Nguyen Huu Kien

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Profile

Born in 1997, I am a passionate engineer with experience in embedded systems, automated software testing and industrial automation. Eager to contribute to innovative projects, enhance system reliability through robust testing, and leverage technology to solve real-world challenges.

Skills

PROGRAMMING LANGUAGES

Proficient: Python, C++
Experienced: Rust, Go, PowerShell, Shell, Batchfile
Familiar: C#, Lua, Nix, PLC languages (Structured Text, Function Block Diagram)

AUTOMATION & TESTING

AI/ML Application: Applying Python, Docker, GCP, and CI/CD (GitHub Actions) for developing, deploying, and integrating efficient AI/ML solutions.
Designing, developing, and implementing automated hardware-software testing solutions.
Building and maintaining test automation systems for manufacturing and software.
Experience with PLC programming and industrial automation systems.
Proficient in scripting with PowerShell, Shell, and Batchfile for automation tasks.

TECHNICAL SKILLS

Operating Systems: Linux, Windows
Cloud Platforms: GCP, Fly.io, Synology
Databases: SQLite
DevOps & Version Control: Docker, GitHub, GitHub Actions, Cargo, Pip
Data Analysis: Jupyter Notebook
Documentation Tools: Quarto, Markdown, Mermaid Chart
Design & Simulation Tools: FreeCAD, KiCad, OpenFOAM
System Configuration: Nix (for NixOS)

SOFT SKILLS

Good communication and teamwork skills.
Motivated and self-directed learner.
Adaptable and willing to take on new challenges.
Problem-solving and analytical skills.
English: Can understand the main ideas of a complicated topic and communicate basically with native speakers.

Chinese: Able to understand and respond briefly to basic work-related issues.

Experience

Test Developer [CyberTAN - Foxconn Technology] [Bac Ninh, Vietnam] [08/2024–Present]

Responsible for verify new firmware release, designing test plans, developing test programs for product prototypes, and managing NPI test execution.
Designed and implemented automated test systems for manufacturing processes, enhancing efficiency and product quality: RF Testing, Function Testing, Network Device Testing...
Developed and implemented a system for production yield testing and monitoring.
Built an automated MAC address assignment system.

Application Software Manager [ITC Technology JSC] [Bac Ninh, Vietnam] [08/2019-8/2024]

Successfully migrated the company website to a new Rust-based platform.
Developed firmware for controllers and air conditioners, improving performance and reliability.
Led the development of user-friendly software for internal processes.
Developed firmware and software for new fire alarms and building management systems.
Implemented automation solutions to improve efficiency and accuracy.

Education

B.A. Electronics Engineer [*The School of Electronics and Telecom, Hanoi University of Science and Technology*] [Hanoi, Vietnam] [08/2015-08/2020]

Interests

Participating in team-based computer games
Exploring new places through travel, walking, and hiking
Designing and building DIY gadgets