

# KRAIYOS WANNA

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## Professional Summary

A dynamic **DX Engineer** specializing in bridging OT and IT. Driven by a relentless passion for learning, I previously stepped out of traditional engineering to master **Full-Stack development**—arming myself with deep IT capabilities to solve complex manufacturing challenges. Today, my focus is intensely set on Artificial Intelligence (specifically NLP and Predictive Modeling). While still expanding my **AI architecture expertise**, I bring a steep learning curve, absolute dedication, and a hunger to transform the knowledge from the **Super AI Engineer** camp into practical, real-world innovations for the industrial sector.

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## Education

### Full-Stack Developer – Certificate

TechUp  
Jan'23 - May'23

### Bachelor of Mechanical Engineering

Suranaree University of Technology  
July'15 - July'19 GPA: 2.89

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## Professional Experience

### Production Engineer (Smart Factory)

MAHLE Engine Components | Bangkok, Thailand  
May 2024 – Present

- **Deployed an AI-powered Machine Vision solution** (HIKVISION Vision Master) for piston defect detection. **Designed the inspection logic flow** and trained deep learning models to achieve high accuracy in identifying surface anomalies, significantly reducing manual inspection workload.
- **Selected to lead a Digitalization Initiative** (starting 2026) assigned by MAHLE Global, focusing on extracting real-time machine data for **visualization and analytics**.
- **Engineered an end-to-end Waste Tracking System** using **Next.js** and **Supabase**. Owned the entire SDLC—from gathering user stories and database design to frontend/backend development and **CI/CD** deployment.

### Full-Stack Developer / Technical Presales

Software Solutions Provider (Government Project) | Bangkok,Thailand  
June 2023 - Jan 2024

- **Backend Development & Refactoring:** Developed scalable backend services using TypeScript, designed RESTful APIs, and refactored legacy code to improve maintainability and performance.
- **Technical Presales:** Prepared technical proposals and specifications for **government sector bids**, translating complex system requirements into competitive solutions.

### Production Engineer - Assistant Team Leader

ENKEI THAI Co., Ltd. | Samut Prakan,Thailand  
July 2019 - Jan 2023

- **Designed new machine sequence logic** and coordinated with the PLC team to merge working steps, reducing cycle time by **12 seconds (Kaizen Award)**.
- **Served as Lead Auditor** for ISO:14001/45001, overseeing internal audit processes to ensure compliance with global safety and environmental