Computer Engineering

INTERNSHIP OBJECTIVE

Apply and Expand my skills in Robotics, AI, and Web Development. Eager to contribute to projects that integrate intelligent algorithms with web-based interfaces, bridging the gap between hardware control and software applications.

ACADEMC BACKGROUND

- Sapphawithayakhom School | Science Math and Technology Program GPAX 3.94
- Chulalongkorn University | B.Eng. in **Computer Engineering & Digital Technology**

ACADEMC PROJECT

- **WORKSYNC** | Built a Node.js/MongoDB platform that optimizes team scheduling by algorithmically matching task deadlines with member skills and availability.
- **ROS2 Robotic Arm** | Developed a control system using ROS 2 and MoveIt, implementing topic-based trajectory execution and inverse kinematics validated in RViz.
- **Smart Scanner Web App** | Built a containerized full-stack platform using Node.js, Python, and Docker, leveraging YOLOv8 and vector similarity algorithms for real-time retail product identification.

ABOUT ME

Name : **THANANNOP CHUKIATKUL (RYU)**

Date of Birth: **September 25, 2006**

Age: **19 Years Old** / Religion : **Buddhism** / Nationality : **Thai**

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TECHNICAL SKILLS

Web Technologies: **HTML, CSS, Javascript, Typescript, React, MongoDB, NodeJS, TailwindCSS**

Robotics & Simulation: **ROS, MoveIt, urdf, Gazebo, RViZ, Arduino**

Programming Languages: **C++, Python**

Computer Vision: **OpenCV, Yolo**

Design & Prototyping: **Fusion 360, Ultimaker Cura, 3D Printing**

Tools & Environment: **Git/GitHub, Linux (Ubuntu), Docker**

TRAINING & COMPETITION ACTIVITIES

Robotics Competitions

RoboCup Asia Pacific 2023 | Robo Rescue League

RoboCup Junior Soccer Open 2022 | Thailand

Robotics Workshop Instructor

- Served as a Guest Speaker and Trainer for basic robotics workshops targeting teachers and students.

Training & Workshops

- **Next Gen AI Camp**: Explored Generative AI technologies and LLM applications.
- **Robotic and AI Ventures 2024 (KMITL):** Focused on Mobile Robots, Drones, and Embedded Systems.
- **ROS 2 & MoveIt Development (Udemy):** Specialized training in robot motion planning.
- **Google AI Essentials:** Foundational knowledge in AI ethics and prompt engineering.

LANGUAGE

Thai | English | Chinese (Basic)