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	Student Mentorship for Summer Interns <i>IIT Bombay, India</i> - <i>Virtual Trial-Room</i> :Proposed a real-time virtual cloth fitting using generic web camera input by representing human joints with a Directed Acyclic Graph (DAG) obtained from body parts detection and structurally aligning the input garment to the edges of the DAG. Mentored intern students for developing the algorithm and implementation in OpenCV.	April 2014 - June 2014
	Undergraduate (B.E.) project <i>Jadavpur University, India</i> - <i>Vision based door detection</i> : Developed a door detection algorithm for autonomous mobile robot navigation by generating proposals for candidate door-like structures followed by a fuzzy classifier for final door detection based on geometric features.	Jan 2012 - May 2012 Prof. Amitava Chatterjee
PATENTS	Subhajit Chaudhury and Gaku Nakano , A device for automatic crack detection from 2D motion in video sequences , PCT/JP2016/072700 (<i>filed at NEC</i>) Subhajit Chaudhury, Vineet Gokhale, Subhasis Chaudhuri , A virtual reality system and method for providing synchronous tactile feedback for user interaction , Indian Patent, 503/MUM/2015 (<i>filed at IIT Bombay</i>)	
AWARDS AND ACHIEVEMENTS	<ul style="list-style-type: none"> Secured All India Rank 33 out of 110,125 students in Electrical Engineering, GATE-2012. Secured rank 86/100,000 students in West Bengal Engineering Entrance Examination 2008 Received academic excellence award for 1st position in class X (2006) and XII (2008) exam. Awarded 1st position prize in Inter-School coding competition. 	
RELEVANT PROJECTS	Can fully convolutional networks perform well for general image restoration problems? Proposed a fully convolutional network model for learning direct end-to-end mapping between corrupted images and desired clean images for general image restoration task. Preliminary results indicate that FCN models show potential for fast and accurate image restoration performance. Direct reconstruction of dense 3D non-rigid deformation from 2D correspondences Developed dense 3D surface deformation estimation method from monocular images by minimizing local-global 3D to 2D motion re-projection functional using Euler-Lagrange minimization method.	
TEACHING EXPERIENCE	-Teaching Assistant for Signals and System, Prof Animesh Kumar, IIT Bombay, Spring-2013. -Teaching Assistant for Digital Signal Processing , Prof Animesh Kumar, IIT Bombay, Autumn-2013 -Teaching Assistant for Computer Vision, Prof Subhasis Chaudhuri, IIT Bombay, Spring 2014	
RELEVANT COURSES	Electrical Engineering: Wavelets, Statistic Signal Processing , Applied Linear Algebra , Digital Signal Processing, Number Theory and Cryptography, Digital Message Transmission Computer Science: Computer Vision, Foundations of Machine Learning, Computer Graphics, Advanced Computer Graphics	
COMPUTER SKILLS	<ul style="list-style-type: none"> Programming Languages : <i>C, C++, Java, Python</i> Tools : <i>Matlab, OpenCV, CUDA, OpenGL</i> Machine learning Tools : <i>scikit-learn, Theano + Lasagne, Keras, Caffe, Matconvnet</i> 	
REFEREES	<ul style="list-style-type: none"> Prof. Subhasis Chaudhuri Deputy Director (AIA) & Professor, Department of Electrical Engineering, IIT Bombay, India email : sc@ee.iitb.ac.in Prof. Amitava Chatterjee Professor, Department of Electrical Engineering Jadavpur University,Kolkata, India email : achatterjee@ee.jdvu.ac.in 	