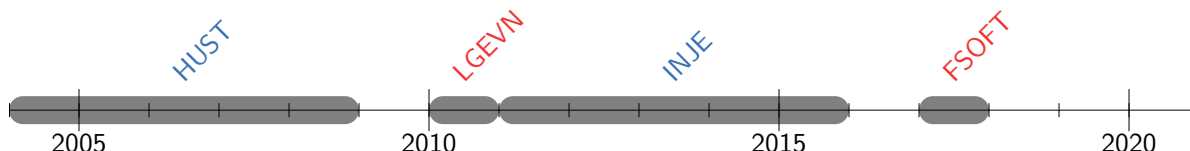# Hoang-Linh TO | CV

3Q8, Nguyen An Ninh – Hoang Mai, Ha Noi – Viet Nam

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"TEAM–Together Everyone Achieves More"

Education

Dept of Information and Communication System   **Inje University**
Doctor of Engineering, Grade–4.46/4.5   *2013–2016*
Major: **Network**

Dept of Information and Communication System   **Inje University**
Master of Engineering, Grade–4.25/4.5   *2011–2013*
Major: **Network**

Dept of Industrial Automation   **Hanoi University of Science and Technology**
Bachelor of Engineering, Grade–7.97/10   *2004–2009*
Major: **Control and Automation**

Experience

Full-time

FPT Global Automotive [S16]   **FPT Software**
Middleware Developer   *3/2017–present*
Automotive communication stack: TCP/IP, NFC, etc.
Detailed achievements:
○ Developed TCP/IP stack using lwIP (lightweight IP) [EAR, 4–9/2017].
○ Tested SNEP protocol in NFC (Near-Field Communication) stack [RTM, 5–7/2017].

Dept of Research and Development [Home Entertainment]   **LG Electronics Vietnam**
Circuit Engineer   *2010–2011*
In charge of new products line up including CRT TV, Plasma TV and LCD/LED Monitor.
Detailed tasks:
○ Developed new electronic local parts and reduced total product price;
○ Co-worked with outsource partners in PCB Jig equipment's installation;
○ Supported production line for problems related to software and defect circuit parts;
○ Supported customers for better user-experience in using LG products.

Internship

Electrical Workshop   **Hoang Mai Vicem Factory**
Automation Engineer   *1–2/2009*

Study about cement production line operation.

Training Courses

Corporate Training Center   **FPT Software**
Fresher Embedded Developer   *1–3/2017*
Basic C and Embedded Programming for ARM Cortex M.

Language Link   **Petronas**
Business English   *8–10/2008*
Business English: Intermediate Level.

Publications

Theses

[1] H.-L. To, "Control frameworks for queue management in bufferbloated networks," Ph.D. dissertation, Inje University, South Korea, 2016. [Online]. Available: http://www.dcollection.net/handler/inje/000000011422

[2] ——, "Burst traffic management schemes for quality of service in optical burst switching network," Master's thesis, Inje University, South Korea, 2013. [Online]. Available: http://www.dcollection.net/handler/inje/000000008236

[3] ——, "Design a 400-hz 3-phase sinusoidal ac power unit," Bachelor's thesis, Hanoi University of Science and Technology, Viet Nam, 2009.

SCIE Journal Articles

[1] K.-H. Kim, H.-L. To, W.-J. Hwang, and J.-T. Lee, "Infinite queue management via cascade control for industrial routers in smart grid ip networks," *Scientific Programming*, vol. 2016, no. SP towards a Smart World, pp. 1–10, 2016.

[2] A. Radwan, H.-L. To, and W.-J. Hwang, "Optimal control for bufferbloat queue management using indirect method with parametric optimization," *Scientific Programming*, vol. 2016, no. Optimization Models and Algorithms, pp. 1–10, 2016.

[3] Q.-V. Pham, H.-L. To, and W.-J. Hwang, "A multi-timescale cross-layer approach for wireless ad hoc networks," *Computer Networks*, vol. 91, pp. 471–482, 2015.

[4] H.-L. To, T. M. Thi, and W.-J. Hwang, "Cascade probability control to mitigate bufferbloat under multiple real-world tcp stacks," *Mathematical Problems in Engineering*, vol. 2015, no. Control Problem of Nonlinear Systems, pp. 1–13, 2015.

[5] H.-L. To, S.-H. Lee, and W.-J. Hwang, "A burst loss probability model with impatient customer feature for optical burst switching networks," *International Journal of Communication Systems*, vol. 28, no. 11, pp. 1729–1740, 2015.

Awards/Scholarships

2017: "Best Team Performance" award, NFC Team – FPT Global Automotive, FPT Software.

2017: "Fast and Furious" award – FPT Global Automotive, FPT Software.

2014: "Best Student Paper" award – 3rd Japan-Korea Joint Workshop on Complex Communication Sciences (JKCCS'14), Busan, Korea.

2011: "Global IT Talent" scholarship for a Master course – Inje University, Korea.

Languages

English: TOEIC: **870**   *Will be expired on: 20-12-2017*
Korean: Basic   *Daily conversational*

Professional Skills

Languages: C, Python, Java.
Tools: Git, Vim.
MCU Families: ARM Cortex-M, dsPIC.
Typesetting: LaTeX, Office.

Communication Skills

2011–2015: Gave several oral presentations at Korea Multimedia Society (KMMS) conferences.

Interests

o Playing chess
o Travelling

o Challenging IQ Games
o Singing Karaoke

References

Dat BUI
ⓘ **Team Leader**
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