

RESUME

TRAN Nguyen-Vy-Quynh (PhD)



Personal information

- ✓ Nationality: Vietnamese
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Education & Qualification

June 2011

PhD of Physics

-Field: Nanophotonics, Semiconductors, Numerical Simulation

-University of Paris 6, Paris, **France**

2004-2005

Master of Physics - Telecommunications

-Major: Devices, Circuits and Antennas for Telecommunications

-University of Paris 11, and

-Ecole Normale Supérieure de Cachan, Paris, **France**

2000-2004

Bachelor of Science – Physics

- Ho Chi Minh City University of Pedagogy, **Vietnam**

Working Experience

Oct 2011 – Jan 2014

Senior Application Engineer

-TechSource Systems Pte. Ltd. **Singapore** (the sole distributor of MATLAB and Simulink in Southeast Asia)

Experience:

- **Sales activity:** providing presales and post-sales support to customer using MATLAB & Simulink (software) and real-time target machine (hardware)

- **Technical activity:**
 - conducting seminar, workshop, training for students and engineers in university and company (Nanyang Technological University, National University of Singapore, DSO in Singapore, LEAR Automotive in Cebu – Philippines...)
 - writing applications (programs) in various fields: Control System, Physical Modeling, Data and Image Acquisition, Signal Processing, Real-Time Testing, Neural Network, Parallel Computing...
- **Project management:** handling consultancy project (including software and hardware) for customer

Feb 2009 – Oct 2011

Research Associate/Research Fellow

-Electrical & Electronic Engineering School, Nanyang Technological University, **Singapore**

and Dec 2005 – Dec 2008

PhD student, working as Research Engineer

-Thales Research and Technology, **France**

Experience:

- Developing simulation programs for nano-structures in Physics. These programs were written in Fortran and MATLAB, including features such as parallel computing and optimization techniques to reduce calculation time and improve result accuracy
- Designing, fabricating and characterizing semiconductor nano-devices

Achievements

- ✓ Nanophotonics: 14 scientific papers in peer-review journals (all top rated internationally) in photonics field; 2 US patents; contribution in many international conferences; parallel simulation programs for Physics
- ✓ MATLAB: developing controller program to control mechatronic systems; writing program in various engineering fields to demonstrate the features of MATLAB, Simulink
- ✓ Programming: web-based calendar, website for online business, online learning (using HTML, PHP, MySQL, Javascript, JQuery...), license log analyzer (using C++), computer games (C, C++, Java), programs for Android smart-phone
- ✓ Others: Conducting seminar, training, workshop for students (NTU, NUS Singapore), engineers and researchers (Singapore: DSO, ST Kinetics, A*STAR,; Philippines: LEAR Automotive...)

Skills

Spoken languages

- ✓ Vietnamese: mother tongue
- ✓ French: fluent
- ✓ English: fluent
- ✓ Chinese mandarin: basic conversation

Computer skills

- ✓ Operating systems: Windows, Linux
- ✓ Document processing: LaTeX, Microsoft Word
- ✓ Microsoft package: PowerPoint, Excel
- ✓ Technical software: MATLAB, LabVIEW, IGOR
- ✓ Strong programming skills in: MATLAB, Fortran, C/C++, Java
- ✓ Basic knowledge on Assembly
- ✓ Language for website design: HTML, CSS, PHP, MySQL, Javascript, JQuery...
- ✓ Programming for Android OS

Numerical analysis

- ✓ Three Dimensional Finite Difference in Time Domain (3D FDTD)
- ✓ Finite Element Method (FEM)
- ✓ Parallel computing technique (using OpenMP, MPI)
- ✓ Other numerical algorithms

Physics and Control System background

- ✓ Strong knowledge in Physics, especially in Optics and Photonics, Semiconductors, Electronic Devices, Radio Frequency, and Telecommunications
- ✓ Strong knowledge in controller design and real-time testing

Personal skills

- ✓ Motivated to work independently or as a team member
- ✓ Presentation, communication and interpersonal skills
- ✓ Time and project management skills
- ✓ Be able to lead a team and to motivate team members to achieve targeted result
- ✓ Fast learner, and keen to learn new skills, techniques especially in domains such as physics and computer programming