

Electrical Eddie



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EDUCATION	
University of Southern California Masters in Electrical Engineering, GPA 3.8/4.0	Expected May 2017
VIT University, Vellore, India Bachelors in Electronics and Instrumentation Engineering <i>Two-time Awardee of University Merit Scholarship for Academic Excellence</i>	May 2015
Coursera Certificate: Machine Learning by Stanford University on Coursera.	November 8, 2016
SKILLS	
C++, Python, C, MATLAB, OpenCV, Torch, Lua, Caffe, DIGITS by NVIDIA, Lasagne-Theano package	e, Linux, TensorFlow
WORK EXPERIENCE	
 Image Processing Co-op, Bedford Medical Inc., Bedford, MA Developing a Deep Learning Architecture for efficient segmentation of clinical features in OCT Tensorflow Designing a custom network based on well-known architectures such as U-Net, Fully Convolution 	Jan. 2017 - Present [images using utional Net for image
 segmentation Tuning hyper parameter settings to increase efficiency, and minimize inference time and mem Developing verification scripts and post processing algorithms for offline deployment 	ory
 Summer Research Intern, Taylor Research, Bangalore, India Worked on a Deep Learning Approach for Nucleus Segmentation in Cervical Cancer Images Implemented Segmentation by Classification and Segmentation using Deconvolution techniques usin NVIDIA Designed and trained an architecture based on AlexNet and a 2 stage Deconvolution network in The model was successful in detecting and segmenting unseen nuclei with a PPV of 91% and J making it a viable technique for commercial deployment for cancer identification 	June 2016 – July 2016 ing DIGITS by for segmentation faccard Score of 95%,
TECHNICAL PROJECTS	
 LeNet-5 Design Architecture Torch Lua Constructed the LeNet-5 Architecture using Torch to classify the MNIST dataset Performed extensive parameter analysis of different weight initialization schemes, non-linear a minimization algorithms Achieved a top accuracy of 99.05% and a mean Average Precision of 0.993 Engineered modified LeNet-5 to be robust to Negative MNIST, translated MNIST, and MNIST backgrounds 	Nov. 2016 activation functions, with complex
 Bag of Words histogram OpenCV C++ Extracted SIFT KeyPoints and descriptors of multiple images and clustered to 8 groups using H Generated the Bag of Words histogram with 8 bins for each image by computing the intra-grou Designed a Nearest Neighbor classifier to classify a new image 	Oct. 2016 K-means Clustering up KeyPoint count
 Low Cost Gesture Detector Energia MATLAB Designed and developed an award winning <i>Low Cost Gesture Detector</i> prototype Implemented the <i>Learning Vector Quantization</i> algorithm in MATLAB for model training and d hardware architecture of the device 	Oct. 2013 – Jan. 2014 leveloped the

• Design published in *IEEE Xplore* and awarded **Finalist** at the *Texas Instruments India Educator's Conference* 2014 amongst 300 teams in India

LEADERSHIP

 Senator of Ming Hsieh Department of Electrical Engineering at USC representing the Viterbi Graduate Student Association