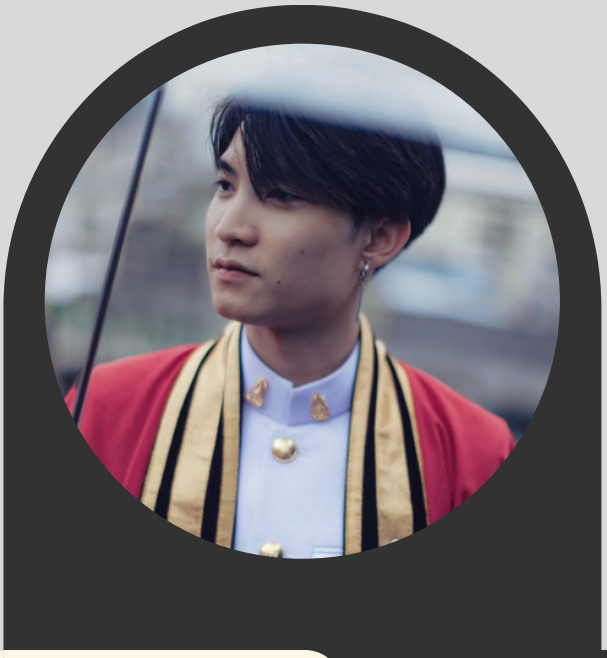

NATANON TRANGRATANAJIT

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 (FIBO)*
  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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W: *https://natanon-portfolio-v1-1.pages.dev/*

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
- 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:
  - Designed a flexible shape gripper for the robot arm.
  - Developed industrial autonomous mobile robot with a differential drive system.
  - Developed auto charging system for an industrial autonomous mobile robot.
  - Developed autonomous UV disinfection mobile robot.
  - Developed cart towing module for an industrial autonomous mobile robot.
  - Developed pallet lifting module for an industrial autonomous 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 image processing 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 using a free weather API from Open-Meteo. Used a basic country-state-city npm library to make users can choose data to forecast by city.

- 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.