

Rajiv Kadaba

CONTACT INFORMATION	229 Easy St. Apt. B Mountain View, CA 94043 USA	Voice: (512) 573-0179 E-mail: rajiv.kadaba@gmail.com
EDUCATION	Master of Science, Electrical and Computer Engineering, December 2009 The University of Texas at Austin	
	Bachelor of Engineering, Electronics, May 2007 Veermata Jijabai Technological Institute (VJTI)	
PROFESSIONAL EXPERIENCE	Microsoft Corporation	
	<i>Software Development Engineer 2, Mediaroom</i>	August 2009 to Present
	<ul style="list-style-type: none">• Part of a team developing Media and Services components for IPTV clients.<ul style="list-style-type: none">– Platforms: Xbox, iOS, WinCE– Media Transports: Smooth Streaming, RTP, MPEG-TS, Shoutcast– Metadata: TTML, Captions, Teletext, EBIF– Telemetry/Diagnostics Retrieval, Analysis and Visualization– A/V pipeline performance characterization and optimization– REST API's for remote administration	
	<i>Software Engineer Intern, Mediaroom</i>	June 2008 to August 2008
	<ul style="list-style-type: none">• Designed and implemented HDMI test framework along with an UI.• Developed HD frame capture application by porting Directshow Interfaces to .NET.	
ACADEMIC EXPERIENCE	The University of Texas at Austin	
	<i>Research Assistant, The Laboratory for Intelligent Processes and Systems</i>	Summer 2009
	<ul style="list-style-type: none">• Conducted research in the field of multi agent systems and the semantic web, specifically identity and trust in social networks.• Developed software in python to build data sets, prototype algorithms and visualize results.• Presented laboratory research at conferences and assisted with writing of grant proposals.	
	<i>Teaching Assistant, Electrical and Computer Engineering</i>	Spring 2008 to Spring 2009
	<ul style="list-style-type: none">• Responsible for holding office hours, delivering lectures, providing model solutions to assignments, designing labs and grading (EE360C Algorithms) for 43 students.• Responsible for grading software requirements documents and facilitating in class exercises for undergraduate and graduate students (EE382C/EE361Q Requirements Engineering).• Independently, planned and developed a supplementary Instruction course in Electrostatics, Electromagnetism and Optics (GE208L). Instructed and managed a class of 22 students for a period of one semester.• Received a student evaluation of 4.4/5.0.	
	Bhabha Atomic Research Centre	
	<i>Research Intern, Division of Remote Handling and Robotics</i>	Spring 2007
	<ul style="list-style-type: none">• Developed model of small payload serial link flexible manipulator and characterized its oscillation dynamics.• Simulated control schemes in Matlab as proof of concept for a prototype.• Advisor: Dr. Debanik Roy	

PUBLICATIONS	R. Kadaba, S Budalakoti, D. DeAngelis, and K. S. Barber. Modeling Virtual Footprints. In the Proceedings of The Workshop on Trust in Agent Societies at The Ninth International Conference on Autonomous Agents and Multiagent Systems (AAMAS- 2010); Toronto, Canada; May 10-14, 2010.
PROJECTS	<div> Multivariate Statistical Approach to Reservoir Classification Spring 2008 </div> <ul style="list-style-type: none"> Investigated the use of model trees and gradient boosting in predicting amount of gas recoverable from reservoirs in the GASIS data set. Achieved a prediction accuracy of over 99 <div> Early Design Planning and Circuit Feasibility Analysis of OpenSPARC T1 Core Spring 2008 </div> <ul style="list-style-type: none"> Developed detailed floorplan of the Stream Processing Unit cluster. Performed Power Estimation and Critical Path analysis on assigned cluster for Subthreshold operation. <div> Design and Verification of a Reconfigurable Bloom Filter IP Core Fall 2007 </div> <ul style="list-style-type: none"> Implemented fast pattern matching engine for Deep Packet Inspection using Bloom Filters which are always optimal in verilog. Designed Multi banked, pipelined SRAM architecture to allow for a throughput of 500MB/s. Validated against software model written in C++. <div> Human Machine Interface with Inertial Sensors using Optimal Estimation Techniques Fall 2006 </div> <ul style="list-style-type: none"> Explored the advantages of inertial sensors in gesture recognition applications. Designed and built framework to allow humans to interact with existing software intuitively.
SKILLS	Programming Languages: Assembly (x86, AVR), C++, C# , Python Web Development: JavaScript, Silverlight/WPF, PHP, MySQL, MS SQL Platforms: Windows, Linux (Fedora), Xbox, iOS Tools: Matlab/Simulink, Weka, MSC ADAMS Integrated Circuit CAD: Cadence Virtuoso, Synopsys VCS, HSPICE
ACHIEVEMENTS	First Place Winner, Robot Localization, IRocha, IIIT Hyderabad, 2007 Best Design Winner, IClean, Techfest , IIT Bombay, 2007 Second Place Winner, Level 3 Robotics, IEEE ISAC, 2005 Second Place Winner, Level 3 Robotics, IEEE Brainwaves, 2004
PROFESSIONAL MEMBERSHIPS & SERVICE	Institute for Electrical and Electronic Engineers (IEEE) Student Member 2006 - Present Technical Head, IEEE VJTI Student Branch, 2006 - 2007