

# Xo Wang

337898 Georgia Tech Station, Atlanta, GA 30332 (917)930-1717 xw@xowang.com

<b>Education</b>	GEORGIA INSTITUTE OF TECHNOLOGY <i>Bachelor of Science, Electrical Engineering. (Expected)</i> <i>Bachelor of Science, Computer Science. (Expected)</i>	Atlanta, GA August 2009 – May 2013
	STUYVESANT HIGH SCHOOL <i>Honors Diploma with Advanced Designation</i> <i>Thomas P. Farkas '38 Scholarship Award for Science &amp; Technology</i>	New York, NY September 2005 – June 2009
<b>Work Experiences</b>	<b>Graphics, Visualization, Usability (GVU) Center</b> <i>Undergraduate research assistant</i>	Georgia Tech January 2011 – Present
	<ul style="list-style-type: none"><li>• Developing GPU+CPU solutions for smoothed particle hydrodynamics (SPH) fluid simulation</li><li>• Funded by the National Science Foundation (NSF) under an REU grant. Advisor: Greg Turk (turk@cc.gatech.edu)</li></ul>	
	<b>Barnes &amp; Noble.com</b> <i>Software consultant</i> <i>Software engineering intern, Mobile Client Applications</i>	New York, NY September 2010 – January 2011 July 2010 – August 2010
	<ul style="list-style-type: none"><li>• Developed e-reading software for the NOOK eReader, Android, and iOS platforms</li><li>• Designed and engineered technology for rendering rich media embedded in digital documents</li></ul>	
	<b>Rebellion Research</b> <i>Quantitative analysis/programming intern</i>	New York, NY June 2010 – July 2010
<ul style="list-style-type: none"><li>• Performed quantitative analysis of large databases of financial data using Python</li><li>• Implemented and simulated proprietary stock trading strategies</li></ul>		
<b>Actor Machine, LLC.</b> <i>Software engineering intern</i>	New York, NY June 2009 – August 2009	
<ul style="list-style-type: none"><li>• Programmed multithreaded procedural AI and graphics middleware for games</li><li>• Engineered in-house compiler tools to translate performance applications from Java to C++</li></ul>		
<b>Extracurricular Activities</b>	<b>School of Mechanical Engineering</b> <i>Invention Studio lab instructor</i>	Georgia Tech August 2010 – Present
	<ul style="list-style-type: none"><li>• Enabling students to work with industry prototyping equipment (waterjet, laser cutter, 3D printers)</li><li>• Pioneering education in open source physical computing (circuit and board design)</li><li>• Establishing ground-breaking infrastructure for hands-on engineering with the Makers Club</li></ul>	
	<b>Open Source community</b> <i>Mechanical/electrical/software engineer</i>	2007 – Present
	<ul style="list-style-type: none"><li>• Developing the Velociryder (co-inventor; patent pending), a top finalist at the 2011 InVenture Prize</li><li>• Founding and architecting numerous software and hardware projects</li><li>• Contributing to open-source projects like OpenImageIO, PixelToaster, and the Linux kernel</li></ul>	
	<b>Science Olympiad</b> <i>Volunteer event supervisor</i>	Georgia and National Science Olympiad 2008 – Present
<ul style="list-style-type: none"><li>• Supervising and judging engineering events at national, statewide, and local tournaments</li><li>• Maintaining <a href="http://scioly.org">scioly.org</a>, a 15,000-member community website for Science Olympiad</li><li>• Advising the National Science Olympiad committee on robotics events</li></ul>		
<b>FIRST Robotics Competition</b> <i>Volunteer</i>	Stuyvesant High School & GeorgiaFIRST 2005 – 2010	
<ul style="list-style-type: none"><li>• Volunteered for 2010 World Championship and local FIRST events with RoboJackets, the Georgia Tech robotics team</li><li>• Completed electronics for Stuypulse 694's 2006 robot Joshua, winning the Xerox Creativity Award</li></ul>		
<b>Skills</b>	<b>Programming:</b> C/C++(incl. C++11), Java, Python, Linux shell, OpenGL, PHP, SQL <b>Software:</b> Eclipse, Visual Studio, SolidWorks, EAGLE, Git, Subversion, GCC/GDB, Make, SCons <b>Hardware:</b> PCB layout, board bringup & debugging, ARM Cortex, dsPIC DSCs, sensor fusion <b>Languages:</b> Fluent in English and Mandarin Chinese; familiar with German and Spanish	