Phan Nguyễn Như Hòa

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Profile

5+ years in IT for the M&E and refrigeration industry, with infrastructure serving up to 450 users and IT for 2 construction sites. I run networks and servers, build in-house software, and bring IoT and AI into everyday operations — from a digitally signing PDF editor to a live building energy dashboard.

Experience

IT Dept. Head
07/2025 — present

SEAREE · M&E and Refrigeration JSC

Own the full IT infrastructure, in-house software, investment proposals and license compliance; rolling out EMS, AI chatbots and IoT.

Automation Engineer · IT SysAdmin
07/2023 — 06/2025

SEAREFICO · Parent group

Systems administration and automation; IT for 2 construction sites.

IT
07/2021 — 06/2023

SEAREE

Ran the network and servers and supported users company-wide.

Selected projects

04PDF — PDF editor with digital signing
Live

In-house PDF editor replacing a commercial tool, with USB Token digital signing built in.

`C# · WPF · .NET 4.8 · iText · PdfSharpCore`

EMS Dashboard — Energy monitoring
Live

Building power dashboard: drill down floor → cabinet → device in real time.

`JavaScript · nginx · TDengine · Cloudflare · IoT`

SEAREE Canteen — Meal management
Live

Meal-ordering web app for staff, kitchen and managers, connected to RFID kiosks.

`FastAPI · React · Vite · PostgreSQL · Ubuntu`

RFID meal kiosk
Live

Mini-PC kiosk app: staff tap their card to collect meals, keeps working offline.

`Python · Tkinter · RFID · HMAC · IoT`

Zalo assistant for management
Live

Internal Zalo bot that reads and creates Outlook events, sends reminders and answers with AI.

`n8n · Gemini · Microsoft Graph · Zalo Bot · Cloudflare`

E-invoice processing tool
Completed

Desktop app for accounting: search, analyse and bulk-download e-invoices.

`Python · Flask · pywebview · PyInstaller`

Competencies

Technical Vision	●●●●○
Software Development	●●●○○
System Architecture	●●●●○
Cybersecurity	●●●●○
Data Management	●●●○○
Cloud Computing	●●○○○
Project Management	●●●●●
Vendor Management	●●●●○
Innovation Management	●●○○○

Skills

Networking & security
Cisco (CCNA), VLAN, pfSense, OpenWrt, WireGuard VPN, Firewall, Cloudflare Tunnel / Access / WAF

Systems & servers
Windows Server / AD (MCSA, MCITP), Microsoft 365, Ubuntu Linux, VMware, nginx, PostgreSQL, TDengine

Software development
Python (FastAPI, Flask, PyQt6), C# / WPF .NET, JavaScript / React, HTML / CSS, PHP / WordPress, Playwright, Git / GitHub

AI & automation
n8n, Gemini API, RAG / Embeddings, YOLO Pose, Microsoft Graph API, Zalo Bot Platform, Claude API

IoT & hardware
Raspberry Pi, ESP32 / RP2040, RFID MIFARE, IoT gateways, ToF sensors, Camera IP / RTSP, MQTT

Management & documentation
Investment proposals, Software license management, Hardware standardisation, Intern mentoring, Executive presentations, IT budgeting, IT policy writing

Education

Network & Communications
Duy Tan University · 2014

Computer Networking
College of IT – University of Da Nang · 2010

Certifications

CCNA · MCSA · MCITP