

# Nguyen Huu Kien

Lung Giang Ward · Lim Town · Tien Du District · Bac Ninh Province · Vietnam

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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

Designing, developing, and implementing automated 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.  
Hardware-software integration and testing.

### 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.

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