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| 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**   |  |  | | --- | --- | | Software Development Engineer 2, Mediaroom | **August 2009 to Present** |  * + Part of a team developing Media and Services components for IPTV clients.   + 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  |  |  | | --- | --- | | Software Engineer Intern, Mediaroom | **June 2008 to August 2008** |  * 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**   |  |  | | --- | --- | | Research Assistant, The Laboratory for Intelligent Processes and Systems | **Summer 2009** |   • 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.   |  |  | | --- | --- | | Teaching Assistant, Electrical and Computer Engineering | **Spring 2008 to Spring 2009** |   • 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**   |  |  | | --- | --- | | Research Intern, Division of Remote Handling and Robotics | **Spring 2007** |   • 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. | |
| 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 | |  |  | | --- | --- | | Multivariate Statistical Approach to Reservoir Classiﬁcation | **Spring 2008** |   • 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   |  |  | | --- | --- | | Early Design Planning and Circuit Feasibility Analysis of OpenSPARC T1 Core | **Spring 2008** |   • Developed detailed ﬂoorplan of the Stream Processing Unit cluster.  • Performed Power Estimation and Critical Path analysis on assigned cluster for Sub threshold operation.   |  |  | | --- | --- | | Design and Veriﬁcation of a Reconﬁgurable Bloom Filter IP Core | **Fall 2007** |   • 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++.   |  |  | | --- | --- | | Human Machine Interface with Inertial Sensors using Optimal Estimation Techniques | **Fall 2006** |   • 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) Member 2006 - Present  Technical Head, IEEE VJTI Student Branch, 2006 - 2007 | |