

QIAOSONG WANG

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Skills

- **Programming languages:** C/C++, C#, Java, Matlab, Python, HTML5/WebGL/CSS, SQL and others
- **Interfaces and Architectures:** OpenCV, OpenGL, ROS, DirectX, CUDA, and others
- **Operating systems:** Windows, Linux, IOS

Experience

- **Intern Research Scientist**, eBay Research Labs (eRL), San Jose, CA, June. 2014 ~ Sep. 2014
Developed a machine learning based 3D virtual dressing/draping system.
- **Graduate Research Assistant**, Drexel University Autonomous Systems Lab (DASL), Philadelphia, PA, Dec. 2012 ~ Dec. 2013
Worked on the Defense Advanced Research Projects Agency (DARPA) Robotic Challenge and developed various vision algorithms for the Hubo 2+ humanoid robot to drive a Polaris utility vehicle.
- **Intern/Co-op**, Siemens Medical Solutions (SMS-HQ), Malvern, PA, May. 2012 ~ Aug. 2012
Developed a vision based automatic patient and device association system for the Siemens *Soarian* Medical Device Lab.
- **Research Assistant**, Institute of Artificial Intelligence and Robotics (IAIR), Xi'an Jiaotong University, Xi'an, China, Feb. 2011 ~ Jul. 2011
Developed a UGV navigation system based on stereo and omni-directional vision.
- **Student Developer Intern**, Microsoft Research Asia (MSRA), Beijing, China, Apr. 2010 ~ Aug. 2010
Developed the digital heritage monitoring and preservation system for the Microsoft Surface prototype.

Recognition & Awards

- Best Student Paper Award, *IS&T/SPIE* International Conference on Digital Photography X, 2014
- Excellence Award in Microsoft Student Challenge, 2010
- Firefighting robot project reported by November 4 issue of the *New York Times*, 2010
- Honorable Mention Prize in The Mathematical Contest in Modeling (MCM), 2010
- First Prize in the 4th Chinese National Mechanical Innovation Design Competition, 2010
- Third Prize in the 11th Chinese National Challenge Cup Competition, 2009
- Second Prize in the 12th Microsoft Student Practical Activity Contest, 2008

Education

- **University of Delaware, Newark, Delaware**
Doctor of Philosophy in Computer Science (May 2016 Expected)
Advisor: Prof. Christopher Rasmussen and Prof. Jingyi Yu
- **Xi'an Jiaotong University, Xi'an, China**
Bachelor of Engineering in Automation (May 2011)

Publications

- Christopher Rasmussen, Kiwon Sohn, **Qiaosong Wang** and Paul Y. Oh. *Perception and Control Strategies for Driving Utility Vehicles with a Humanoid Robot*. In IEEE/RSJ International Conference on Intelligent Robots and Systems (IROS), 2014.
- **Qiaosong Wang**, Zhan Yu, Christopher Rasmussen and Jingyi Yu. *Stereo Vision Based Depth of Field Rendering on a Mobile Device*. In Journal of Electronic Imaging (JEI). 23(2), 023009, 2014.

Patents

- **Fast 3D Model Fitting and Anthropometrics Using Synthetic Data**
United States Patent 62/065,163 Filed October 17, 2014
- **A Novel Cruise Robot**
China Patent CN201693547 U Granted May 11, 2011
- **Wiimote Based Infrared VR Teaching Assistance System**
China Patent CN201741291 U Granted February 9, 2011
- **Multifunctional Intelligent Surveillance and Control System (MISCS)**
China Patent CN201414197 Y Granted February 24, 2010

References

- Available upon request