

# Linh K. Ha

University of Utah  
School of Computing  
50 S. Central Campus Drive, RM 3190  
Salt Lake City, UT  
lha@cs.utah.edu

phone: (801) 915-6872  
fax: (801) 581-5843

---

## Research Interests

- Scientific Visualization
- Geometry Processing
- High-Performance Computing Systems
- Robotics and Computer Vision

## Education

- Ph.D. Student, Computer Science Aug 2005 - Present  
University of Utah  
Advisor: Prof. Dr. Cláudio Silva  
Taken courses:  

Human/Com Interaction	Adv Com Graphics I	Adv Sci Computing I	Adv Com Graphics II
Image Processing	Geometry Processing	ESL	Scientific Visualization
Algorithms	Machine Learning	Computational Geometry	

  
Current GPA: 4.0
- M.E, Electronics and Telecommunications Sep 2002- May 2005  
Vietnam National University, Hanoi, Vietnam  
GPA 9.1/10.0, Grade **Outstanding**
- B.E, Electronics and Telecommunications Sep 1997- May 2002  
University of Technology, Hanoi, Vietnam  
GPA 8.72/10.0, Grade **Excellent**

## Publications

- [1] *From mobile robots to industrial automation*, Ha L. Vu, Hung D. Pham, Linh K. Ha, Vinh Q. Tran, International Conference on Mechatronics Technology, ICMT 2004
- [2] *Computer Vision Impelementation in Robot Control*, Linh K. Ha, Ha L. Vu, Vinh Q. Tran, Vietnam Conference on Some Specific Issue of Information Technology, Aug 2004
- [3] *Implementation of ACELP in full rate speech channel at 7.2 kbps*, Linh K Ha, Trung Q. Nguyen, Vietnam Conference on Radio and Electronics, Nov 2002

## Submitted Manuscripts

- [4] *Robust Smooth Edge Extraction from Point Clouds*, Daniels II, Linh Ha, Tilo Ochotta, C. Silva, Submitted to Shape Modeling International 2007
- [5] *Interactive Transfer Function Specification for Direct Volume Rendering of Disparate Volumes*, F. Bernardon, L. Ha, S. Callahan, J. L. D. Comba, C. Silva, Submitted to Eurographics/IEEE VGTC Symposium on Visualization 2007

## Professional Experience

- *Research assistant in Visualization and Geometric Computing (VGC) group, SCI Institute, University of Utah*. Research topic: point based processing, GPU sorting & volume rendering. Supervisor Prof. C. Silva, Feb 2006 - now.
- *Research and teaching assistant at Robotic&Automation Lab, College of Technology, Hanoi* . Research topics: vision-guided robot navigation for Mobile Robot, develop robot control system on microcontroller. Instructor of the college robot team in Vietnam Robot Contest, the first instructor lead team to national final round, May 2005. Supervisor Dr. Vinh Q. Tran, Sep 2002 - Jul 2005.
- *Research assistant at DSP group, N-WAVE R&D Telecommunication Device Company, Hanoi* . Research topics: software coding in DSP TMS 6200 for slow bit rate channel vocoder, system programming, develop interface and communication protocol for Mobile and Haset, working on project “ Analog to Digital Mobile System “. Supervisor Prof. Trung Q. Nguyen, Sep 2001 - Sep 2002.

## Skills

- Programming: C, C++, Pascal, Delphi, OpenGL, GPU programming: CG, GLSL, Assembly (x86)
- Systems: Windows, Linux, Embedded, System on Chip
- Digital Signal Processing, Telecommunication, Realtime System, Computer Hardware, software & hardware design for small control system, Computer Vision, Robotics and Computer Graphic.
- Application: ParaView, VTK, QT4, AutoCAD, Protel, MathLab, Labview.

## Fellowship and Awards

- Vietnam Education Foundation (VEF) Fellowship, special program of US government to assist Vietnamese young outstanding scholars to pursue graduate study in top US universities. Between 50 final candidates over more than 1500 applicants.
- Vietnam National University Award for Excellent Youth Candidate, Dec 2004
- Odon Vallet Scholarship Sep 2004, Trust Scholarship, Dec 2001, Samsung Scholarship, Nov 1999
- Member of University Dean's List for Academic Excellence, Jun 2002
- Won 2<sup>nd</sup> place in University of Technology Programming Contest, member of the university's team in Vietnam National Programming Contest, 1999

## Reference

- Prof. Dr. Cláudio Silva , Associate Professor of Computer Science, School of Computing, University of Utah, <http://www.cs.utah.edu/csilva>, email: [csilva@cs.utah.edu](mailto:csilva@cs.utah.edu)