

TANNAPAT PHONHIRUNLAK

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PROFILE

Fourth-year Electrical Engineering (English Program) student with a growing passion for coding and a focused on strengthening coding and problem-solving skills to guide my future career.

EDUCATION

2022 – 2025	King monkut's university of technology north bangkok	Thailand
	• Major in Electrical engineering	
2016 – 2021	Bodindecha (Sing Singhaseni) 2 school	Thailand

EXPERIENCE

2025	Engineering Mini-Project Electric-Drive	Thailand
	• Developed a Human–Machine Interface (HMI) application to control a stepper motor.	
	• Implemented serial commands for start, stop, direction, and speed RPM adjustment.	
	• Added live status display to monitor operation in real time.	
	• Validated software to hardware control on a physical test setup.	
2023	Engineering Mini-Project Microprocessor	Thailand
	• Built an IoT-enabled robot vacuum using a microcontroller.	
	• Programmed control logic in C for sensing, actuation, and motion behavior.	
	• Designed the system workflow for data processing and device communication application.	

ADDITIONAL INFORMATION

- **Technical Skills:** basic programming (Python, C, Java, HTML), experience with MATLAB, Arduino, and ESP32, understanding of embedded systems and Internet of Things.
- **soft skills:** Leadership, Collaboration and Teamwork, English Communication, Time Management, Problem-solving.
- **Languages:** Thailand, English.