NATANON TRANGRATANAJIT

Robotics Engineer

PERSONAL INFORMATION

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OBJECTIVES

- To improve R&D and engineering skills.
- To invent new technology to catch an interested.
- To create valuable technology products that enhance human being.

WORK EXPERIENCE

2020 – Present

Robotics Engineer – Lertvilai and Sons Co., Ltd.

- Designed flexible shape gripper for robot arm.
- Developed industrial autonomous mobile robot with differential drive system.
- Developed auto charging system for industrial autonomous mobile robot.
- Developed autonomous UV disinfection mobile robot.
- Developed cart towing module for industrial autonomous mobile robot.
- Developed pallet lifting module for industrial autonomous mobile robot.
- Developed collaborative robot module for industrial autonomous mobile robot.

2019

Intern – Lertvilai and Sons Co., Ltd.

- Designed autonomous tractor engine painting system.

PROJECTS

2019

Thesis: Warehouse Arrangement Autonomous Mobile Robot: A autonomous mobile robot that arrange product on a shelf in warehouse

- Developed an autonomous mobile robot mechanism, implemented actuator control algorithm on autonomous mobile robot.

2019

The Robot Arm for The Storage Arrangement: A package arrangement system with robot arm, search and OCR algorithm.

- Developed mechanism, electrical schematics and implemented actuator control algorithm.

2018

The Prototype of Chicken-picking Machine: A machine that arrange chickens in the box which includes computer vision, and other hardware.

- Managed project and developed mechanism, electrical schematics and implemented actuator control algorithm.

2018

Educational Garbage Separator Machine: A machine that simulate different types of garbage, and children will operate the machine to classify the garbage.

- Managed project, developed electrical schematics and implemented system integration.

2018

Bicycle Wheel POV Display: A POV LED display a word or shape on bicycle wheel.

- Developed mechanism and electrical schematics.

2017

Borrow-Return System Web Application

TECHNICAL SKILLS

- Programming Languages: Python, MATLAB, C++, HTML
- Database: SQL
- Software robotics: ROS
- Mechanism design software: SOLIDWORKS, Fusion 360

EDUCATION

Class of 2020

Bachelor of Robotics and Automation Engineer (FIBO),
King Mongkut's University of Technology Thonburi (KMUTT)

- GPA: 2.55

Class of 2016

High School, Math&Science Major

- GPA: 2.90