

"This resume was generated entirely in Python. For full sourcecode, view my portfolio."

# Naphat Nithisopa

## Robotic & Automation Engineering Programming system integration

Bangkok,TH  
+66-93-494-6545  
pection.naphat@gmail.com  
dev.to/pection  
github.com/pection  
www.linkedin.com/in/naphat-nithisopa

## PROJECTS/PUBLICATIONS

### • Lens Quality Checking using Machine Learning (First place)

- Published by Bachelor of Engineering Program in Robotics Engineering
  - This research project is about checking the quality of the lens with machine learning methods
  - The result of experiments show that the lens quality checking using machine learning can be achieved a performance testing with 99 %
  - This method can be applied to check the quality of lens in manufacturing automation in the future
- Keywords : checking the quality of the lens / polarization / image processing / machine learning

### • Humanoid League & 3rd Internation Award

- 3rd place Robocup Asia-Pacific RCAP 2017 in Humanoid Leagues(Kid Size)
- Learning in Humanoid-lab to 4 years
- Self-Learning Skills

### • XY-Plotter

- XY Plotter Project for control XY plotter with forward kinematic pid control and combine a Image Processing Draw Picture in 24FJ48GA002 controller

### • ImageProcessingDigitSegment & Robotic Controller

- Use machine learning to predict Digit with other font in realtime after that control a camera for predict position x-y-z axis to move

### • Lane detection with Raspberrypi for AMAS2017

- use matlab to lane detection in AMAS2017 and use matlab to control low-level for drive a car and combine a imageprocessing in matlab

### • SimulateRobotpickingGripper & find 2D convolution in hand

- Use simulate program for see Robot to picking a Gripper
- Find joint with Imageprocessing from Thermal Camera

**Portfolio: [github.com/pection/aboutme](https://github.com/pection/aboutme)**

## EXPERIENCE

### Kanazawa University/ Robotic researcher

5/2019-8/2019

- Make program to predict Hand joint from ThermalCamera with Imageprocessing and build How to use this program with Doctoral degree in Robotic lab

### Thai Optical Group/ Robotic Engineering

8/2019-12/2019

- Using the UI- 3240LE-NIR camera to capture and analyze an image with image processing and machine learning techniques to decide on lens quality in the computer.
- The result of experiments show that the lens quality checking using machine learning can be achieved a performance testing with 99 %

## EDUCATION & AWARD

### King Mongkut's University of Technology Thonburi Bachelor of Engineering Program in Robotics Engineering

2015-2019 GPAX: 2.85 :Active Recruitment Scholarship 50%



## Skills

- Electronic
- Python
- Pandas
- C,C++
- NumPy
- Image processing
- Machine Learning
- Controller
- Command Line
- Git and Version Control
- ROS
- APIs
- GUI

Learned popular controller  
,programing languages  
,Image processing  
,machine learning  
and Humanoid Robot

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