

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 – Thesis: “Distributed Scheduling for Bandwidth Guarantee in 6TiSCH Networks”	Seoul, KR 2014–2016
Ha Noi University of Science and Technology (HUST) BSc. Electronics and Telecommunications – Thesis: “Research and Design An Energy Monitoring System”	Hanoi, VN 2008–2013

EXPERIENCE

Beuth University of Applied Sciences Berlin Research Assistant at FVII (Elektrotechnik - Mechatronik - Optometrie) – Design and deployment of IoT platform for healthcare system – Design of circuitry for smart sensor devices – 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	Berlin, GER 2019–2021
Dresden University of Technology Research Assistant at Software Technology Group – Design and development of IoT platform for smart sensor devices – Development of IoT device firmware – Assembly of test setup and measurements for system evaluation	Dresden, GER 2018–2019
HUMAX Co., Ltd. Software Engineer – Deployment of test system for DOCSIS gateway	Seoul, KR 2016–2018

Soongsil University Research Assistant at Distributed Data Communication Lab (DCN) <ul style="list-style-type: none"> – 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 	Seoul, KR 2014–2016
Samsung Electronics Vietnam Software Engineer at Samsung Vietnam Mobile Center (SVMC) <ul style="list-style-type: none"> – Development of audio framework for Android OS on Samsung mobile devices 	Hanoi, VN 2013–2014
VTC Co., Ltd. Student Intern at VTC Intecom <ul style="list-style-type: none"> – Development of chat application based on MFC framework 	Hanoi, VN 2012–2013
Vietnam Research Institute of Electronics, Informatics and Automation Student Intern at Green Technology Center (GTC) <ul style="list-style-type: none"> – 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 	Hanoi, VN 2012–2013
Ha Noi University of Science and Technology Student Research Assistant at Research and Development Lab of Multimedia Technology (RDLAB) <ul style="list-style-type: none"> – Assembly of test setup and measurements for zigbee wireless sensor networks evaluation 	Hanoi, VN 2011–2012

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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