

Ling Zhan

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Personal Information

- Name: Ling Zhan (詹令)
 - Degree: M.S. in Mechanical Engineering, Carnegie Mellon University (Graduate: 2013.12)
 - Work Experience: 2~3 years
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Work Experience

NetDragon Websoft Inc., Fuzhou, China(2016.7~2016.11)

Game Engine Researcher

- Developed and maintained game terrain editor based on in-house game engine (C++, Lua, xml).
- Developed an automatically-delta-update tool for game assets based on Jenkins.

Avatar Works, Xiamen, China (2015.8 ~ 2016.7)

3D Engine Engineer

- Programmed shaders for pc and mobile platforms: physically based rendering, real-time sss skin rendering, eye rendering, full screen effect, cloth rendering.
- Customized particle system for special effects.
- Developed tools for artists.
- Developed an example-based human motion animation algorithm for reach and grasp (Skeleton Animation , k-Nearest Neighbor , Inverse Kinematic , Motion Interpolation , Discrete Collision Detection) .

Graphicchina, Hanzhou, China (2014.11 ~ 2015.8)

Software R&D Engineer

- Was one of the key members to develop the state-of-the-art cloth simulation system.
- Had good knowledge of numerical method, parallel

programming(CUDA, thrust, SSE/AVX), collision detection, cloth simulation algorithm, and mesh optimization.

- Recruited new people.

ArcelorMittal R&D Center , East

Chicago , USA (2013.5 ~ 2013.8 , 2014.4 ~ 2014.8)

R&D Engineer | Intern

- Applied Computer Fluid Dynamics and Digital Geometry Processing in the analysis and improvement of steel-making process.

Computational Bio-Modeling Lab at Carnegie

Mellon University , Pittsburgh,

USA (2012.08~2013.5, 2013.09~2013.12)

Graduate Research Assistant

- Developed quad-dominant mesh generation algorithm based on harmonic function and bubble dynamics.
- Conduct fluid-structure interaction simulation for cerebral aneurysms using ANSYS.



Education

Carnegie Mellon University, Pittsburgh, PA,

USA (2012.8 ~ 2013.12)

M.S. in Mechanical Engineering , GPA:3.88/4.0

Coursework: Computer Graphics, Mechanics of Complex Fluids, Computer Aided Design, Finite Element Method, Engineering Computation, JAVA J2EE Programming, Computational Bio-Modeling and Visualization

Harbin Institute of Technology, Harbin, China (2008.8 ~ 2012.7)

B.E. in Aerospace Engineering and Mechanics , GPA : 85/100

National Cheng Kung University , Tainan, Taiwan, China (2010.9 ~ 2011.1)

Exchange Student in Mechanical Engineering , GPA : 3.77/4.0

Others

Publications

- Tathagata Bhattacharya, Ling Zhan and Bernard Chukwulebe. "Design Considerations of Supersonic Oxygen Lances for a Basic Oxygen Furnace (BOF)". Accepted in SCANMET V, 2016, Lulea, Sweden [[LINK](#)]
- T. Bhattacharya, L. Zhan and B. Chukwulebe. "A Numerical Test Bench for Supersonic Oxygen Nozzles and Its Application to the BOF Process". Feature Article, the Iron & Steel Technology magazine of AIST, April 2015 [[LINK](#)]
- T. Bhattacharya, L. Zhan. "A Numerical Test Bench for Supersonic Oxygen Nozzles and Its Application to the BOF Process" , AISTech Proceedings, 2014 [[LINK](#)]
- H. Zhang, Y. Jiao, E. Johnson, L. Zhan, Y. Zhang, K. Shimada. "Modeling Anisotropic Material Property of Cerebral Aneurysms for Fluid-Structure Interaction Simulation" , Computer Methods in Biomechanics and

Presentations

- Physically Based Rendering [[LINK](#)]
- Research projects during my postgraduate period [[LINK](#)]
- Class projects during my postgraduate period [[LINK](#)]

Skills

- C/C++, MATLAB , Python, Java
- Visual Studio, Xcode , SVN/Git
- Computer Graphics, Digital Geometry Processing
- Parallel Programming (OpenMP , CUDA , thrust , SSE/AVX)
- Numerical Methods , Finite Element Method, Computational Fluid Dynamics
- Knowledge in Deep Learning , django web framework , Android NDK

Misc

- 2012 , TOEFL : 93 GRE : 800+630+3.5
- 2012 , U.S. Interdisciplinary Contest in Modeling, Honorable Mention
- 2010 , Excellent Volunteer of Harbin Institute of Technology
- 2010 , Experimental Contest in Mechanics, National Third Prize



Thanks for watching. I'm looking forward to joining your company.