

Phan, Duy Thang

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RESEARCH INTERESTS

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

- Internet of Things applications
- Sensors integration

EDUCATION

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

Beuth University of Applied Sciences Berlin

Research Assistant at FVII (Elektrotechnik - Mechatronik - Optometrie)

Berlin, GER

2019–2021

- 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
- 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

Dresden University of Technology

Research Assistant at Software Technology Group

Dresden, GER

2018–2019

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

HUMAX Co., Ltd.

Software Engineer

Seoul, KR

2016–2018

- Deployment of test system for DOCSIS gateway

Soongsil University

Seoul, KR

Research Assistant at Distributed Data Communication Lab (DCN)

2014–2016

- Installation of OpenStack cloud system
- 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

Samsung Electronics Vietnam

Hanoi, VN

Software Engineer at Samsung Vietnam Mobile Center (SVMC)

2013–2014

- Development of audio framework for Android OS on Samsung mobile devices

VTC Co., Ltd.

Hanoi, VN

Student Intern at VTC Intecom

2012–2013

- Development of chat application based on MFC framework

Vietnam Research Institute of Electronics, Informatics and Automation

Hanoi, VN

Student Intern at Green Technology Center (GTC)

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
- Development of digital signage system based on Xibo

Ha Noi University of Science and Technology

Hanoi, VN

Student Research Assistant at Research and Development Lab of Multimedia Technology (RDLAB)

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

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

- 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

- [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

- **Prof. Dr. Ing. Dr. rer. oec. Michael Niedermayer**
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