

Rafeed A. Chaudhury

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<i>Objective</i>	I am currently a graduate research associate pursuing a PhD in Biomedical Engineering at Arizona State University. Upon completion of my PhD, I will pursue a career in academia and research.	
<i>Education</i>	Arizona State University, Tempe, AZ Aug. 2010 – May 2014 <i>PhD in Biomedical Engineering</i> (expected) <i>School of Biological and Health Systems Engineering</i> GPA: 4.0/4.0	
	Georgia Institute of Technology, Atlanta, GA Aug. 2006 – May 2010 <i>Bachelor of Science in Biomedical Engineering with Research Option Thesis</i> <i>Wallace H. Coulter Department of Biomedical Engineering</i> GPA: 3.44/4.0 (High Honors), 2010 BME Outstanding Leader Award	
<i>Research Experience</i>	Graduate Research Associate Aug. 2010 – Present <i>David Frakes, PhD, Department of Biomedical Engineering</i> <i>Image Processing Applications Laboratory (IPALab), Arizona State University, Tempe, AZ</i> <ul style="list-style-type: none">• Awarded Dean's Fellowship• Current Research: Quantification of cerebral and coronary aneurysm hemodynamics	
	Undergraduate Research Assistant Jan. 2009 – May 2010 <i>Rudolph Gleason, PhD, Department of Biomedical Engineering</i> <i>Tissue Engineering Laboratory (GTEC), Georgia Institute of Technology, Atlanta, GA</i> <ul style="list-style-type: none">• Manufactured blood vessel constructs from collagen and rat aortic smooth muscle cells• Performed histology, axial loading tests, pulse-diameter tests on constructs• Modified and enhanced protocol for tissue culturing to yield more tissue growth• Trained two undergraduate researchers in tissue culturing and manufacturing of constructs• Received President's Undergraduate Research Award for Fall 2009	
	Clinical Research Practicum Student Jan. 2009 – May 2009 <i>David Wright, MD, Department of Emergency Medicine, Emory University School of Medicine</i> <i>Grady Memorial Hospital, Atlanta, GA</i> <ul style="list-style-type: none">• Participated in clinical research data collection and conducted patient interviews• Actively screened and enrolled patients for clinical research trials• Observed Emergency Department operations by shadowing physicians and residents• Designed and developed NIH Clinical Research Trial Grant Proposal	
	Volunteer Undergraduate Research Assistant Aug. 2007 – Jan. 2008 <i>Michelle LaPlaca, PhD, Department of Biomedical Engineering</i> <i>Laboratory for Neuroengineering (NeuroLab), Georgia Institute of Technology, Atlanta, GA</i> <ul style="list-style-type: none">• Sectioned 3-D cultures using cryostat for immunocytochemistry• Performed microscopic image analysis & electrophysiological data analysis	
<i>Publications</i>	Undergraduate Research Thesis <ul style="list-style-type: none">• Chaudhury R. <i>Manufacturing and Mechanical Testing of Biochemically Stimulated Tissue-Engineered Blood Vessel Constructs</i> [Undergraduate Research Option Thesis]. Atlanta: Department of Biomedical Engineering, Georgia Institute of Technology; 2010. Available online: http://hdl.handle.net/1853/33481.	
<i>Conferences Attended</i>	2009 National BMES Conference, Pittsburgh, PA Oct. 2009 <ul style="list-style-type: none">• Represented Georgia Tech BMES	
<i>Related Professional Experience</i>	Peer Leader, Community Assistant, Resident Advisor Aug. 2007 – May 2010 <i>Dan Morrison, Department of Housing, Georgia Institute of Technology, Atlanta, GA</i> <ul style="list-style-type: none">• Served as a mentor and advisor for 38 first year Honors Program students in dorm setting ('07-'08)• Managed a university residence hall floor of 52 ethnically diverse undergraduate students ('08-'10)• Created, planned, and implemented educational, social, and recreational programs• Enforced the rules and regulations of the residence halls• Assisted in interviewing RA's and Hall Director applicants	

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<i>Skills</i>	Proficient in Matlab & Simulink, Minitab, LabVIEW, Solid Edge, Solid Works, Instron, ANSYS ICEM, ANSYS FLUENT; Confocal, Fluorescence, and Brightfield Microscopy; Cell Culturing, Cell Counting, Bioassays; HTML, JS, PHP, CSS; Microsoft Office, Mac OS X, Linux; Working knowledge of Spanish
<i>Activities</i>	<p>Georgia Tech Biomedical Engineering Society Aug. 2006 – May 2010 <i>President ('08-'10)</i> – Presided over 110-150 members and 10 officers, organized bi-weekly seminars <i>Secretary ('07-'08)</i> – Managed membership and transcribed minutes for meetings <i>Public Relations Chair ('07-'08)</i> – Recruited new members; increased membership by over 40% in a year</p> <p>Biomedical Engineering Department Student Advisory Board Jan. 2007 – May 2010 <i>Treasurer ('09-'10)</i> – Managed departmental funds allocated for Advisory Board</p> <ul style="list-style-type: none">• Nominated by faculty to represent interests of BME student body as a Faculty-Student Liaison• Improved BME curriculum by recommending changes to department <p>ASU BMES ('10-Pres), BME Student Ambassador ('09-'10), GT 1000 Team Leader ('09-'10), National Society of Collegiate Scholars ('06-Pres), GT Alcohol Task Force Student Representative ('07-'10), Hall Council Voting Representative ('06-'07), Web Design & Development Consulting ('06-Pres)</p>
<i>Awards & Achievements</i>	Dean's Fellowship, Graduate Research Associateship, BME Outstanding Senior Award, Dean's List Award, President's Undergraduate Research Award, Dakin B. Ferris Scholarship, Frank H. Hardin Scholarship, Sidney Goldin Scholarship, GT Residence Life Staff Training Best Program Award
<i>Related Coursework</i>	Systems Physiology, Biotransport, Biomechanics, Biomedical Systems and Modeling, Cell & Molecular Physiology, Differential Equations, Digital Signal Processing, Biosolid Mechanics, Modeling and Simulation of Physiological Systems (ASU), Modeling for Molecular and Cellular Engineering (ASU), Computational Fluid Dynamics (ASU/Directed Study)