

Amey Porobo Dharwadker

3111 Broadway, Apt. #3K
New York, NY 10027
United States

(347) 406 0864
aap2174@columbia.edu

EDUCATION	Columbia University , New York, United States <i>M.S., Electrical Engineering</i> (GPA: 4.04/4.0)	Expected Graduation: Dec 2014
	National Institute of Technology, Tiruchirappalli , India <i>B.Tech, Electronics and Communication Engineering</i> (GPA: 8.54/10.0) <ul style="list-style-type: none">• Degree Honors : First Class with Distinction• Thesis : Scene Text Extraction Using Color Information	Jul 2007 – May 2011
INDUSTRIAL EXPERIENCE	Facebook Inc. , Menlo Park, California <i>Software Engineering Intern</i> <ul style="list-style-type: none">• Worked on understanding how users interact with Facebook ads and further optimizing content ads relevance and retrieval. Analog Devices Inc. , Bangalore, India <i>Automotive Vision Software Engineer</i> <ul style="list-style-type: none">• Developed real-time vision based Advanced Driver Assistance System (ADAS) algorithms for proprietary ADSP-BF609 embedded processor.• Researched, designed and implemented the algorithms including input data-analysis, OpenCV and MATLAB simulations and a final implementation which featured a hardware-accelerated video analytics pipeline.	May 2014 – Jul 2014 Jul 2011 – Jun 2013
PROJECTS	Large-scale Action Recognition in Videos <i>Advanced Research Project</i> <ul style="list-style-type: none">• Extracted dense trajectory features (HOG, HOF, MBH) for human action recognition in videos captured in realistic unconstrained environments.• Proposed spatio-temporal covariance descriptors on the computed dense trajectories to fuse correlated features and create a low-dimensional feature representation. Predicting Visual Aesthetics in Face Photos <i>Biometrics Course Project</i> <ul style="list-style-type: none">• Utilized photographic compositional features and rules to develop an algorithmic approach to quantify aesthetic quality of photos containing faces.• Built SVM classifiers to score face photos similar to human aesthetics judgement predictions. Text Detection in Natural Scene Images <i>UGC funded Research Internship</i> <ul style="list-style-type: none">• Developed algorithms to segment foreground text from word images in the ICDAR 2003 Robust Reading Competition Word Dataset.• Proposed algorithms for localizing text regions in natural scene images from the ICDAR 2003 Dataset.	Oct 2013 – Jan 2014 Dec 2013 May 2010 – Jul 2010
SKILLS	Operating Systems : Windows, Linux Primary : C, C++, Python, PHP OpenCV, MATLAB, R, Mathematica, Eclipse, L ^A T _E X, Git	

PUBLICATIONS	<p>Abhishek Sharma, Amey Dharwadker, and T. Kasar. “MobLP: A CC-based approach to vehicle license plate number segmentation from images acquired with a mobile phone camera.” <i>Annual IEEE India Conference (INDICON)</i>, 2010. [pdf]</p> <p>T. Kasar, A.G. Ramakrishnan, Amey Dharwadker, Abhishek Sharma. “TexTraCC : Text extraction using color-based connected component labeling.” <i>The Centenary Conference, Electrical Engineering, Indian Institute of Science</i>, 2011. [pdf]</p>
HONORS AND AWARDS	<p>Ranked 214th in HackerRank CodeSprint 5 among 4000+ participants across the world</p> <p>Among 72 students selected worldwide for the Season of KDE 2011 internship program</p> <p>Received University Grants Commission (Government of India) Summer Research Fellowship 2010</p> <p>Among National Top 1% (250 students) selected in the Indian National Physics Olympiad 2007</p> <p>Awarded Gold Merit Certificate in the 6th National Cyber Olympiad 2007</p>
ACTIVITIES AND LEADERSHIP	<p>Active participant in online programming competitions - Topcoder, Codeforces, SPOJ, Codechef</p> <p>Manager, Online MATLAB programming contest - ‘Matrix’, NIT Tiruchirappalli, 2011</p> <p>Guest Lecture, Face Detection in images, NIT Tiruchirappalli, 2011 (~100 participants)</p> <p>Mentor, Digital Image Processing Workshop, NIT Tiruchirappalli, 2010 (~150 participants)</p>