

SUMMARY	<p>Passionate about robotics and self-driving technologies. Experienced with motion/path planning algorithms (A*, PRM, RRT*) and open-source libraries, including OMPL, ROS navigation stack, and U texas-art-ros-pkg (Austin Robot Technology, 2007 DARPA Urban Challenge). Startup spirit and a creditable YC startup internship.</p>	
EDUCATION	University of South Carolina , Columbia, SC <i>Ph.D. Candidate, Computer Science</i>	Dec. 2015
	University of New Mexico , Albuquerque, NM <i>M.S., Electrical Engineering</i>	Dec. 2009
	China University of Geosciences , Wuhan, Hubei <i>B.S., Electrical Engineering</i>	June 2007
WORK EXPERIENCE	Auro Robotics, Inc. (YCombinator S15) , Sunnyvale, CA <i>Robotics Engineer Intern</i>	June 2015 – Aug. 2015
	<ul style="list-style-type: none"> - Developed and tested motion planning algorithms for the self-driving shuttle - Cooperated with the technical lead to implement a waypoint-following path planner - Implemented an OMPL-based RRT* path planner using a costmap of perception - Conducted autonomous drive tests of our autopilot software with the vehicle 	
RESEARCH EXPERIENCE	South Carolina Autonomous Robotics Research (SCARR) Lab , USC <i>Decentralized Formation Algorithm for Multi-Robot Systems</i>	Aug. 2013 – Present
	<ul style="list-style-type: none"> - Innovated a distributed formation algorithm for the multi-robot systems - Promoted a provably-correct decentralized formation algorithm with time-bounded executions and optimized formation qualities - Developed ROS-based software simulations with C++, Python, and Bash - Designed and built a GUI with the GTK+ and the Boost libraries 	
	SCARR Lab , USC <i>Planning Algorithm under Uncertainty</i>	Aug. 2010 – May 2011
	<ul style="list-style-type: none"> - Promoted a geometric algorithm for robot planning under uncertainty - Accomplished the algorithm and simulations using C++ - Achieved the same level of performance as using the approach that computed the high-fidelity information states, but with a small fraction of the computational cost 	
	Multi-Agent, Robotics, Hybrid, and Embedded Systems (MARHES) Lab , UNM <i>Multi-Robot Control Algorithm</i>	Aug. 2009
	<ul style="list-style-type: none"> - Implemented a cyclic pursuit algorithm for nonholonomic vehicles with MATLAB/C++ - Implemented simulations with Player/Gazebo 	
LANGUAGE & TOOLS	C/C++, Python, Ruby, Java, HTML/CSS, JavaScript, \LaTeX ROS, Git, CMake, OMPL, OpenCV, Bootstrap, Boost	
HONORS & AWARDS	Member of Upsilon Pi Epsilon NSF Student Travel Grant Award	May 2014