

KOUSHIK HEMBRAM

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Education			
Year	Degree / Certificate	College / School	Performance
2006 – 2011 (ongoing)	B.Tech and M.Tech (Dual Degree) in Electronics and Electrical Communication Engineering with specialization in Visual Information Processing and Embedded Systems	Indian Institute of Technology, Kharagpur	CGPA of 7.38 / 10
2005	Class XII: All India Secondary School Certificate Examination (AISCE)	B. D. Memorial Institute, Kolkata (CBSE)	72.8%
2003	Class X: All India Secondary School Examination (AISSE)	B. D. Memorial Institute, Kolkata (CBSE)	83%
Work Experience / Internships			
George Mason University, Virginia, USA (May – July 2010)			
Position	Short Term Scholar (Summer Intern)		
Responsibilities	Perform independent and cooperative research work on the project “ <i>Analysis of the dynamics of the rectus-femoris muscle using Ultrasound coupled with Position Sensors</i> ”.		
EffiKC, Kolkata, India (May – July 2009)			
Position	Microcontroller Programmer (Summer Intern)		
Responsibilities	Perform independent and cooperative work on development and implementation of a communication protocol for enabling multiprocessor communication on the AVR microcontroller platform.		
Indian Institute of Technology, Kharagpur, India (July 2010 – present)			
Position	Laboratory Assistant		
Responsibilities	Maintenance of lab materials for Basic Electronics course. Provided supervision and tutoring for students working on experiments.		
Academic Projects			
B.Tech. Project	Detection of cardiac abnormality from phonocardiogram signals using LMS based LSSVM classifier. (August 2008 – April 2009)		
M.Tech. Project	Detection and removal of artifacts from phonocardiogram signals. (August 2010 - present)		
Other Projects	Design and implementation of real time Heart Sound Analyzer. (August 2009 – April 2010)		
	Fingerprint image classification using Artificial Neural Networks. (September-November 2009)		
	Segmentation of masses in mammogram image using Geometric Active Contour. (February-April2010)		
Achievements / Activities			
Academic	Awarded Certificate of Merit from Central Board of Secondary Education (CBSE) for being among the top 0.1% successful candidates in Mathematics in AISSE 2003.		
	Published a journal paper “Detection of cardiac abnormality from PCG signals using LMS based least square SVM classifier” with Dr. Samit Ari and Dr. Goutam Saha in <i>Expert System with Applications, Elsevier</i> . (2009)		
Extra Curricular	Completed fourth year in painting from Bangiya Sangeet Parishad.		
	Volunteered rural surveys as part of National Service Scheme and Rural Development Center of IIT Kharagpur.		
	Was an active member of Red Cross Society, IIT Kharagpur during August 2007–April 2008.		
Skills			
Technical	Competent in C, C++, Verilog HDL, Assembly Languages.		
	Familiar with Windows and Linux operating systems.		
	Experienced with Matlab, Microsoft Visual C++, PSpice, Assembly Language Simulators (AVR,8051,8085), Microsoft Office.		
Other	Excellent communication skills and leadership ability.		
Other Interests			
Sports	Football, table tennis and cricket.		
Others	Playing Guitar, travelling and photography.		