

NATANON TRANGRATANAJIT

Software Engineer

Dedicated and innovative robotics engineer with 3 years of experience in designing and developing robotic systems. Eager to leverage my engineering expertise and strong problem-solving skills to excel in the software engineering field. Seeking an opportunity to expand my coding abilities, contribute to technological advancements, and be an integral part of a dynamic team focused on innovation and development.

EDUCATION

- *Bachelor of Robotics and Automation Engineer (FBO)*
King Mongkut's University of Technology Thonburi (KMUTT)
Completed in 2020
- The Web Developer Bootcamp
Udemy
- React-The Complete Guide
Udemy
- Next.js & React
Udemy
- TypeScript
Udemy

CONTACT

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ACHIEVEMENTS

- **2019-2021**
Designed an industrial autonomous mobile robot and implemented a differential drive control algorithm worth over ฿50million.
- **2022**
Managed AMR Towing Robot project worth over ฿4million.
- **2023**
Built my own portfolio website and other small side projects.

TOP SKILLS

- **Programming Languages**
 - HTML
 - CSS
 - JavaScript
 - TypeScript
 - SQL
 - Python
 - C++
 - MATLAB
 - UiPath
- **Styling & Design**
 - FIGMA
 - Adobe Photoshop
 - SolidWorks
 - Fusion360
- **Frameworks & Libraries**
 - React JS
 - Next JS
 - Tailwind CSS
 - Framer Motion
 - ROS
 - REST API
- **Version Control**
 - Git
 - Git Hub
 - Git Lab
- **Soft Skills**
 - Observation
 - Communication
 - Good Learner
 - Problem Solving
 - Teamwork
 - Decision Making
 - Division of Labour
 - Time Management
 - Clear Documentation

WORKS EXPERIENCE

- **Robotics Engineer – Lertvilai and Sons Co., Ltd.**
2020 – Present
Key responsibilities:
 - Developed industrial autonomous mobile robot with a differential drive system using Python and C++ for actuator control algorithm.
 - Designed UI for AMR Control Application.
 - Developed front-end for AMR Control Application using Next.JS framework.
 - Developed auto charging system for an industrial autonomous mobile robot.
 - Developed autonomous UV disinfection mobile robot.
 - Developed a collaborative robot module for an industrial autonomous mobile robot.
 - Developed a 4-meter height AMR robot to operate and arrange products in the warehouse.
- **Intern – Lertvilai and Sons Co., Ltd.**
2019
Key responsibilities:
 - Designed an autonomous tractor engine painting system using an OCR algorithm.

PROJECTS

- **Portfolio Website – 2023**
 - Built my own portfolio website using NextJS frameworks, Tailwind CSS for styling and Framer Motion to make it more interesting and deployed on Cloudflare CDN.
- **Weather Forecast Application – 2023**
 - Built a weather forecast dashboard to show current day and daily next 5 days forecast data using a free Weather-API from Open Weather Map. Used a GeoDB-Cities API from Rapid API to make users choose data to forecast by city.
- **Project Manager Application – 2023**
 - In a project manager application, the user can create a project and define the date and details of the project. Also inside the project user can create a task for the project.
- **Next Events Application – 2023**
 - Built an events application to show information for upcoming events by month and year filtered.
- **Investment Calculator Application – 2023**
 - Built an investment calculator to help users calculate a basic income and plan to invest by inputting current savings, yearly savings, expected interest and investment duration.
- **Gericht Restaurant Application – 2023**
 - Built a restaurant food and beverage gallery application.
- **Warehouse Arrangement Autonomous Mobile Robot – 2019**
 - Developed an autonomous mobile robot that arrange products on a shelf in the warehouse using lidar sensor and QR code reader for localization and navigation.
- **The Robot Arm for The Storage Arrangement – 2019**
 - A package arrangement system with robot arm, search and OCR algorithm.
- **The Prototype of Chicken-picking Machine – 2018**
 - A machine that arrange chickens in the box which includes computer vision, and other hardware.
- **Educational Garbage Separator Machine – 2018**
 - A machine that simulate different types of garbage, and children will operate the machine to classify the garbage.
- **Bicycle Wheel POV Display – 2018**
 - A POV LED display a word or shape on bicycle wheel.
- **Borrow-Return System Web Application – 2017**
 - A system to manage and make a data log for borrowing and returning teachers' cameras for students.