5 South Zhongguancun Street, Haidian District, Beijing 100081, China

EDUCATION

Expected in Jul. 2010

Oct. 2009 - Present

B.S., Software Engineering (Digital Media), School of Software, Beijing Institute of Technology

- GPA: 89/100, equivalent to 3.80/4.00
- Rank: 2/79

RESEARCH EXPERIENCE

Independent Researcher National Laboratory of Pattern Recognition, Institute of Automation, Chinese Academy of Sciences Project: Face Reconstruction and Pose Estimation

- Reconstructed 3D faces for face recognition and pose estimation from a single image by deforming and subdividing a generic face model
- Performed robust and automatic facial features localization using ASM (Active Shape Model)
- Utilized Narrow Band Level Set to extract face contour as a geometric feature for face recognition
- Estimated face pose via a novel linear regression method with low computation costs

Mar. 2009 – Sept. 2009 Research Team Leader

Lab of Engineering Simulation Design and Computation, Beijing Institute of Technology Project: A Tangible Interface for Large-scale Artistic Performances Design

- Developed a tangible user interface with augmented reality for intuitive virtual crowd authoring
 - Proposed a crowd behavior model as higher-level UI model, including three levels of crowd behavior: the stimulus, the psychological processes, and the reactions
- Utilized geometry instancing to speed up virtual crowd rendering and animation

Nov. 2008 – Sept. 2009 Research Team Member

Lab of Engineering Simulation Design and Computation, Beijing Institute of Technology Project: Virtual Rehearsal and Simulation System for China's 60th National Day Parade

- Developed a virtual rehearsal system based on crowd simulation and virtual reality for simulating large-scale crowd parade of China's 60th National Day
- Independently implemented an augmented reality system for facilitating crowd scene design

PUBLICATIONS

• Feng Zheng, Hongsong Li, Gangyi Ding, *et al.* A Crowd Control and Simulation System based on Augmented Reality. *Journal of System Simulation, Proceedings of Chinese Conference on Virtual Reality and Visualization (CCVRV 2009), Beijing, China, Oct. 2009, Vol. 21 Suppl. 1, pp. 217-221.*

CONFERENCE TALKS

• Feng Zheng, "A Crowd Control and Simulation System based on Augmented Reality", *Chinese Conference on Virtual Reality and Visualization (CCVRV 2009), Beijing, China, Nov. 2009.*

HONORS AND AWARDS

| Nov. 2009 | • First prize of 11 th National Challenge Cup (the "Olympics" of science and technology for |
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| | Chinese college students), top 9% among over 1,150 teams, China |
| Oct. 2009 | • CASIC Scholarship (China Aerospace Science & Industry Corp.), top 1% among over 2,000 |
| | undergraduate students, Beijing Institute of Technology |
| Jun. 2009 | • Outstanding award of 5 th Capital Challenge Cup (part of 11 th National Challenge Cup), top 5% |
| | among over 540 teams, Beijing, China |
| May. 2009 | • Second prize of Microsoft Imagine Cup Software Design, Finals of China, top 8 (0.3%) among |
| v | over 3,000 teams, China |
| Feb. 2009 | Honorable mention of MCM (Mathematical Contest in Modeling) |
| 2008/2009 | • First prize of Microsoft Innovative Team Scholarship, top 1%, Beijing Institute of Technology |
| Sept. 2008 | • Second prize of CUMCM (China Undergraduate Mathematical Contest in Modeling), top 8% |
| * | among over 10,300 teams, China |
| Oct. 2007 | • National Scholarship (highest honor for Chinese college students), top 1% among over 150 |
| | undergraduate students in School of Software, Beijing Institute of Technology |
| 2007/2008/2009 | • Honor of Excellent Student of Beijing Institute of Technology, top 10% among over 150 |
| 2007, 2000, 2007 | undergraduate students in the School of Software, Beijing Institute of Technology |
| 2007/2008/2009 | People's Scholarship, top 15% among over 150 undergraduate students in the School of Software, |
| 2007/2008/2009 | |
| | Beijing Institute of Technology |

SELECTED COURSE DESIGNS

- Developed an information management system based on Google Map for crowd assembly and crowd evacuation
- Developed a Chinese programming language interpreter with compile theory based on a self-designed Chinese programming language
- Implemented a project of solar system navigation with OpenGL and MFC, including techniques such as particle effect, texture mapping, and geometry transformation
- Developed a .NET Online Book Shop based on three-layered architecture: presentation layer, business logic layer, data access layer
- Developed an Online DVD Rental Management System using JSP for presentation and JavaBean for business logic and database operation

COMPUTING SKILLS

- Programming Languages: C, C++, Matlab, Java, C#, Assembly
- Web Technologies: PHP, JSP, ASP, HTML, JavaScript
- Operating Systems: Linux, Windows, Macintosh
- Databases: SQL Server, MySQL
- Math & Statistical Package: Matlab, Lingo, SPSS

EXTRACURRICULUM ACTIVITIES

| 2006 – Present | • | Commissary in |
|----------------|---|------------------|
| 2007 - 2008 | • | Minister of Scie |
| 2006 - 2007 | • | Member of the |
| Apr. 2007 | • | Member of the |
| Dec. 2006 | • | Member of the |

- Commissary in Charge of Studies in my class, School of Software
- Minister of Science and Technology Association, School of Software
- Member of the University Student Union, Beijing Institute of Technology
- Member of the Aerobics Team, School of Software
- Member of the Chorus Team, School of Software

LANGUAGE ABILITY

- IBT: Total 101 (Reading 28, Listening 27, Speaking 22, Writing 24)
- GRE: Verbal 570, Quantity 800, Analytical Writing 3.5