

CONTACT INFORMATION	30 Wachusett St, Apt 1, Worcester, MA 01609	smalla@wpi.edu +1(774)253-9046
EXPERIENCE	Carnegie Mellon University , Field Robotics Center Research Associate Research Intern	Advisor: Sebastian Scherer (Sept'15-April'16) Advisor: Katerina Fragkiadaki (May'17- Present)
EDUCATION	Worcester Polytechnic Institute , Master of Science in Robotics Engineering	Jan 2017 - (Expected) Dec 2018 GPA: 4.0/4.0
	Vellore Institute of Technology, Vellore, India Bachelor of Technology in Electronics and Instrumentation	July 2012 - May 2016 CGPA: 8.79/10
PROJECTS	Planning Under Uncertainty for Infrastructure Inspection using UAV Developed mathematical model to find optimal velocities under uncertainty for coverage planning using TSP planners, implemented on dji-matrice using onboard computer and hukoyu laser scanner. https://goo.gl/sv4d1X	
	Gesture Controlled UAV Developed robust gesture control using Neural Networks and implemented on ARDrone. Using KINECT: https://goo.gl/zEODg8 Using LEAP: https://goo.gl/jI2MuZ	
	Autonomous Inventory Management using UGV Developed mobile robot and equipped it with custom made 3DOF robotic arm. KINECT sensor was used for RGBD mapping and localization using RTABMap https://goo.gl/mmbx2V	
	Person Following UAV Built a quadrotor and automated it to follow GPS coordinates using onboard navigation system. Developed an Android Application to send the GPS co-ordinates to the Quadrotor. https://goo.gl/5SUABr	
	Imitation Learning for Baxter Robot (currently ongoing) Developing Deep Reinforcement Learning algorithms to mimic and learn human actions with the help of Vicon Motion Capture.	
PUBLICATIONS	Vaegae Naveen,Venkata Lakshmi Narayana K, Srikanth Malla "Development of an Intelligent Pressure Measuring Technique for Bellows using Radial Basis Function Neural Network" Sensors and Actuators, A. Physical http://goo.gl/eC5X3z	
	Harjatin Singh Baweja, Tanvir Parhar, Srikanth Malla "Gesture Control Interface Using Machine Learning Algorithms." International Journal of Advanced Research in Computer Science and Software Engineering (IJARCSSE),Volume. 5, Issue. 09 (2015) ISSN: 2277-128X. http://goo.gl/BxX6ZC	
RELEVANT PROFICIENCIES	Programming Languages: C, C++, Python, Android Software: MATLAB, ROS, OpenCV, Multisim, Solid Works, CUDA, PCL, OpenRave, MoveIt, Simulators (Gazebo, MuJoCo), Deep Learning (Keras, Tensor Flow), OpenAI Hardware: Microcontrollers (Arduino/Atmega, MSP 430), Onboard(Odroid, Udoo, Raspberry Pi), Flight Controllers(Pixhawk, Ardupilot), Signal Conditioning	
AWARDS AND ACHIEVEMENTS	MHRD Scholarship (2012-2016) Awarded by Ministry of Human Resources and Development, Central Government of India. Special Achievers Award 2015 , Awarded by VIT University, Vellore, India.	
CERTIFICATIONS	Intro to Parallel Programming (Udacity CS344)	Self Driving Car Nano Degree (Udacity ND013)
MANAGEMENT SKILLS	Technical Head Creation Labs, VIT, India (2013-15) Student Head National Service Scheme (NSS), VIT (2014)	Technical Manager IEEE-EDS, VIT, India (2012-13) Event Organizer Make-athon 2015, VIT, India