



Nam Le

OBJECTIVE

I am an Engineer researching and developing Computer Vision with 7 years of experience. I joined many projects with the applications Inspection, Measurement, Pick and Place, and Assembly. In the projects, I participate in the development of the algorithms of image processing for the vision system. I worked and have an understanding of devices in the Machine Vision System such as Cameras, Lenses, Lighting, IPC, Embedded PCs (Raspberry Pi, Jetson Nano), PLC, Motion controllers, IO controllers, and Robotics. Additionally, I also study and investigate AI, I have an understanding of basic machine learning and deep learning. I have worked so many with the YOLOv8 model, and I can train data with GPU or Google Colab and integrate inference of the YOLOv8 model into real projects with C++ language.

SKILLS

- Languages: C++, C#
- Frameworks: Qt, MFC, Winform, WPF
- Platforms: Visual Studio, Qt, Anaconda, Jupiter notebook, Google Colab
- OS: Windows, Linux(Ubuntu)
- Git, PowerShell, Python
- Libraries and tools: OpenCV, PyTorch, YOLO
- Communication Protocol: TCP/IP, RS232, Modbus

LANGUAGES

- English | Intermediate

CONTACT INFORMATION

✉ [Redacted]
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EXPERIENCE

SOFTWARE ENGINEER 2017 - 2020
AN HONG . HANOI .

- Calculating and selecting the devices for Vision Systems.
- Setup and Alignment of the devices for vision systems.
- Developed the features for the software of the vision systems.

COMPUTER VISION ENGINEER 2020 - 2022
RAV . HANOI .

- Develop software for automated machines using a control PC.
- Develop the algorithm computer vision for the automated machine with OpenCV library and C++ language.
- Setup and Alignment of the devices for Visual Inspection Systems combined cartesian-robot, SCARA robot, and 6-axis robot.

COMPUTER VISION ENGINEER NOV 2022 - AUG 2023
FREELANCE . HAIPHONG .

- Participate in the development of projects about automated machines, and vision machines.
- Research and develop algorithms for computer vision and integrate AI (YOLOv8) into real projects.

COMPUTER VISION ENGINEER OCT 2023 - PRESENT
SAEKWANG VINA . BACGIANG .

- Develop automated vision machines.
- Research and develop algorithms for computer vision and AI.

EDUCATION

ENGINEER 2011 - 2016
HANOI UNIVERSITY TECHNOLOGY OF SCIENT . HANOI .

PROJECTS

Sealing Inspection

- Check the width and height of the sealing layer with speciation.
- Check the defect on the surface of the sealing layer
- *Keywords:* OpenCV, C++, C#, WPF, USB3 Camera, PLC

Dino Camera check hole CNC

- Check the presence of the hole cutting by CNC, and measure the width and height of the edge cutting CNC.
- *Keywords:* Dino Camera, Jetson Nano, Arduino, PLC, OpenCV, CLI/C++, WPF, Qt

Integrate AI model for check chipping, cracks on edge screen panel

- Screen panels after the process of cutting, and grinding will often get defects such as chipping or cracking. This defect is very difficult to differentiate from another image that is not a defect. Only when using an AI model just can resolve this problem.
- *Keywords:* Linescan Camera, PLC, OpenCV, YOLOv8, Onnx, C++, CLI, Winform.

Pick and place the product with the SCARA robot

- Calculate and send coordinate, direct rotate to SCARA Robot Epson for pick and place product.
- *Keywords:* SCARA Robot, GigE Camera, OpenCV, C++