

CHINH N. H. LA

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CAREER OBJECTIVE

- To become an expert in electrical, electronics and computer engineering.
- Short term goals: system and algorithm developer in object-oriented programming, embedded systems, Digital Signal Processing, electronics and controls.
- Long term goals: project manager in the above fields.

PROFESSIONAL PROFILE

- One-year full-time and two-year part-time experience in multidisciplinary industry, participating in major projects.
- Three-year research experience at Coordinated Sciences Laboratory (CSL), a world-class research centre in Illinois, USA.
- Strong background in optimizations, Digital Signal Processing (DSP), electronics and controls.
- Strong programming skills in C, C++, Java and Matlab.
- Strong Assembly programming experiences on microprocessors, microcontrollers, and Programmable Logic Controllers (PLC).
- Strong leadership and teamwork skills.
- Excellent written and oral communication skills.
- Master in Microsoft Office and Latex.

EDUCATION

2004 – 2007: **THE UNIVERSITY OF ILLINOIS AT URBANA – CHAMPAIGN** **Illinois, USA**

Master of Science in Electrical and Computer Engineering, expected 2007

- Research focus: Digital Signal Processing, Optimization Programming.
- Major Courses: Data Structures and Software Principles, Signal Processing, Wavelets, Digital Imaging, Optimization, Nonlinear Programming, Control Systems, Random Processes, Communications, and Information Theory.

Research Assistant (Coordinated Sciences Laboratory) – The “PRACTICAL COMPRESS SENSING” Project

- Developing algorithms to reconstruct signals from limited number of measurements.

1999 – 2002: **MONASH UNIVERSITY** **Melbourne, Australia**

Bachelor of Engineering in Electrical and Computer Systems, 2003

First Class Honor

- Graduated as top student of class 2002.
- Major courses: Design, Engineering Management, Internet Architecture and Protocols, Telecommunications, Computer Architecture, Software Engineering and Real-time Systems, Signal Processing, Electronics, Modern Control Systems, Industrial Control and Automation.

Final year thesis project – “Dynamic Vision-based Tracking of Moving Target”

- Constructing a camera system to track a moving target in two degrees of freedom.

Third year programming project – “Airports Scheduling Simulation”

- Simulating the take-off and landing of airplanes on three airports.

Third year design project – “The OHELLO Robot Project”

- Leading a group of 4 students in the design and construction of an autonomous mobile robot.

WORK EXPERIENCE

2003 – 2004: **HO CHI MINH CITY TELEVISION (HTV)**
Electrical Engineer

Ho Chi Minh City, Vietnam

The “HTV Tower” Project

- Assisting in designing the electronic control systems of the HTV 16-storey building.
- Coordinating with different consultants: Siemens, Johnson Controls, Best Access Systems, Philips, Cisco to specify the requirements and constraints of the design.

2000 – 2001: **NUFARM LTD.**

Melbourne, Australia

Electrical Engineering Assistant

- Monitoring and calculating power consumption of the factory.
- Assisting on the installation and commissioning processes of electronic control and automation systems for new production sites.
- Programming on the Allen-Bradley and Bailey PLC systems.

HONORS AND AWARDS

- Vietnam Education Foundation Fellowship (2004 – 2006).
- Graham Beard Memorial Prize (2003).
- Australian Institution of Electrical Engineers Prize (2002).
- Golden Key International Honour Society’s Scholarship Award (2002).
- McGraw-Hill Australia Book Prize (2002).
- Jack Wilson Prize (2002).
- Australian Development Scholarship (1999 – 2002).
- Second best student in the entrance exams to the University of Technology, and the University of Economics, the two major universities in Ho Chi Minh City – Vietnam (1997).
- Top student of Le Hong Phong (Petrus Ky) High School, Vietnam (1997).

PUBLICATIONS

- C. La and M. N. Do, “Tree-based orthogonal matching pursuit algorithm for signal reconstruction”, *Proceeding of IEEE International Conference on Image Processing*, pp. 1277 – 1280, Atlanta, USA Oct. 2006.
- C. La and M. N. Do, “Signal reconstruction using sparse tree representations”, *Proceeding of SPIE Conference on Wavelet Applications in Signal and Image Processing XI*, Vol. 5914, pp. 273 - 283, San Diego, USA, Jul. 2005.

OTHER ACTIVITIES

- Steering committee member of the Vietnamese Graduates from Australia Club (VGAC).
- Invited guest speaker in the AusAID (Australian Agency for International Development) briefing to help Vietnamese students in preparing for their departure to Australia, 2003.
- Member of the Golden Key International Honour Society since mid 2002.
- Member of the Association of Professional Engineers, Scientists and Managers, Australia (APESMA), 2001 – 2003.
- Member of the Institution of Engineers Australia (IEAust), 2001 – 2003.

REFERENCES

- Will be provided upon request.