Phan, Duy Thang

Birth: September 05, 1990
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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 — Seoul, KR
MSc. Information and Communication — 2014–2016
- Thesis: "Distributed Scheduling for Bandwidth Guarantee in 6TiSCH Networks"

Ha Noi University of Science and Technology (HUST) — Hanoi, VN
BSc. Electronics and Telecommunications — 2008–2013
- Thesis: "Research and Design An Energy Monitoring System"

Experience

Beuth University of Applied Sciences Berlin — Berlin, GER
Research Assistant at FVII (Elektrotechnik - Mechatronik - Optometrie) — 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 — Dresden, GER
Research Assistant at Software Technology Group — 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

HUMAX Co., Ltd. Seoul, KR
Software Engineer 2016–2018

- Deployment of test system for DOCSIS gateway

Soongsil University Seoul, KR
Research Assistant at Distributed Data Communication Lab (DCN) 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

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
- Minor
  - 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

- **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 Initatives** (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

References

- **Prof. Dr. Ing. Dr. rer. oec. Michael Niedermayer**
  Fachbereich VII (Elektrotechnik - Mechatronik - Optometrie)
  Beuth University of Applied Sciences Berlin,
  Haus Gauss, Room B322,
  Luxemburger Str. 10, 13353 Berlin, Germany
  Email: michael.niedermayer@beuth-hochschule.de
- **Prof. Younghan Kim**
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  Soongsil University, Dongjak-gu, Seoul, 156-743, Korea
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  Website: http://dcnlab.ssu.ac.kr
- **Prof. Nguyen Chan Hung**
  Director of Green Technology Center (GTC)
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  Website: http://www.vielina.com