

Sai Haneesh Allu

Personal Information	Ph.D. Candidate Intelligent Robotics and Vision Lab (IRVL) The University of Texas at Dallas, TX, 75080	saihaneshallu.github.io labs.utdallas.edu/irvl/ +1(945)213-9459
Education	The University of Texas at Dallas, TX, USA Ph.D. in Computer Science Advisor: <i>Dr. Yu Xiang</i>	<i>2022 – Present</i>
	Indian Institute of Technology, Delhi, India M.Tech in Control Systems Advisor: <i>Dr. Shubhendu Bhasin</i>	<i>2018 – 2020</i>
	National Institute of Technology, Warangal, India B.Tech in Electrical and Electronics Engineering	<i>2012 – 2016</i>
Skills	Python, ROS, PyTorch, OpenCV, Gazebo, MATLAB, Simulink, Ardupilot, Git, Java3D, C, C++	
Experience	<u>VECROS Technologies</u>	
	Co-Founder and CTO	<i>Jan '20 – Nov '21</i>
	<ul style="list-style-type: none">• Developed edge computed autonomous aerial point goal navigation system using Intel D430 modules and T261. Led the team in developing and testing autonomous perception-based control of multirotor systems for deep surveillance applications.• Trained and deployed custom neural networks on multirotor systems to identify roadworks anomalies while remotely controlling the aircraft through the internet for beyond visual line of sight operations.	
	<u>VECROS Technologies</u>	
	Operations Engineer	<i>Jul '16 – Aug '17</i>
	<ul style="list-style-type: none">• Conducted a comprehensive analysis of the fiber spool changeover process and developed a grounding mechanism to discharge static charges affecting the feedback system in the fiber draw mechanism.	
Publications	* denotes equal contribution and joint lead authorship.	
	Grasping Trajectory Optimization with Point Clouds Yu Xiang, Sai Haneesh Allu , Rohith Peddi, Tyler Summers, Vibhav Gogate <i>In Arxiv 2024.</i>	
	SceneReplica: Benchmarking Real-World Robot Manipulation by Creating Replicable Scenes Ninad Khargonkar*, Sai Haneesh Allu* , Yangxiao Lu, Jishnu Jaykumar P, Balakrishnan Prabhakaran, Yu Xiang <i>In International Conference on Robotics and Automation (ICRA), 2024.</i>	
Awards and Recognitions	Prof. A.K. Sinha Award, IIT Delhi Received for achieving the highest CGPA among 140 graduate students.	<i>May '20 – Jun '20</i>
	Best Teaching Assistant Award, IIT Delhi Awarded for effectiveness in assisting faculty and mentoring students in various courses.	<i>Jul '19 – Aug '19</i>
	Special Award, Sterlite Tech Received for quick learning and independent handling of the shift (among 80 employees).	<i>Jul '16 – Dec '16</i>
	Spot Performance Award, Sterlite Tech For implementing a variable speed module for uniform fiber draw.	<i>Feb '17 – Mar '17</i>