

# Phan, Duy Thang

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## RESEARCH INTERESTS

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I am interested in Internet of Things, Embedded Systems, Sensors, Wireless Sensor Networks. My current focuses include:

- Internet of Things applications
- Sensors integration

## EDUCATION

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### **Soongsil University**

MSc. Information and Communication

Seoul, KR

2014–2016

- Thesis: “Distributed Scheduling for Bandwidth Guarantee in 6TiSCH Networks”

### **Ha Noi University of Science and Technology (HUST)**

BSc. Electronics and Telecommunications

Hanoi, VN

2008–2013

- Thesis: “Research and Design An Energy Monitoring System”

## EXPERIENCE

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### **Beuth University of Applied Sciences Berlin**

Research Assistant at FVII (Elektrotechnik - Mechatronik - Optometrie)

Berlin, GER

2019–2021

- Development of IoT device firmware
- Assembly of test setup and measurements for system evaluation
- Evaluation of radio architecture for wireless communication of sensor devices
- Project management in cooperation with interdisciplinary research teams
- Minor
  - \* Design and deployment of IoT platform for healthcare system
  - \* Design of circuitry for smart sensor devices
  - \* Development of mobile application for data virtualization, and algorithms for data processing

### **Dresden University of Technology**

Research Assistant at Software Technology Group

Dresden, GER

2018–2019

- Development of IoT device firmware
- Assembly of test setup and measurements for system evaluation
- Minor
  - \* Design and development of IoT platform for smart sensor devices
  - \* Development of web application for data virtualization

<b>HUMAX Co., Ltd.</b> Software Engineer	Seoul, KR 2016–2018
– Deployment of test system for DOCSIS gateway	
<b>Soongsil University</b> Research Assistant at Distributed Data Communication Lab (DCN)	Seoul, KR 2014–2016
– Design and development of low-power MAC scheduling algorithms for IEEE 802.15.4e/6TiSCH networks	
– Assembly of test setup and measurements for system evaluation	
<b>Samsung Electronics Vietnam</b> Software Engineer at Samsung Vietnam Mobile Center (SVMC)	Hanoi, VN 2013–2014
– Development of audio framework for Android OS on Samsung mobile devices	
<b>VTC Co., Ltd.</b> Student Intern at VTC Intecom	Hanoi, VN 2012–2013
– Development of chat application based on MFC framework	
<b>Vietnam Research Institute of Electronics, Informatics and Automation</b> Student Intern at Green Technology Center (GTC)	Hanoi, VN 2012–2013
– Design and development of energy monitoring system	
– Design of circuitry for smart sensor devices	
– Development of IoT device firmware	
– Assembly of test setup and measurements for system evaluation	
– Minor	
* Development of digital signage system based on Xibo	
<b>Ha Noi University of Science and Technology</b> Student Research Assistant at Research and Development Lab of Multimedia Technology (RDLAB)	Hanoi, VN 2011–2012
– Assembly of test setup and measurements for zigbee wireless sensor networks evaluation	

## SKILLS

- **Programming:** C/C++, Java, HTML/CSS, JavaScript
- **Embedded System:** STM32, ESP32/ESP8266, Arduino, Raspberry Pi, etc
- **Circuit Design:** Altium, KiCad
- **Knowledge:** Electronics, Networking, IoT (MQTT, LoRa, BLE, 6TiSCH, etc)
- **Framework:** Flutter, React-native, Vue
- **Operating System:** Windows, Linux (Ubuntu)
- **Cloud Service:** AWS, Firebase
- **Open Source:** OpenStack, Mosquitto, Grafana, etc
- **Tools/Techs:** Docker, Git/Github, Trello

## LANGUAGES

- **English:** Proficient

## PROJECTS

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See full list of projects on [linkedin.com/in/pdt590](https://www.linkedin.com/in/pdt590)

- **MUDE** (2019–2021)
  - Multi-radio device to support high-density wireless networking
- **IoSense** (2018–2019)
  - The Electronic Component Systems for European Leadership Joint Undertaking
- **South Initiatives** (2011–2012)
  - Exploring future university development cooperation in rural North Vietnam supported by existing partnerships: a harvest and seed approach
- **PrintED** (2019–2021)
  - Development of printed moisture sensors that are integrated into incontinence products for adults
- **No.IITP-2016-H8501-16-1008** (2014–2016)
  - Information & Communications Technology Promotion

## SCHOLARSHIPS AND AWARDS

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- The best oral presentation at the annual conference of Vietnamese Young Scientists (ACVYS) 2017
- Master program scholarship 2014–2016
- Prize for student scientific research 2013

## PUBLICATIONS

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- [1] **P. Thang**, “Towards wireless industrial control over 6tisch networks”, in *Proceedings of the Seventh International Conference on Telecommunications and Remote Sensing (ICTRS)*, Oct. 2018.
- [2] **P. Thang**, “Plugplayco: An iot platform based on dashboard and data logging services for vietnam iot community”, in *Annual conference of Vietnamese Young Scientists (ACVYS)*, Jun. 2017.
- [3] **P. Thang**, T. Dinh, and Y. Kim, “Distributed timeslot and channel selection for scheduling function in 6tisch networks”, *International Journal on Computer Standards & Interfaces*, Mar. 2017.
- [4] T. Dinh, **P. Thang**, and Y. Kim, “An efficient interactive model for on-demand sensing services of sensor-cloud”, in *ICC*, Jun. 2016.
- [5] **P. Thang**, T. Dinh, and Y. Kim, “A rapid joining scheme in highly dynamic tsch networks”, *International Journal of Distributed Sensor Networks*, Jun. 2016.
- [6] **P. Thang** and Y. Kim, “An efficient joining scheme in iee 802.15.4e”, in *International Conference on Information and Communication Technology Convergence (ICTC)*, Oct. 2015.
- [7] **P. Thang**, Y. Kim, and H. Yang, “A sensing system based on alljoyn framework for smart home”, in *General Conference on Computer*, Jun. 2015.

## REFERENCES

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- **Prof. Dr. Ing. Dr. rer. oec. Michael Niedermayer**  
*Fachbereich VII (Elektrotechnik - Mechatronik - Optometrie)*  
*Beuth University of Applied Sciences Berlin,*  
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*Luxemburger Str. 10, 13353 Berlin, Germany*  
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- **Prof. Younghan Kim**  
*Department of Information and Telecommunication*  
*Soongsil University, Dongjak-gu, Seoul, 156-743, Korea*  
*Email: younghak@ssu.ac.kr*  
*Website: <http://dcnlab.ssu.ac.kr>*
- **Prof. Nguyen Chan Hung**  
*Director of Green Technology Center (GTC)*  
*Vietnam Research Institute of Electronics Informatics and Automation (VIELINA)*  
*156A Quan Thanh, Hanoi, Vietnam*  
*Email: hungnc@gmx.net*  
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