Siravij Praevisavakij (BB)

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EDUCATION AND QUALIFICATIONS

School of Information Technology, KMUTT
Bachelor's degree on Information Technology   Aug 2024 – Now

Thai German Pre-Engineering School, KMUTNB
Certificate in Electrics and Electronics   2021 - 2023

SKILL GAINED

- Object detection on TensorFlow Lite with Award Winning Model (Python)
- Hyperconverged Infrastructure, Linux, Bash, Docker, Python, HTML, JavaScript, SQL, GitHub Actions, Networking
- Automated CI/CD pipeline for package deployment on GitHub
- Home Lab Proxmox: Home Automation and Virtual Machine Deployment

EXPERIENCES AND AWARDS

HomeLab@Siravijbb's Home
System and Network Administrator   2024 – Now
Repurposed a legacy gaming laptop as a Proxmox node to self-host services and simulate workload migration during failure scenarios.

IT Green Public Company (Limited)
HCI Infrastructure Intern   Jun - Aug 2025
Deployed Sangfor Hyper-Converged Infrastructure (HCI) clusters, handling hypervisor installation and virtual storage configuration.

School of Information Technology, KMUTT
IoT Hackathon 2025 Second Runner Award   Jan - Jun 2025
Engineered an optimized seat detection, utilizing ROI and periodic scheduling to display seat availability dashboards.

Japan Aerospace Exploration Agency and NSTDA (Thailand)
Astronut Team, World and Thailand Champion on 5'th KIBO Robot Programming   Apr – Nov 2024
Trained and fine-tuned machine learning models with ensured mission reliability via 1,000+ manual simulations, stress-testing the ML model against edge cases.

King Mongkut's University of Technology North Bangkok
NBGEARS Team, Thailand   2023
Developed and validated control software for the competitive robotics team, focusing on system stability and operational efficiency.

King Mongkut's University of Technology North Bangkok
KNACKSAT-2 TGPS Satellite Project   2021 – 2025
Designed and validated the Payload PCB, ensuring mission reliability from initial schematic layout to final satellite hardware integration.

PROJECTS

Kibo Robot Programming Challenge (5th Kibo-RPC) – Team Astronut: Thailand Representative & 1st Place International and Preliminary
- Trained and fine-tuned machine learning models to detect target items within the ISS Kibo module, utilizing custom datasets to recognition.
- Model testing and validation, analyzing inference results to minimize false positives and ensure reliable target.
- Extensive code testing through the Astrobee Robot Simulator, identifying edge cases and verifying system stability.

Siravijbb's HomeLab (Blog)
- Virtualization: Proxmox VE, LXC, QEMU, TrueNAS, Jellyfin, Home Assistant, Ubuntu, Kali Linux
- Networking: MikroTik RouterOS, VLAN, VPN (WireGuard)

Creatorsgarten
- Contributed to the Creatorsgarten community by volunteering as event staff, assisting with logistics and coordination for technical meetups.
- Supported community growth by helping organize and staff events, ensuring smooth operations for networking and knowledge-sharing sessions.

thai-bad-words/SIT-Sandbox
- Implemented CI/CD pipelines using GitHub Actions, automating the testing, versioning, and deployment processes to streamline package updates.
- CI/CD: GitHub Actions, npm repository

SIT-KMUTT Seat Monitor System - IoTSmartCam Team
- Engineered an optimized detection, utilizing ROI and periodic scheduling to display seat availability dashboards.
- Tech Stack: Python, YOLO, Dokploy, Postgres, Svelte

ADDITIONAL SKILLS

Software: Git, GitHub, JetBrains Product, Docker, Proxmox, Sangfor HCI, Linux, RouterOS
Development: Web Development, Python, ML, Svelte, Postgres DB, Docker
Cloud: Microsoft Azure, Netlify, Vercel, MongoDB atlas
Languages: Proficient in English (TOEIC: 945) / Native in Thai