time to study foreign language.

I used to be a private tutor of Universal Physic and Math for 2 year when I was in college.

I take part in volunteer activities support for my community in my hometown in the weekends.

Beside, I often participate in sports and artist activities to keep my body condition suit for work.