

# JOSHITA MAJUMDAR

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412-506-0480

## EDUCATION

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<b>Carnegie Mellon University</b> , Pittsburgh, PA Master of Science, Biomedical Engineering, <b>3.54/4</b>	December 2013
<b>Manipal Institute of Technology</b> , Karnataka, India Bachelor of Engineering, Biomedical Engineering, <b>8.75/10</b>	May 2012

## RELEVANT EXPERIENCE

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<b>Research Assistant, Center for Bio Image Informatics, Carnegie Mellon University</b>	Summer 2013
• Worked on H&E stained images in order to bring about "Appearance Normalization of Histology Slides" using Registration and Image Processing Techniques	Spring 2013
<b>Grader, Department of Mathematics, Carnegie Mellon University</b>	June 2010 - July 2010
• Graded MATLAB assignments and tests for the course "Numerical Methods"	
<b>Intern, Covidien Healthcare, Maharashtra, India</b>	
• Gained insight into the constantly advancing research that provides innovative medical solutions by learning skills such as Project Management and Product development	
<b>Project Trainee, Philips Innovation Center, Bangalore, India</b>	July 2011- September 2011
• Worked on the "Comparative Analysis of Product Features found in Infant Incubators and Warmers"	
<b>Intern, AMRI Hospital, Kolkata, India</b>	Winter 2009
• Learned about the working and applications of biomedical equipment by shadowing doctors	

## PROJECTS

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<b>"Self Similarity of Images"</b> , Wavelets & Multi Resolution Techniques, <i>Carnegie Mellon University</i>	August 2012- December 2012
• Development of an algorithm to analyze similar image areas which contribute to classification accuracy	
<b>"ECG Acquisition and Analysis"</b> , Undergraduate Project, <i>Manipal Institute of Technology</i>	August 2011- December 2011
• Designed and implemented a simplified cost effective circuit that acquires an ECG signal from disposal electrodes, displays it on a Oscilloscope and analyzes the QRS complex using MATLAB	
<b>"Brain Tumor detection from MR Images"</b> , Research project, <i>Indian Institute of Technology (IIT)</i>	January 2012- May 2012
• Detection and Segmentation of Brain tumors using Region based & Level set segmentation	

## ACTIVITIES AND LEADERSHIP

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<b>Medical Image Processing Application Development Workshop using Open Source platforms ITK &amp; VTK</b> , Manipal University	February, 2011
<b>Youth to Business Forum</b> , AIESEC Manipal University	September 2010
<b>National Workshop on Medical Imaging</b> , Manipal Institute of Technology	February 2010
<b>Organizer</b> , Technical Festival "Techtatva", Manipal Institute of Technology	Fall 2009
<b>Honorary Volunteer</b> , Sparsh Balgram,	Summer 2009
• Volunteered to help children afflicted with HIV/AIDS to help them with their studies and work towards their welfare.	
<b>Event Coordinator</b> , Cultural Festival "Utsav", Manipal University	Spring 2009
• Scheduled performances, kept inventory of materials	
• Coordinated the event logistics including attendee registration and budget allocation	
<b>Volunteer</b> , Technical Festival "Techtatva", Manipal Institute of Technology	Fall 2008
• Information desk Management, Publicity & Promotion of events	

## SKILLS

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Laboratory: Instrumentation, Biomedical Equipments, Integrated Circuit Systems  
Computer: MATLAB, Object Oriented Programming with C++