

Mohammad Azimi
Address & Phone Number by Request
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EDUCATION

- University of California Berkeley / UCSF – PhD Candidate in Bioengineering** 2008 – Present
Emphasis in computational biology with a minor in computer science
- Arizona State University – BSE Bioengineering – Business Minor** 2003 – 2008

WORK EXPERIENCE

- Molecular Cell Biomechanics Laboratory (UC Berkeley)** 2008 – Present
Development of a computationally efficient method and software package for simulating meso-scale biochemical systems in discretized time and space using principles of agent based modeling.
- MedApps, Inc. – Research & Development – Software Engineer** 2008
Developed device software to enable functionality of wireless modules (cellular and Bluetooth) to communicate with medical devices and wirelessly transmit patient readings to a database.
- Medtronic Corporation – Product Development – Consultant, Lead Software Developer** 2007 – 2008
Software development for wireless telemetry system intended for use in various medical devices.
- Intel Corporation – America Sales & Marketing** 2005 – 2008
Work directly with retail channels and customers on building the brand image as well as conducting numerous one-on-one and group trainings. Designed and implemented new tool to track merchandising inventories and consistently improved merchandising score in the Phoenix, Las Vegas and San Diego areas.
- Intel Corporation – Assembly Technology Development – Intern, Mechanical Core Competency** 2005 – 2007
- Summer 2007 Design, setup and implementation of a metrology to evaluate the mechanical, thermal and electrical performance characteristics of LGA sockets.
- Summer 2006 Design, setup and implementation of a Twyman-Green Interferometer for measuring three dimensional displacements in silicon and packaging. Designed Lab View Interfaces for various tools in the lab to improve user friendliness and automation of tests.
- Summer 2005 Design, setup and implementation of mechanical digital image correlation for material property testing on various materials including thin films in correlation with a mechanical load frame.
- Medtronic Corporation – MMC Reliability Group – Intern, Physics of Failure** Spring 2007
Developed a methodology for drop/shock risk assessment of Medtronic microelectronic products prior to full assembly into devices for evaluation of new products, materials and manufacturing steps.

TEACHING EXPERIENCE

- Graduate Student Instructor, Department of Bioengineering, University of California Berkeley** 2009 – present
BioE131/231 – Introduction to Computational Molecular and Cell Biology
BioE110 – Biomedical Physiology for Engineers
BioE115 – Cell Biology Laboratory for Engineers
BioE101 – Instrumentation in Biology and Medicine
- Lab Assistant, Arizona State University Integrated Manufacturing and Engineering Lab** 2004 – 2006
ECE100 – Introduction to Engineering
IEE463 – Computer-Aided Manufacturing and Control

PUBLICATIONS & PRESENTATIONS

- Azimi M, Jamali Y, Mofrad MRK, 2011 Accounting for Diffusion in Agent Based Models of Reaction-Diffusion Systems with Application to Cytoskeletal Diffusion. PLoS ONE 6(9): e25306.** 2011
- Jamali Y, **Azimi M, Mofrad MRK, 2010 A Sub-Cellular Viscoelastic Model for Cell Population Mechanics. PLoS ONE 5(8): e12097.** 2010
- ASME Summer Bioengineering Conference, PhD Student Paper Competition, 2nd Place Award** 2010

SKILLS

COMPUTER: C++, C#, FORTRAN, Perl, R, VB.NET, MATLAB, Embedded C (8051), Web Design (HTML/PHP/SQL), Python, Android/Java Development, LabView, MathCAD, SPICE, Solid Works, MS Office Macros, Windows/Linux/Mac, MPI and SSI cluster setup and maintenance