Ngo Van **Canh**

Samsung R&D VietNam · Software Engineer

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"Choose a job you love, and you will never have to work a day in your life."

Overview

- Electronics and Telecommunication Engineering student with 5 years of programming experience in both software and hardware development projects.
- Proficient in C, C++ and Python, with expertise in industry-standard tools like CMake, Git, and Docker.
- Member of AICS Lab, contributing to several AI projects including "Document skew correction", "English grammar correction" and "Optical Character Recognition".
- Authored an IEEE paper on "A novel deep learning based method for Vietnamese ID card skew correction".

Education

Hanoi University of Science and Technology (HUST) *Hanoi, Vietnam*

B. S. in Electronics and Telecommunication Engineering (Undergraduate) *Mar. 2019 - Aug. 2024*

School of Electrical and Electronic Engineering

Skills

Software development	C, C++, Assembly, Python
Hardware development	Embedded c, Verilog
Languages	English, Vietnamese
Others	Docker, Latex

Experience

Samsung R&D Center Vietnam *Hanoi, Vietnam*

C/C++ Developer Intern *Jul. 2023 - Aug. 2023*

- Trained about various algorithms in C++, ranging from basic to advanced.
- Collaboratively developed a mini console based game in C++.

Publications

Conference Proceedings

Vo Le Cuong, Nguyen Phuong Huy, Ngo Van Canh, Do Duy Thai, Nguyen Sy Duy, Vo Sy Hung. "A novel deep learning based method for Vietnamese ID card skew correction". 2024.

Certificates

2023 **Modern Project Management in ICT**, Prof. Dr. Harald Wehnes

2023 **Samsung Software Internship Program**, Samsung R&D Center Vietnam (SRV)

Extracurricular Activity

AICS LAB (Artificial Intelligence Convolutional System Laboratory) *Hanoi, Vietnam*

Core Member *Aug. 2023 - Present*

- Gained knowledge about Marchine Learning, Deep Learning, Computer Vision, AI for smartphone, AI for FPGA
- Participated on several AI related projects namely ID card skew correction, Document-Table skew correction, Optical Character Recognition
- Proposed a method for skew estimation and correction specifically for Vietnamese ID cards.

Hanoi University of Science and Technology

Hanoi, Vietnam

Teaching Assistant (Digital Design using VHDL) *Oct. 2023 - Jan. 2024*

- Gained in-depth knowledge about Hardware Description Language (HDL), Field Programmable Gate Array (FPGA)
- Improve English communications skills

Projects

Home Security Alarm

Electrical and Electronic Engineering Introduction *Apr. 2020 - Jun. 2020*

- Introduced to arduino
- Learn how managing a project, working as a team and making a presentation.

Student Management System

C/C++ Programming Language *Apr. 2021 - May. 2021*

- Build a simple Student Management System
- Learn about C and C++ programming : pointers, class, variable types, ...

Bank Management System

Data Structures and Algorithms *May. 2022 - Jun. 2022*

- Build a simple Terminal-based Bank Management System
- Learn about Data Structures and Algorithms

RISC-SPM

Digital Design using VHDL *Jan. 2023 - Mar. 2023*

- Design a RISC Stored-Program Machine Using Verilog HDL.
- Gained knowledge about CPU, hardware description language

Audio Spectrum Visualizer

Micro Processor *Jan. 2023 - Mar. 2023*

- Design a Audio Spectrum Visualizer on a STM32 cortex m3 chip
- Gained knowledge about embeded programming, CPU.

ID card detection using deep learning for eKYC products

Design Project 2 *Jan. 2023 - Mar. 2023*

- Design a Audio Spectrum Visualizer on a STM32 cortex m3 chip
- Gained knowledge about embeded programming, CPU.