

## Sriharsha Annamaneni

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<b>CONTACT INFORMATION</b>	Room 219, OBH IIIT, Hyderabad, INDIA	e-mail: sannamaneni2015@my.fit.edu webpage: sriharshavenugopal.github.io
<b>EDUCATION</b>	<b>Florida Institute of Technology, Melbourne, FL</b> <i>Master of Science, Electrical Engineering</i> , Dec 2017	GPA: 3.7
	<b>Manipal Institute of Technology, Manipal, India</b> <i>Bachelor of Engineering,</i> Electronics and Communication Engineering, June 2014	GPA: 6.93
<b>RESEARCH EXPERIENCE</b>	<b>IIIT Hyderabad</b> With Prof. C.V. Jawahar and Girish Varma Working on Deep Learning, Specifically Model Compression techniques and Semantic Segmentation for Autonomous Navigation on Indian Settings	November 2017-Present
	<b>Undergraduate Thesis, BARC, India</b> with Dr. Siddhartha Mukhopadhyay and Debmalaya Mukherjee Compression of Magnetic Flux Leakage Signals Data Collected by Instrumented Pipeline Inspection Gauge, The three stage compression algorithm involves Principal Component Analysis and Wavelets	Jan 2014 - Jun 2014
<b>PUBLICATIONS</b>	[1] Efficient Semantic Segmentation using Gradual Grouping Nikitha Vallurapalli*, Sriharsha Annamaneni*, Girish Varma*, CV Jawahar, Manu Mathew, Soyeb Nagori (*equal contribution, alphabetical order) eprint arXiv:1806.08522 and CVPR Workshop, 2018(oral) Best Runner-up Award	
	[2] Development of antenna deployment circuit for nano-satellites Pramath Keny*, Arya Menon*, Madhura Rao, Urvang Gaitonde*, Animesh Gupta*, Annamaneni Sriharsha* European Conference on Circuit Theory and Design (ECCTD), 2013	
<b>PROJECTS</b>	<b>Video Object Segmentation Aggregation:</b> The project is based on <i>Video Object Segmentation Aggregation</i> paper. The paper build a Aggregation Model based on seven other Video Object Segmentation models. <a href="#">project url</a>	
	<b>Primary Object Detection:</b> The project is based on <i>Discovering Primary Objects in Videos Based on Evolutionary Refinement of Object Recurrence, Background, and Primary Object Models</i> paper. A primary object discovery algorithm for a video sequence is proposed. <a href="#">project url</a>	
	<b>Traffic Sign Recognition:</b> Designed deep neural networks and Convolutional neural networks to classify traffic signs. <a href="#">project url</a>	
	<b>Vehicle Detection:</b> Designed two different computer vision pipelines for detecting vehicles. One is a classic computer vision pipeline using HOG and SVM based methods. Another one is using yolo. <a href="#">project url</a>	
	<b>Behavioral Cloning:</b> Designed a software pipeline to clone the driving behavior. <a href="#">project url</a>	
	<b>Detecting Lane Lines:</b> Designed a software pipeline to identify the lane boundaries in a video. <a href="#">project url</a>	

## COMPUTER SKILLS

**Languages:** C, C++, Python, Pytorch, Matlab, TensorFlow, Keras L<sup>A</sup>T<sub>E</sub>X.  
**Applications:** Vi/Vim, Git, Slurm

## EXPERIENCE

**Head of Communication and Ground Station subsystem** Parikshit Student Satellite Team

Feb 2012 - Dec 2013

Manipal

Programmed cc1101 and ADF7021-N Transceivers using MSP430. Our team Built a Ground Station for tracking the satellites. Our team signed Mou with Indian Space Research Organization to launch the satellite in low earth orbit

## Workshop and summer schools

- Volunteer for Summer schools on Computer Vision and Machine Learning held in IIIT Hyderabad July 2018
- Attended Neuro Inspired Computational Elements Workshop held in University of California Berkeley 2016
- Attended Workshop on Brain Circuits, Memory and Computation held in Columbia University 2016