TANNAPAT PHONHIRUNLAK

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https://portfolio-tannapat.pages.dev/

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 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 programing (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.