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PROFESSIONAL EXPERIENCE

July 2016 – present: AgriConnect Digital AgriCulture JSC, HCMC, Vietnam, <http://agricconnect.vn>.

E.E– hardware design and embedded systems programming.

January 2011 – June 2016: Institute for Nanotechnology, Vietnam National University – HCMC, Vietnam, <http://hcmint.edu.vn>.

Researcher, worked as E.E – hardware design and embedded systems programming.

Job responsibility:

- Background in analog-digital electronics, power electronics, embedded systems, wireless sensor networks.
- Strong working knowledge in creating schematic capture and designing printed circuit board using trace layout tools.
- Experience on embedded programming for different micro-controllers of STMicroelectronics, Atmel, TI, Espressif.
- Experience of RFID, MQTT and embedded protocols like SPI, I2C, UART etc.
- Experience on designing WiFi, Zigbee, Lora, GSM/GPRS, GPS based systems.
- Understanding of high-speed board design, EMC, memory architecture.
- Designing the user interface and database of application software.
- Providing technical supports for software developer and customer.

SKILLS AND INTERESTS

Technical skills:

- PCB design tools: KiCAD, OrCAD/Allegro, Altium.
- Embedded C/C++.
- Experience with C#, SQL server,
- Familiarity with Linux OS.
- Working knowledge of Microsoft Office, Edraw Max.

Others:

- Extremely well organized.
- Strong interpersonal and teamwork skills.
- Willingness to work hard, learn new technologies and management skills.

Languages: English - TOEIC score: 515, CEFR: B1.

EDUCATION

University of Engineering and Technology, Vietnam National University – Hanoi (VNU-HN)

Hanoi, Vietnam

December 2014

M.Sc in Nano-Materials and Nano-Devices, Faculty of Physics and Nanotechnology. Thesis: A

GPA: 3.07 / 4

University of Science, Vietnam National University - HoChiMinh city (VNU-HCM)

HoChiMinh city, Vietnam

October 2010

B.Sc in Physic, Faculty of Physics and Engineering Physics. Major: Physics and Electronics. Thesis: 8.5 / 10

GPA: 7.42 / 10

Honors and Scholarships:

- Honors for outstanding achievements of volunteered activities, VNU-HCMC, 2010.
- *Tiếp sức đến trường* scholarship of Tuổi Trẻ Newspaper, HCMC, Vietnam, 2009.

Relevant courses:

- Computer Network Administration, University of Science, VNU- HCMC, Vietnam.
- Certificate of University Teaching Under Credit System, CEE, University of Science, VNU-HCMC.
- Certificate of High School Teaching Methods, University of Education, HCMC, Vietnam.
- Certificate of participation to School of MINATEC 2010 to 2015, Laboratory for Nanotechnology, VNU-HCM (Vietnam) and CEA - LETI - MINATEC – Grenoble INP (France).

RESEARCH EXPERIENCE

Research projects:

1. Study on fabrication of indentify tags using radio antenna by RFID technology 2010 – 2012
Managing agency: Vietnam Ministry of Science and Technology.
2. Study on fabrication of UHF tags using inkjet printing for sensing applications 2012 – 2014
Managing agency: Vietnam Ministry of Science and Technology.
3. Development of wireless sensing platform for fruit farms 2015 – 2016
Managing agency: Vietnam National University – HCMC.
4. Development of IoT platform for mushroom growing room 2016 – present

Publications: Authored & Co-authored

1. *Wireless Sensing Modules for Rural Monitoring and Precision Agriculture applications*, Journal of Information and Telecommunication (TJIT), Taylor & Francis, UK, Oct 2017.
2. *Modeling of Antenna geometry and Thickness Optimization for Wideband UHF RFID tag*, International Conference on Advanced Technology for Communications (IEEE-ATC), Vietnam, July 2015.
3. *A wireless sensor for food quality detection by UHF RFID passive tags*, International Conference on Advanced Technology for Communications (IEEE-ATC), Vietnam, July 2015.

4. *Một phương pháp đo đặc tính chất điện môi cho chất lỏng tổn hao cao ở tần số vi ba*, Conference on Electronics, Communications and Information Technology (REV-ECIT), Vietnam, 2015.

LEADERSHIP EXPERIENCE

Mentor, working with students during their internship:

1. **Maxime REMY**, ISEN école d'ingénieur (France), Project title: *Security of communication using RSA encryption*. Training period: 6 months. 2012

2. **Florent SEGOUIN**, IUT Cachan of Paris-Sud University (France), Project title: *Programming the middleware to communicate between RFID Volaré reader and host-computer*. Training period: 3 months.

3. **Thierry ZHANG**, IUT Cachan of Paris-Sud University (France), Project title: *Development of GSM / GPRS functions for barrier gate system*. Training period: 3 months.

4. **Raphael BRAHAMI** and **Louis PECHINOT**, IUT Cachan of Paris-Sud University (France), Project title: *Programming the middleware to communicate between RFID professional reader and host-computer*. Training period: 3 months. 2013

5. **Lê Quang Tấn**, Master student at University of Technology, VNU-HCM (Vietnam). 2015-2016
Thesis title: *Development of wireless sensing platform for fruit farms*. Training period: 7 months.

REFEREES

Dr. NGUYEN Dat Son

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J.S.C.

RFID Team-leader, Institute for
Nanotechnology, VNU-HCM.

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