

# Ngo Van Canh

SAMSUNG R&D VIETNAM · SOFTWARE ENGINEER

Duc Noi, Viet Hung, Dong Anh, Ha Noi, Viet Nam

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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 over years of programming experience in both software and hardware development projects.
- Proficient in C, C++, Python and Lua, 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)

B.S. IN ELECTRONICS AND TELECOMMUNICATION ENGINEERING (UNDERGRADUATE)

School of Electrical and Electronic Engineering

Hanoi, Vietnam

Mar. 2019 - Aug. 2024

## Skills

<b>Programming Languages</b>	C, C++, Python, Lua
<b>Hardware Description Languages</b>	Verilog
<b>Development Tools</b>	Docker, Git, CMake
<b>Document Typesetting</b>	Latex
<b>Back-end framework</b>	Flask
<b>Front-end framework</b>	Gradio
<b>Deep learning frameworks</b>	Pytorch, NCNN
<b>Languages</b>	English, Vietnamese

## Experience

### Samsung R&D Center Vietnam

C/C++ DEVELOPER INTERN

Hanoi, Vietnam

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 Machine 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

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### 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 embedded programming, CPU.

### ID card detection using deep learning for eKYC products

DESIGN PROJECT 2

Jan. 2023 - Mar. 2023

- Learned about Android development.
- Gained knowledge about Image Processing.

### Grammar Error Correction using deep learning web app

GRADUATION PROJECT

Jan. 2024 - today

- Learning about Natural Language Processing.
- Gained knowledge about web development