

Hoang T. Nguyen

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Education

- **Tokyo Institute of Technology** Tokyo, Japan
M.Sc. in Computer Science 2015-2017
 - Academic rating: 3.0 / 3.0 (Japanese system for government scholars)
 - Computer Science Department GPA: 4.0 / 4.0
 - Mathematics and Computing Department GPA: 4.5 / 4.0
- **Hanoi University of Science and Technology** Hanoi, Vietnam
B.S.Eng in Electronics Engineering and Telecommunications Class of 2014 - K54
 - Magna Cum Laude.
 - Major GPA: 3.4 / 4.0
 - Cumulative GPA: 3.21 / 4.0
- **HNUE High School for Gifted Students** Hanoi, Vietnam
Physics Class Class of 2009 - K40
 - Selected for National Physics Olympiad training.

Experience

- **ESRC Laboratory, SET** Hanoi, Vietnam
Undergraduate Researcher March 2012 - August 2014
 - Worked in the Embedded System and Reconfigurable Computing Laboratory (Room 618, Ta Quang Buu Library) in School of Electronics and Telecommunications, with PhD candidate Nguyen Van Cuong and Associate Prof. Pham Ngoc Nam.
 - Design and implemented a traffic rating software using OpenCV platform. My software was able to rate current traffic video input and give out results as A to F levels of conjunction.
 - Received training in VLSI design based on Xilinx and Quartus FPGA platform.
 - Worked and practiced theory of Network on Chip. Designed a fully functional 2x3 Mesh network with Network Interface and Reconfiguration. My group's design is an optimized version of seniors in ESRC Lab's previous work. By applying pipeline technique, we are able to increase throughput of the Network Interface by 40% compare to our seniors' version. Further more, the network itself can handle much more data due to new structure of our Mesh-Router.
- **Computer Science & Machine Learnings** Hanoi, Vietnam
Self Learning From Online Courses 2013 - Present
 - Studied computer science courses from Coursera.org e.g. Stanford Algorithms Courses, Stanford Cryptography Courses, Stanford Machine Learning Courses, Stanford Natural Language Processing Course...
 - Practiced computer programming by doing assignments and projects provided by MIT OCW and Stanford Online Courses.
 - Learned to program in Objective-C and developing iOS applications from Stanford iTunes Course.

Technical Skills

- **Hardware Description Languages:** Verilog HDL, VHDL.
- **Programming Languages:** C/C++, MATLAB, Objective-C, familiar with Java, Python.
- **Operating Systems:** Unix/Linux based OS's.

Other Skills

- **Documents:** L^AT_EX, Microsoft Office (2007,2010,2013), Adobe InDesign / Photoshop / Illustrator
- **Languages:** English (TOEFL iBT: 103 - Test date: Feb 22nd, 2014), Japanese (Beginner)
- **Operating Systems:** Unix/Linux based OS's

Leadership and Service

- **2009-2010** Freshman year class president. (Class BK05-K54)
- **2009-2010** Member of the Standing Committee of Ho Chi Minh Communist Youth Union of K54, HUST.
- **2012-2014** Senior member and manager of K54 in ESRC Laboratory.

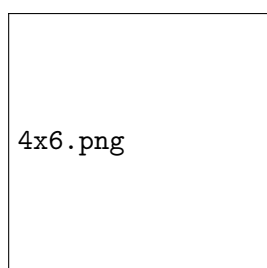
Interests and Hobbies

- **Sports:** Kendo, running, swimming
- **Creative Activities:** LEGO building, making iOS games

About me

I was born and raised in Hanoi, capital of Vietnam. I did not show many potential as an elementary student, but thanks to my parent's consistency in educating me I was accepted in the Hanoi National University of Education's High School for Gifted Student. Later, I decided to choose Hanoi University of Science and Technology as a place to pursue higher education because I want to be an engineer. My ideology and personality was developed mostly during my university life. In my freshman year, I read "An Encouragement of Learning" written by Fukuzawa Yukichi. The book and Fukuzawa Yukichi's idea influence me deeply.

I believe everyone, whoever has the desire, has the right to learn and the most powerful tool in life is the self-learning ability. Thanks to Coursera and MIT Open Course Ware, I had the opportunity to learn new knowledge that my university can not provide. I found myself with great interest in the Artificial Intelligence and Data Mining field and started to learn online courses in my leisured time. My dream is to be able to create an artificial brain that can learn and reason about real life situations. Besides learning, I am a quiet person with passion for Kendo. I enjoy practicing and thinking about Kendo almost all day because I find good qualities I wanted for myself when I do Kendo. Recently, my Kendo team was the runner-up in the 1st Morikawa Kendo Tournament in Hanoi. I also enjoy cycling and I hope one day I can cycle cross Vietnam and then cross Japan. My favorite quote is from a Disney animation film and from Walt Disney himself: "Keep moving forward".



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