

# Sai Haneesh Allu

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<b>Personal Information</b>	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
<b>Education</b>	<b>The University of Texas at Dallas, TX, USA</b> Ph.D. in Computer Science Advisor: <i>Dr. Yu Xiang</i>	<i>2022 – Present</i>
	<b>Indian Institute of Technology, Delhi, India</b> M.Tech in Control Systems Advisor: <i>Dr. Shubhendu Bhasin</i>	<i>2018 – 2020</i>
	<b>National Institute of Technology, Warangal, India</b> B.Tech in Electrical and Electronics Engineering	<i>2012 – 2016</i>
<b>Skills</b>	Python, ROS, PyTorch, OpenCV, Gazebo, MATLAB, Simulink, Ardupilot, Git, Java3D, C, C++	
<b>Experience</b>	<b><u>VECROS Technologies</u></b>	
	Co-Founder and CTO	<i>Jan '20 – Nov '21</i>
	<ul style="list-style-type: none"><li>• 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.</li><li>• 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.</li></ul>	
	<b><u>Sterlite Tech</u></b>	
	Operations Engineer	<i>Jul '16 – Aug '17</i>
	<ul style="list-style-type: none"><li>• 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.</li></ul>	
<b>Publications</b>	* denotes equal contribution and joint lead authorship.	
	<b>Grasping Trajectory Optimization with Point Clouds</b> Yu Xiang, <b>Sai Haneesh Allu</b> , Rohith Peddi, Tyler Summers, Vibhav Gogate <i>In IEEE/RSJ International Conference on Intelligent Robots and Systems (IROS), 2024.</i>	
	<b>SceneReplica: Benchmarking Real-World Robot Manipulation by Creating Replicable Scenes</b> Ninad Khargonkar*, <b>Sai Haneesh Allu*</b> , Yangxiao Lu, Jishnu Jaykumar P, Balakrishnan Prabhakaran, Yu Xiang <i>In International Conference on Robotics and Automation (ICRA), 2024.</i>	
<b>Awards and Recognitions</b>	<b>Prof. A.K. Sinha Award, IIT Delhi</b> Received for achieving the highest CGPA among 140 graduate students.	<i>May '20 – Jun '20</i>
	<b>Best Teaching Assistant Award, IIT Delhi</b> Awarded for effectiveness in assisting faculty and mentoring students in various courses.	<i>Jul '19 – Aug '19</i>
	<b>Special Award, Sterlite Tech</b> Received for quick learning and independent handling of the shift (among 80 employees).	<i>Jul '16 – Dec '16</i>
	<b>Spot Performance Award, Sterlite Tech</b> For implementing a variable speed module for uniform fiber draw.	<i>Feb '17 – Mar '17</i>