



DUC MANH NGUYEN PH.D.  
Yongin-si/Korea | +82-10-6617-1811  
nguyenmanhduc18@gmail.com  
[github](#) | [linkedin](#)

## SUMMARY

- I was born in Hai-Duong City, Viet-Nam in November, 1989.
- Solid programming and simulation experience in MATLAB/Octave, C/C++.
- Solid RTL coding experience in Verilog HDL, solid digital system design experience in ASIC/ FPGA.
- Solid understanding about the digital signal processing algorithms such as digital filters, symbol detection, FIR/IIR, FFT, error correction codes, noise cancellation, FSK, PSK, time/frequency signal analyses.
- Strong background in mathematical such as: Coding theory, Abstract algebra, Linear system, transformation.
- Current interests: SoC, digital system design, Active pen protocol, Touchscreen system, FPGA for DL/AI/ML.

## EDUCATION

### UNIVERSITY OF ULSAN-UOU

02/2015-02/2020 / Korea

PH.D. IN ELECTRICAL ENGINEERING

- Researcher assistant at Coding and Information theory lab.

### HANOI UNIVERSITY OF SCIENCE AND TECHNOLOGY-HUST

09/2007-06/2012 / Vietnam

B.S IN ELECTRONICS AND TELECOMMUNICATION

## EXPERIENCE

### G2TOUCH

03/2020-now / Korea

RESEARCHER AND ENGINEER

- Digital system design for SoC of touchscreen controller IC.

### ADVANCED NETWORK SYSTEM VIETNAM

6/2014-2/2015 / Vietnam

NETWORK SYSTEM ENGINEER

- maintain and deploy Charging services for VMS-Mobifone.

### SAMSUNG ELECTRONIC VIETNAM

9/2012-5/2014 / Vietnam

MOBILE SOFTWARE DEVELOPER

- Customer adaptive modification of android smart-phone models.

### PANASONIC R-D CENTER

1/2012-3/2012 / Vietnam

INTERNSHIP STUDENT

- 3D-Graphic Software developer.

## SKILLS

<b>PROGRAMMING</b>	<b>Experienced:</b> Verilog HDL   MATLAB <b>Familiar:</b> C   Cpp   Shell   Python   Java
<b>IC DEVELOPMENT</b>	RTL coding   RTL verification   VLSI front end   IP cores   Digital system design   DSP
<b>MCU/BOARD</b>	Altera DE0-CV   DE10-Nano   Arm Cortex-M processor   Arduino   STM
<b>FRAMEWORKS/LIBRARIES</b>	Orge 3D   Open GL   Open CV   Android SDK   Anaconda   Jupyter   Matplotlib   Numpy
<b>LANGUAGES</b>	<b>Native:</b> Vietnamese <b>Fluent:</b> English <b>Intermediate:</b> Korean

## EXTRA

- My life is around transformation: Hadamard, Hilbert in university and digital filters, Fourier in company.
- I like bolero, folk songs, and crazy about football. I dream a lot and work hard to make it come true.