

# Nguyen Huu Kien

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

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## Summary

Interested in embedded systems, IoT, and automation.  
Ability to use Rust, Python, C#, C++ and PLC programming language.  
Knowledge about blockchain and crypto finance.  
Imbued with a passion for self-learning and improvement.

## Experience

### Application Software Manager

[ITC Technology JSC]

[Bac Ninh, Vietnam]

[2022-]

#### PLC Firmware Development

Developed firmware for Carel controllers and VKool precision air conditioners, resulting in improved performance and reliability.

#### V-Calselector Development

Led the development of V-Calselector software, creating a user-friendly interface for quick information retrieval.

Integrated the software with the company's database for accurate and up-to-date information.

#### Website, Data, and Security Infrastructure

Designed and managed the company's website, data, and security infrastructure.

Successfully migrated the website to a new Rust-based platform.

### Automation Engineer

[ITC Technology JSC]

[Hanoi, Vietnam]

[2018-2022]

#### Automatic Fire Alarm Project

Developed firmware and software for a new automatic fire alarm system.

Installed and tested the system at a large commercial building, mega mall, and factory.

#### BMS Project

Developed software for a new building management system.

Implemented the system at a new residential development.

#### Internal Software Tool

Developed software tool to automate the company's procurement process, improving efficiency and accuracy.

### Software Engineer

[Personal Portfolio]

[Bac Ninh, Vietnam]

[2018-]

Investment Portfolio Allocation and Cryptocurrency Trading Bot

Automated the allocation of investment portfolios and trading of cryptocurrencies on Binance using Google Cloud Platform VSP.

Polkalance

Developed a decentralized job marketplace built on Substrate and ink!, providing a secure and transparent platform for job seekers and employers. Polkalance

Sofle Keyboard

Built a custom mechanical keyboard using the Sofle keyboard kit.

And more ...

## Education

[B.A. Electronics Engineer]

[*The School of Electronics and Telecom, Hanoi University of Science and Technology*]

[Hanoi, Vietnam]

[2015-2020]

## Skills

### TECHNICAL SKILLS

Operationg Systems: Window, **Linux**.

Programming Languages: **Rust**, **Python**, C++, C#.

Automation PLC Programming Languages: Structured Text, FBD.

AI Search Tools: **Google Bard AI**, Phind.

AI Developer Tools: CodiumAI.

Databases: SQLite.

Web Frameworks: **Leptos**, Tailwind CSS, Next.js.

Cloud platforms: GCP, Fly.io, Synology.

Technology Tools: **Docker**, **Github**, **Cargo**, **Pip**

IDE: Visual Studio Code, **Helix**.

Document Tools: **Quarto**, Jupyter Notebook, Typst, Notion, Rmarkdown, Mermaid Chart.

### SOFT SKILLS

Communication: Ensures everyone is heard and on the same page, keeping conversations productive and engaging.

Teamwork: Values strong relationships and collaborative spirit.

Self-learning: Proactively seeks out new knowledge and skills to adapt to evolving environments and stay relevant.

Technical Writing: Translates complex technical information into clear, concise documents.

## Interest

Team player game

Walking

Reading