SUPHITCHA CHOMCHUEN

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ABOUT ME

Electronics and Computer Systems Engineering student with strong logical and problem-solving skills developed through engineering experience. Currently focusing on Python, SQL, Excel, and Power BI to build expertise in Data Analytics. Passionate about transforming data into actionable insights that drive efficiency and innovation within organizations.

EDUCATION

SILPAKORN UNIVERSITY

Faculty of Engineering and Industrial Technology, Major in Electronics and Computer Engineering

2021 - 2025

HARD SKILLS

- Python
- SQL
- Power BI
- Excel
- Data Cleaning & Visualization
- Data Interpretation
- Microsoft Office

SOFT SKILLS

- Analytical Thinking
- Communication
- Teamwork
- Problem Solving
- Adaptability
- Time Management

LANGUAGES

Thai   - Native

English - Intermediate

Spanish - Beginner

WORK EXPERIENCE

INTERN – PROVINCIAL ELECTRICITY AUTHORITY, CENTRAL REGION 3, NAKHON CHAI SI   APR 2024 – JUN 2024

- Assisted in installing and configuring Windows operating systems and office applications.
- Checked and maintained printers and other computer equipment within the office.
- Supported IT staff with basic hardware troubleshooting such as RAM cleaning and system startup issues.

PROJECT

- **DEVELOPMENT AND TESTING OF IMAGING PROCESS FOR RADIO TOMOGRAPHICAL IMAGING SYSTEM**

Objective: 1. To study the application of Radio Tomographical Imaging (RTI) for image reconstruction based on radio signal attenuation using a wireless sensor network, simulated through computer modeling with the Python programming language.
2. To develop a prototype object detection system based on the RTI method within a wireless sensor network. 3.To evaluate the detection performance of the RTI-based wireless sensor network within a controlled area.
Description: Studied and conducted experiments using a wireless sensor network (ESP-32, 2.4 GHz) to collect data and analyze signal variations caused by object movement.
Role : Collected experimental data through field testing, and was responsible for data cleaning and visualization using Python to process raw signal data and create comparative charts in Excel.
Solutions: Applied data filtering and Exponential model to reduce Mean Square Error (MSE) and enhance result reliability.
Results: Limited detection accuracy due to high signal attenuation and wave reflection interference.
Learnings: Developed skills in data interpretation, teamwork, and technical communication.
Future Development: Improve experiment setup and upgrade hardware (ESP32 5 GHz) to reduce noise and enhance precision.

- **PROCUREMENT KPI ANALYSIS (KAGGLE DATASET)**

Objective: Analyze procurement data to evaluate supplier performance and identify opportunities to improve procurement processes.
Description: Cleaned and transformed a procurement dataset from Kaggle using Python, and visualized key performance indicators (KPIs) through interactive Power BI dashboards.
Role: Handled missing and inconsistent data using Python (Pandas) and designed interactive dashboards in Power BI to communicate insights effectively.
Problems: Some supplier records were missing, and purchase order (PO) data contained inconsistencies.
Results: Developed a Power BI dashboard that visualized supplier performance, cost trends, and risk levels to support strategic decision-making.
Learnings: Enhanced understanding of data-driven decision-making and strengthened analytical thinking to translate technical data into clear business insights.
Future Development: Plan to add predictive analytics and advanced interactive filters to enable deeper and more dynamic data exploration.